

NAAC - SSR

**SELF STUDY REPORT
FOR
INSTITUTIONAL ASSESSMENT & ACCREDITATION
SUBMITTED TO
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC)**

SUBMITTED BY



NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY (NIET)

19, KNOWLEDGE PARK II, INSTITUTIONAL AREA, GREATER NOIDA,
G B NAGAR, UTTAR PRADESH, 201306

[Affiliated to Dr. A. P. J. Abdul Kalam Technical University
(Formerly UPTU), Lucknow, U.P.], www.niet.co.in

2017



NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, GREATER NOIDA

नोएडा अभियांत्रिकी एवं प्रौद्योगिकी संस्थान, ग्रेटर नोएडा

Approved by AICTE and Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow

(Formerly Uttar Pradesh Technical University)

Ph.: (0120) 2320062, 6498711; Fax: (0120) 2320132

e-mail: director@niet.co.in; Website: www.niet.co.in

Ref : NIET/

Date

COVERING LETTER

To,

**The Director,
National Assessment and Accreditation Council (NAAC),
Nagarbhavi, Bangalore- 560072, Karnataka.**

Subject: Submission of Self-Study-Report (SSR) of the Institute.

Dear Sir,

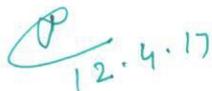
Greetings from NIET Greater Noida!

In reference to our **Letter of Intent (LOI) Track ID UPCOGN27097** and subsequent email from your side dated 11.04.2017 regarding the LOI acceptance information and the submission of Self-Study-Report (SSR).

In this regard, we have already uploaded our duly filled-in Self-Study-Report (SSR) in PDF format on the Institute's website i.e. **www.niet.co.in** (URL: <http://www.niet.co.in/pdf/naac-ssr.pdf>) on 20.03.2017 for your kind consideration. The hardcopy of the same is being sent for further processing.

Kindly acknowledge and do the needful

Thanks & Regards


12.4.17

Prof. (Dr.) Ajay Kumar
Director



NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, GREATER NOIDA

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Ref : NIET/

Date

Declaration by the Head of the Institution

I certify that the data included in the Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the Institution after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this SSR during the peer team visit.

Place: Greater Noida, UP.

Date: 10-04-2017

Signature of the Head of the Institution with Seal

Director
Noida Institute of Engineering & Technology
49, Knowledge Park-II, Greater Noida-201306

P
10.4.17

TABLE OF CONTENTS

| Topic | Page No. |
|--|-----------------|
| List of abbreviations | i-iii |
| Executive Summary..... | 1 |
| The SWOC analysis | 3 |
| Profile of the Institution | 7-18 |
| CRITERION-WISE ANALYTICAL REPORTS | |
| Criterion I Curricular Aspects | |
| 1.1 Curriculum Planning and Implementation..... | 19 |
| 1.2 Academic flexibility..... | 34 |
| 1.3 Curriculum Enrichment..... | 40 |
| 1.4 Feedback System | 43 |
| Criterion II Teaching-Learning and Evaluation | |
| 2.1 Student Enrolment and Profile..... | 45 |
| 2.2 Catering to Student Diversity | 49 |
| 2.3 Teaching-learning process | 51 |
| 2.4 Teacher quality | 57 |
| 2.5 Evaluation process and reforms | 62 |
| 2.6 Student performance and Learning Outcomes | 66 |
| Criterion III Research Consultancy and Extension | |
| 3.1 Promotion of research | 72 |
| 3.2 Resource Mobilization for Research..... | 90 |
| 3.3 Research Facilities | 93 |
| 3.4 Research Publication and Awards | 97 |
| 3.5 Consultancy | 101 |
| 3.6 Extension Activities and Institutional Social Responsibility (ISR) | 106 |
| 3.7 Collaboration..... | 110 |
| Criterion IV Infrastructure and Learning Resources | |
| 4.1 Physical facilities | 122 |
| 4.2 Library as a Learning Resource | 129 |
| 4.3 IT Infrastructure | 134 |
| 4.4 Maintenance of Campus Facilities | 141 |
| Criterion V Student Support and Progression | |
| 5.1 Student Mentoring and Support | 144 |
| 5.2 Student Progression | 159 |
| 5.3 Student Participation and Activities | 161 |
| Criterion VI Governance and Leadership and Management | |
| 6.1 Institutional Vision and Leadership | 173 |
| 6.2 Strategy Development and Deployment | 180 |

| | |
|---|------------|
| 6.3 Faculty Empowerment Strategies | 190 |
| 6.4 Financial Management and Resources Mobilization | 193 |
| 6.5 Internal Quality Assurance System (IQAS) | 194 |
| Criterion VII Innovations and Best Practices | |
| 7.1 Environment Consciousness | 199 |
| 7.2 Innovations | 202 |
| 7.3 Two best practices | 203 |
| Part E Evaluative Reports of the Departments | |
| 1. Department of Computer Science | 206-229 |
| 2. Department of Information Technology | 230-248 |
| 3. Department of Electronics & Communication..... | 249-262 |
| 4. Department of Mechanical Engineering | 263-280 |
| 5. Department of Bio-Technology | 281-292 |
| 6. Department of Chemical Engineering | 293-303 |
| 7. Department of Electrical & Electronics | 304-315 |
| 8. Department of Civil Engineering | 316-327 |
| 9. Department of Master of Business Administration..... | 328-341 |
| 10. Department of Master of Computer Application..... | 342-355 |
| 11. Department of Applied Sciences | 356-365 |
| Certificate of Compliance | 366 |

List of Abbreviations

| | |
|---------|--|
| AICTE | All India Council for Technical Education |
| AKTU | Abdul Kalam Technical University |
| ARC | Applied Robotic Control |
| BOS | Board of Studies |
| BT | Biotechnology |
| CBCS | Choice Based Credit System |
| C-DAC | Centre for Development of Advanced Computing |
| CDC | Creative Design Cell |
| CDCM | Creative Design Cell Meet |
| CDs | Compact Disc |
| CE | Civil Engineering |
| CGPA | Cumulative Grade Point Average |
| CH | Chemical Engineering |
| CMC | Career Management Cell |
| CNC | Computer Numerical Control |
| CSE | Computer Science & Engineering |
| CSI | Computer Society of India |
| CWQIP | Campus Wide Quality Improvement Program |
| DAAMM | Daily Academic And Administrative Monitoring Meeting |
| DDU-GKY | Deen Dayal Upadhyaya Grameen Kaushalya Yojana |
| DST | Department of Science & Technology |
| DSW | Dean Student Welfare |
| ECE | Electronics & Communication Engineering |
| EDC | Entrepreneurship Development Cell |
| EIS | Engineering & Industrial Services |
| EN | Electrical & Electronics Engineering |
| ERP | Enterprise Resource Planning |
| ETCS | Emerging Technologies In Computer Science |
| EWS | Economically Weaker Section |
| FDP | Faculty Development Program |
| FTDC | Faculty Training & Development Cell |
| GBTU | Gautam Budh Technical University |
| GMAT | Graduate Management Admission Test |

| | |
|--------|--|
| GRE | Graduate Record Examination |
| IAS | Indian Administrative Services |
| ICT | Information and Communications Technology |
| INAE | Indian National Academy of Engineering |
| IOT | Internet of Things |
| IPR | Intellectual Property Right |
| IQAC | Internal Quality Assurance Cell |
| IQAS | Internal Quality Assurance System |
| ISR | Institutional Social Responsibility |
| ISTE | Indian Society for Technical Education |
| IT | Information Technology |
| JET | Journal of Engineering & Technology |
| JOM | Journal of Management |
| KLD | Kilo Litre Daily |
| LSRW | Listening Speaking Reading Writing |
| MBA | Master of Business Administration |
| MCA | Master of Computer Application |
| ME | Mechanical Engineering |
| MODROB | Modernization and Removal of Obsolescence |
| MOOC | Massive Open Online Course |
| MOU | Memorandum of Understanding |
| MSME | Ministry of Micro Small And Medium Enterprises |
| MTU | Mahamaya Technical University |
| N/A | Not Applicable |
| NIET | Noida Institute of Engineering & Technology |
| NIRF | National Institute Ranking Framework |
| NITTTR | National Institute of Technical Teachers Training and Research |
| NPTEL | National Programme on Technology Enhanced Learning |
| NSDC | National Skill Development Council |
| OER | Open Educational Resource |
| OPAC | Online Public Access Catalogue |
| PBL | Project Based Learning |
| PDP | Personality Development Programme |
| PFS | Pyramid Finishing School |

| | |
|--------|--|
| PMKVKY | Pradhan Mantri Kaushal Vikas Yojana |
| PSUs | Public Sector Undertakings |
| PTC | Parametric Technology Corporation |
| QIP | Quality Improvement Program |
| QP-NOS | Quality Program - National Occupational Standard |
| RPS | Research Promotion Scheme |
| SAE | Society For Automobile Engineer |
| SCI | Science Citation Index |
| SDP | Student Development Program |
| STC | Short Term Course |
| STP | Summer Training Program |
| STTP | Short Term Training Program |
| TBI | Technology Business Incubator |
| TBL | Text Book Loan |
| TFW | Tuition Fee Waiver |
| TQM | Total Quality Management |
| TR | Tabulation Register |
| TSDP | Total Students Development Program |
| TSSC | Telecom Sector Skill Council |
| UGC | University Grant Commission |
| UPTU | Uttar Pradesh Technical University |
| VUE | Visual Understanding Environment |
| WSDP | Weak Students Development Program |

Executive Summary:

Noida Institute of Engineering and Technology (NIET), Greater Noida, is one of the premier Engineering and Management Institutes in the National Capital Region (NCR) of the country. It was established in the year 2001 by eminent visionaries under City Educational and Social Welfare Society of Meerut with a vision to provide value driven education of global dimensions. It is progressing towards a center of excellence, imparting technical education and generating competent professionals with a high degree of credibility, integrity and ethical standards. NIET aims at recognizing, respecting and nurturing the creative potential of each student.

The Institute is affiliated to Dr. A P J Abdul Kalam Technical University (formerly Uttar Pradesh Technical University), Lucknow, and approved by All India Council for Technical Education (AICTE). The Institute provides B. Tech. degree programs in eight branches, M. Tech. in seven branches, MCA, MBA. NIET continuously focuses on upgrading the human capital and infrastructure. The Institute is equipped with state-of-the-art cutting edge technology labs which includes Cloud Computing lab, Big Data lab, IOT lab, Embedded System lab, Product design & 3D printing lab, CARDEA (MiBeat) lab, ARC (Applied Robotic Control) lab, EMC² lab, Microsoft Innovation Centre, Cisco Networking Academy, PTC Competence Centre, Prometric Centre, Pearson VUE Center, Foreign language labs (Japanese & German). The Institute has established Technology Business Incubator (NIET-TBI), approved by MSME & Startup India, Government of India to support budding entrepreneurs. The Institute also has its own Mobile App (NIET-CollPoll) to facilitate students and recruiters with all the current information and queries.

INSTITUTE LEADERSHIP

The details of the Institute's Leadership are given below:-

| S. No. | Name | Designation |
|--------|----------------------------|-------------------------------|
| 1. | Dr.(Mrs.) Sarojini Agarwal | Chairperson |
| 2. | Dr. O.P. Agarwal | Managing Director |
| 3. | Dr. Neema Agarwal | Additional Managing Director |
| 4. | Sh. Raman Batra | Executive Vice-President |
| 5. | Sh. S C Nagpal | Head, Consultant |
| 6. | Prof. Pande B.B.Lal | Director General |
| 7. | Prof. Ajay Kumar | Director |
| 8. | Dr. Praveen Pachauri | Director (Project & Planning) |
| 9. | Dr. N.Rajesh Mathivanan | Dean - Academics |

Governing Body: The details of Governing Body of the Institute are given below:-

| S.No. | Name | Position | Profession/Nominee |
|-------|--|------------------|--|
| 1. | Dr (Mrs)Sarojini Agarwal | Chairperson | Professional Medical Practitioner, Renowned Gynecologist and MLC, UP. |
| 2. | Dr O.P. Agarwal | Vice-Chairman | Professional Medical Practitioner, Renowned Physician |
| 3. | Dr Neema Agarwal | Member | Professional Medical Practitioner, Renowned Radiologist |
| 4. | Sh. Ashok Singh | Member | Leading Public Figure |
| 5. | Sh. Dayanand Gupta | Member | Industrialist, Meerut |
| 6. | Sh. Raman Batra | Member | Executive Vice President, NIET |
| 7. | Prof. (Dr) M.M. Hasan, Jamia Milia Islamia, New Delhi | Member | UPTU/AKTU Nominee |
| 8. | Awaited from AICTE | Member | AICTE Nominee, Regional Officer (Ex-Officio) |
| 9. | Awaited from DTE, UP | Member | Director, Technical Education, Kanpur (Nominee) |
| 10. | Prof R. S. Nirjar | Member | Former Member Secretary, AICTE, and Former Vice-Chancellor, GBU |
| 11. | Prof S. H. Ansari | Member | Former HoD and Dean, Deaprtment of Pharmacy, Jamia Hamdard University, New Delhi |
| 12. | Prof.(Dr) Pande B.B.Lal | Member | Director General , NIET, Greater Noida |
| 13. | Prof. (Dr) Sanjay Gairola | Member | Dean (R & D) NIET, Greater Noida |
| 14. | Sh. Raj Kumar Goel | Member | Assistant Prof. NIET, Greater Noida |
| 15. | Prof. (Dr) Avijit Mazumder | Member | Director, Pharmacy, NIET, Greater Noida |
| 16. | Prof. (Dr) Ajay Kumar | Member Secretary | Director, NIET, Greater Noida |

SWOC Analysis

STRENGTHS

- **Management:** Good visionary management to take the institution to highest levels of quality education with transparent governance and administration.
- **Faculty:** Highly qualified and experienced.
- **Infrastructure:** Eco-friendly (solar powered) green campus, well equipped classrooms and laboratories, central library & Departmental libraries, sports facilities, medical facility and transportation facilities.
- **Teaching Methodology:** Fine blend of Pedagogy and Andragogy.
- **Certification:** ISO 9001:2015 certified.
- **Curriculum:** Adopting futuristic, Industry-oriented and emerging technologies besides standard curriculum of affiliating University.
- **Career Management Cell:** Excellent placement record (742 in the year 2015-16 and 792 in the current academic year i.e. 2016-2017).
- **Pyramid Finishing School:** Provides opportunity in skill based learning for bridging gap between academia and industry.
- **Collaborations:** Collaborations with Universities and Institutions of repute, MoUs with various Industries and Hospitals.
- **Train & Hire Programme:** The Institute runs Train-Hire programmes for customized manpower solutions for companies like Tata Consultancy Services, Metro Tyres, Murugappa group, ICICI direct, P3-Innovative Engineering Solutions and Fujitsu.
- **International Foreign Language Labs:** Japanese language lab & German language lab.
- **R&D:** University approved research centers in two Departments. Chapters / clubs of professional bodies like ISTE, CSI, IEI and Mozilla Firefox. Large number of publications with an incentive scheme for publication in reputed journal. Quality final-year projects.
- **Hostel:** Comfortable accommodation with 24X7 power backup, medical insurance, no profit- no loss co-operative mess, Wi-Fi & hotspots enabled, common room, guest room, automated laundry services.
- **Ranking:** 99th Rank across India by NIRF, MHRD, Govt. of India for the year 2016, among top educational institutions in India and 29th & 27th rank across India as “Best Private Engineering Institute” by Times of India for two consecutive years 2015 & 2016. The NIET B-School ranked 60th across India by Times of India for the year 2016-2017.
- **Recent Awards & Accolades:**
 - NIET, Greater Noida was awarded with “**India Excellence Award 2017**” for its “**Best Academic & Placement in U.P**” by Shri Prakash Javadekar (Hon’ble Union Minister of HRD, Government of India).
 - Digital Economy Conclave 2017, awarded NIET Greater Noida as **Best Institute in Academics and Placements in North India** for the year 2017.
 - Assocham, India awarded NIET, Greater Noida as “**Best Institute for Academic & Placement in U.P**” for three consecutive years 2015, 2016 and 2017.

- Awarded as “**Globe Platinum Award**” at World Business Conclave 2016 at Hongkong.
- Awarded as “**Great Place to Study**” by House of Commons, London (UK), 2015-16.
- Assocham, India awarded NIET, Greater Noida as “**Best Technical Institute in U.P**”, 2016.
- Assocham, India awarded NIET, Greater Noida as “**Best Institute of Innovative Education & Placement**”, 2016.
- WCRC awarded NIET, Greater Noida as “**Best Engineering Institute for Outstanding Placement**”, 2015-16 at Bangkok, Thailand.
- TCS awarded NIET, Greater Noida with “**Highest Participation of Students**” in “**TCS Flagship Contest**” for continuously three years 2016, 2015, 2014.
- Awarded as “**Visionary Minds**” by Aspiring Minds, 2016-2017; 2015-16; 2014-15
- Outstanding Institution Award 2014-15 by NITTTR, Chandigarh.
- Awarded “**Leading Institution in Skill Development and Placement**” by Times of India.
- Awarded “**Asia’s Best & Fastest Growing Education Institute in Asia**” by WCRC Leaders at Singapore, 2014-15.
- Awarded “**Best Institute for Excellence in Education**” by Times India Survey, 2015.
- **Innovative Labs:** NIET is equipped with cutting edge technology labs such as Cloud Computing, Big Data, Internet of Things, PTC, Applied Robotics Control lab under Indo-Euro Sync, Apple iOS, CARDEA (MiBeat), Product Design & 3D Printing, Embedded Systems, EMC² & Microsoft Innovative lab.
- **Publications:** NIET publishes two bi-annual journals namely NIET Journal of Engineering & Technology and NIET Journal of Management.
- **Library:** Completely automated Library Management System. Multiple copies of books and journals (hard/ e-journals) ensure that resources are easily available for landing & reference in the library.
- **Incubation Center:** NIET, Technology Business Incubator (NIET-TBI), approved by MSME & Startup India, Government of India to develop the entrepreneurship skills of students and help them to become successful entrepreneurs.
- **NIET Skill Academy:** With the aim to become global skill hub, NIET skill academy in association with PMKVY (Pradhan Mantri Kaushal Vikas Yojana) & DDU-GKY (Deen Dayal Upadhyaya Grameen Kaushalya Yojana) provides different skill programs to the interested students.
- **Institute Social Responsibility:** Organizes several welfare programmes for students and society, such as Rainbow School, Girls self-defense training, TCS fit-for-life Campus Challenge, Tree Plantation, Drug campaign, Save water, save power awareness program etc. Also have tie-ups with NGOs like Neerangali & Assem Nari Shakti.
- **Other Facilities:** Nationalised Bank (Union Bank of India) with ATM facility, ultra modern gymnasium, indoor & outdoor sports activity and food court (Hunger Bells).

NIET has State-of-art Digital Studio to record stellar faculty members and making their video available on cloud space for easy and effective access.

- **GATE/ IES Training Centre:** NIET in association with Engineer's zone provides guidance & training to students for GATE/ IES preparation on subsidized fees.
- **Tie-up under Margdarshan Scheme of AICTE:** NIET is the first engineering college in northern India and one among the 10 engineering college, chosen by the College of Engineering Pune (CoEP) as a part of the Margdarshan scheme of the All India Council for Technical Education (AICTE).

WEAKNESSES

- **Curriculum of University:** Gap between industry and academia.
- **Communication Skill:** Majority of students come from rural background and lack communication skills.
- **Lack of Sponsored Projects and Consultancy:** Active mobilisation of fund from the government agencies for research & development needs to be enhanced.
- **Delayed counseling affects admission:** Meritorious students are attracted by other reputed Universities from other states due to their early counseling.
- **Industrial Exposure:** Lack of Industry experienced faculty members.

OPPORTUNITIES

- **Location:** NIET, located in Greater Noida, NCR, can leverage on the huge opportunity to become an innovation hub to support 'Make in India', 'Digital India' and Startup initiatives of the Government of India.
- **Competitive Examination:** Creating a platform to provides students in becoming IAS and allied services officers.
- **International Placements:** Continuous efforts for the placement of students internationally on niche technologies.
- **Faculty exchange Programme:** To conduct cross faculty exchange activities among reputed Institutes.
- **Developing Innovative Ideas:** Scope for developing innovative ideas from staff and students into products and commercialisation through NIET-TBI.
- **Tie-up with National and International Universities/Organizations:** Plan to strengthen relationship on mutual benefit with Universities, Institutes/Organizations of National and International level under MERSION Program.
- **Startup India:** Creating an ecosystem through NIET-TBI for successful spin-off.

CHALLENGES

- **Industry and Market Needs:** Rapid development in technology increases the gap between industry and academia.
- **Quality of Students:** Enriching the quality of students coming from rural background.
- **Enhancing the Moral Values:** To relate technical education with high moral values.
- **Skill based education:** Skill based training of the students which is the need of current scenario.
- **Mushrooming of Universities, Technical colleges:** Rising number of Colleges, Universities and Technical Institutions bringing in tough competition among the colleges.
- **Retention of Intellect Capital:** Mushrooming Institutes make it tough to retain good faculty members.

SECTION B: PREPARATION OF SELF-STUDY REPORT

Profile of the Affiliated/Constituent College

1. Name and Address of the College:

| | | | |
|-----------------|--|----------------------|--|
| Name: | NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY | | |
| Address: | 19, Knowledge Park II, Institutional Area, Greater Noida | | |
| City: G B Nagar | Pin: 201306 | State: Uttar Pradesh | |
| Website: | www.niet.co.in | | |

2. Address For Communication:

| Designation | Name | Telephone with STD code | Mobile | Fax | E-mail |
|--------------------------------------|-----------------------------|--------------------------|------------|---------------------|-----------------------------|
| Principal/ Director | Dr Ajay Kumar | O:0120- 2320062 R: | 9599446607 | +91-120- 2320062 | director@niet.co.in |
| Vice Principal | - | O: R: | - | - | - |
| Steering Committee Coordinator | Dr. N. Rajesh Mathivanan | O:0120- 2320062 R: | 9958733153 | +91-120- 2320062 | deanacademic@niet .co.in |

3. Status of the Institution:

Affiliated College

Constituent College

Any other (specify)

4. Type of Institution:

- By Gender
 - For Men
 - For Women
 - Co-education

- By Shift
 - Regular
 - Day
 - Evening

| |
|-------------------------------------|
| |
| |
| |
| <input checked="" type="checkbox"/> |

| |
|-------------------------------------|
| <input checked="" type="checkbox"/> |
| |
| |

5. It is a recognized minority institution?

Yes

| |
|--------------------------|
| |
| <input type="checkbox"/> |

No

If yes, specify the minority status (Religious/linguistic/any other) and provide documentary evidence.

| |
|--|
| |
|--|

6. Sources of Funding:

Government
Grant-in-aid
Self -financing
Any other

| |
|-------------------------------------|
| |
| |
| |
| <input checked="" type="checkbox"/> |
| |

7. a) Date of establishment of the college: **02/07/2001**

b) University to which the college is affiliated/or which governs the college (If it is a constituent college)

Dr. A.P.J. Abdul Kalam Technical University, Lucknow

c) Details of UGC recognition: **N.A.**

| S.No. | Under Section | Date, Month & Year (dd-mm-yyyy) | Remarks (If any) |
|-------|---------------|------------------------------------|---------------------|
| 1 | 2(F) | ----- | NO |
| 2 | 12(B) | ----- | NO |

(Enclose the Certificate of recognition u/s2 (f) and 12 (B) of the UGC Act)

- d. Details of recognition/ approval by statutory/ regulatory bodies other than UGC (AICTE (✓), NCTE, MCI, DCI, PCI (✓), RCI etc.)

| Under Section/ clause | Recognition/ Approval details Institution/ Department Programme | Day, Month and Year (dd-mm-yyyy) | Validity | Remarks |
|----------------------------------|--|---|-----------------|--|
| i. | Northern/1-2812368061/ 2016/ EOA | 05/04/2016 | 1 year | AICTE Approval for Engineering, MBA, MCA |

(Enclose the Certificate of recognition (Annexure I)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized?

a) by UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition :.....(dd/mm/yyyy)

b) for its performance by any other governmental agency?

Yes: ✓ No:

If yes, Name of the agency: NIRF, MHRD, Govt. of India and NITTTR, Chandigarh

Date of recognition by NIRF: 04.04.2016

Date of recognition by NITTTR Chandigarh: 07.09.2015

10. Location of the campus and area in sq. mts:

| Location* | Urban |
|--------------------------|--------------------|
| Campus area in sq.mts. | 40864.6 sq. mts. |
| Built-up area in sq.mts. | 62285.37** sq.mts. |

(*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify; ** Multistory)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- Auditorium/ seminar complex with infrastructural facilities - ✓ Yes (02 Nos)
- Sports facilities
 - Play Ground ✓ (02 Nos)
 - Swimming Pool No
 - Gymnasium ✓(02 Nos)
- Hostel
 - Boys hostel
 - No. of Hostels: 03
 - No. of inmates: 1014
 - Facilities:
 - Cooperative mess, Wi-Fi, gymnasium, indoor/outdoor games, Common Room, shops (stationery), medical facilities and insurance, guest room, Geyser, laundry, Power Back-up, etc.
 - Girls' hostel
 - Number of Hostels: 01
 - Number of inmates: 406
 - Facilities
 - Cooperative mess, Wi-Fi, gymnasium, indoor/ outdoor games, Common Room, shops (stationery), medical facilities and insurance, Guest room, Geyser, laundry, Power Back-up, etc.
 - Working women's hostel – ✓ Yes (few rooms are allocated in girls hostel)
 - Residential facilities for teaching and non-teaching staff (give numbers available—cadre wise) ✓ Yes
 - Hostel for Teaching / Non-teaching staff: ✓ Yes (01 Nos)
 - Residential Facilities for Directors/Deans: ✓ Yes (04 Nos)

- Cafeteria - ✓ Yes (04 Nos)
- Health centre - ✓ Yes (01 Nos)
 - First aid, In-patient, Out-patient, Emergency care facility, Ambulance - ✓ Yes available
 - Health centre Staff - ✓ Yes available
 - Qualified Doctor Full-time (✓) Part-time
 - Qualified Nurse Full-time (✓) Part-time
- Facilities like banking, post office, book shops – ✓ Yes available
- Transport facilities to cater to the needs of students and staff – ✓ Yes available
- Generator or other facility for management/ regulation electricity and voltage - ✓ Yes available
- Solid waste management facility– ✓ Yes (Initiated)
- Waste water management– ✓ Yes (sewage treatment plant 195KLD)
- Water harvesting – ✓ Yes available

12. Details of programmes offered by the college (Give data for current academic year: 2015-2016)

| S. No. | Programme Level | Name of the Programme/ Course | Duration | Entry Qualification | Medium of Instruction | Sanctioned / approved Student strength | No. of students admitted |
|--------|--------------------------|-------------------------------|----------|---------------------|-----------------------|--|--------------------------|
| 1 | Under- Graduate B. Tech. | CS 1 st Shift | 4 Yrs | 10+2 | English | 180 | 180+5* |
| | | CS – 2 nd Shift | | | | 60 | 60+2* |
| | | EC – 1 st Shift | | | | 180 | 119 |
| | | EC – 2 nd Shift | | | | 60 | 43 |
| | | IT | | | | 120 | 119 |
| | | ME- 1 st shift | | | | 180 | 180+7* |
| | | ME – 2nd Shift | | | | 60 | 60+3* |
| | | EN- 1 st Shift | | | | 180 | 111 |
| | | EN- 2 nd Shift | | | | 60 | 20 |

**Self-Study Report
Noida Institute of Engineering & Technology**

| | | | | | | | |
|----|---------------------------------------|---------------------------------|-------|-----------------------|---------|-------------------------------|-----|
| | | CE | | | | 180 | 179 |
| | | CH | | | | 60 | 29 |
| | | BT | | | | 60 | 47 |
| | | | | | | | |
| 2 | Post-Graduate (M. Tech.) | Software Eng. | 2 Yrs | B.E./B. Tech | English | 18 | 02 |
| | | CSE | | | | 24 | 08 |
| | | VLSI | | | | 18 | 02 |
| | | Tel. Comm. Eng. | | | | 18 | 04 |
| | | CAD | | | | 18 | 03 |
| | | Power Electronics | | | | 18 | 04 |
| | | ME | | | | 24 | 09 |
| | Post-Graduate | MBA | 2Yrs | Graduate | English | 180 | 76 |
| | | MCA | 3 Yrs | BCA/ UG with Maths | English | 60 | 21 |
| 3 | Integrated Programme PG | --- | --- | --- | --- | --- | --- |
| 4 | Ph.D. | Approved Research Centers | 3 Yrs | Masters Degree | English | As per University Norms | |
| 5 | M. Phil. | --- | --- | --- | --- | --- | --- |
| 6 | Ph. D. | --- | --- | --- | --- | --- | --- |
| 7 | Certificate courses | --- | --- | --- | --- | --- | --- |
| 8 | UG Diploma | ---- | --- | --- | --- | --- | --- |
| 9 | PG Diploma | --- | --- | --- | --- | --- | --- |
| 10 | Any Other (specify and provide) | --- | --- | --- | --- | --- | --- |

* FW Category (5% Extra Seats in B.Tech Programme)

13. Does the college offer self-financed Programmes?

Yes

No

If yes, how many?

UG-01 (08 B.Tech courses),
 PG-03 (07 M.Tech, MBA, MCA) and
 02 University approved Research Centers

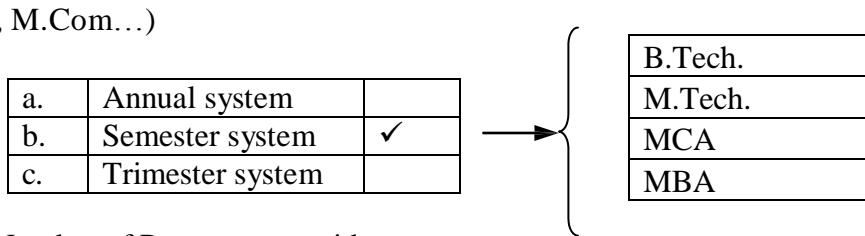
14. New programmes introduced in the college during the last five years if any?

| | | | | | |
|-----|---|----|---|--------|--|
| Yes | ✓ | No | 1 | Number | UG-01(B.Tech in Biotechnology) PG- 07 courses |
|-----|---|----|---|--------|--|

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages, etc.)

| Faculty | Departments (eg. Physics, Botany, History) | UG | PG | Research |
|---|---|----|----|----------|
| Any Other (Specify) | 1. Faculty of Engineering | | | |
| | ➤ Department of Computer Science & Engg. | ✓ | ✓ | |
| | ➤ Department of Information Technology | ✓ | | |
| | ➤ Department of Electronics & Communication Engineering | ✓ | ✓ | ✓ |
| | ➤ Department of Electrical & Electronics Engineering | ✓ | ✓ | |
| | ➤ Department of Mechanical Engineering | ✓ | ✓ | ✓ |
| | ➤ Department of Civil Engineering | ✓ | | |
| | ➤ Department of Chemical Engineering | ✓ | | |
| | ➤ Department of Bio-Technology | ✓ | | |
| | 2. Faculty of Management (MBA) | | | ✓ |
| 3. Faculty of Computer Applications(MCA) | | | ✓ | |

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)



17. Number of Programmes with

- a. Choice Based Credit System
- b. Inter/ Multi-disciplinary Approach

All Programs
 B.Tech., M.Tech., MBA, MCA all
 have inter-disciplinary subjects

c. Any other (specify and provide details) N.A.

18. Does the college offer UG and/ or PG programmes in Teacher Education?

Yes No

If yes,

- a. Year of Introduction of the programme(s).....(dd/mm/yyyy)
and number of batches that completed the programme
- b. NCTE recognition details (if applicable)
Notification No.:
Date:(dd/mm/yyyy) Validity:
- c. Is the institution opting for assessment and accreditation of Teacher Education Programme separately?

Yes No

19. Does the college offer UG or PG programme in Physical Education?

Yes No

If yes,

- a) Year of Introduction of the programme(s).....(dd/mm/yyyy)
and number of batches that completed the programme
- b) NCTE recognition details (if applicable)
Notification No.:
Date:(dd/mm/yyyy) Validity :
- c) Is the institution opting for assessment and accreditation of Physical Education?
Programme separately? Yes No

20. Number of teaching and non-teaching positions in the Institution

| Positions | Teaching faculty | | | | | | Visiting Faculty | Nonteaching staff | | Technical staff | |
|--|------------------|----|---------------------|----------------------------------|---------------------|----|------------------|-------------------|----|-----------------|----|
| | Professor | | Associate Professor | | Assistant Professor | | | | | | |
| | *M | *F | *M | *F | *M | *F | | *M | *F | *M | *F |
| Sanctioned by the UGC/ University/ State Government | - | - | - | - | - | - | | - | - | - | - |
| <i>Yet to recruit</i> | - | - | - | - | - | - | | - | - | - | - |
| Sanctioned by the Management/society or other authorized bodies <i>Recruited</i> | 21 | 05 | 09 | 02 | 183 | 91 | 66 | 32 | 06 | 71 | 01 |
| <i>Yet to recruit</i> | | | | Recruitment is made as per norms | | | | | | | |

*M-Male *F-Female

21. Qualifications of the teaching staff:

| Highest Qualification | Professor | | Associate Professor | | Assistant Professor | | Total |
|-----------------------|-----------|--------|---------------------|--------|---------------------|--------|-------|
| | Male | Female | Male | Female | Male | Female | |
| Permanent teachers | | | | | | | |
| D.Sc./D.Litt. | - | - | - | - | - | - | - |
| Ph.D. | 21 | 05 | 07 | 01 | 11 | 04 | 49 |
| M. Phil. | - | - | - | - | 02 | 00 | 02 |
| PG | - | - | 01 | 0 | 169 | 86 | 255 |
| Temporary teachers-NA | | | | | | | |
| Ph.D. | | | | | | | |

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| M. Phil. | | | | | | | |
| PG | | | | | | | |
| Visiting Faculty –Male: 63, Female: 03 | | | | | | | |
| Ph.D. | | | | | | | |
| M.Phil. | | | | | | | |
| PG | | | | | | | |

22. Number of Visiting Faculty /Guest Faculty engaged with the College.

66

23. Furnish the number of the students admitted to the college during the last four academic years.

| Categories | Year 2016-17 | | Year 2015-16 | | Year 2014-15 | | Year 2013-14 | | Year 2012-13 | |
|------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|-------|
| | Male | Female | Male | Female | Male | Female | Male | Female | Male | Femal |
| SC | 46 | 07 | 32 | 07 | 41 | 11 | 65 | 16 | 91 | 12 |
| ST | 01 | - | 01 | 00 | 09 | 05 | 23 | 10 | 03 | 00 |
| OBC | 346 | 48 | 431 | 65 | 432 | 84 | 459 | 40 | 445 | 89 |
| General | 750 | 149 | 688 | 178 | 580 | 161 | 629 | 151 | 821 | 264 |
| Others | 02 | - | 154 | 13 | 78 | 12 | 95 | 25 | 102 | 17 |

24. Details on students enrollment in the college during the current academic year:

| Type of students | UG | PG | M.Phil | Ph.D | Total |
|---|-------------|------------|--------|------|-------------|
| Students from the same State where the college is located | 838 | 104 | - | - | 942 |
| Students from other states of India | 541 | 28 | - | - | 569 |
| NRI students | N.A. | N.A. | - | - | - |
| Foreign students | N.A. | N.A. | - | - | - |
| Total: | 1379 | 132 | - | - | 1511 |

25. Drop out rate in UG and PG (average of the last two batches)

UG 0.6%

PG 4%

26. Unit Cost of Education

Unit cost=total annual recurring expenditure (actual) divided by total number of students enrolled)

(a) Including the salary component Rs. 85686.17/-

(b) Excluding the salary component Rs. 37806.45/-

27. Does the college offer any programme/in distance education mode (DEP)?

Yes No ✓

If yes,

a) Is it a registered centre for offering distance education programmes of another University

Yes ✓ No

b) Name of the University which has granted such registration

Indira Gandhi National Open University (IGNOU)

c) Number of programmes offered 02

d) Programmes carry the recognition of the Distance Education Council.

Yes ✓ No

28. Provide Teacher-student ratio for each of the programme/ course offered

| | |
|--------------------------------|------|
| UG (B.Tech) PG (MBA & MCA) | 1:15 |
| PG (M.Tech) | 1:12 |

29. Is the college applying for

| | | | | | | | |
|----------------|---------|---|---------|--|---------|--|---------|
| Accreditation: | Cycle 1 | ✓ | Cycle 2 | | Cycle 3 | | Cycle 4 |
|----------------|---------|---|---------|--|---------|--|---------|

| | |
|---------------|--|
| Re-Assessment | |
|---------------|--|

(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)

30. Date of accreditation*(applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only)

Cycle 1:..... Accreditation Outcome/ Result— N/A

Cycle 2:.....(dd/mm/yyyy) Accreditation Outcome/ Result.....

Cycle 3:.....(dd/mm/yyyy) Accreditation Outcome/ Result.....

***Enclosed copy of accreditation certificate(s) as annexure II and peer team report(s) as an annexure III.**

31. Number of working days during the last academic year.

257

32. Number of teaching days during the last academic year.

(Teaching days means days on which lectures were engaged excluding the examination days)

164

33. Date of establishment of Internal Quality Assurance Cell (IQAC):

26th February, 2015

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to

NAAC **N/A**

AQAR (i).....(dd/mm/yyyy)

AQAR (ii).....(dd/mm/yyyy)

AQAR (iii).....(dd/mm/yyyy)

AQAR (iv).....(dd/mm/yyyy)

35. Any other relevant data (not covered above) the college would like to include.

(Do not include explanatory/ descriptive information: **Nil**)

2. Criteria-wise Inputs

CRITERION I : CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision:

- To be an Institute of academic excellence in the field of education, with future plan of becoming a deemed university, earn name and hence win faith of the society.

Mission:

- To impart to its students a high quality education, develop their skills, broaden their mental horizon and nurture them into competent and talented professionals to meet the challenges of the new millennium.

Quality Policy:

- The quality policy of the Institution is to develop highly skilled human resources with the ability to adapt to an intellectually and technologically changing environment with the participative efforts of the management, staff, students and parents.

Values:

The focus is mainly on results, integrity, innovation, teamwork and discipline.

1. Focus on Result

- a. Help student to be at their best by providing individualistic training
- b. Have a can do (positive) attitude and drive to take the tough calls
- c. Make students feel valued and appreciated
- d. Provide best-in-class placements to students

2. Integrity

- a. Demonstrate a commitment to integrity and ethics
- b. Finishing School Training is provided to all students free of cost
- c. Show respect and value all individuals for their diverse backgrounds, experiences, styles, approaches and ideas
- d. Assume positive intent

3. Innovation

- a. Use latest technologies to train students

- b. Use innovative processes and unique solutions
- c. Foster creative work environment
- d. Improvement in processes and procedures

4. Teamwork

- a. Work with others as a team to accomplish results
- b. Celebrate success together
- c. Listen to others for understanding
- d. Personally committed to the success and well-being of teammates

5. Discipline

- a. Honest and fair with each other
- b. Abide by our policies and procedures
- c. Support our disciplinary system
- d. Protect and uphold our values

Objectives:

- To inculcate a sense of professional responsibilities in our students to excel in their respective fields.
- To motivate students for lifelong learning process to remain creative, adaptable and effective professionals in the workplace.
- To impart life skills to our students.

Communication to the different stakeholders

- The vision and the mission of NIET are displayed at the prime locations such as, reception, Department notice board, laboratories, library, seminar hall, and canteen. Websites, mobile app, prospectus, magazine, newsletters and academic calendar of the college are the means of disseminating our vision and mission to everyone.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

NIET, being an affiliated college, solely depends on university for its curriculum. The following framework is used to deploy the curriculum effectively

- **Collection** of syllabus and academic calendar of the session from the university.
- **Discussion** about the proper execution of the teaching plans.
- **Allotment** of the subjects to faculty members as per their expertise.
- **Formulation** of faculty wise weekly time-table so as to ensure well-timed completion of syllabus.
- **Notification** of class time-table to faculty members and student through ERP and notice boards and distribution of syllabus and evaluation scheme

among students.

- **Preparation** of the study materials in the form of a Course file, containing Power point slides, notes, tutorial sheets, assignment sheets, quizzes, model and previous years question papers and any other relevant materials by the faculty members.
- **Conduction** of the theory, tutorial, and practical classes appropriately monitored by HODs and the Director.
- **Feedback** from the students so as to resolve their academic and administrative issues immediately.
- **Internal Examinations** are administered during an academic term as per the university's guidelines.
- **Compilation** of marks and its submission by the faculty to the university.
- **Review** of Faculty wise students' feedback and counseling/ mentoring of the individual faculty members by HOD for any short fall and improvements.
- **Review** of internal and external results by the Director/ Dean/ HODs so as to take corrective measures to be implemented in next semester to improve students' performance.

1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

- The University through its website (www.aktu.ac.in) communicates with its teachers apropos of the course curriculum, syllabi, workshops, conferences, notices and other official details. Through this website the university interacts with the institute for various academic issues through allotted college login/teacher login.
- To strengthen the teaching-learning process the Institute provides the teachers with all the required and modern tools such as laptops, projectors, and audio-video devices etc. and encourages them to have right blend of pedagogy and andragogy teaching.
- Access to e-journals, text books, reference books, IEEE publications and other technical magazines of repute are provided to the teachers to upgrade their knowledge.
- The management support faculty members for any suggestions regarding initiative and innovation in teaching methodology.
- The research interests of teachers are encouraged through incentives.
- The institute organizes various training programmes, seminars, conferences, workshops, FDPs and guest lectures for improving teaching practices.
- The Institute organizes Academic Manthan annually to improve teaching practices.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.

The initiatives taken by the Institution for effective curriculum delivery and for transaction on the curriculum as given below:

- Institute frames different committees to ensure effective curriculum delivery.
- The institute focus on using modern teaching aids (presentations, video, case studies & caselets etc.)
- Time-to-time FDP programmes are arranged for adapting new practices.
- Performance incentives are given to teachers and students.
- Weak Student Development Program (WSDP) classes are organized every semester to support academically weaker students.
- Director and Dean (Academic) office ensure effective implementation of the university curriculum and continuously monitor the academic activities through an automated enterprise resource package (ERP) of the Institute.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalisation of the curriculum?

The curriculum is designed by Board of studies of the affiliating university which comprises of the members from academia, industry and research bodies and it is made operational in such a way that the students pursuing the programme are readily employable by the industries & organizations. For networking and interaction the Institute resorts to efficient networking and interaction with beneficiaries through the following institutionalized processes:-

1. Networking and Interaction with Industry:

Institution networks and interacts with the industry in a number of ways. Institute has a full-fledged Career Management Cell (CMC) for interacting, initiating talks, organizing the events in collaboration with the industries. The CMC is engaged in organizing industry-academia participation events, such as Human Resource Conclaves, Train & Hire Programs, ISR Programs, Seminars & Conferences, Guest/ Expert Lectures by industry representatives, Industrial Visits for the students etc.

1.a. HR Conclaves

The Institute organizes and participate in National & International HR Conclaves at various places like Bangalore, Gurgaon, New Delhi, Pune, Singapore, Orlando, Washington DC, USA to interact with HRs of leading organizations across the world to understand the requirement of the industry which is to be taken care through curriculum. The HR Conclaves are organized to initiate the direct interaction between industry and the academia. A large number of HRs participate and put forth the problems and the

solutions related to the students. In turn, the colleges also share their thoughts for the improvement in the further joint efforts in training and recruiting the young students of the colleges.

Few photographs of HR Conclaves/ Events

1. HR Conclave, Gurgaon



2. HR Conclave, Bangalore



3. HR Conclave, Singapore



4. HR Conclave, New Delhi



5. SHRM India, Annual Conference,
Gurgaon

6. HR Conclave, Pune



7. SHRM International HR Conclave,
Washington DC, 2016

8. Stimulus World Business Conclave,
HongKong, 2016



1.b Train & Hire Program:

This program is to cater the industry ready professionals. The companies provide additional training supplementing the curriculum. For example:

- **Tata Consultancy Services** starts orientation of students a year before they plan to recruit from our Institute. Various activities are organized throughout the year for the benefit of the students. For example
 - **EIS Technova:** It is an Engineering & Industrial Services (EIS) Project, whereby students gets trained by TCS representatives by means of "Project Stalls".
 - **TCS Guest Lectures** for students and faculty members are organized for betterment and updating of students, faculty members and HoD about the upcoming technologies.



- **Murugappa Group:** Murugappa Group visits us a year before the campus selection to train B. Tech 3rd year (Mechanical Branch) students by means of Workshops, Event and Quizzes for their upcoming projects. As a part of Murugappa Group “**Young Professional Program**”, they begin our campus initiatives every year to engage with pre-final year candidates and help them in analysing their cognitive ability in preparation for the next year Campus Season.



- **Headstrong:** The major collaboration between the IT giant, Headstrong, and NIET has led to success of industry-academia partnership. NIET students and faculty members under the same vision are associated in live projects of the company. The organization’s prime focus is to enhance the knowledge of both the mentor & the mentee.

1.c. Institute Social Responsibility (ISR) Programmes

These programs are introduced to provide exposure to the students to cater the social needs.

NIET has strongly stepped-in the Institute Social Responsibility initiatives in collaboration with government & non-government organizations and has organized many

welfare programmes for the students and the people of society. Below are some of the events which have recently been organized under the banner of CSR.

- **TCS Fit4life - Campus Challenge**

Partnering with the TCS Fit4life team, the Institute launched the “TCS Fit4life Campus Challenge”, in which students as well as teachers participated in a 5km run. TCS Fit4life Run, organized on 8th February, 2015, more than 3000 students participated from across the engineering colleges in Delhi/NCR.



- **Girls' Self-Defense Training**

NIET has recently organized Girls' Self-Defense Programme in association with a retired US Defense Force Professional, Ms. Melissa. The girls were trained in many of the tactics for the self-defense during the time of any crises.

The girls were trained in various aspects:

- Mentally Prepare Yourself
- Be Aware of Your Surroundings
- Predict Dangerous and Controlling Behavior
- Know Your Strengths & His Weakness
- Don't Be Relocated
- Stay Alert on Vacation



- **The Rainbow School**

To provide education to the children of the construction workers in the vicinity and those elsewhere, under the umbrella of Om Charitable Trust, the Rainbow School came into existence few years back.

The rainbow school students come from families who live on comparatively smaller means of life. NIETians, both the students and the faculty members, find time to interact with Rainbow School students once in a while. Apart from academics, these children are also being imparted vocational training.



1.d Industrial Visits

Industrial Visits are organized to give the real time exposure to the students about how the organizations operate. The batches of 40-60 students are formed and sent to the location of the organisation to see the ongoing work, machinery, work –culture, etc. Students are accompanied by a faculty member and one Mentor/Trainer is also assigned from the company to instruct students about the company, its projects, machinery, work-culture, etc.

Industry Visits



1.e Guest/Expert Lecture from the Industry

Expert Lectures are organized through the industry guests visiting our college for the interaction with the students. These invited guests are from the government, non-government, private and small scale industries. The Career Management Cell regularly organizes the lectures in coordination with various academic departments at the Institute. Some of the expert lectures organized is as follows:

- **Tata Consultancy Services:** Guest Lectures are organized by TCS for students and faculty members for betterment and updating about the latest trends in technologies.
- **AMDOCS:** The guest lecture was organized in collaboration with AMODCS, Pune. Their HR team member Ms. Viprali Rastogi and Technical Head Mr. Kamal Kant visited to deliver the guest lecture for NIET B. Tech pre-final and final-year students.



- **Samsung Engineering Pvt. Ltd.:** The lecture, delivered by Mr. Vishal Sharma, Regional Manager of the company, aimed at introducing B.Tech students to the latest technologies and trends being adopted by the Samsung Engineering to compete in the current market.



- **Indian Air Force Motivational Talk:** The motivational talk was organized by Chandipur Air Force Station for B. Tech pre-final and final-year students. The purpose of this talk was to update students about the career opportunities existing in the Air Force. The talk was delivered by Flt. Lt. Seemab Akhtar.
- **R System:** The motivational talk is organized by HR of R System. They organize group discussion and demo interview sessions for preparing students for upcoming training & placement session of self and other participating technology.



2. Networking and interaction with research bodies and the university

The faculty members organize various workshops, seminars, conferences and participate in events organized by other institutes and universities. Many of our faculty members are supervising UG/ PG projects and Ph.D candidates in collaboration with researchers and academicians in premier research organizations and institutions. NIET is a university-approved research center. Some of the events organized by the Institute are follows:

2.a Seminars and Conferences

Seminars and Conferences are organized for persuading the research & development on the latest technologies and work-culture. Eminent speakers and guests from the academia and industry are invited to participate in the seminars and conferences. The details of the seminars organized are given below:

- Recent Trends in Electrical Engineering
 - Prof. S K Kak, VC, MTU
 - Prof. Bhim Singh, IIT Delhi
- National Seminar on Skill Development
 - Shri Veer Bhadra Singh, Hon'ble Minister, MSME
 - Shri Ashok Thakur, Secretary, Ministry of HRD
 - Prof. Ved Prakash, Chairman, UGC
 - Prof. S S Mantha, Chairman AICTE
 - Shri Ashok Singh, National Vice President, INTUC
 - Shri U P Singh, Ex Secretary UP Govt.
- End to End Security and Privacy in DS & Cloud
 - Prof. Bharat Bhargava, Purdue University, Indiana

| Year | Workshops/Seminars/ Conferences |
|-------------|--|
| 2012 | <p>National Seminar on Entrepreneurship “National Seminar on Role of Technocrats in achieving Skill development Mission”.</p> <p>Chief Guest Shri Virbhadra Singh, Minister MSME</p> |
| 2013 | <p>National Seminar on Need of Entrepreneurial Revolution in Emerging Technologies in the current Global scenario</p> <p>Innovation is the Buzz word of the decade, lets unfold the truth</p> <p style="text-align: center;">Intellectual Property Rights (Protect your innovation)</p> <p>The Entrepreneur – Lets know about your potential to be Entrepreneur</p> |
| 2014 | <p>Social Media Boot Camp for students and startups</p> <p>IDEATHON -2014 – Inter College Business Idea Presentation Challenge. 80 participants, 35 Business ideas and 3 Winners.</p> <p>Microsoft innovation Competition – facilitated students for a global innovation competitions</p> <p style="text-align: center;">Inter-college Contest & Symposium ENZINIUS in association with SAEINDIA</p> |
| 2015 | <p>International Conference and Technology Exhibition in sync with MAKE IN INDIA on cutting Edge Technological Challenges and student developed product exhibition</p> <p>National Seminar on CLOUD COMPUTING. This event was designed to provide an insight on technology trends and business opportunity for startups in cloud computing.</p> <p>All India Business Plan Competition to be conducted in August 2015</p> |

| | |
|------|---|
| | One week short-term training program (STTP) sponsored by ISTE on Modeling & Simulation of mechanical systems on 6th June to 10th June 2016 |
| 2016 | <p>NIET Technology Business Incubator through its student E-Cell of NIET Greater Noida had organized one day “IDEATION CAMP” on 23rd April, 2016</p> <p>One day technical workshop on internet of things in collaboration with PTC India on 10th June 2016</p> |
| | International conference on “Advances in Computational Techniques and Research Practices” on 3-4 Feb. 2017 |
| 2017 | <p>International conference on “Cutting Edge Technological Challenges in Mechanical Engineering” CETCME-2017 on 18-19 February 2017.</p> <p>The conference was sponsored by DST, Govt. of India.</p> |

TCS National Seminar on Cloud Computing (2015)



Seminar in Electronics & Communication Engineering Department (2016)



1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

NIET is affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. The University has a separate Board of Studies (BOS) for each discipline. Few senior faculty members from NIET are on the Board of Studies and have been trying to bring changes to the curriculum so that it can meet the expectations of industry in present scenario. Members from the Department of Civil Engineering, Computer Science, Mechanical Engineering, Electrical & Electronics Engineering, Chemistry, English and Bio-Technology as shown in table below are in BOS of AKTU, Lucknow. Regular feedback regarding the curriculum is obtained from alumni and teachers' regarding modernization of the syllabi and the University is informed about it, so that these can be incorporated in curriculum after proper deliberations. Specific feedback from different stake holders is generalized so that it can be incorporated in curriculum properly.

The Institute also sends feedback to the University through various forums like Director's Meet and VC's Meet etc. to maintain the integration between institution's goals and university's

curriculum. Additionally, the university invites suggestions from time to time for improvement of the courses being offered and the institute's faculty members send their suggestion through the Director to the University. The Board of Studies tries to incorporate such changes in curricula accordingly, after discussion among members during the meetings.

| S. No. | Name of The Faculty Member | Member of BOS Or RDC | Name of the University | Year |
|--------|----------------------------|---|------------------------------|-------------|
| 1 | Dr. Ravi Kant Singh | BOS, Biotechnology | UPTU, Lucknow; AKTU, Lucknow | 2013 & 2015 |
| 2 | Dr. Chandra Shekar Yadav | BOS: CSE | UPTU, Lucknow | 2013 & 2014 |
| 3 | Dr M P Jakhanwal | RDC: Civil Engineering | UPTU, Lucknow | 2012 |
| 4 | Dr. Ajay Kumar | BOS: Mechanical Engine | AKTU, Luckonw | 2015 |
| 5 | Dr. S. Gairola | BOS: Electrical & Electronics Engineering | AKTU, Luckonw | 2015 |
| 6 | Dr. K. P. Singh | BOS: Chemistry | AKTU, Luckonw | 2015 |
| 7 | Dr. Ghazala Naaz | BOS: English | AKTU, Luckonw | 2015 |

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If ‘yes’, give details on the process (‘Needs Assessment’, design, development and planning) and the courses for which the curriculum has been developed.

‘No’ The institute doesn’t develop curriculum for any particular course but keeping in view of the industrial needs the institute develop curriculum for personality development and cutting edge technologies.

1.1.8 How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?

- The Institute analyses and ensures that the stated objectives of the curriculum have been achieved through departmental meetings. The effective implementation of the curriculum is routinely analysed and necessary measures are taken in that regard.
- The Institute ensures the implementation of curriculum content by giving minor and major projects to the students and the feedback is taken from the external experts for further improvement.

- As per the syllabus prescribed by the university, the Institute organizes tutorial classes and quizzes. Assignments are given to the students to ensure the better understanding of the topic.
- The Institute conducts three class tests per semester to analyze the students' understanding of curriculum. On the basis of their performance in the tests, the poor performing students are identified and special classes are arranged for their improvement.
- Feedback from various stakeholders is used to design different soft skill straining programmes and value added courses.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

To supplement the academic curriculum the Institution runs a **Pyramid Finishing School (PFS)**, which was setup in 2008 to inculcate employability skills into students and cater to the specific requirements of the industry. Students are trained on various technologies as per the industry demands or market trend. **The programs under PFS is completely sponsored by the Institute.**

Goal of Pyramid Finishing School

The goal behind establishing Pyramid Finishing School is to bridge the gap between industry and academia by imparting required skills for employability of the students. The students are trained in a variety of skills and then assessed before showcasing them to the industry for final placement under the banner of Career Management Cell.

Objectives of the Pyramid Finishing School

To nurture the hidden talent of the students, so that they can compete in the world of industry through the skills and knowledge imparted to them under PFS. Whether it is about the life skills or technical aspects, the objective is to create well developed and groomed mind frame for their professional life ahead of their class room studies.

Statistics reveals that one requires 40% technical skills and 60% social etiquette, business etiquette and communication and networking skills to make advancement in one's career and personal life. PFS is a place where students are trained according to the industry requirements giving individual students a 360 degree improvement, not only in the areas like soft skills, life skills, technical skills and etiquettes but also in the area of time management, team-work and project management.

The initiation of this process in the early semesters of their core programmes results in a good amalgamation training and study of core curricula. Students are first assessed on their various skills and particular trainings are organized under PFS for bridging the gap that exists between students and the industry. Once the training and workshops are over, students are given opportunities to appear for the recruitment drives.

The concept has resulted in a steep increase in the employability of students. NIET has an excellent track record of frequent placement visits by the country's top notch employers resulting in the exponential growth in placement numbers over the years. India's leading MNC, Tata Consultancy Services has acknowledged the efforts made by the Pyramid Finishing School and it has suggested other institutes also to replicate the model.

What does PFS do?

PFS trains students on five dimensions, for their all-round development.

1. **Image Edge:** Projecting professional image, positive attitude, building a foundation for success and enhancing communication
2. **Techie Edge:** Tie-ups with Microsoft, Oracle, KPMG, ICICI Direct, etc.
3. **Sharpen Skills Edge:** Emotional intelligence, stress management, inspiring others & being a team leader, facing an interview
4. **Corporate Edge:** Business etiquette, board room etiquette & business body language.
5. **Fork Edge:** Dining etiquette/table manners & business/social etiquette

Industry Tie-ups

NIET has made tie-ups with MNCs like Microsoft, KPMG, ICICI Direct and Prometric/Pearson to enhance student employability.

- **NIET has become Microsoft Ed-vantage PLATINUM Partner and has established Microsoft Innovation Center** which is the first of its kind in the entire North India. The primary focus of the programme is to make students more employable and equip them with skills relevant to industry needs. This program has created 250 internships and 100 placement opportunities for the students of NIET in a year.
- **iOS Developer Apple University Program** is in collaboration with Apple Inc., California. As an iOS Developer University Program member, we have access to the GM version of Xcode, which includes the Xcode IDE, Instruments, iOS Simulator, and the iOS SDK. Students can participate in the forums to develop their own Apps, test them on iPad, iPhone and iPod touch and can publish on the Apple platform worldwide.
- **Cisco Network Academy** is an innovative education initiative that delivers information and communication technology skills and provides a wide range of career opportunities in the field of Internetworking to engineering students. Cisco Certified Network Associate (CCNA) is the prime course offered under this academy to NIETians.
- **KPMG** provides Six-Sigma Certification Course to the Management student which gets them jobs not only in KPMG but with its clients as well.
- **ICICI Direct Center for Financial Learning** provides Management students expertise in Capital Markets.
- **Amazon Web Services Educate** is Amazon's global grant based initiative to give NIET students hands-on experience with AWS technology & Cloud training resources.

- **PTC Academy:** A Centre of Competence has been developed for skill development, thus becoming the first ever college in the northern region to provide the Manufacturing giants with the fully skilled, trained & retainable manpower.
- **Pearson/Thomson Prometric Test Center:** The Institute is providing students a platform to take various certification examinations at a subsidized cost. Tests are conducted in a specially-equipped computer lab with video recording facility.
- **EMC²:** NIET has association with EMC's Academic Alliance program, on cloud computing. The global program is geared towards arming students with the knowledge necessary to differentiate themselves in the job market and improve their competitive advantage.

Inauguration of Microsoft Innovation Center



1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If ‘yes’, give details.

‘NO’

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- Range of Core/Elective options offered by the University and those opted by the college
- Choice Based Credit System and range of subject options
- Courses offered in modular form
- Credit transfer and accumulation facility
- Lateral and vertical mobility within and across programmes and courses
- Enrichment courses

The students are offered a number of elective options to gain improved potential for employability. Various electives of a programme are floated indifferent years by the respective departments as per the curriculum provided by the University.

The Choice Based Credit system is implemented in the Institute as per the guidelines of the University. A credit value is allotted to each subject.

Value aided courses are offered to students during summer vacations to help them get better placements.

1.2.4 Does the institution offer self-financed programmes? If ‘yes’, list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

As per the terminology of AICTE/AKTU, NIET is a self-financed institute. All the programmes run by the Institute are self-financed programmes. The fee for all the courses is fixed by Fee Fixation Committee set up by the Government of Uttar Pradesh.

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.

‘Yes’. The Institute provides additional skill oriented programmes as per market needs. For the same, lots of facilities are developed in the Institute.

State-of-the-art Engineering Labs and Training Programmes

Apart from the regular academic labs, NIET has recently established 8 state-of-the-art engineering laboratories for teaching & training of the students. The whole idea is to bridge the gap between academia and corporate by giving real-time technical exposure to students. These engineering laboratories are as follows:

1. Internet of Things (IOT) using Raspberry Pi
2. Cloud Computing
3. Big Data & Analytics
4. Applied Robotic & Control Lab (ARC)
5. Product Design and 3D printing
6. Mobile Applications Development on Android Platform
7. Embedded & VLSI design Lab
8. PTC Lab

The labs have also been established for all the courses mentioned above to give real-time exposure to the students and strengthen train and hire model.

The below table list some of the training program:

| S.NO | TRAINING PROGRAM | NO. OF BENEFICIARIES |
|------|--|----------------------|
| 1 | Big Data & Internet Of Things(Advance) | 34 |
| 2 | Cloud Computing(Advance) | 106 |
| 3 | Embedded & VLSI Design(Advance) | 96 |
| 4 | Apple iOS(Advance) | 84 |
| 5 | PTC(Advance) | 87 |
| 6 | 3D Printing | 175 |
| 7 | Angular JS/Node JS | 75 |
| 8 | Big Data & Internet Of Things (Basic) | 246 |
| 9 | Clinical Research & SAS | 72 |
| 10 | Digital Marketing | 77 |
| 11 | Plant Simulation | 50 |
| 12 | Robotics | 46 |
| 13 | Unix | 19 |
| 14 | VLSI & Embedded System | 109 |
| 15 | Web Development | 44 |
| 16 | Java | 72 |
| 17 | Oracle | 78 |

| | | |
|----|--|----|
| 18 | Infrastructure Management System (IMS) | 41 |
| 19 | C Programming | 50 |
| 20 | Cisco Certified Network Associate (CCNA) | 94 |

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice? If 'yes', how does the institution take advantage of such provision for the benefit of students?

'NO'

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

The Institute has a mission to impart its students high quality education, develop their skills, broaden their mental horizon and nurture them into competent and talented professionals to meet the challenges of the new millennium. It has a quality policy to develop highly skilled human resources.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

To fulfill the gap between the available curriculum and industry demands the Institute has developed various labs in collaboration with industries. The topics which are not covered in the University syllabi are covered through extra classes. Also, a separate period is scheduled for discussion about recent trends and techniques.

The students are encouraged to join the professional organizations like

- Computer Society of India (CSI)
- Indian Society for Technical Education (ISTE)
- Society for Automotive Engineering (SAE)
- Institute of Engineers (IE)

ICT based lectures and NPTEL are organized to benefit the students. In addition, techfest, project exhibition, industrial visits, technical quizzes, conferences, seminars, workshops, etc. are regularly organized.

Further, a regular corporate interaction weaves the threads to supplement the curriculum. This enhances the experience of students to cope up with the needs of the dynamic employment market.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

NIET has a good number of female students in every class. The Institute provides special care to female students, a secure separate hostel has been provided within the campus to ensure safety of the female students. The Institute has a Women Grievance and Redressal Cell to ensure the safety of female students and employees, and also subdue their problems. Self defense trainings are provided to female students and faculty members in collaboration with Aseem Nari Shakti.

The environmental education is catered in a detailed manner right from the first semester. They also form a part of curricula for different departments. Climate change is a part of environmental education and the topics like Green House Effect, Global Warming, Pollution, etc. are taught in great detail.

Though a course on Human Rights is not a part of engineering education, seminars and workshops are organized at regular interval to create awareness among student. Additionally “Human Values and Professional Ethics” is taught as a compulsory subject to all the students.

ICT (Information and Communication Technology) is often used as an extended synonym for Information Technology (IT). The students are made well versed with IT tools through regular labs. The students are taught cyber security as a compulsory subject.

1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?

- **Moral and ethical values**
- **Employable and life skills**
- **Better career options**
- **Community orientation**

The Institute runs many value-added courses/ enrichment programs round the year for holistic development. Some of them are as follows

- **Moral and ethical values**

- Students are trained on moral and ethical values under the Image-Edge, Corporate Edge and Fork-Edge program modules under Pyramid Finishing School at NIET.
- Daily in the morning & evening, prayers are organized in the ground with the holy music & rhythms to make students morally and ethically strong.
- Corporate Social Responsibility Programs such as TCS Fit4Run – For health awareness, Girls Self-Defense Training, Blood Donation Programs have been organized to fill the moral and ethical responsibilities towards the society.
- Workshops and seminars are organized at departmental level.
- **Employable and life skills**
 - Full-fledged Career Management Cell and Pyramid Finishing School are in function for preparing and deploying students in the industry.
 - Association with Microsoft, PTC, EMC², Apple, CARDEA LABS, Cisco, APS GmbH, KPMG, ICICI Direct, etc have been done for better employment opportunities.
 - Counselors guide students to opt for the right career. Mentors /departmental faculty members also assist students in shaping their career.
 - Motivational talks in association with the industry are organized.
- **Better career options**
 - Students are given all the updated information through information bulletin, notice boards, e-mails, telephonic calls about the current and latest career options in government, non-government, private and small scale industries.
 - College has tie-ups with various Training & Assessment organizations such as IOTA Cell, Alanze, Monkfox, Aspiring Minds, Cocubes.com, Monster.com, FirstNaukri.com, etc.
 - Eight special course curricula have been designed with state-of-the-art laboratories for the real time exposure to the students. This initiative has been taken to open the horizon of better career options for students.
- **Community orientation**
 - Students' Club: Students have various clubs to organise community-oriented programmes. Various clubs which are currently operated are as follows:
 1. Art & Paint Society
 2. Spic Macay
 3. Theatre Society
 4. Sports Society
 5. Green Gold Society
 6. Editorial Club

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

The curriculum laid out by the University is a sort of general enumeration of course content and a lot of areas can be covered in it if the time permits. NIET collects feedback from time to time from its stakeholders like students, teachers, industries, alumni and parents to enrich the curriculum. The feedback is usually incorporated in the teaching programmes at department levels and such additions are usually given to the students as part of value addition programmes.

For example the students of MCA with BCA qualification reported that they have already studied some of the subjects during their graduation and it would be more beneficial if they would be exempted from those papers and also the course duration should be two years. The suggestion was conveyed to the university and the same was finally incorporated in the course as MCA Lateral entry - a two year programme.

NIET is practicing online feedback system through ERP since academic session 2015-2016 so that the suggestions given by any of its stakeholders could be effectively implemented for enriching the curriculum.

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

The evaluation of the quality of its enrichment programme is done through the students examination (multiple choice questions) and quizzes. Online testing programmes have also been designed keeping in mind the need of the industry.

The Institute monitors and evaluates the quality of its enrichment programmes by getting feedback during and at the end of the programme. If needed, corrective measures are taken and finally the outcome of the programme is assessed by comparing the outcomes of the reputed institutions.

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The University has a separate Board of Studies for each separate discipline. The Board of Studies is headed by professors and senior faculty members. Senior staff members from NIET are the members of Board of Studies and have been trying to bring changes to the curriculum so that it can meet the expectations of industry in the present scenario. Members from the Department of Civil Engineering, Computer Science and Bio-Technology are in BOS.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If ‘yes’, how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

For the optimum use of the curriculum and thereby benefitting the students the most, the Institute’s authority takes feedback from HODs, Deans and the students of different branches. Though the Institute is not authorized to change the University syllabi, we have a policy to discuss all the emerging topics in different fields by organizing workshops, guest lectures, seminars and conferences.

The Institute communicates all the information to the University through college login provided by the University on its website.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

Keeping in mind the need of industry, NIET introduced the following courses in the last four years:

| S. No. | Name of the programmes/courses | Year of introduction |
|--------|--------------------------------|----------------------|
| 1 | B.Tech. (Bio-Technology) | 2012 |
| 2 | M. Tech. (Power Electronics) | 2012 |

Any other relevant information regarding curricular aspects which the college would like to include.

‘NO’

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

Since its inception in the year 2001, NIET has earned a name for itself. More than 6000 students who are on campus and 10000+ alumni who are the brand ambassadors of NIET ensure publicity. The Institute also ensures its publicity during admission process through print and digital media. Print Media includes information brochure, advertisement in daily news paper, magazines, hoardings, bill boards and coffee table books. Digital Media includes advertisement on educational websites, major e-portals and search engines. Further, the satisfaction of all the stakeholders also plays an important role in the publicity of the Institute.

The bulk of admission in the Institute i.e. 85% is controlled by the university by conducting Uttar Pradesh State Entrance Examination (UPSEE). The students take admission through a centralized counseling based on their merit in UPSEE. The admission in the Institute for the remaining 15 % seats is ensured through Management Quota based on their merits as well as their performance in test conducted by NIET. As the maximum seats are filled through counseling the Institute maintains transparency by abiding by the rules of the University. For the vacant seats the admission process has been made very transparent by advertising it on the website of the Institute (www.niet.co.in) and leading newspapers.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission to B. Tech./MBA/MCA

Admission process is already explained in the point 2.1.1. The Institute follows the guidelines available in the Information Brochure of UPSEE-2016. (www.upsee.nic.in).

Admission to M. Tech.:

Admission to M. Tech is ensured through entrance examination conducted by Dr. APJ Abdul Kalam Technical University, Lucknow and the scores of GATE are also considered.

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

The comparison of admission in different programmes and among different colleges can be made on the basis of Maximum and Minimum UPSEE rank secured by the admitted students in different programme of this Institute and other colleges. The quality of students admitted through

Management Quota and on the vacant seats is justified on the basis of their marks secured in the 12th class in the respective boards.

QUALITY OF INTAKE
MAX/ MINRANKOFCOUNSELLINGOF UPSEE QUALIFIERS: B.TECH 2016

| Course/ Branch | NIET | | Dronacharya | | IIMT | | United | | IILM | |
|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | Opening Rank | Closing Rank |
| B. Tech (Civil) | 22178 | 91270 | 38959 | 38959 | NA | NA | 52874 | 93140 | 37150 | 37150 |
| B. Tech (CSE) | 6580 | 20977 | 34652 | 118101 | 10055 | 89589 | 13307 | 53830 | 54541 | 107344 |
| B. Tech (IT) | 23088 | 47378 | NA | NA | 104269 | 104269 | 14701 | 14701 | NA | NA |
| B. Tech (EN) | 23203 | 126400 | NA | NA | NA | NA | 21152 | 126169 | NA | NA |
| B. Tech (ECE) | 23751 | 93646 | 104381 | 104381 | 34135 | 112569 | 39886 | 115488 | NA | NA |
| B. Tech (ME) | 18475 | 60427 | 38834 | 66844 | 91226 | 91226 | 28452 | 105703 | 69266 | 127763 |
| B. Tech (Chemical) | 30752 | 121739 | NA |
| B. Tech (Bio-Tech) | 225 | 1027 | NA | NA | NA | NA | NA | NA | 603 | 3051 |
| MBA | 989 | 7441 | 2320 | 2320 | 3934 | 5516 | 4682 | 4682 | 3032 | 4948 |

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

‘Yes’. NIET evaluates its admission process annually to review students’ potential in the University semester examinations as per the given mechanism:

- Department Review Committee headed by HOD for analysis of student’s University result.
- College Review Committee headed by Director takes feedback from individual Department Review Committee and set the trend for admission process after taking due approvals from Management.
- The Outcome of the complete process has resulted into a transparent quality system which has tremendously affected the quality of intake from past two years on a positive note.

2.1.5 Reflecting on the strategies adopted to increase/ improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/ reflect the National commitment to diversity and inclusion

1. SC/ST
2. OBC
3. Women
4. Differently abled
5. Economically weaker sections
6. Minority community
7. Any other

The admission policy of the Institute regarding the categories mentioned above is governed by the policies and the guidelines of Dr. APJ Abdul Kalam Technical University, Lucknow and Uttar Pradesh state government (Refer to the points 2.1.1 and 2.1.2 and the Information Brochure UPSEE, UPTU, 2016 criterion/point 9 URL

https://upseeuptu2015.in/uptu_exam/pdf/Brochure_UPSEE_2015_New.pdf.

The last two years admissions have shown remarkable improvement in Quality of intake across the board. Today NIET, Greater Noida is known for transparent admission process duly acknowledged and appreciated by the education fraternity.

Apart from the guidelines the college management encourages admissions of weaker sections of society and girls students under Management Quota to uplift those facing challenges of the new millennium.

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

| Programme Level | Name of the Programme | 2015-16 | | 2014-2015 | | 2013-2014 | | 2012-2013 | |
|---------------------------|-----------------------|-------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|-------------------|--------------------------|
| | | Sanctioned intake | No. of students admitted |
| Under- Graduate B.Tech | CS – 1st Shift | 180 | 180+9* | 180 | 180+5* | 180 | 180+8* | 180 | 180+9* |
| | CS – 2nd Shift | 60 | 60+3* | 60 | 60+2* | 60 | 53 | 60 | 60+3* |
| | EC – 1st Shift | 180 | 117+9* | 180 | 119 | 180 | 180 | 180 | 180+9* |
| | EC – 2nd Shift | 60 | 43+3* | 60 | 43 | 60 | 17 | 60 | 60+3 |
| | IT | 120 | 115+6* | 120 | 119 | 120 | 79 | 120 | 119+6* |
| | ME – 1st Shift | 180 | 155+9* | 180 | 180+7* | 180 | 180+8* | 180 | 180+9* |
| | ME – 2nd Shift | 60 | 57+3* | 60 | 60+3* | 60 | 60+3* | 60 | 60+3* |
| | EN – 1st Shift | 180 | 122+9* | 180 | 111 | 180 | 132 | 180 | 180+7* |
| | EN – 2nd Shift | 60 | 42+3* | 60 | 20 | 60 | 8 | 60 | 60+1* |
| | CE | 180 | 180+9* | 180 | 179 | 180 | 180+9* | 180 | 180+6* |
| Post-Graduate (M.Tech) | CH | 60 | 37+3* | 60 | 29 | 60 | 15 | 60 | 36 |
| | BT | 60 | 47 | 60 | 47 | 60 | 31 | 60 | 36 |
| | Software Eng. | 18 | 0 | 18 | 2 | 18 | 2 | 18 | 15 |
| | CSE | 24 | 8 | 24 | 8 | 24 | 23 | 24 | 24 |
| | VLSI | 18 | 4 | 18 | 2 | 18 | 5 | 18 | 18 |

| | | | | | | | | | |
|---------------|----------------------|-----|-----|-----|----|-----|-----|-----|-----|
| | Tel. Comm. Eng. | 18 | 3 | 18 | 4 | 18 | 1 | 18 | 15 |
| | CAD | 18 | 0 | 18 | 3 | 18 | 3 | 18 | 1 |
| | Power Electronics | 18 | 0 | 18 | 4 | 18 | 5 | 18 | 11 |
| | ME | 24 | 3 | 24 | 9 | 24 | 5 | 24 | 11 |
| Post-Graduate | MBA | 180 | 123 | 180 | 76 | 180 | 137 | 180 | 172 |
| | MCA | 60 | 16 | 60 | 21 | 60 | 49 | 60 | 43 |

* FW Category (5% Extra Seats in B.Tech Programme)

The Following are the trends observed and reasons for it:

- Computer Science Engineering & IT branches outlook was positive, due to huge job opportunities in the country. 100% seats were filled during last couple of years. The Institute established cutting-edge technologies lab to satisfy the growing needs of the industry.
- Electronics & Communication Engineering branch was neutral as student prefer entering into digital space through this branch. Approx 95% above seats were filled. Labs like IOT, VLSI & Embedded technology are established keeping in mind the changes happening in the branch.
- EN, ME, CH and MBA branches saw a significant decline due to less job opportunities and Infrastructure & Manufacturing sector & having negative growth in the industry. As all four branches shown decline in admission Director (P&P) had set-up a team to identify areas of improvement so corrective measures can be taken.
- In MCA, the course duration was reduced to two years for BCA candidates by introducing lateral entry to second year due to which a decline is observed in the first year admission.
- In Biotechnology, the admissions are improved this time because the students of Bio and Maths groups are also eligible to take admission in these branches and again these courses are in demand.
- In PG courses, a decline in the admission has been observed due to some frequent changes in the admission policy of the University. Although, the Institute has policy to attract the PG students and there is a provision for scholarship for eligible students.

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently abled students and ensure adherence to government policies in this regard?

NIET deems itself to be fit to cater the needs of differently abled students by adhering to the guidelines of AICTE and Dr. APJ Abdul Kalam Technical University, Lucknow. University gives a weightage of marks to differently abled students for admission. Under the management quota the same rule is followed. In conformity with the government policies we consider persons with disabilities as valuable human resource. For facilitating differently abled students short ramps with assistive devices have been provided. Lifts have been installed in all the blocks of the Institute and such students can easily manoeuvre themselves independently wherever his/her theory and practical classes are being held. The Institute administration and the students take special care of such students. The Career Management Cell also takes care of such students and helps them get placed in suitable & appropriate corporate houses.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

'Yes'. The Institute does assessment in two stages before commencement of classes as given below:

- During admission process all Management Quota admits undergoes an online aptitude test, English test followed by personal interview.
- The Institute distributes assignment based on the fundamental questions of Mathematics, Physics, Chemistry and English to the admitted students on the admission day and asks them to submit assignment on the first day of the session. The faculty members evaluate these assignments and find out the student's weak areas. The college administration prepares a list subject wise of these students in which they are weak and arrange classes for them under WSDP. In this way the students will be able to cope up with their weak areas with the help of experienced teachers. In addition to this, the Institute also organizes orientation classes for newly admitted students on the fundamental subjects at Khan Academy which is a lab established under MOOCs (Massive Open Online Courses).

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/ Remedial/ Add-on/ Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

The Institute has WSDP (Weak Student Development Program) which is based on feedback through Assignments, Sessional Marks and overall conduct of the student, weak students are identified for which Institute arrange special classes focused on specific subject matter, also conducts aptitude and life skill sessions for impactful & effective bridging of the knowledge gap.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

Programmes on Gender Inclusions are conducted and monitored by Women Grievance Redressal Cell (WGRC) giving insights to all students regarding gender equality and also exposing them towards protection laws of the Indian penal court. Under this initiative Institute also distributed Tejaswini Awareness book to all students published by the District Authorities.

Time to time sensitization programmes on environmental issues are conducted by Dean-Student Welfare, which includes, Tree plantation, Save water campaign, Save electricity campaign & related issues. The institute has also take-up a leadership program for alignment and performance in changing scenario with GALLUP India.

2.2.5 How does the institution identify and respond to special educational/ learning needs of advanced learners?

A decade ago, Management at NIET established Pyramid Finishing School with a vision to create an effective bridge addressing the GAP between Academia and Industry. Under which all students are assessed by Aspiring Minds, Cocubes, Merittrac and students undergo advanced training programmes through industry experts, based on assessment feedbacks.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The Institute conducts several tests and the marks of these tests and other pieces of information like attendance, etc are entered and stored into the database through ERP. On the basis of these records, the guardians of the students are continuously informed about the progress of their wards. The students are also given counseling by mentors so that they do not feel frustrated or dropout from the courses. The slow learners are given extra classes in the evening hours and are continuously encouraged to keep working hard. The physically challenged students are provided with all modern assistive devices so that they could manage themselves to reach their classes and labs. There is no disparity between the rich and the poor. The economically weak students get all the benefits equally from the Institute and are provided financial support from government as per the University guidelines. The governing body of the institute helps economically deprived students by waiving their fee and providing free hostel facility.

The Institute also schedule life skills classes to motivate students to perform better, the initiative come under TSDP (Total Student Development Program).

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

Before the commencement of the classes, the teachers are asked to prepare lecture plan where in the detailed syllabus is divided into various topics as per the total lectures likely to be available in the semester. They also prepare their lecture notes as well as PPTs to be useful in teaching-learning process.

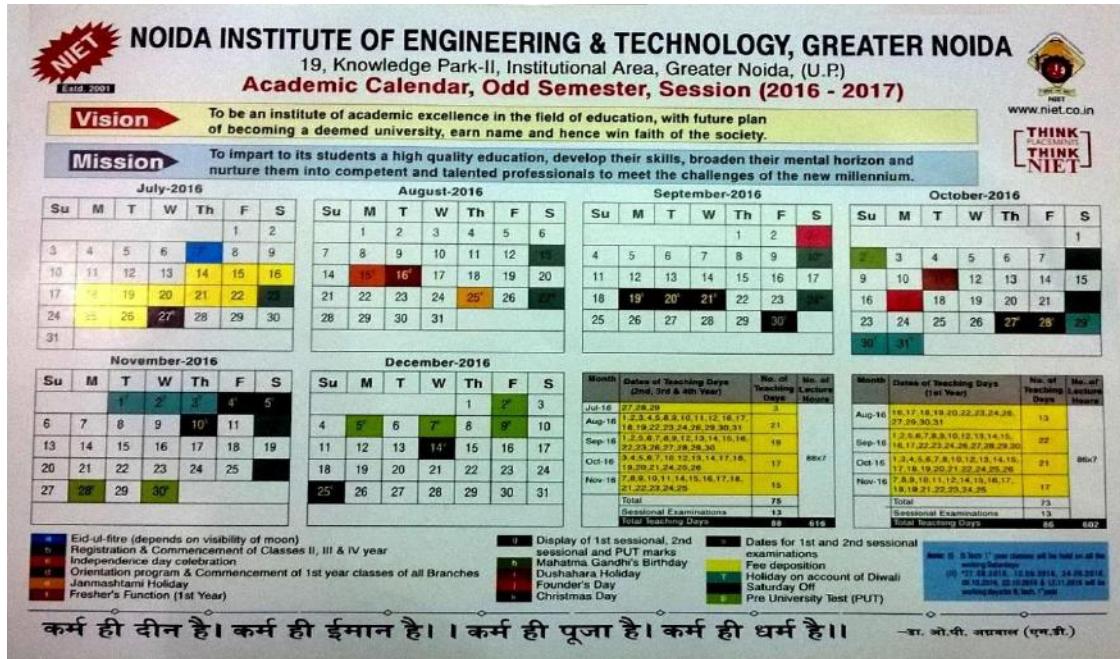
Director and Deans prepare the academic calendar, which is discussed in the meeting of academic committee of the Institute and valid suggestion, if any, is incorporated. The schedules

Self-Study Report
Noida Institute of Engineering & Technology

of session tests are fixed in the academic calendar along with the marks allotted for the sessional tests.

Also refer to the point 1.1.2.

(*Academic calendar for the year 2016-17 along with model teaching plan is attached herewith)

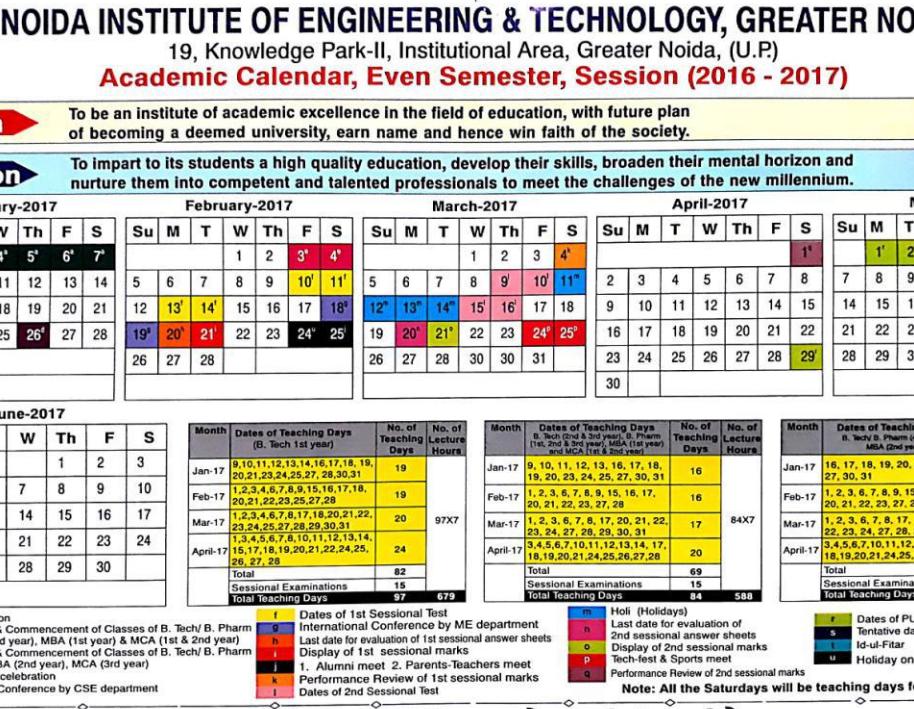




NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY, GREATER NOIDA
19, Knowledge Park-II, Institutional Area, Greater Noida, (U.P.)
Academic Calendar, Even Semester, Session (2016 - 2017)

Vision
To be an institute of academic excellence in the field of education, with future plan of becoming a deemed university, earn name and hence win faith of the society.

Mission
To impart to its students a high quality education, develop their skills, broaden their mental horizon and nurture them into competent and talented professionals to meet the challenges of the new millennium.



The calendar shows the academic schedule from January to June 2017. It includes dates for teaching days, sessions, and various events like exams and conferences. A legend at the bottom explains symbols for winter vacation, registration, international conferences, etc.

2.3.2 How does IQAC contribute to improve the teaching-learning process?

Since quality enhancement is a continuous process, IQAC (Internal Quality Assurance Cell) becomes a part of the institution's system and works towards realization of the goals of quality enhancement and sustenance. The Institute has the following quality policy:

“Our quality policy is to develop highly skilled human resources with the ability to adapt to an intellectually and technologically changing environment with the participation efforts of the management, faculty members, students and parents.”

Institute also has three Quality Programmes to improve overall Quality standards of all the stakeholders. These programmes are given below:

- CWQIP – Campus Wide Quality Improvement Program
- TSDP – Total Student Development Program
- WSDP – Weak Student Development Program

Institute is also awarded “A Great Place to Study” by Skill Tree consortium at House of Common, London (UK).

The teaching-learning process is the basic parameter for this institution and IQAC ensures quality enhancement in the process. During the post-accreditation period, the IQAC channelizes

all efforts and measures of the institution towards promoting its academic excellence. ISO 9001:2015 is enforced in the institute.

The major Outcome of the above mentioned process is NIET, Greater Noida Awarded with “**National Employability Award**” from past 3 years by Aspiring Minds.

2.3.3 How learning is made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning.

Student-centric learning is implemented through focus on skills and practices that enable students for lifelong learning and independent problem solving. NIET puts students' interest first.

In order to implement a system where teacher acts as a facilitator, the student-teacher ratio has been kept as per the norm. Tutorials have been introduced with class strength of 30 students. The students are encouraged to play active role. Students are encouraged to come prepared to classroom to discuss their problems with fellow students and the teachers. The students-centric learning in the Institute is in its earlier stage and can become practical only after some time. The students are made to participate in a group in the activities like seminar, presentation (both individual and group), and industrial visits so as to develop their collaborative learning. The mentor-mentee programme is practiced to nurture a close relationship between faculty members and students. Institute focuses on shift from Pedagogy to Andragogy in which lots of FDP & SDP are organized for effective transformation.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

The Institute continuously supports students through different programmes, events and e-tutorials under TSDP (Total Student Development Program) to strengthen their skillful analyzing and assessing attributes contributing to critical thinking. It also conducts life skill sessions for making them venerated probing, observing, physical reality & communicating contributing to scientific temper (a way of life). The few programmes/ instructions are given below:

- The students are given projects on real life applications
- The students are taught topics which are beyond curriculum to inculcate scientific and technical temper
- Students are encouraged to go for summer training and internship
- Events on Robotics are organized by the Institute to nurture the technical, creative and scientific temper of the students
- The Incubation Center at the Institute plans to develop new entrepreneurs
- Guest lectures of eminent personalities from industry
- Various societies under student welfare
- Creative Design Cell organizes the competitions for motivating innovation
- Focus on Practical Based Learning and Project-Based Learning

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Technologies and facilities available and used by the faculty:

- Computers/ laptop with internet facility in all departments
- MOOC (Khan Academy, Udemy, edx.org)
- Use of OHP/ LCD projectors for animations and PowerPoint Presentation
- Access to e-journals apart from print journals
- Open educational resources through e-learning
- Foreign Language labs(Japanese and German)
- Smart class rooms
- Expert lectures
- Audio-visual aids in classrooms
- Video conferencing facility
- Faculty Training and Development Cell
- Well stocked library resources with standard books and NPTEL materials
- The institute is a part of National Mission on Education through Information and Communication Technology (NME-ICT) through virtual lab in collaboration with IIT, Delhi and NITTTR, Chandigarh.

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

Total Student Development Program (TSDP) is designed to address the advanced level of learning to students under few mentioned initiatives.

- **Hands on Training** - Learning through practice
- **Industrial Visits & Interaction** - Linkages with industries and interaction with successful role models
- **Innovation Labs** - 8 state-of-the-art engineering laboratories for providing real-time technical exposure to the students
- **Exposure to ICT Facilities** - Training programs in modern technologies through visiting faculty and researchers from premier educational institutes.
- **The Services of Experts** - Obtaining the services of experts from premier institutions
- **Specialized Training** - Students are provided specialized hands on training by Industrial Research Organizations, Non-Governmental Organization and Central Organizations
- **Seminars and Lectures** - Students and faculty attend Seminars, Workshops and Lectures organized by the respective departments related to their subject as well as inter disciplinary areas
- **MoUs** - MoUs with industries for training & research.

Faculty Development Programs are organised regularly to upgrade their skills professionally and life skill classes are conducted to keep them motivated for better productivity and positive outcomes. Faculty members are regularly exposed over Vision/Mission and Quality policy of the Institute for effective alignment.

2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling / mentoring / academic advise) provided to students?

The Institute hires professional student counselors who interact with each and every student to keep them motivated thus resulting in a ‘wholesome’ employable product, all set to face the world. NIET also provides guidance and support to its students by deputing class coordinators and two mentors (30 students each) for every section. These coordinators and mentors monitor the growth of the students. They counsel the students in need. The parents are also informed time to time about the progress of their wards. The students are also guided by the Director, Heads of the departments and various Deans.

The Institute has a Head, Consulting to provide counseling to the students regarding Indian Administrative Services (IAS) and other competitive exams.

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

The major emphasis is given to move from Pedagogy to Andragogy for better understanding of the topics taught by the faculty members. Few initiatives are mentioned below:

| S.No. | Teaching Approach | Impact |
|-------|--|---|
| 1 | Learning Space | Improvement in Results/ Understanding |
| 2 | Subject based quiz | Competitive Learning/ Appreciation from students |
| 3 | Open book test papers | Widens knowledge base and promotes reading |
| 4 | Weak Students Development Program (WSDP) | Additional classes for slow learners and weak students. |
| 5 | 3D labs | Deepens the level of understanding |
| 6 | Entrepreneurial Learning Methodology | Learning by doing |
| 7 | Industry tie-ups | Enhance student employability and encourage innovative learning |
| 8 | Digital Studio | The Institute had established a state of art Digital Studio to record stellar faculty members and making their video available on cloud space for easy and effective access |

2.3.9 How are library resources used to augment the teaching- learning process?

The central library of the Institute has ample books, journals, e-books, e-journals and magazines to facilitate the students. The library loans textbooks under TBL scheme for an entire semester. Besides TBL, every student can borrow 2 books on their library cards. The library is kept open throughout the week from 9 AM to 10 PM for the optimum use of the resources. Every faculty member can borrow 5 books at a time on their library cards. The reprographic facility is also available in the library. More conduct of seminar and paper presentations by the students encourages them to visit the library. Every year a book fair is organized in the Institute to accumulate more titles of different subjects in the library. These policies related to library are the effective ways to enhance the teaching-learning process. There is an exclusive study room available for students in the library complex.

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If ‘yes’, elaborate on the challenges encountered and the institutional approaches to overcome these.

“No.” The Institute has an exemplary work culture and hence the academics go smoothly. Most of the time, the Institute covers the curriculum in the given frame of time. But whenever there is difficulty in covering the curriculum, extra classes are conducted on Saturdays and special classes are also conducted between 5to7 pm.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

Monitoring of complete teaching learning process is the responsibility of the Heads of Departments and the Deans deputed for the same purpose under leadership of the Director. The marks obtained by the students in sessional tests are analysed. On the basis of marks scored, students are then categorised in different groups. The Institute takes a well structured feedback from students about teaching process and resources. Depending upon feedback, the quality of teaching can easily be assessed. Learning outcomes are, however, best decided by the analysis of session and end-semester results. The class attendance & marks are updated regularly on the ERP portal by the concern faculty member. This helps in monitoring the class conduction and status of subject completion.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

The Institute has Professors, Associate Professors and Assistant Professors as shown in the table below. The recruitment is open throughout the year to recruit qualified and competent faculty members. They are given extra perks and facilities for retention. The list of faculty members can be referred at article 20 of Section B.

2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes/modern areas (emerging areas) of study being

introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

Scarcity of qualified senior faculty members has always been a challenge not only in emerging fields but also in well established areas of study. This scarcity has arisen because of continuous increase in the number of teaching institutions. NIET tries to retain the senior faculty members by creating healthy environment, incentives and rewards. The faculty members are encouraged to participate in training programmes/FDPs, workshops, seminars, research and conferences in their respective areas. Eminent resource persons from the prestigious institutes and corporate sector are invited to deliver expert lectures on the latest trends and challenges of industry. Special/customised training programmes are also organized for the faculty members to make them up-to-date. The Institute regularly advertises the post for senior faculty members and interviews are organized twice a year to fill the scarcity if any.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

Faculty and staff members of various departments of the Institute participate in Staff/Faculty Development Programmes quite frequently. The Institute also encourages participation and active role of faculty and staff members in such programmes by giving various incentives and leaves, in order to enhance the teacher quality of the Institute.

a) Participation of faculty members in staff development programmes in the last four years:

| Academic Staff Development Programmes | Number of faculty participated |
|--|--------------------------------|
| Refresher courses | 35 |
| HRD programmes | 139 |
| Orientation programmes | 68 |
| Staff training conducted by the university | 17 |
| Staff training conducted by other institutions | 117 |
| Summer / winter schools, workshops, etc. | 225 |

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

- **Teaching learning methods/approaches**
 - Faculty members use various delivery methods to deliver the courses such as lecture through PowerPoint presentation, andragogical teaching and the use of e-resources like EDUSAT, NPTEL, etc. These methods are found to be very effective and self explanatory as expressed by students.
- **Handling new curriculum**
 - The Institute has experienced & qualified faculty members to handle the new curriculum effectively. Each time before the start of each semester, a format is circulated among the faculty members for the allocation of subjects. The faculty members have to fill the choice of various subjects desired to be taught by him/her based on experience and previous result of the subject. Finally the HoD allocates the subject in accordance with the area of specialization and previous performance of the faculty member.
- **Content/ knowledge management**
 - Faculty members are encouraged to attend the National & International seminars, workshops and FDPs. Faculty members are also encouraged to involve themselves in making the review of papers of various journals of national and international repute and also present papers in seminars.
- **Selection, development and use of enrichment materials**
 - The Institute organizes the technical and non-technical events such as entrepreneurship awareness camp, innovation meets, conferences, seminars, workshops, faculty development programmes (FDP) and summer & winter trainings.
- **Assessment**
 - The faculty members are encouraged to implement the new technologies learnt by them during FDPs through projects/research work. The outcome is assessed by the department project committee through publications in the journals.
- **Cross Cutting issues**
 - Equal opportunities are given to both male and female faculty members. No discrimination is made on the basis of sex, caste, creed, religion, region, language, etc.

- **Audio Visual Aids/multimedia**

- Our classrooms are equipped with LCD Projection Systems and whiteboard. These facilities surely enhance lecture delivery and effective communication. This procedure offers a pictorial & three-dimensional presentation for clear understanding of the concepts.

- **OER's**

- The faculty members and students are made aware of the availability of open educational resources (NPTEL lectures, online journals, virtual labs, etc.) and are encouraged to access and make use of them.

- **Teaching learning material development, selection and use**

- Faculty members are encouraged to prepare lecture notes (soft and hard copies) from various reference books, OERs and to make them available to students. The faculty members have free access to internet, which helps them to collect learning material. NIET also organizes seminars, conferences, guest lectures, etc., which help as learning sources for the faculty members.

c) Percentage of faculty

- Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies **2.05%**
- Participated in external Workshops / Seminars / Conferences recognized by national/ international professional bodies **37.1%**
- Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies **18.44%**

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

The Management is committed to professional development of the faculty members on continuous basis. The faculty members are encouraged to attend seminars/ national/international conferences/training programmes. Faculty members are also encouraged to visit the Industry and other agencies according to the requirement of the projects. NIET motivates its faculty members to pursue higher education for upgrading their qualifications, for instance, for pursuing Ph.D, there is a provision of adjustment of classes and study leave. Faculty members are given monetary rewards for their publication in SCI index journal. The Institute reimburses 50% of the membership fee of the professional bodies for the faculty members. Every year one faculty member from a department is selected for a paid tour package by the Institute.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/ achievement of the faculty.

| S.No. | No. of The Faculty Members | Awards | Organization | Year |
|-------|----------------------------|---|--|------------|
| 1 | Dr Ajay Kumar | Best Paper Award | Indian Foundry Association, Gandhinagar (Gujarat) | 2014 |
| | Ms Daizy Rajput | | | |
| | Dr Sudhir Kumar | | | |
| 2 | Prof S Gairola | Takniki Shikshak Samman (Guru Vandan) | Rashtriya Shakishk Maha Sangh | 01/10/2016 |
| 3 | Dr. Somesh Kumar | Takniki Shikshak Samman (Guru Vandan) | Rashtriya Shakishk Maha Sangh | 2016 |
| 4 | Dr. Satyendra Sharma | Honored Shikshak samman by Honorable Minister Mahesh Sharma | National Teachers association Uttar Pradesh at ITS Engg. College Gr. Noida | 01/10/2016 |
| 5 | Dr. C. S. Yadav | Honored Shikshak samman by Honorable Minister Mahesh Sharma | National Teachers association Uttar Pradesh at ITS Engg. College Gr. Noida | 2016 |
| 6 | Dr. Praveen Pachauri | Honored Shikshak samman by Honorable Minister Mahesh Sharma | National Teachers association Uttar Pradesh at ITS Engg. College Gr. Noida | 2016 |
| 7 | Mr. Dharamendra Yadav | Shikshak samman by Honorable Minister Mahesh Sharma | ITS Engg. College Gr. Noida | 2016 |

The above awards received by NIET faculty members became possible because of:

- Research outlook of the institute

- Encouragement for the publications
- Presence of innovative and technology oriented groups
- Availability of research infrastructure and facilities

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

Yes, the Institute has introduced an evaluation of teachers by the students and external peers. In each semester the feedback from the students and other stakeholders is collected regarding the subject taught by a faculty. These feedback forms are reviewed and analyzed by the Director and the HoD of respective department. Faculty members having positive feedback are acknowledged and the ones having poor feedback are counseled by the Director and the Head of Department for future improvement.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

- The students are made aware of the evaluation process during their orientation programme. The orientation programmes are also conducted for new faculty members to make them aware of the evaluation scheme provided by the affiliating university and the evaluation process to be followed during the semester. The evaluation includes the assessment of performance in the end-semester examination conducted by the university, sessional test examination, tutorials and attendance of the student in class.
- Regular meetings are conducted by the HOD to explain complete evaluation process to every faculty member.
- The students are informed about the evaluation process through evaluation scheme and solution of question paper.
- Faculty feedback is communicated to faculty members for further improvements.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

At the University level

- Announcement of tentative examination schedule by university for the end-semester examination on University website for seeking suggestions/ observations by the Institutes.
- Selection of possibly one question paper from multiple sets of question papers.

- Assurance of conduct of fair examination as per schedule.
- University earmarks Nodal Centers, Provision of Flying Squads, Centre Controllers and Centre Superintendents for smooth conduct of the university examination.
- Effectively following the central evaluation scheme.

At the Institute level

- Faculty members are advised and monitored to organise special quiz type and subjective type session examination papers for the improvement of results.
- To monitor the attendance of the students online and to inform the parents of the students so that they are also actively involved
- Maintenance of session marks records of students online through ERP
- To conduct improvement/Re-test for poor performing students after attending WSDP classes

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

Being an affiliated institute, NIET strictly follows the guidelines provided by the University. For the theory examination, the University conducts centralised evaluation and the institutions like us deploy their experienced faculty members to evaluate answer scripts as per the instructions of the Head Examiner appointed by the University. For the practical examination, the Institute assists the examiners appointed by the University.

Also, the Institute conducts three sessional tests and one internal practical examination. The faculty members evaluate the answer scripts and upload the marks on the University website as per the university norms.

To improve the attendance and track the performance of the students, the mentors call the parents and keep the record in Student Performance Report (SPR). The automated SMS are sent through ERP to the parents of concerned students if the attendance falls below 75%.

The departments maintain record of initiatives and reforms in Department Performance Report (DPR).

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

Formative Assessment:

The formative assessment is used to monitor students' learning in respect to their skill development and to provide feedback regarding faculty's lecture quality to improve their teaching and simultaneously to improve the learning of students. The following parameters are used for formative assessment:

- Assignments
- Class presentations
- Overall class and lab attendance
- Lab experiments
- Industrial visits
- Workshops/ Seminars
- Innovative projects
- Group discussions
- Viva Voce
- Participation of students in extracurricular and co-curricular activities for general proficiency

Summative Assessment

The objective of summative assessment is to evaluate learning developed by a student towards the end of semester. This process helps the students to gain confidence and to achieve good result. Finally, the University consolidates a summative evaluation (End-Semester Examination) at the end of each semester through the following:

- Written theory examination
- Practical examination
- Comprehensive viva voce
- Curriculum-based Project work

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.)

The significant improvements made over the last four years are as follows:

- **Improvement in internal assessment:**
 - Internal assessment of the students is done by respective subject teachers by giving them sessional test, home assignment, tutorials, etc. To maintain the quality of assessment, respective Head of the Department scrutinizes the assessment process and carries out the moderation wherever needed.
- **Transparency in internal assessment:**
 - After the evaluation of home assignments, class tests, projects, etc., the results are discussed by the faculty members in the class and displayed on notice board. The students are also individually counseled and monitored by faculty counselors. Feedback from the students is also taken for further improvement in the system.

- **Improvement in answers of the question papers:**
 - A sample solution is provided and discussed with the students for all those questions which were covered in sessional tests, tutorial sheets, assignments, etc.
- **Weightage in internal assessment:**
 - While evaluating marks assigned to internal assessment, the sincerity of work and timely submission of assignments are taken into consideration while awarding marks to the students by the teachers.

2.5.6 What are the graduate attributes specified by the college/ affiliating university? How does the college ensure the attainment of these by the students?

The graduate attributes have been articulated in both the vision and mission statements as “Future-ready professional” in specified areas. A future ready professional engineer/manager/pharmacists should possess sound technical/managerial skills, life skills and critical thinking skills. These may be separately expanded for undergraduate/postgraduate programmes. A graduate should have strong grounding in basic engineering (other fields), and expertise in core engineering and management with a widened outlook to solve the problems. The following are the 12 graduate attributes as suggested by the National Board of Accreditation (NBA) are taken into consideration in the institute.

- **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialisation for the solution of complex engineering problems.
- **Problem analysis:** Identify, formulate, research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities, with an understanding of the limitations.
- **The Engineer and Society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognise the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- The departments maintain the record of the performance of their students and devise the programs to fulfill the observed gaps.

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

The evaluation process comprises internal and external assessments of the students according to the evaluation scheme of the University. The comprehensive report card of a student is jointly made by both the Institute and the University.

NIET at its level has a very stringent and confidential evaluation process, which is done by the subject teachers. The student approaches the subject teacher in case they need any clarification on the allotted marks.

The University follows a proper mechanism for redressal of grievances of the students. After declaration of the results, the students having any grievances against their results can register their complaints through Registrar of the Institute to the University within a specific time limit. The university has a provision for scrutiny and challenge evaluation for students regarding their evaluation related grievances.

2.6 Student Performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

'Yes'. The Institute's academic orientation for imparting quality education is well defined in sync with course objectives. The students and staff are made aware of the objectives with the help of presentation, briefing, and discussion in meetings. Faculty and students are explained the learning outcomes for better implementation.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ programme? Provide an analysis of the students results/ achievements (Programme/ course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/ courses offered.

To monitor the progress of the students, institute conducts two sessional tests in each semester, Viva-voce is conducted in the laboratories, and students are compelled to maintain 75% class attendance to appear in the sessional tests as well as in the final examination. Weak students development program is run in the respective departments after identifying weak students on the basis of their performance in sessional tests. One faculty member is appointed as mentor for approx. 20-30 students to check their progress during the semester. All the strong points and weaknesses of the student during his/ her stay at the Institute are recorded in the student performance report (SPR). Further, the final progress can be rated on basis of his/her final result.

The details of last four years result are as under:

Programme/Course wise result analysis of last four years

| Branch | 2009-13 | 2010-14 | 2011-15 | 2012-16 |
|---------------|-----------------|-----------------|-----------------|----------------|
| CE | 95.38% | 98.39% | 96.83% | 98.21% |
| CH | 100% | 91.16% | 100% | 100% |
| CSE | 95.38% | 98.39% | 96.83% | 99.11% |
| EC | 98.13% | 99.9% | 99.03% | 97.2% |
| EN | 95.68% | 92.24% | 97.16% | 95.42% |
| IT | 100% | 97.27% | 95.65% | 95.28% |
| ME | 87.41% | 93.94% | 95.25% | 97.45% |
| BT | No batch passed | No batch passed | No batch passed | 100% |
| MBA | 96% | 94% | 99% | 99% |
| MCA | 91.66% | 88.33% | 88.37% | 72.91% |

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

Teaching Strategies:

- Faculty members maintain a course file in the beginning of semester which includes quality policy, program objective, syllabus, lesson plans, assignments, previous-year question papers and also hand written notes.
- Tutorial classes are conducted and assignments evaluated regularly
- Books recommended by faculty members are procured in the library and updated from time to time.
- HoDs make their rounds in classes to assess and monitor the teaching standards of faculty members and provide suggestions to them for improvement.
- FDP programmes are conducted in the Institute from time to time to enrich the knowledge of faculty members.
- The PFS (Pyramid Finishing School) in discussion with various training organization creates customized content required for aptitude & training of students for placement, department-wise.
- NIET Technology Business Incubator (TBI) organizes regular sessions to look after the entrepreneurial skills of the students which sync with E-Cell of Institute.
- Institute has ISTE, CSI and IEI student chapters along with institutional membership.

Learning strategies:

- The Institute identifies slow and fast learners. Hence, special WSDP classes are organized for the slow learners and advanced classes for the fast learners.
- Library and computer labs are kept open after the Institute hours, so that each student can fully utilize them.
- Mock interviews, group discussions and seminar presentations are regularly organized

Assessment Strategies:

- Regular surprise class test, sessional test, viva voce and end semester examination are conducted for students to assess their academic knowledge.
- To assess and resolve diverse requirements of the students, the Institute has a Grievance Redressal Cell.

- The Institute maintains Students' Progress Report to assess their academic performance
- The PFS (Pyramid Finishing School) assesses the capabilities of the students for placement prospects. The Institute organizes tech-fests to assess the performance of students in society's related activities like ISTE, CSI, SAE, etc.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among the students etc.) of the course offered?

- NIET has an in-house Pyramid Finishing School to provide training to the students according to the industry requirements, giving student a 360⁰ improvement not only in the areas like soft skills, life skills, technical skills and business etiquettes but also exposing students to time management, team work and project management.
- Career Management Cell (CMC) invites many reputed multi-national and core companies for placement of students. During academic session 2015-16 more than 850 placements have been achieved through campus placement drives.
- The Institute has developed Technology Business Incubator approved by MSME & Startup India, Government of India which initiates and monitors the entrepreneurship skills in the students.
- Alumni interactions are facilitated to provide insight into oncoming placement drives.
- The students are prepared for Microsoft Certified Professional courses on latest software technologies under Microsoft Innovation Center.
- The students are encouraged and trained for CISCO, Microsystems, Oracle, Microsoft and PTC Certification.
- The students are also exposed and trained over foreign languages like Japanese (with Japan Foundation) and German.
- The students are encouraged for various other certifications through Pearson & Prometric Centers.
- To promote research and innovation attitude, the Institute organizes short term training course on the latest tools and technologies in collaboration with industry. NIET has also established 8 innovation labs viz. Internet of Things (IoT), Embedded Technologies, Cloud Computing, Big Data Analytics, Clinical Research & Bio-informatics, 3-D Printing, iOS Apple, Mobile Applications Development on Android Platform, for the technological advancement of the students.
- The Institute has also taken initiative to start the certification courses in collaboration with Telecom Sector Skill Council (TSSC), National Skill Development Council (NSDC) Government of India and DDU-GKY.

2.6.5 How does the institution collect and analyse data on student performance and learning outcomes and use it for planning and overcoming barriers to learning?

The Institute keeps a close eye on performance of the students by maintaining a proper record of their attendance and sessional marks through ERP. The Data analysis Committee analyzes the data collected. The analyzed data including the programmes of each department is presented before the planning and evaluation committee at the end of every academic year for making corrective measures for the next academic year. The weak students are given proper attention and extra classes are held beyond working hours. The parents are informed regularly about the performance of their wards.

The Academic Audit Team reviews the reports of the Data Analysis Committee and conveys the same with valuable suggestions to the respective departments for further planning and corrective measures. The Committee monitors the progress on a regular basis.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

Monitoring of learning outcomes are done at the following levels:

- **At Class level for course outcome:** Class-coordinator and subject faculty members play a crucial role in overall achievement of outcome by the students through continuous assessment and monitoring.
- **At Departmental level for program outcome:** This level of monitoring is at HoD level through the review of well defined outcomes of the programmes and giving the feedback to the concerned faculty for achieving better results.
- **At Institute level for consolidated outcome of different programmes:** Academic Committee of HoDs and Deans headed by the Director strictly evaluates the outcome of courses and ensures that they do not deviate from overall programme outcome.
- **Stakeholder's level:** Stakeholders like alumni, employees also provide feedback to the Institute-level committee to analyse the learning outcomes of each programme for improving the quality of education.

2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If ‘yes’ provide details on the process and cite a few examples.

‘Yes’. The Institute and individual faculty members use assessment/evaluation outcomes as an indicator of the students’ performance. On the basis of first sessional test, weak students are indentified and special classes are arranged for their improvements. End semester results of the students are analysed at the department level, on the basis of which the students are categorized as A, B, C and D which helps us in planning and implementing placement oriented classes for them.

Any other relevant information regarding Teaching-Learning and Evaluation which the college would like to include.

NIL

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

NIET is one of the few colleges which have been awarded with two Research Centers by AKTU, after rigorous process of identifying the potential colleges. The details are as follows.

| Department | University approval Details |
|---|---|
| Mechanical Engineering | University's letter no. AKTU/VCO/cir/20167798 |
| Electronics & Communication Engineering | dated April 23, 2016 |

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the Institute has constituted a research committee to monitor and address the issues related to research in the Institute. The research committee of the Institute consists of the following members:

1. Dr. Ajay Kumar, Director, NIET
2. Dr. P. Pachauri, Professor (Mechanical Engineering) & Director (P&P)
3. Dr. S. Gairola, Professor (Electrical & Electronics Engineering) & Dean (R&D)
4. Dr. N. Rajesh Mathivanan, Professor (Mechanical Engineering) & Dean(Academic)
5. Dr. Rajesh Kumar, Professor (Physics)

The meeting of above committee members is held once in a semester in order to synchronies and encourages research activities undertaken by the various faculty members of the Institute.

The committee has made several recommendations for improvement of the quality of research, besides providing guidelines for the quality-research projects and theses framed by students and faculty members. The committee has made the following recommendations so that quality of research is further improved:

- Each research project should preferentially have at least two publications, one of which should be in a SCI indexed journal of repute.
- The projects should have a socio-economic value for betterment of the society.
- The Head of each Department should motivate their faculty members to publish at least one research paper in a reputed journal and present one paper in a national/international conference in one academic session.

- The faculty members should be encouraged to pursue research programmes (Ph.D.) in their respective area of interest.
- The committee has recommended to have a software to check plagiarism in research papers, dissertations and theses before submission.
- Committee also recommended monetary rewards to authors for their publication in SCI index journals.
- The Departments are equipped with requisite infrastructure and e-journals access is provided to all researchers.
- Committee suggested to take measures for encouraging female members for Research & Innovation.

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- autonomy to the principal investigator
- timely availability or release of resources
- adequate infrastructure and human resources
- time-off, reduced teaching load, special leave etc. to teacher
- support in terms of technology and information needs
- facilitate timely auditing and submission of utilization certificate to the funding authorities
- any other

The prime measures taken by the Institute to facilitate smooth progress and implementation of research schemes include the following:

- **Autonomy to principal investigator:** The principal investigator & co-investigator/s are given autonomy to work in the department even after the college hours and are free to manage the research expenses with the consent of management.
- **Timely availability or release of resources:** The management encourages novelty in research and sponsor seed money to the faculty members to initiate research.
- **Adequate infrastructure and human resources:** Human resources like, accountant/book keeping, lab assistants and technicians are made available after the college hours with extra remuneration so that the researchers can continue without any hassle. Every Department has specified laboratories with state-of-the-art facilities.
- **Time-off, reduced teaching load, special leave to teachers:** Researchers who are working on funded projects will be allotted a minimal teaching load and provision is made for them to travel & present their research activity to the funding agency and also at conferences.
- **Support in terms of technology & information needs:** The Institute has subscribed e-journals enabling researchers to access information through the Institute login. NIET

through Technology Business Incubator (TBI) provides necessary infrastructure for commercialization of research and innovative outcomes.

- **Submission of utilization certificate:** The research committee of the Institute and the accounts office ensure that the researchers make a timely audit of the fund granted to them and submit the utilization certificate to the funding authority.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

For developing and nurturing the research aptitude among students, they are encouraged to actively participate in various seminars, conferences and workshops organized. The students are involved in individual and group projects of emerging areas and modern technology to infuse critical thinking and scientific temper. Guest lectures on contemporary issues are conducted by inviting experts from the field of science and technology. Besides, the Institute organizes several industrial tours for the students of all the Departments to ensure that the students have a fruitful interaction with the industry and paper presentation activity by the students and to inculcate scientific temper and research culture among the students.

- Institute offers teaching assistantships to deserving PG students during their project phase as per eligibility.
- The Institute has formed a Creative Design Cell (CDC) and UG students are encouraged to take up different projects with innovative ideas as their co-curricular activity. This activity is later extended to the Institute-level competition and the selected students are motivated by various prizes.
- The Institute also organizes annual TECHFEST to promote various technical activities, such as software competition, project competition, robot competition, etc.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.)

The Institute has dynamic faculty members with potential of excellence in researches, who are involved in guiding the students for their research. The Institute has various collaborative projects with R & D labs, IITs & NITs, industries and hospitals where students and faculty members are working in collaboration with them. Research papers in the joint name of students and faculty members of NIET as well as industrial co-guides are published in various national and international journals.

Faculty Involvement in Guiding M.Tech. Students:

M. Tech. Dissertation Guided by the faculty members

| S.NO. | Name of Student | DISSERTATION TITLE | SUPERVISOR'S NAME |
|-------|-------------------------|---|---------------------------------------|
| 1. | Anil Kumar Singh | Software Fault Prediction based on K-Means and Fuzzy C-Means Clustering Algorithms | Mr. Raj kumar Goel Mr.Pankaj Kumar |
| 2. | Arvind Kumar | Drawing CFG and Determining Cyclomatic Complexity of A Program/Software. | Mr.C.S.Yadav |
| 3. | Daya Shankar Srivastava | Size Estimation of Object-Oriented Software. | Mr.C.S.Yadav |
| 4. | Priya Chaudhary | Estimation Model for the Effort needed on Testing Projects using Test Point Analysis. | Mr.C.S.Yadav |
| 5. | Vivek Kr. Srivastava | An Efficient Load Balance Algorithms for Grid Computing using Mobile Agent | Mr.Raj kumar Goel Dr.P.K.Bharti |
| 6 | BhagwanYadav | Design & Analysis of Image Encryption using Chaotic Logistic Map | Mr. S.P. Sharma Mr.Pankaj Kumar |
| 7 | Meraj Ansari | SCTP Multihoming with Cross Layer Interface in Ad-hoc Multihommed Network. | Mr. S.P. Sharma |
| 8 | ParulAgarwal | Web-based Techniques for LandmarkMininginGISSystem. | Ms.Chitvan Gupta |
| 9 | Ram Kumar Sharma | Information Retrieval-based Model for Extracting Text and Audio from video for Video Search Optimization. | Mr.Nagesh Sharma |
| 10 | Renu Devi | Routing Misbehavior in Mobile Ad-Hoc Network. | Dr.Prashant Singh |
| 11 | Shefali Goyal | Multipath Routing Protocol for Multimedia Applicationsin Ad-Hoc Wireless Network. | Dr.Prashant Singh |
| 12 | Ashutosh | A Dynamic Approach to | |

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|----|--------------------|--|--|
| | | Automated Test Case Generation using UML Diagram. | Mr.Abdul Khalid |
| 13 | Deepak Tyagi | A Model for Predicting the Quality of Autonomic software Systems. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 14 | Jyoti Mishra | Performance Comparison of Different Automated Testing Tools. | Mr. Irphan Ali |
| 15 | Mohit Kumar | Analysis and Testing of Multidimensional Encryption Algorithm. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 16 | Nikita Rastogi | A Study on Validation of Cohesion Metrics. | Mr.Ritesh Rastogi |
| 17 | Pitamber Adhikari | Testing and Analysis of Object-Oriented Software. | Mr.C.S.Yadav |
| 18 | Prachi Gupta | Comparative Analysis of Strategies of Testing in Cloud Computing. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 19 | Shaila Chaudhray | Efficient Approach of Emotion Recognition System based on the Facial Expression | Mr.Ritesh Rastogi |
| 20 | Shivnath Gupta | An Approach for Testing challenges in Cloud Computing. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 21 | Sudarshan Singh | Comparative Analysis of Testing Techniques for Security in Web-based Applications. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 22 | Suman Khatri | Recognition of Devnagari Numeral using Neural Network Techniques. | Mr.Irphan Ali |
| 23 | Vijay Kumar Tiwari | Analysis of Secure and Optimized Algorithms for the Implementation of Digital Signature. | Dr.Anurag Awasthi Mr.Ritesh Rastogi |
| 24 | Vikrant Malik | Integration of Usability in Software Development. | Mr.C.S.Yadav |
| 25 | Manisha Singh | Study and Implementation of Bidirectional Associative | Dr.Somesh Kumar |

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|----|--------------------|--|--|
| | | Memory for Function Approximation in Pattern Mapping Networks | |
| 26 | Manisha Uprety | Pattern Auto-Association with HNN using Genetic Algorithms anemic-Adaptation Rule | Dr.Somesh Kumar Mr.Raj kumar Goel |
| 27 | Mansi Aggarwal | Maintainability Assessment of Object-Oriented Software System using AHP | Mr.Vineet Kumar Mr.Harsh Vardhan Mishra |
| 28 | Prakash Kumar | Scheduling approach for Load Balancing Model in Grid System Computation | Mr.Pradeep Kumar |
| 29 | Sachin Goel | Information Theoretical Aspects for Enhancement of Accuracy in Epilepsy Diagnosis | Mr.Harsh Vardhan Mishra |
| 30 | Aradhna Srivastava | Network Intrusion Detection System using Principal Component Analysis (PCA) | Mr.Pankaj Kumar Mr.Raj kumar Goel |
| 31 | Nikhil Gupta | Investigation of crack growth propagation in EN-31 | Prof. P.Pachauri |
| 32 | Abdhesh Kumar | Drilling sequence path minimization using Genetic Algorithm | Prof. P.Pachauri |
| 33 | Rohan Kumar | Testing of aluminum based composite (Al7075-Al2O3) developed through Electromagnetic stir casting process | Mr. Shyam Lal & Dr. Sudhir kumar |
| 34 | Abhishek kumar | Development and characterization of aluminum metal matrix composite using Electromagnetic stir casting method | Mr. Shyam Lal |
| 35 | Vivek Singh | Finite element analysis of a spur gear tooth using solid works simulation and stress reduction by stress relief hole | Mr. Sandeep Chauhan |
| 36 | Gyanchandra Sharma | Static strength improvement of Eicher 11.3 Cargo Truck chassis by optimizing cross-sectional area | Mr. Sandeep Chauhan |
| 37 | Shailesh Singh | Effect of pin-on-disc process parameters on tribological | Mr. Shashi Prakash Dwivedi & |

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| | | properties of AA6082/5% Sic composite using RSM | Mr. Harveer Singh Pali |
| 38 | Sushil Kumar Madhesia | Fabrication and characterization of composite material and its buckling analysis through FEM | Mr. Ashish Srivastava |
| 39 | Kaushambi Singh | Optimization of process parameters of EDM on Al6082/SiC MMC fabricated by electromagnetic stir casting | Mr. Harveer Singh Pali |
| 40 | Dhirendra Kumar Verma | Processing of and characterization of Al2024/Al ₂ O ₃ Nano composite fabricated by electromagnetic stir casting process | Mr. Kapil Kumar |
| 41 | Ankita Awasthi | Optimization of thermoelectric cooler by using genetic algorithm | Mr. Kapil Kumar |
| 42 | Samar Sultan | Development and characterization of Al7075/nano Sic metal matrix composite | Mr. Kapil Kumar |
| 43 | Vikas Kumar Single | Optimization of CNC drilling process parameter of foamed carbon fiber composite for quality characteristics | Dr. Sudhir Kumar |
| 44 | Nitin Gupta | Characterization of A356/B4C composite fabricated by electromagnetic stir casting process with vacuum | Dr. Sudhir Kumar |
| 45 | Vivek Kumar | Optimization of welding parameters fabricated through under water friction stir welding | Dr. Sudhir Kumar & Dr. Ajay kumar |
| 46 | Mr. Sudhanshu Kumar | Outage Analysis of Single User Free Space Optics for Weak and Strong Turbulence Channels | Mr. Vivek Kumar Srivastava |
| 47 | Mr. Devendra Pratap | Experimental Study of WLAN in Indoor Environment | Prof. Satyendra Sharma |
| 48 | Mr. Dhananjay Singh | Study and Analysis of optical waveguide using helical signal | Mr. Vivek Kumar Srivastava |
| 49 | T. Jayachitra | Design and development of circularly polarized dual feed microstrip patch antenna for wireless applications | Dr. V.K. Pandey |
| 50 | Meenakshi Saini | “A wideband single fed L slot circularly polarized antenna” | Dr. V.K. Pandey |
| 51 | Vartika Tyagi | “A triangular slot CPW fed UWB notch antenna” | Dr. V.K. Pandey |

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| 52 | Abhilash Saurabh | “Design of various equalization and diversity techniques for MIMO” | Dr. V.K. Pandey |
| 53 | Mr Amit Kumar Yadav | Performance analysis of Array ,Wallace and Booth multiplier | Mr. S.K.Sahoo |
| 54 | Mr Ashutosh Kumar Singh | Implementation of D-latch using ternary logic | Dr. V.K. Pandey |
| 55 | Mr. Jitendra Kumar Saroj | Implementation of trans impedance amplifier using inductive peaking | Prof. Satyendra Sharma |
| 56 | Mr. Shyam Sundar Sharma | Implementation of OFDM using VHDL and comparison different FPGA platform | Dr. V.K. Pandey |
| 57 | Mr. Balbindra Kumar | Design and implementation of high speed ADPCM encoder and decoder IP core for multimedia application | Mr. S.K.Sahoo |
| 58 | Ravindra Kumar | Design and implementation of FFT filter IP core using VHDL | Mr. S.K.Sahoo |
| 59 | Ms. Smita Mishra | "Identification of BUG Report using Naïve Bayes Classifier with Gain Ratio" | Dr. Somesh Kumar |
| 60 | Nripendra Kumar Choudhary | Development of Computational Model For Evaluation of Ride Comfort of Road Car Through Bond Graph | Dr. Chandan Kumar and Dr Praveen Pachauri |
| 61 | Yogesh Kumar Chaubey | Development of Framework For Premature Failure Analysis of Suspension System of a Car | Dr. Chandan Kumar and Mr. Sandeep Chauhan |
| 62 | Anupam Kumar Yadav | Slotted Dumbbell Shaped Microstrip Patch Antenna for WiMAX Frequency Band of 3.4- 3.69 GHz | Dr.V.K.Pandey, Mr.Anshuman Singh |
| 63 | Rajat Mehrotra | Design of Plus Sign Slotted Microstri Patch Antenna for WiMAX Applications | Dr.V.K.Pandey, Mr.Anshuman Singh |
| 64 | Himanshi Sharma | Design and Analysis of Johnson Counter Based on Power-Gating CPAL | Mr. Rajan Singh |
| 65 | Yogita Pal | Noise Cancellation Using Low Pass FIR Adaptive Weiner Filter by LMS Algorithm | Mr. Rajan Singh |

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| 66 | Chinmayee Singh | Analysis and Design of Compact Planar Branched Monopole Antennas for DCS/2.4 GHz & WLAN Applications | Prof. Tejbir Singh Mr. Prabhakar Agarwal |
| 67 | Pawan Kumar Dubey | Performance Analysis of XPM-induced crosstalk with higher order dispersion in SCM-WDM optical transmission link | Dr. B. Mohapatra |
| 68 | Shilpi Bansal | Design of Configurable and Power Efficient Crossbar Switch for Network-on-Chip (NoC) | Dr. Satyendra Sharma, Mrs. Nidhi Sharma |
| 69 | Ravin Kumar | Reorganization of static neural sign in Indian sign language for deaf dumb. | Dr. C.S. Yadav |
| 70 | Sapana Sharma | Recognition of plant species based on leaf images using multilayer feed forward neural network | Mrs. Chitvan Gupta |
| 71 | Vibha shukla | Column stores implementation and performance analysis | Dr. Rajdev Tiwari |
| 72 | Smita mishra | Identification of bug report using naïve bayes classification with gain ratio. | Dr. Somesh Kumar |
| 73 | Pinky Bhati | Regional cluster based routing protocol. | Dr. Rajdev Tiwari |
| 74 | Neelam | Simulation study and implementation of different routing protocol under FTP traffic | Pankaj Kumar, Atul Gupta |
| 75 | Roshani Gupta | Secured and intelligent multi path routing approach using AOMDV in Manet | Mr. Ramesh Chandra Shahoo |
| 76 | Rahul Yadav | Analysis of multipulse AC-DC converters for power quality improvement | Dr. S. Gairola |
| 77 | Pritish Kulshreshtha | Boost converters for power factor improvement and bidirectional power flow | Dr. S. Gairola & Anurag Verma |

Doctoral Research under the Supervision of NIET Faculty Members (Awarded & Pursuing)

| S.No. | Name of the candidate | Name of Guide | Title of Thesis | Year & Research Center | Status |
|-------|---|--------------------|---|---|----------|
| 1 | Rajesh Arora (Jagdish prasad Jhabarmal Tibrewala University) | Dr Gaurav Aggarwal | A Study On - Understudying Individual Indian Investor Awareness Level and Selection Behaviour towards Indian Mutual Fund Schemes (In NCR Region of Delhi) | 2013, Lloyd Institute of Management & Technology, Gr. Noida | Awarded |
| 2 | Abhishek Jha (UPTU, Lucknow) | Dr Gaurav Aggarwal | A Comparative Study of Project Risks on the basis of Capital Budgeting Decisions | 2011, NIET Greater Noida | Pursuing |
| 3 | Faisal Noman (Mewar University) | Dr Gaurav Aggarwal | Impact of Disinvestment on Indian Capital Market | 2013, Lloyd Institute of Management & Technology, Gr. Noida | Pursuing |
| 4 | Vibhore Khadelwal (Jagdishprasad Jhabarmal Tibrewala University) | Dr Gaurav Aggarwal | Topic under finalization | 2013, Lloyd Institute of Management & Technology, Gr. Noida | Pursuing |
| 5 | Mayank Kumar Pandey (UPTU, Lucknow) | Dr Dileep Singh | Expansion strategies through international joint ventures: A case study of pharmaceutical sector | 2011, NIET Gr. Noida | Pursuing |

3.1.6 Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

Institution periodically conducts workshops, technical training programs with the following objectives:

- To identify the prime areas of research
- To provide an opportunity to interact with experts in the concerned field
- To help students get knowledge outside their academic syllabus
- To get hands-on training in advanced techniques

Training/FDP/QIP Sensitization Program organized in the Institute

| S.NO. | Activity | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
|-------|-----------------------------|-----------|-----------|-----------|-----------|
| 1 | Training Program | 01 | 06 | 02 | 06 |
| 2 | Workshop | 03 | 06 | 16 | 05 |
| 3 | FDP/ STC | 05 | 07 | 06 | |
| 4 | Seminar/ Conferences | 02 | 04 | | 02 |

Workshops/ Seminars organized in the Institute

| S.No | Activity | Topic | Organizer/ Agency | Date |
|------|----------|--|---|--|
| 1 | Workshop | Career Opportunity available in Construction, and Built up environment | Team from RICS, Amity University | 22 nd February, 2014 |
| 2 | Workshop | Staad Pro Workshop Cum Techno-Champ 2K14 Organized by IIT, Guwahati | Structural Consultant, Pro-Group India, Noida | 22 nd and 23 rd March, 2014 |
| 3 | Workshop | Workshop on MATLAB and Genetic Algorithm for Electrical Engineers | NIET, Greater Noida | 5 th April, 2014 |
| 4 | Workshop | Placement Workshop | NIET, Greater Noida | 8 th Sept., 2014 – 20 th Sept., 2014 |

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|----|----------|---|---|---|
| 5 | Workshop | Workshop on PLC/SCADA for Electrical Engineers | Expert team of Spectrum Infogain Services, Noida | 29 th Sept. 2014, 10 th Oct. 2014, 11 th Oct. 2014 |
| 6 | Workshop | Embedded Systems | IOTA CELL, Bangaluru | 2 nd -4 th March, 2015 |
| 7 | Workshop | "Cloud Computing" | IOTA CELL, Bangaluru | 9 th – 21 st June, 2015 |
| 8 | Workshop | Bioinformatics & Clinical Research | Simulanis Solutions Pvt. Ltd., Delhi | 15 th July, 2015 – 26 July, 2015 |
| 9 | Workshop | "Intellectual Property Rights" | India Juris ,New Delhi | 25 th July, 2015 |
| 10 | Workshop | "Virtual Labs" | IIT Delhi | 15 th Sept., 2015 |
| 11 | Workshop | One day workshop on virtual Lab | IIT-Delhi | 16 th Sept., 2015 |
| 12 | Workshop | "TechSense 2015 By Mozilla Firefox Club" | NIET, Greater Noida | 17 th Oct., 2015 |
| 13 | Workshop | "Amazon Web Services" | Amazon Regional Business Head, Delhi | 17 th Nov., 2015 |
| 14 | Workshop | 2 Days Workshop on Auto CAD | CETPA | 30 th -31 th Dec., 2015 |
| 15 | Workshop | Teaching and Learning process | NIET, Greater Noida | 25 th Jan., 2016 |
| 16 | Workshop | "Techknack'2016 By Mozilla Firefox Club" | NIET, Greater Noida | 26 th Feb., 2016 |
| 17 | Workshop | One day Workshop on Basics of Welding | Fronius India Pvt | 15 th April, 2016 |
| 18 | Workshop | Curriculum Development for B.Tech. Biotechnology sponsored by | Dr. APJ Abdul Kalam Technical University, Lucknow | 21 th – 22 th April, 2016 |
| 19 | Seminar | 2 Days Seminar on Entrepreneur Aspects on | NIET, Greater Noida | 22 nd -23 rd April, 2016 |

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|----|----------|---|---|---|
| | | Solar Energy | | |
| 20 | Webinar | Webinar on Mobile Communication | Dellsoft Tech. | 4 th – 6 th May, 2016) |
| 21 | Workshop | Design of Flexible and Rigid Pavement | NIET, Greater Noida | 9 th -13 th May, 2016 |
| 22 | Workshop | One day workshop on Internet of Things | PTC | 10 th June, 2016 |
| 23 | Workshop | “Internet of Things” | Parametric Technology India (Pvt.) Ltd. | 10 th June, 2016 |
| 24 | Workshop | "Internet of Things" | MonkFox, Bangaluru | 10 th June, 2016 |
| 25 | Workshop | Clinical Research & SAS | MonkFox, Bangaluru | 7 th - 22 th June, 2016 |
| 26 | Workshop | Virtual Lab | IIT Delhi | 23 rd Aug., 2016 |
| 27 | Workshop | Python 101 workshop | Zopper | 30 th Aug., 2016 |
| 28 | Seminar | Seminar for GATE ASPIRANTS | Engineer's Zone | 9th Sept., 2016 |
| 29 | Workshop | “Android,.Net,PHP and Bigdata” | NIET, Greater Noida | 9 th Sept., 2016 |
| 30 | Workshop | One day workshop-3ST technology, Noida on VLSI design | NIET, Greater Noida | 1 st Oct., 2016 |

| S.No | Activity | Topic | Organizer/ Agency | Date |
|------|--------------------------|---|---------------------|---|
| 1 | Training & Certification | Six Sigma Green Belt Certification from KPMG. | NIET, Greater Noida | 14 th -17 th Oct., 2013 |
| 2 | SDP | A Two-day Workshop on Communication Skills For Non-Teaching Staff | NIET, Greater Noida | 13 th -14 th May, 2014 |
| 3 | QIP | Advances in Mechanical Engineering | NIET, Greater Noida | 14 th -15 th May, 2014 |
| 4 | SDP | A Two-day Workshop on Computer Fundamentals | NIET, Greater Noida | 23 rd -24 th May, 2014 |
| 5 | FDP | Planning of 4G Network | NIET, Greater Noida | 19 th June, 2014 |

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| 6 | FDP | EMFT | NIET, Greater Noida | 7 th Aug., 2014 |
| 7 | FDP | Optical Fiber Communication | NIET, Greater Noida | 7 th Aug., 2014 |
| 8 | SDP | ICICI Direct on Financial Market. | NIET, Greater Noida | 9 th -22 th Sept., 2014 |
| 9 | FDP | SPSS in Research Methodology | NIET, Greater Noida | 19 th Sept., 2014 |
| 10 | FDP | Evolutionary Optimization Techniques | NIET, Greater Noida | 19 th – 24 th Dec., 2014 |
| 11 | Summer Training | “Cloud Computing” | IOTA Cell, Bengaluru | 9 th - 21 th June, 2015 |
| 12 | Summer Training | “Big Data & Analytics” | IOTA Cell, Bengaluru | 9 th - 21 th June, 2015 |
| 13 | Summer Training | “Mobile application development using Android platform” | IOTA Cell, Bengaluru | 9 th - 21 th June, 2015 |
| 14 | Summer Training | “Internet of Things using Raspberry Pi” | IOTA Cell ,Bengaluru | 9 th - 21 th June, 2015 |
| 15 | Summer Training | Simulanis Solutions Pvt. Ltd., Delhi | Modelling & Simulation for Chemical System | 15 th - 26 th July, 2015 |
| 16 | FDP | "Intellectual Property Rights" | NIET, Greater Noida | 25 th July, 2015 |
| 17 | FDP | "Soft Computing Techniques & Its Applications" | NIET, Greater Noida | 4 th – 9 th Jan., 2016 |
| 18 | STC | “MATLAB and its Hardware Interface” | NITTTR Chandigarh | 11 th -15 th Jan., 2016 |
| 19 | Training | “Entrepreneurship & IPR Awareness Program” | MSME | 1 st Feb., 2016 |
| 20 | STC | “Embedded C Programming of Microcontrollers” | NITTTR Chandigarh | 2 nd – 6 th May, 2016 |
| 21 | STC | “2G Vs 3G” | NITTTR Chandigarh | 23 rd - 27 th May, 2016 |

**Self-Study Report
Noida Institute of Engineering & Technology**

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|----|-----------------------------|---|--|---|
| 22 | FDP | “2G/3G” | NITTTR, Chandigarh | 23 rd - 27 th May, 2016 |
| 23 | STP | One week STTP on Modeling and Simulation for Mechanical Engineering Systems, MSMES-2016 | ISTE/Institute | 6 th – 10 th June, 2016 |
| 24 | Summer Training | Simulanis Solutions Pvt. Ltd., Delhi | Modelling & Simulation for Chemical System | 6 th - 16 th June, 2016 |
| | STC | “Open Source Technologies” | NITTTR Chandigarh | 29 th Aug., 2016 – 2 nd Sept., 2016 |
| 26 | FDP | Intellectual Property Right | NIET - TBI | 25 th July 2015 |
| 27 | ICT Based Workshop | Communication Skills | NITTTR Chandigarh | 20-24 th July, 2015 |
| 28 | International Conference | CETCME-2015 | ME, NIET | 21-22 nd March 2015 |
| 29 | Sensitization Program | 80E:20H | NIET, Greater Noida | 17 th July, 2015 |
| 30 | National Conference | Electronics, Communication & Information Systems (ECIS 3) | ECE, NIET | 16-17 th March, 2013 |
| 31 | SDP | Motivation | MCA, NIET | 4 th Feb., 2013 |
| 32 | QIP | Latest Trend in Manufacturing | ME, NIET | 7-8 th January, 2013 |
| 33 | National Conference | Emerging Technologies in Computer Science (ETCS 2012) | CSE, IT & MCA, NIET | 20-21 st October 2012 |
| 34 | National Conference | RTEE-202 | EN, NIET | 20-21 st April, 2012 |

3.1.7 Provide details of prioritised research areas and the expertise available with the institution.

The Institution has highly qualified faculty members with expertise in various domains of Science & Technology. The details of the prioritized research areas and expertise of faculty members are given in the table below:

| S.No | Name of the Faculty Member | Department | Research Area/ Specialization |
|------|----------------------------|---------------------|---|
| 1 | Dr. Ajay Kumar | Mechanical Engg | Advanced Manufacturing Processes |
| 2 | Dr. Pande B B Lal | Civil Engg | Hydrology |
| 3 | Dr. P. Pachauri | Mechanical Engg | Advanced Manufacturing Processes |
| 4 | Dr. Sanjay Gairola | Electrical Engg | Power Electronics, Electrical Machines and Drives |
| 5 | Dr. N. Rajesh Mathivanan | Mechanical Engg | FRP Composite Structure |
| 6 | Dr. Satyendra Sharma | ECE | VLSI Design and Wireless Comm. |
| 7 | Dr. V K Pandey | ECE | Microwave Engineering |
| 8 | Dr. Dileep Singh | MBA | HR and Marketing |
| 9 | Dr. C.S. Yadav | CSE | Software Engineering |
| 10 | Dr. Somesh Kumar | IT | Soft Computing |
| 11 | Dr. Ravi Kant Singh | Biotechnology | Bio-process Engineering |
| 12 | Dr. Anjana Rani | Mathematics | Applied Mathematics |
| 13 | Dr. Minakshi Yadav | Mathematics | Numerical Methods |
| 14 | Dr. Yogesh Agarwal | Chemistry | Organic Chemistry/Polymer Technology |
| 15 | Dr. Sujeet Kumar | Environment Science | Microbiology/Botany |
| 16 | Dr. Ghazala Naaz | English | Indian English Literature, Linguistics |
| 17 | Dr. Vipin Kumar | English | Indian English Literature, Linguistics |
| 18 | Dr. Bindunath Jha | English | Linguistics, Phonetics |
| 19 | Dr. Chandan Kumar | Mechanical Engg | Machine Design |
| 20 | Dr. Surya Dev Chaudhary | ECE | Microwave Communication |
| 21 | Dr. Arvind Kr. Tiwari | Mechanical Engg | Thermal Engineering |
| 22 | Dr. Sachin Tejiyan | Mechanical Engg | Composite materials |
| 23 | Dr. Priyanka Chawla | CSE | Computer Science and Engineering |
| 24 | Dr. S. K. Bharti | CSE | Computer Science and Engineering |
| 25 | Dr. Deepti Gupta | CSE | Computer Science and Engineering |
| 26 | Dr. Prashant Mukharji | Civil Engg. | Geotechnical engg |
| 27 | Dr. Laxman Singh | ECE | Image Processing |

| | | | |
|----|------------------------|-----------------|--|
| 28 | Dr. H. S. Pali | Mechanical Engg | Biofuel |
| 29 | Dr. Ritu Souryan | English | Fiction & Literature |
| 30 | Dr. Priyanka Singh | English | Communications & Languages |
| 31 | Dr. B. Kumar | Mechanical Engg | Machine Design |
| 32 | Dr. S. L. Verma | Mechanical Engg | Production |
| 33 | Dr. Gaurav Agarwal | MBA | Finance Management |
| 34 | Dr. Monika Chauhan | Chemistry | Material Science |
| 35 | Dr. Pawan Prakash Giri | Chemisty | Organic Chemistry |
| 36 | Dr. Shweta Vaishnoi | Chemisty | Nano-science (condense matter physics) |
| 37 | Dr. Pankaj | Physics | Electronic Physics |
| 38 | Dr. Manish Kaushik | Chemistry | Organic Chemistry |
| 39 | Dr. Vineet Shekhar | Electronics | Control System |
| 40 | Dr. Meenu Singh | Biotech | Molecular Biology |
| 41 | Dr. Mukesh Chawla | CSE | Computer Network |
| 42 | Dr. Bharti Chaudhary | Biotech | Micro Biology |
| 43 | Dr. Mohd Zeesan | Biotech | Genetics |

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Research center in Mechanical Engineering and Electronic & Communication department has been sanctioned by AKTU University. The Institute strives to attract the enthusiastic researchers and provide an opportunity to interact with the teacher, through several platforms such as: National & International conferences, seminars, symposia, workshops, guest lectures, Faculty Development Programmes, Staff Development Programmes, trainings, etc. The University allots the research scholars to the concerned research centers to carry out their research under the supervision of the faculty members of the Institute.

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

Sabbatical leave has been sanctioned to many aspiring teachers to pursue research in their area of interests. The List of faculty members availing/availed sabbatical leave is below:

List of faculty members availing or availed sabbatical leave

| S.No | Name | Department | Duration |
|------|-----------------------|---------------|----------|
| 1 | Mr. Hari Mohan Gaur | ECE | 3 years |
| 2 | Mr. Chetan Kumar Garg | Chemical | 2 years |
| 3 | Mr. Rohit Gupta | EN | 2 years |
| 4 | Mr. Himanshu | EN | 3 years |
| 5 | Mr. Archit Saxeja | ME | 1 year |
| 6 | Mr. Ved Prakash | ME | 2 years |
| 7 | Dr. Sujeet Kr Singh | Environmental | 1 year |
| 8 | Mr. Anwar Ali | ME | 1 year |
| 9 | Dr. Meenakshi Yadav | Mathematics | 1 year |
| 10 | Ms. Meenakshi Sharma | ECE | 2 years |
| 11 | Dr. Vikas Choudhary | CSE | 1 year |
| 12 | Ms. Heena Pahwa | Biotech | 1 year |
| 13 | Ms. Nidhi Sharma | ECE | 1 year |
| 14 | Ms. Sharjeet Kaur | ECE | 1 year |
| 15 | Mr. Shakeel Ahmed | Civil | 1 year |

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness / advocating / transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

NIET creates awareness of the findings of research among students and faculty members through various events. The substantive findings are published in the journals of repute or in the Institute journals, i.e. NIET Journal of Engineering & Technology and NIET Journal of Management. Additionally, the researchers participate in seminars, conferences, symposia, etc. to disseminate their findings. Inter institutional tech fests, project exhibitions, poster presentations are also organized to share the initiatives taken by the Institute for showcasing the newly developed technologies. Some research outcomes are exposed to outside world through press & media as well.

Few advanced laboratories such as CNC lab, CAD Lab, Microwave Lab, Materials Science & Testing Lab, and Advanced Manufacturing lab are being utilised for supporting some of the nearby industries and institutes. The prototypes and parts are being developed for industrial needs. The incubated companies use the cutting edge lab facilities for software development and research work.

3.2 Resource Mobilization for Research

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

There is a provision in the budget for the research activities. The researchers can procure chemicals, computers, softwares, electronic items, consumables, etc. on the approval of departmental research committee. The committee can also recommend for travel. Following table depicts the amount spent on research and development activities:

| Financial Year | Finance Allocated for R & D | Actual Utilization for R & D | Total Budget Utilized | % age of Total allocated Budget |
|-----------------------|--|---|------------------------------|--|
| 2015-16 | 40,00,000 | 42,63,028.10 | 107% | 1.06% |
| 2014-15 | 40,00,000 | 42,19,811.25 | 105% | 1.06% |
| 2013-14 | 40,00,000 | 39,76,815.15 | 99% | 1.16% |
| 2012-13 | 30,00,000 | 31,85,179.35 | 106% | 0.19% |

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

The Institute provides seed money to faculty members by providing support in building experimental setup, dedicated space and the procurement of costly consumables. For example following faculty members were provided financial support:

| S. No. | Name of Faculty Members | Title of Project | Duration | Amount | Outcome |
|---------------|--------------------------------|-------------------------------|-----------------|---------------|---|
| 1 | Dr Ajay Kumar | Development of SAW Fluxes | 2013-14 | 1.5 Lacs | Developed thirty two submerged arc welding fluxes which can be used commercial purpose. |
| 2 | Dr P. Pachauri | Development of MIM facilities | 2012-13 | 1.25 Lacs | Developed dies and procured material MIM research facilities |

| | | | | | |
|---|---------------------|--------------------------------|---------|-----------|---|
| 3 | Mr H S Pali | Bio-diesels | 2014-15 | 1.50 Lacs | Ongoing |
| 4 | Dr S.L.Verma | Electromagnetic Stir Casting | 2013-14 | 1.25 Lacs | Hybrid composite fabrication |
| 5 | Mr Shahzad | Compressed air vehicle | 2014-15 | 30000 | Developed Compressed air vehicle |
| 6 | Dr Satyendra Sharma | Network Planning and designing | 2012-13 | 2.70 Lacs | Developed facility for 4G signal analysis |
| 7 | Dr Satyendra Sharma | RF Network designing | 2013-14 | 1.60 Lacs | Developed facility for signal power measurement |

3.2.3 What are the financial provisions made available to support student research projects by students?

The Institute has policy to financially support the student research projects on the recommendation of the research guide and the Head of the Department in following ways:

- The HODs are empowered to recommend for supporting student research activities by providing the critical components, instruments, software, etc.
- The students are encouraged to work on innovative projects suggested by the Institute's Creative Design Cell (CDC). The financial supports for such projects is given by the Institute on recommendation of Head of the Department.
- The PG students are given financial support for research work on the recommendation of research committee of the Institute..

The progress and monitoring of the project are responsibility of project guide(s). Institute also promotes the culture of research and innovation among students by rewarding the successfully completed projects on recommendation of CDC.

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

- Considering expertise and facilities available, the research committee identifies the interdisciplinary areas of research. The HoDs and concerned faculty members regularly interact and find the interdisciplinary areas.
- Every department of the college has its own final year project assessment committee. This project committee includes one faculty member of any other department within the institute.
- B.Tech, M.Tech students can carry out the interdisciplinary research work/projects in association with other departments.

- In every semester, the Institute organizes Creative Design Cell Meet (CDCM) involving faculty members from different departments to discuss the current research areas in full length with other members for mutual benefits. This resulted in innovative research ideas leading to a good number of quality research papers.
- Students of Mechanical Engineering, undertook a research / design / development and manufacturing based project.
- Research work is always conducted at inter-departmental level on interaction with other departments to upgrade the level of research at the Institute.
- Most of the research in the core areas is being supported and validated by simulation tools and soft computing techniques with the help of the department of CSE, IT and MCA.

Example of successful endeavours in interdisciplinary research –

- a) Bio-diesel fuel production (ME, BT & Chemical department)
- b) Development of welding flux (ME and Chemical department)
- c) Analysis of microwave radiation effect on human body (ECE and BT department)

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

Institute allows its staff and students to use sophisticated instruments available in labs for their research. A log book for every lab keeps record of equipment utilization and issue of components. Final year students can use the college laboratories for their project work.

Institute prepares the documents detailing names of equipment, its specifications, possible uses, location and related interface as well as Library resources. The document is circulated to staff and students, so that they can plan their research activities. The time tables of labs are also notified to all. If required additional slots are provided. The major projects are divided in module and team leader is appointed to coordinate the project.

The campus is connected with full fledged LAN facility with numerous workstations in every department and also installed with required latest system and application software packages.

To compliment the research work, library is also one of the main scientific sources of information. The library is well equipped with national and international journals, volumes of informative books and central computational facility, E-journals and is open for students every day.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

'Yes'. The Institute received following grant:

| S. No. | Funding Agency | Year | Scheme | Grant | Department |
|--------|----------------|------|---------|------------|------------|
| 1 | AICTE | 2012 | MODROBS | 14.45 Lacs | ECE |

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.

| S. No. | Funding Agency | Scheme | Department | Instruments/Facilities Procured |
|--------|----------------|---------|------------|--|
| 1 | AICTE | MODROBS | ECE | DSO, Embedded system development kit, Logic analyzer etc |

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

The research facilities are available for faculty and students in the Institute.

| S. No. | Facilities available (Software/Hardware/Tools Available) | Application /Number of User | Department |
|--------|---|-----------------------------|------------|
| 1 | PTC Creo Software | 30 | ME |
| 2 | MATLAB & TOOL BOXES | 10 | ECE/EN |
| 3 | P Spice | 32 | ECE/EN |
| 4 | PSIM | 05 | EN |
| 5 | Micro Controller Development Tool (KIEL) | 05 | EN/ECE |
| 6 | XYLINX | 10 | ECE |
| 7 | TANNER Tool | 10 | ECE |
| 8 | Transmitter/Receiver (UPTO 10GHz) | 1 set | ECE |
| 9 | Spectrum Analyzer | 1 | ECE |
| 10 | Microwave Power Meter | 1 | ECE |
| 11 | CNC Lathe /Milling/Drilling Machines | 4 | ME |

| | | | |
|----|--|-----------|-----------------|
| 12 | Friction Stir Welding Setup | 1 | ME |
| 13 | Electromagnetic Stir Casting Setup | 1 | ME |
| 14 | Tensometer | 1 | ME |
| 15 | Sintering Furnace | 1 | ME |
| 16 | Bio Diesel Setup | 1 | ME/CH |
| 17 | Packed Bed Reactor | 1 | CH |
| 18 | Bubble Column Reactor | 1 | CH |
| 19 | Target Tool | 32 | ECE/EN |
| 20 | Mibeat | 8 | ECE/EN |
| 21 | Strip line analyser | 1 | ECE |
| 22 | Apple IOS | 30 | CSE/IT/MCA |
| 23 | Compression Testing Machine | 1 | CE |
| 24 | Tilting Flume | 1 | CE |
| 25 | Total Stations | 2 | CE |
| 26 | Standard Penetration Test | 1 | CE |
| 27 | Static Cone Penetration Apparatus | 1 | CE |
| 28 | Direct Shear Testing Machine | 1 | CE |
| 29 | Staad-Pro-V8I | 5 | CE |
| 30 | Cloud Computing Facility | 30 | CSE/IT/MCA |
| 31 | 3-D Printers | 2 | ME |
| 32 | Solidworks software | 30 | ME |
| 33 | Abacus Software | 1 | ME |
| 34 | Computerized SI Engine Test Rig | 1 | ME |
| 35 | Computerized CI Engine Test Rig | 1 | ME |
| 36 | Computerized UTM | 1 | ME |
| 37 | Routers and switches | 03 sets | CSE/IT/MCA |
| 38 | PCB developing machine | 01 set | ECE/EN |
| 39 | MS 430 Texas | 12 | ECE/EN |
| 40 | All Microsoft Softwares and libraries | 200 users | CSE/IT/MCA |
| 41 | Hi-definition vedio camera | 1 | All departments |
| 42 | Level Control Trainer | 1 | Chemical |
| 43 | Leaf Filter | 1 | Chemical |
| 44 | Liquid Liquid Extraction in Packed Tower | 1 | Chemical |
| 45 | Solid in Liquid Extraction | 1 | Chemical |

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

- The Institute has following strategies to meet the needs of researchers:
- NIET keep upgrading the existing labs and also establishing new labs (like Microsoft Innovation Centre, iOS Apple lab, PTC Lab, MiBeat Lab, Robotics Lab, Internet of

Things using Rasberry Pi Lab, Cloud Computing, 3D Printing Lab, Embedded Systems Lab, Mobile Application Development using Android Platform, Big Data Lab, Clinical Research& Bio-informatics Lab, SPSS Lab, etc) to help the researches' in the emerging areas of technology.

- The research budget is allocated to attract the researcher to work in emerging areas.
- Honorarium is given for publication in SCI index journals to researchers to promote the research in emerging areas.
- The infrastructural facilities demanded for research are evaluated by the research committee on the basis of gaps available to work in research areas where the Institute has shown some research outputs by using the existing resources.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments/facilities created during the last four years.

The Institute received following grant:

| S. No. | Funding Agency | Scheme | Grant | Department | Instruments/Facilities Procured |
|--------|----------------|---------|------------|------------|--|
| 1 | AICTE | MODROBS | 14.45 Lacs | ECE | DSO, Embedded system development kit, Logic analyzer etc |

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

- Students and research scholars are allowed to perform their research work fully or partially outside the campus in other research laboratories, institutes and hospitals under proper guidance.
- The Institute has deputed several faculty members for Ph.D. from various departments at renowned Institutes and Universities like NITs, Aligarh Muslim University, Jamia Millia Islamia, DTU, Delhi, AKTU Lucknow, etc.
- The Institute sponsors students to participate in technical competitions, exhibitions at various national technical institutes and universities.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

The details of the library facility are as on 02.03.2017 is follows:

| S.No. | Item | Available | |
|-------|-------------------------------------|-----------|--------------------------------|
| | | Title | Numbers |
| 1 | Number of books | 7677 | 112049 |
| 2 | Annual addition of books | 451 | 6591 |
| 3 | Periodicals Hard copies / online | 209 | Online Journals (10 Databases) |
| 4 | CDs | Yes | 6075 |
| 5 | Internet Browsing Facility | Yes | 10 dedicated systems |

Besides, NIET also has access to IT Academy from Microsoft and tools & library from Apple to enable the researchers' with modern technology content.

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college? For ex. Laboratories, library, instruments, computers, new technology etc.

NIET is making constant efforts towards the growth and development of students by providing ample opportunities for industry interactions to bridge the gap between academics and industry requirements. The Institute has established various test centers and laboratories in collaboration with various companies/organizations. The list is as follows:

| S. No. | Test center/laboratories/Certification | Name of the organization |
|--------|--|-------------------------------|
| 1 | Microsoft Innovation Center | Microsoft Inc. |
| 2 | Prometric Test Center | Thomson Prometric |
| 3 | Pearson Test Center | Pearson VUE |
| 4 | Center of Competence | PTC |
| 5 | Apple University Partner | Apple Corp. |
| 6 | Microsoft Cloud Campus | Microsoft |
| 7 | Cloud Computing Lab | IOTA Cell |
| 8 | Internet of Thing(IOT) using Raspberry Pi | IOTA Cell |
| 9 | Mobile Application Development on Android Platform | IOTA Cell |
| 10 | Big Data | IOTA Cell |
| 11 | Product Design and 3D printing | IOTA Cell |
| 12 | Embedded Systems | IOTA Cell |
| 13 | Clinical Research, Bio-Informatics & SAS | Simulanis Solutions Pvt. Ltd. |
| 14 | Process Modelling & Simulanis | |
| 15 | MiBeat Lab | CARDEA LAB |
| 16 | Cisco Network Academy | Cisco |

| | | |
|----|----------------------|--|
| 17 | Virtual Robotics Lab | Indo-Euro Sync/Applied Robotics Control Lab, Germany |
|----|----------------------|--|

NIET promotes the collaborative research by supervising research works conducted at various institution of repute like IIT Roorkee, NITs, Jamia Hamdard, Jamia Millia Islamia, GGSIP University, NDRI Karnal, etc.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- **Patents obtained and filed (process and product)**

Faculty members are under process of filing the patent. The details are as following:

1. Patent Granted in the Calendar Year 2013 : 3

| Sr. No. | Patent Number | Patent Approval Letter | Name of Faculty |
|---------|---------------|--|---|
| 1 | OW102815 | MULTIBAND MICROSTRIP_NIET (2013) https://myows.com/ows/download/102815 | Dr. V.K.Pandey, Raj Jaiswal, Mr. Jitendra Saroj & Ambuj Dwivedi |
| 2 | OW102812 | FRACTAL PATCH ANTENNA_NIET (2013) https://myows.com/ows/download/102812 | Kavita Sharma, Pooja Gautam, Dr. V.K.Pandey and Jitendra Saroj |
| 3 | OW102667 | Electromagnetic_Kinetic_Mover_NIET (2013) https://myows.com/ows/download/102667 | Praveen Pachauri and Prateek Pandey |

2. Patent Granted in the Calendar Year 2014 : 4

| Sr. No. | Patent Number | Patent Approval Letter | Name of Faculty |
|---------|-----------------|---|--------------------------------------|
| 1 | 3812/DEL/2012 A | http://www.ipindia.nic.in/writereaddata/Porta1/IPOJournal/1_156_1/official-journal-26-09-2014-part1.pdf | Praveen Pachauri and Shantanu Mishra |

| | | | |
|---|----------|--|---|
| 2 | OW102662 | STEAM BULTLER WITH HANGER_NIET (2014) https://myows.com/ows/download/102662 | Praveen Pachauri and Deepak Shukla |
| 3 | OW102670 | Hexagonal_Nut_Openner_NIET (2014) https://myows.com/ows/download/102670 | Praveen Pachauri and Deepak Shukla |
| 4 | OW102814 | PRINTED CIRCUIT BOARD_NIET (2014) https://myows.com/ows/download/102814 | Satyendra Sharma, Shiv Kumar Gehlot, Neha Suyal, Monika Dey |

3. Patent Granted in the Calendar Year 2015 : 6

| Sr. No. | Patent Number | Patent Approval Letter | Name of Faculty |
|---------|---------------|--|--|
| 1 | OW102813 | MICROSTRIP SLOT ANTENNA_NIET (2015) https://myows.com/ows/download/102813 | S.D.Choudhary, Devendra Pratap, Gurunam Panwar, Nikita Raghuvanshi |
| 2 | OW102811 | MICROSTRIP PATCH ANTENNA IN PCB LAB_NIET (2015) https://myows.com/ows/download/102811 | Surya Deo Choudhary, Devendra Pratap, Nandini Tyagi and Avinash Pandey |
| 3 | OW102669 | Petri_Dish_Stack_NIET (2015) https://myows.com/ows/download/102669 | Praveen Pachauri and Pankaj Kumar |
| 4 | OW102598 | Steam Butler with hanger NIET (2015) https://myows.com/ows/download/102598 | Praveen Pachauri and Deepak Shukla |
| 5 | OW102671 | Cabinet_Dustbin_NIET (2015) https://myows.com/ows/download/102671 | Praveen Pachauri and Deepak Shukla |
| 6 | Awaited | Instrument Transformer (0-12V) Awaited (2015) | Ashish Yadav, Ashutosh Kumar Singh, Satyendra Sharma & Shiv Kumar Gehlot |

- **Original research contributing to product improvement**
 - Prof Satyendra Sharma has developed a transceiver system for low power and high frequency EM radiation to minimize its effects on human body.
 - A digital stick to help and guide blind people on road was designed and developed by EC department.
 - An Ultrasonic RADAR was designed to find out the hideouts of terrorist in sensitive places by ECE department.
 - The department of Mechanical Engineering has developed a four wheeler run by compressed air to meet out deficiency of conventional fuel and prevent air pollution.
 - New Flux Development for SAW process.
- **Research inputs contributing to new initiatives and social development**
 - Faculty of ECE department has developed a high frequency EM radiation transceiver system to minimize its effects on human body.
 - Faculty & Students of ECE department have designed and developed a digital stick to guide blind people on road.
 - An Ultrasonic RADAR was designed to find out the hideouts of terrorist in sensitive places by ECE department.

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If ‘yes’, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

Yes, the Institute publishes the following journals:

- ***NIET Journal of Engineering and Technology (Annual)***
Editorial Board:
Editor - Dr S Gairola (Dean, R & D)
Associate Editors: All Heads of Departments
- ***NIET Journal of Management (Annual)***
Editorial Board:
Chief Editor: Shri S. Nagpal
Editor: Dr Dileep Singh

Publication Policy: The research journals at NIET aim to support the scholars working in different fields of engineering and management, devoted to innovation, expertise and novel ideas.

The journals are not enlisted in international database.

3.4.3 Give details of publications by the faculty and students:

- **Publication per faculty:** 2 Papers (Aprrox.)
- **Number of papers published by faculty and students in peer reviewed journals (national / international)**

Number of papers published by faculty and students: 568

- **Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)**

 - Monographs : Nil
 - Chapter in Books : Nil
 - Books Edited : Nil
 - Books with ISBN/ISSN numbers
 - with details of publishers : 12
 - Citation Index : 2897.0
 - SNIP : 50.24
 - SJR : 47.56
 - Impact factor : 305.81
 - h-index : 119.0

- Status as on January 2017

3.4.4 Provide details (if any) of

- **research awards received by the faculty**

| Name of faculty | Award Received |
|--|--|
| Dr Ajay Kumar, Ms Daizy Rajput and Dr Sudhir Kumar | Best Paper Award by Indian Foundry Association, Gandhinagar (Gujarat) in 2014 |

- **recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

Dr S Gairola received prestigious INAE award at Indira Gandhi Atomic Research Center, Kalapakkam, Tamilnadu, in December 2009 for his innovative research.

- **incentives given to faculty for receiving state, national and international recognitions for research contributions**
- NIET encourages the research publication by providing honorarium to those faculty members who publish their research papers in any journal listed in ‘Thomson’s Science Citation Index’ (SCI):
 - First Author: Rs. 4,000/-
 - Second Author: Rs. 3,000/-
 - Third Author: Rs. 1,000/-
- The details of research paper published in SCI Indexed journals in last three years is given below.

| Session | No. of research Papers published in SCI Journals | No. of researchers benefitted | Amount given |
|-----------|--|-------------------------------|--------------|
| 2013-2014 | 32 | 12 | Rs.93000.00 |
| 2014-2015 | 12 | 07 | Rs.33000.00 |
| 2015-2016 | 08 | 03 | Rs.28000.00 |

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

An Institute–Industry Interaction Cell and Incubation Centre have been established centrally, regularly to enhance the industry participation in the academics. The Institute-Industry Interaction Cell interacts with industries to ascertain their needs in case they are needed to be incorporated in the curricula. Besides arranging meetings with industry personnel, every semester the cell explores the possibility of making new technical collaboration. The gap between the industrial requirements and the course curricula is bridged by holding special classes and providing the required teaching to the students.

The Cell also aids in the assessment of students-related industry objectives of the department. The degree to which the objectives are attained is presented in review meetings conducted at the Institute level and proper remedial action is taken in the event of any non accomplishment of set objectives. Every department explores the possibility of its students to undergo in-plant training and to carry out their academic project work in such industries.

Objective of Institute–Industry Interaction Cell:

- To bridge gap between the Institute and the industry

- To arrange expert Professors of eminent personalities
- To enhance inherent skill of faculty by arranging visits to industry
- To develop the skills to make the students placed
- To get acquainted with practical or real world problems
- To get acquainted with industry requirement, process, managerial skill
- To liaise with R&D for knowledge sharing
- To take review of curriculum and suggest the desired inclusion in the syllabus.

The feedbacks provided by our alumni working with many reputed organizations help in campus placements.

The Institute has established Pyramid Finishing School for the proper guidance and training of the students in order to make them ready for the interview and the current demands of employability.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

The Institute has policy of sharing its labs, information resources and faculty expertise for the benefit of society and industries.

Institute has strong policy to encourage faculty members to undertake consultancy projects & assignments on a shared profitability basis.

Some of the experienced faculty members are approved University research guides who help in the field of research to the upcoming researchers.

Consultancy works are very much allowed to carry out in-house with the available equipments in the department.

Periodically the updated literature about the institution has been sent to prospective companies highlighting the latest achievements including the facilities available within the department.

Major areas of expertise are advertised through department homepage in the main college website and also through technical events/programmes, customized e-mails, public aware talks, NIETimes, Newsletter, advertisement through print and electronic media, etc.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

In order to encourage the staff and faculty members to utilize their expertise for consultancy, their academic and administrative work load is reduced during consultancy works. They are also provided with the necessary available equipments to carry out their task smoothly and conveniently.

Each department is motivated to develop the multi disciplinary facilities to address the present needs of both students and industries.

The Institute has also established Patent Facilitation Centre in order to promote the research development and technology commercialization.

Faculty members involved in consultancy are permitted to use college resources. The Institute organizes various programmes on product development, design and research methodology which encourages the staff for consultancy. The Institute deputes the staff for industrial training where they can find the potential for consultancy.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The broad areas include Computer Science & Engg, Mechanical Engg, Electronics Engg, Civil Engg, Chemical Engg and Biotechnology.

| Consultancy Projects | | | | | |
|----------------------|----------------|---|-----------------------------------|---------------------------------|-----------------------------|
| S.No. | Financial Year | Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
| 1 | 2015-16 | 1. Dept. of ME and ECE | TSSC | Skill Development under PMKVY | 750000.00 (awaited) |
| | | 2. Dept. of CSE and IT | Thomson Prometric | Online Examination System | 898323.00 |
| | | 3. Dr P.Pachauri, Dept of Mechanical Engg | Armaan Industries | Fabrication of grippers | 10000.00 |
| | | 4. Dr Ravikant Singh, Dept of Chemical Engg | Sarvottam Institute of Technology | Lab support | 10000.00 |

| | | | | |
|-----|--|--|--|-----------|
| | | and Management | | |
| 5. | Dr. Sanjay Gairola, Dept. of Electrical & Electronics Engg | Sangal Paper Ltd | Electrical Energy Audit of Paper Mill | 40000.00 |
| 6. | Dr Sanjay Gairola, Dept. of Electrical & Electronics Engg | Enertia Sun Power Pvt Ltd | Roof-top Solar Power Plant Design | 80000.00 |
| 7. | Dr P. Pachauri, Dept of Mechanical Engg | Enertia Sun Power Pvt Ltd | Design of steel structures | 80000.00 |
| 8. | Dr Dileep Singh, Dept of Management Studies | Enertia Sun Power Pvt Ltd | Feasibility Study of Solar Energy Utilization | 150000.00 |
| 9. | Dr N.R. Chandak, Dept of Civil Engg | MSY Medical College | Design of structure | 900000.00 |
| 10. | Dr. V.K.Pandey | Synergy Telecom Pvt Ltd | Design of Patch Antenna | 50000.00 |
| 11. | Prof. Vineet Verma | Skydev Software Solution Providing Pvt Ltd | Cloud Analogy | 15000.00 |
| 12. | Lokesh Kachchwa | Bigdrop | Bigdrop | 30000.00 |
| 13. | Dr. Sanjay Gairola | Enertia Sun Power Pvt Ltd | Design of Roof-Top Solar Power Plant for MSY Medial College Lalpur, Meerut | 50000.00 |
| 14. | Dept. Of CSE | Sangal Paper Ltd | Implementation Planning of ERP Software | 60000 |
| 15. | Deptt. Of CSE | Sangal Paper Ltd | Optimization of WiFi Hotspots | 50000.00 |
| 16. | Dept. Of CSE | Sangal Paper Ltd | Implementation of Firewall | 30000.00 |

| | | | | | |
|---|---------|---|-------------------------|--|---------------------|
| | | 17. Dr. Ravikant Singh | Sangal Paper Ltd | Decolorization of paper mill effluent | 80000.00 |
| | | 18. Dr. P. Pachauri | Sangal Paper Ltd | Audit of Maintenance work in powerplant | 40000.00 |
| | | 19. Dr. P. Pachauri | Sangal Paper Ltd | Modification of Waste management system | 70000.00 |
| 2 | 2014-15 | 1. Prof P.Pachauri, Dept of Mechanical Engg | Armaan Industries | Design & Development of Gripper | 38000.00 |
| | | 2. Prof P.Pachauri, Dept of Mechanical Engg | Sangal Paper Ltd | Design of Rollers assembly for paper mill | 30000.00 |
| | | 3. Prof Satyendra Sharma, Dept of ECE | NSDC | Skill Development Programme | 400000.00 (awaited) |
| | | 4. Dept of Civil Engg | MSY Medical College | Water testing | 120000.00 |
| | | 5. Dr. Suryadeo Chaudhary | Synergy Telecom Pvt Ltd | Fractal Antenna Design for WiMAX | 50000.00 |
| | | 6. Prof P.Pachauri, Dept of Mechanical Engg | Sangal Paper Ltd | Fabrication of Rollers assembly for paper mill | 77000.00 |
| | | 7. Dr. Ravikant Singh | Sangal Paper Ltd | Decolorization of paper mill effluent | 93000.00 |
| | | 1.Prof P.Pachauri, Dept of Mechanical Engg | Sangal Paper Ltd | Design and development of rewinder mechanism | 20000.00 |
| 3 | 2013-14 | 2. Prof Satyendra Sharma, Dept of ECE | Ministry of Defence | HOBO Radar | 300000.00 |
| | | 3. Prof P.Pachauri, Dept of Mechanical Engg | Armaan Industries | Design and development of sliding trays | 55000.00 |

| | | | | |
|--|---|-------------------------|-----------------------------------|----------|
| | | Synergy Telecom Pvt Ltd | Patch Antenna for LTE | 50000.00 |
| | 4. Dr. V.K.Pandey 5.Prof P.Pachauri, Dept of Mechanical Engg | Sangal Paper Ltd | Fabrication of rewinder mechanism | 60000.00 |

3.5.4 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

The income generated through consultancy is divided in two parts:

- 40% Institute, 60% Staff

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood- community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- The institute promotes institution-neighbourhood-community network and students' engagement in community services in the following manner:
- Community service through educational drives
- Tree plantation
- Women empowerment programmes
- Marathon (TCS Fit-for-life)
- Life skill seminars & workshops are conducted on regular basis for students & staff to cover topics like decision making, problem solving, lateral thinking, effective communication, interpersonal relationships, etc.
- Self Defense Training for girls
- Save Water & Electricity Awareness programmes
- Cleanliness drive (Swachh Bharat Abhiyan)
- Other social works like distribution of cloths to poor people

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements/activities which promote citizenship roles?

The office of Dean (Students' Welfare) of the Institute organizes various programmes to ensure students' involvement in the social movements and activities. The institute has organized a marathon Fit4Life in collaboration with TCS to raise the awareness regarding fitness. A training programme for self defense of women was organized in association with Aseem Nari Shakti. From time to time the Institute organizes debate programmes on social issues. Through value education, the Institute tries to increase the students' awareness of their responsibilities and rights as well as modern vices, e.g. environmental issues.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

In order to solicit stakeholder perception and the overall performance and quality, the Institute's strategies are as follows:

- Feedback is collected from the students in writing to judge their perception on the overall performance of the teachers, teaching methodology, etc.
- Certain forms and formats have been designed to collect feedback from the stakeholders. This includes Alumni feedback, Graduate exit, Parents feedback, Employers feedback, etc.
- Every year, an Alumni meet is conducted during last week of February in which Alumni feedback is solicited for implementation.
- The feedback collected from recruiting companies is used to overcome shortcomings of the Institution.
- Experts from industry and academia are invited and their feedback is used to improve quality and performance of the Institute.
- From time to time the Institute informs parents about the progress of their wards through letters, phone calls and SMSes.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The office of Dean (Students' Welfare) of the Institute organizes various programmes to ensure students' involvement in the social movements and activities. Budgetary details are as follows:

| Financial Year | Budget | Utilized Amount in Rs. |
|-----------------------|---------------|-------------------------------|
| 2015-2016 | 1800000.00 | 1931500.00 |
| 2014-2015 | 250000.00 | 251906.00 |
| 2013-2014 | 250000.00 | 192697.00 |
| 2012-2013 | 1500000.00 | 1920959.00 |

Following programmes are organized by the Institute:

- Skill development programmes under PMKVY.
- DDU-GKY
- Venture Conclaves
- Community service through educational drives
- Community service through awareness camps
- Tree plantation
- Swachh Bharat Abhiyan

- Women empowerment programmes
- Technical quizzes and contests

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?

- In association with Aseem Nari Shakti, the Institute has organized a self defense programme for women.
- Organizing educational drives & awareness camps through NSS.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The Institute is situated in Knowledge Park, Greater Noida, which is an upcoming knowledge hub and new institutes are coming up and existing institutes are also increasing their infrastructure to cater to the needs of increased intake. Through the survey, the Institute observed the social strata of the laborers' and realized that they are not able to send their kids to school. So the Institute took an initiative to educate the wards of the poor laborers' and their certification from City Vocational Public School. The Institute runs Rainbow School since 2009 for the wards of underprivileged section of the society. Two full time teachers, one mentor, and volunteer students take care of their classes. The Institute provides all required infrastructure, furniture, computers, stationery, uniform and meal.

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The objective of the extension activities organized by the Institute is to raise the social awareness for improvement in the quality of life. The above mentioned extension activities have created and boosted theoretical as well as practical knowledge among the students. Their academic learning is strengthened and made versatile by learning experiences. The extension activities imbibe following among the students:

- Values like social responsibility, fraternity and brotherhood is inculcated
- Develops scientific temper and critical thinking
- Management skills, leadership qualities and decision making abilities are nurtured
- Sensitized to issues of social importance and gender equality

These activities sensitize students towards critical issues concerning the society and environment such as poverty, social injustice, gender bias, pollution evils and the corrective measures to counter them.

Outcome

The participation in various extension activities has resulted in social awareness of students. Following are the outcomes of extension activities:

- Holistic development of the students
- Students can develop lifelong learning skills. They can apply the knowledge to solve the community problems.
- Development of Entrepreneurial skills
- Strong Leadership Skills
- Operation and team management Skills

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The student teams visit nearby villages and make the people aware of the forthcoming events. The Institute organizes several reach out activities and surveys are conducted amongst the local community people to have their suggestions. Communal harmony event is conducted once a year. The Institute always gives importance to teach poor students of the Institute. For which special classes are arranged after the class hours. There is an in-campus school, Rainbow School, for workers' children.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

- NIET has a tie-up with NGO – Aseem Nari Shakti to train the females of the Institute on Self Defense tactics.
- The Institute has also conducted a marathon called Fit-for-Life along with Tata Consultancy Services.
- NIET has organized and sponsored the first “Corporate Premiere League”, a cricket tournament for the corporate world. There were 36 teams from various corporate houses participating in the tournament such as WIPRO, HCL, Radio Mirchi, Mohan Meakins, Indiamart.com, ING Vysay Bank, CVent etc.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

The Chairperson, the Managing Director, the Additional Managing Director, the Executive Vice President and Director of the Institute have been felicitated by various social organizations for their contribution to the society. The Institute has also got recognition for its efforts from

- NIET, Greater Noida was awarded with “India Excellence Award 2017” for its “Best Academic & Placement in U.P” by Shri Prakash Javadekar (Hon’ble Union Minister of HRD, Government of India).
- Assocham, India awarded NIET, Greater Noida as “Best Institute for Academic & Placement in U.P”, 2017.
- NIRF Ranking : Awarded 99th in India by MHRD, Govt. of India, 2015-16
- Awarded as “Great Place to Study” by House of Commons, London(UK), 2015-16
- Times of India awarded NIET as 1st in Greater Noida and 27th in India as Top Private Engineering Institute, 2016
- ASSOCHAM, India awarded NIET, Greater Noida as “Best Technical Institute in U.P”, 2016
- ASSOCHAM, India awarded NIET, Greater Noida as “Best Institute of Innovative Education & Placement”, 2016
- WCRC awarded NIET, Greater Noida as “Best Engineering Institute for Outstanding Placement”, 2015-16
- TCS Sparsh awarded NIET, Greater Noida with “Highest Participation of Students” in “TCS Flagship Contest”, 2016
- Awarded as “Visionary Minds” by Aspiring Minds, 2015-16; 2014-15
- “Outstanding Institution Award” 2014-15 by NITTTR
- Awarded “Leading Institution in Skill Development and Placement” by Times of India
- Awarded “Asia’s Best & Fastest Growing Education Institute in Asia” by WCRC Leaders at Singapore, 2014-15
- Awarded “Best Institute for Excellence in Education” by Times India Survey, 2015
- Got TCS Award, twice for doing maximum a Aspire registrations

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The Institution collaborates and interacts with research laboratories, institutes and industry for research activities in the following ways:

- MoUs signed with 40 companies for research and consultancy
- Tie-ups with industries for Industrial visits, guest lectures, workshops, etc.
- Collaboration with IIT Delhi for virtual lab experiments
- The Institute is Microsoft Ed-Vantage Platinum Partner

Example & benefits occurred:

Benefits:

- Students got practical exposure

- Our students take-up their industry problems in the form of minor and major projects to bridged the gap between industry and academia.

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The Institution has signed many MoUs for training and development of students, guest lectures, participation in technical events etc. Some of the important organizations with which MoUs have been signed are as follows:

| S.No. | Company Name | Located at | Date Of MoU | Tenure of MoU |
|-------|--|---------------|-------------|---------------|
| 1. | Ava Hanfab Pvt. Ltd. | Meerut | 25.07.2015 | 2 years |
| 2. | Viraj Automobiles Pvt. Ltd. | Noida | 23.07.2014 | 2 years |
| 3. | Dev Priya Industries Ltd. | Meerut | 30.07.2014 | 2 years |
| 4. | Kadambari Auto Parts Pvt. Ltd. | Greater Noida | 07.08.2014 | 2 years |
| 5. | CoreEmbedded Technologies Pvt. Ltd. | Noida | 30.07.2014 | 1 year |
| 6. | Anand Allied Industries | Ghaziabad | 23.08.2014 | 2 years |
| 7. | Armaan Machinary & Engineering | Greater Noida | 25.08.2014 | 2 years |
| 8. | B-Earth and Spire India Pvt. Ltd. | New Delhi | 29.08.2014 | 2 years |
| 9. | Chamunda Papers Private Ltd. | Delhi | 27.08.2014 | 2 years |
| 10. | Sakar India Pvt. Ltd. | New Delhi | 09.09.2014 | 2 years |
| 11 | NSB BPO (NCF) NSB Career Foundation | Noida | 09.09.2014 | 2 years |
| 12 | STG Heating Pvt. Ltd. | Delhi | 2016 | 2 years |
| 13 | Kunj Forgings Pvt. Ltd. | Ghaziabad | 21.07.2016 | 2 years |
| 14 | Shyam Forgings Pvt. Ltd. | G.B.Nagar | 21.07.2016 | 2 years |
| 15 | Codon Biotech Private Ltd. | Noida | 12.07.2016 | 2 years |
| 16 | 3st Technologies Pvt. Ltd. | Noida | 05.11.2016 | 2 years |
| 17 | Institute for Industrial Research & Toxicology | Ghaziabad | 16.09.2016 | 2 years |
| 18 | Virtual Lab, IIT, Delhi | Delhi | 2014 | - |
| 19 | Monkfox (A unit of Glia Services Pvt. Ltd.) | Bengaluru | 2015 | |
| 20 | Aspiring Minds Assesment Pvt. Ltd. | Delhi | 2016-2017 | 1 year |
| 21 | AKSS Consulting Services Pvt. Ltd. (NIET-TBI) | Greater Noida | | |
| 22 | SolidTeam Consultancy | Bengaluru | 2016-2017 | 1 year |
| 23 | Microsoft Inc. | USA | 2016-2017 | 1 year |
| 24 | PTC | Bengaluru | 2016-2017 | 1 year |
| 25 | Cisco | Gurugram | 2016-2017 | 1 year |
| 26 | CARDEA LABS | Bengaluru | 2016 | 2 years |

| | | | | |
|----|---|--------------------------|-----------|---------|
| 27 | APS GmbH | Indo-Euro Sync., Germany | 2016 | 3 years |
| 28 | SkillTree Global Knowledge Consortium Pvt. Ltd. | Delhi | 2016 | 1 year |
| 29 | EMC ² | Delhi | 2016 | 3 year |
| 30 | TSSC, Govt. of India | Delhi | | |
| 31 | GlobalAssessment of Information Technology (GAIT) | Japan | 2016 | 1 year |
| 32 | Monster India | Noida | 2015 | 1 year |
| 33 | Nicco Ventures | Kolkata | 2016-2017 | 1 year |
| 34 | Talent Grids | Bengaluru | 2016-2017 | 1 year |
| 35 | ICICI Direct | Delhi | 2016 | 1 year |

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

The Institute has organized various programmes, training workshops, industrial visits, which resulted in better placement of the students. The Institute has collaborated with various organizations for the same. Some programmes are listed below:

| Activities of placement cell (Batch 2015) | | |
|--|---|---|
| a) | Mock interview/ Technical interview/ HR interview | 440 Hours (B.Tech), 80 Hours (MBA/PGDM) |
| b) | Career guidance workshop | 40 Hours (B.Tech), 80 Hours (MBA/PGDM) |
| c) | Personality development programmes | 520 Hours (B.Tech), 80 Hours (MBA/PGDM) |
| d) | Industrial visits | Maruti (2014 and 2015 ME Students) |
| e) | Industrial training | Barco (MBA Students) Ashlar (MBA Students) |

Photographs of few training events:



In addition to the above mentioned the Institute has established various test centers and laboratories in collaboration with various companies/organizations.

The list of certifications is as follows:

| S. No. | Certification/Test center/Laboratories established | Name of the organization |
|---------------|---|---------------------------------|
| 1 | Microsoft Innovation center (Microsoft Ed-Vantage) | Microsoft Inc |
| 2 | Six Sigma Certification | KPMG |
| 3 | Prometric test Center | Thomson Prometric |
| 4 | ICICI Direct Certification | ICICI Pvt. Ltd. |
| 5 | Pearson Test Center | Pearson VUE |
| 6 | Center of Competence | PTC |
| 7 | Apple advanced application development center | Apple Corp. |
| 8 | Microsoft Cloud Campus | Microsoft |
| 9 | Cloud Computing Lab | IOTA Cell |
| 10 | Internet of Thing(IOT) using Raspberry Pi | IOTA Cell |
| 11 | Mobile Application Development on Android Platform | IOTA Cell |
| 12 | Big Data | IOTA Cell |
| 13 | Product Design and 3D Printing | IOTA Cell |
| 14 | Embedded Systems | IOTA Cell |

| | | |
|----|---------------------------------------|--|
| 15 | Clinical Research and Bio-Informatics | Simulanis Solutions Pvt. Ltd. |
| 16 | Virtual Robotics Lab | Indo-Euro Sync/Applied Robotics Control Lab, Germany |
| 17 | MiBeat Lab | CARDEA LABS |

3.7.4 Highlighting the names of eminent scientists/ participants who contributed to the events, provide details of national and international conferences organized by the college the last four years.

The names of eminent scientists/participants are as follows:

| S. No. | Name of Professor/ eminent scientists/ Participants | Details of the programmes | Year |
|--------|--|---|------|
| 1 | Shri Veer Bhadra Singh, Cabinet Minister, MSME, Govt. of India | Skill Development Sensitization Programme | 2012 |
| 2 | Dr Ved Prakash, Chairman, UGC, MHRD, Govt. of India | | |
| 3 | Dr S S Mantha, Chairman, AICTE, MHRD, Govt. of India | | 2012 |
| 4 | Shri Ashok Singh, Chairman, CBWE, Ministry of Labour, Govt. of India | | 2012 |
| 5 | Shri Azam Khan, Cabinet Minister, UP Govt. | Placement Felicitation Ceremony | 2013 |
| 6 | Sri T.K.A. Nair, IAS, Advisor to Hon'ble Prime Minister of India | National Seminar on entrepreneurial Development | |
| 7 | Padamshri Prof V. S. Chauhan, Director, International Centre for Genetic Engineering and Biotechnology | National Seminar on entrepreneurial Development | |
| 8 | Prof Moinuddin, Former Pro Vice-Chancellor, Delhi Technical University | National Seminar on entrepreneurial Development | |

| | | | |
|----|--|---|------------|
| 9 | Shri. Venkatesh Sarvasiddhi, Head-Academic Programs & Initiatives, Microsoft India | National Seminar on entrepreneurial Development | |
| 10 | Prof. R.K. Khandal, VC, UPTU, Lucknow | Placement Sensitization Programme | 2013, 2014 |
| 11 | Shri D K Mittal, IAS, Secretary, Govt. of India | National Conference NCES-2013 | 2013 |
| 12 | Dr. R. S. Nirjar, Former Vice-Chancellor, Gautam Buddha University, Greater Noida | An International conference and exhibition on CETCME-2015 | 2015 |
| | | Organized on 21-22 March, 2015 | 2015 |
| 13 | Dr. Sarvesh Swarup, Former DDG, Ministry of Commerce and Industry, Govt. of India | Expert Lecture in civil department | 2013, 2015 |
| 14 | Dr. Sujit Kumar Saran, Principal Scientist, CBRI, Roorkee | National Conference RTEE | 2012 |
| 15 | Prof. Mehtab Alam, Jamia Millia Islamia, New Delhi | National Conference RTEE | 2012 |
| 16 | Prof S K Kak, VC, MTU, Noida | National Conference RTEE-2012 | 2012 |
| 17 | Prof. Pradeep Kumar, VC, DTU Delhi | An International conference and exhibition on CETCME-2015 Organized on 21-22 March, 2015 | 2015 |
| 18 | Dr. R. K. Mishra, Gautam Buddha University, Greater. Noida | An International conference and exhibition on CETCME-2015 Organized on 21-22 March, 2015 | 2015 |
| 19 | Prof. R. S. Nirjar, Ex. VC Gautam Buddha University, Gr. Noida | An International conference and exhibition on CETCME-2015 | 2015 |
| 20 | Dr. A. K. Gautam, GBPEC, Pauri Garhwal | Organized on 21-22 March, 2015 | 2015 |

| | | | |
|----|--|---|------|
| 21 | Dr. A. K. Singh, NIT Kurukshetra | | 2014 |
| 22 | Dr. Satyakesh Dubey, NPL, New Delhi | A National Conference On Research And Innovations In Electronics And Communication Engineering RIECE-2K14 organized on 10-11 October 2014 | |
| 23 | Mr. Nitin Bajaj, Account Director, TCS | | |
| 24 | Prof. Brahmjit Singh, NIT Kurukshetra | | |
| 25 | Prof. Mirkender Kumar, IIT BHU, Varanasi | | |
| 26 | Prof. Kunal Singh, IIT BHU, Varanasi | | |
| 27 | Prof. Surbhi Singh, G.B. Pant Engg. College, Pauri Garhwal | | |
| 28 | Prof. Sumit Kushwaha, KNIT, Sultanpur | | |
| 29 | Prof. Hemant Kumar, IIT BHU, Varanasi | | |
| 30 | Prof. Naina Narang, CSIR, NPL, New Delhi | | |
| 31 | Dr. A. K. Sharma, IIT Roorkee | QIP on Advances in Mechanical Engg (14th & 15th May, 2014) | 2014 |
| 32 | Dr. Akshay Dvivedi, IIT Roorkee | | |
| 33 | Dr. P. K. Jain, Prof. IIT Roorkee | | |
| 34 | Dr. Hari Singh, Prof. NIT Kurukshetra | | |
| 35 | Mr. Dalip Singh, President, AEE, Delhi | Expert lecture on Energy Audit and Management | 2016 |
| 36 | Prof. D. Haan, Germany | Inauguration of Advance Robotics Lab | 2016 |
| 37 | Dr. R.K Mishra, GBU, Gr. Noida | MSMES-2016, STTP | 2016 |
| 38 | Dr. RamjiLal, Prof. IIT Delhi | MSMES-2016, STTP | 2016 |
| 39 | Dr. VikasRastogi, Professor, MED, DTU Delhi | MSMES-2016, STTP | 2016 |

| | | | |
|----|---|---|------------|
| 40 | Dr. H.K Sahjwani | Workshop on Entrepreneurship Prospects in Solar Energy | 2016 |
| 41 | Er. Mitesh Kumar | Workshop on Basics of Welding | 2016 |
| 42 | Prof. N. Rajesh, Bangalore | Expert Lecture on Composite Materials | 2016 |
| 43 | Mr. Raman Talwar, CEO, Simulanis Solution Pvt. Ltd, Delhi | Summer Training on Modelling & Simulation | 2015, 2016 |
| 44 | Mr. Neeraj Chauhan, Trainer, Simulanis Solution Pvt. Ltd, Delhi | Summer Training on Modeling & Simulation | 2015, 2016 |
| 45 | Dr. B.N. Mishra, Professor & Head, Department of Biotechnology, IET, Lucknow | Curriculum Development Workshop for B.Tech. Biotechnology | 2016 |
| 46 | Dr. Chaitale Ganguly, Director, CET-IILM, Greater Noida | Curriculum Development Workshop for B.Tech. Biotechnology | |
| 47 | Dr. Meenu Singh, Professor & Head, Department of Biotechnology, CET-IILM, Greater Noida | Curriculum Development Workshop for B.Tech. Biotechnology | |
| 48 | Dr. Ajay Kumar Sharma, Professor & Head, Department of Biotechnology, MIET, Meerut | Curriculum Development Workshop for B.Tech. Biotechnology | 2016 |
| 49 | Dr. Tripti Bhatnagar, Managing Director, Codon Biotech Pvt. Ltd, Noida | Curriculum Development Workshop for B.Tech. Biotechnology | |
| 50 | Dr. K. K. Gaur, Director, Mangalmay Group of Institutions, Greater Noida | Curriculum Development Workshop for B.Tech. Biotechnology | |
| 51 | Dr. Savita Chaurasia, Professor, IMS Engineering College, Ghaziabad | Curriculum Development Workshop for B.Tech. Biotechnology | |

| | | | |
|----|---|---|--|
| 52 | Dr. S. P. Dwivedi, Professor, IFTM University, Moradabad | Curriculum Development Workshop for B.Tech. Biotechnology | |
| 53 | Dr. Vinay Dwivedi, Direcor, IIMT, Meerut | Curriculum Development Workshop for B.Tech. Biotechnology | |

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated -

- a) Curriculum development/enrichment
- b) Internship/ On-the-job training
- c) Summer placemen
- d) Faculty exchange and professional development
- e) Research
- f) Consultancy
- g) Extension
- h) Publication
- i) Student Placement
- j) Twinning programmes
- k) Introduction of new courses
- l) Student exchange
- m) Any other

The linkages/collaborations that have actually resulted in 32 formal MoUs and agreements.

a) Curriculum development/enrichment

NIET is an affiliated institute and hence cannot change the curriculum of the University; however, the Institute has adopted some enrichment programmes under PFS to benefit its students (viz. POTAS, Elenze, special training programs to meet the needs of industry like TCS, Murugappa Group, etc)

b) Internship/On-the-job training

Proper contacts with industries and organizations are maintained to ensure in-plant training and internship opportunities to the students of the various programs. NIET has a tie-up with LetsIntern (www.letsintern.com) to provide the internship opportunities to the students.

c) Summer placement

The students of MBA are given opportunity for summer placement through letsintern.

d) Faculty exchange and professional Development:

Faculty from the Institute are invited for expert lectures and training in various academic and industrial institutions. For example:

- Prof Bharat Bhargava from Purdue University, USA, and Prof. Mark Dixon, Plymouth

University and many professors from premier institutes of India visited NIET and delivered professional talks.

- Mr H S Pali from Mechanical Engineering, NIET, visited Nigeria for research work on Biodiesel fuel development and some other professors of the Institute also visited other institutes to share their expertise.

e) Research

The M.Tech students of the Institute visit the reputed industries for their dissertation work. For example the students had undergone their research work in ST Microelectronics, Sunstar Precision Forge Ltd., etc.

f) Consultancy

All the departments are involved in consultancy work with many nearby industries.

g) Extension

Various labs/excellence centers have been developed in collaboration with many organizations such as PTC Competence Center, 3D Printing, Internet of Things Lab, Cloud Computing, Modeling and Simulation Lab for chemical plant design, Robotics Lab, MiBeat Lab, etc.

Besides, NIET also has sister concerns under the names of Wizman Technological Services and Ingevgs to cater to the modern technology needs of the students & researchers.

h) Publication

Many students and faculty members have published their research papers in collaboration with people working in other reputed organizations.

i) Student Placement

- We start training our students 2nd Semester onwards itself under Pyramid Fishing School. Further, we have a tie-up with 'Aspiring Minds' who in the beginning of 5th semester assess each student by conducting a test comprising of aptitude and technical questions. This feedback is used as a critical input for categorizing the students and for drawing student specific development plan. With the help of the score, we rank and categorize the students into A, B and C groups. 'A' comprises those students who are good and have a high probability to be placed, 'B' comprises average students and 'C' comprises students who are still not upto the mark and need to be worked hard upon. Thereafter, we customize our curriculum for these three groups and conduct regular workshops 2 hours per week, since then. Student specific feedback is made available to the trainers to be able to modulate and guide the students according to their need. The 'A' group is exposed to advanced technical knowledge (through special classes) over and above their university curriculum, 'B' group is made to emphasize on the curriculum and 'C' is made to work upon their basic concepts. Once the student reaches the 7th semester, well coordinated workshops are organized to prepare them to face placement process. This is where they are made to hone their communication skills, body language, overall personality, aptitude, work place skills and corporate etiquette. We regularly conduct mock interviews internally and at times through specially invited industry leaders as per the different formats of the placement drive.

- To take it further we have recently started Japanese Language Classes for students to cater to the manpower needs of Nokia Siemens, Fujitsu India, TCS etc. We have hired a full time

trainer, who is working under the guidance of Japan Foundation, New Delhi. We have started teaching our students from 2nd semester onwards under Japanese Language Labs for making them employable with Japanese ventures in India.

- Professional student counselors are hired who interact with each and every student to keep them motivated thus resulting in a ‘wholesome’ employable product, all set to face the willing recruiters. The presentations and interviews given by students are video recorded so that relevant feedback can be provided to each student based on his/her performance, enabling them to overcome their shortcomings.
- Our rigorous efforts have resulted in NIET becoming the highest placement provider in the region for consecutively 4 years.

j) Twinning programmes

Plymouth
University, Mersion
Tie-up

k) Introduction of new courses

NIL

l) Student exchange

NIL

m) Any other

-

3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations.

The Institute maintains a separate ‘Projects & Planning’ department for proper planning, establishing and implementing the initiatives of the linkages and collaborations. The Institute has established various cells under this department for the development of industrial linkages, collaborations and Industry Institute partnership. The Institute has established many linkages/collaborations with various industries and research institutes to train the students and the faculty members. Following steps have been taken under the collaborative efforts:

- Inviting Experts from various divisions of industry to deliver guest lectures and to give key note address in conferences, workshops and symposiums. The institute organized leadership programs for transformation of senior leaders from time to time.
- Conducting joint technical programs and events with other organizations.
- Establishing Industry-Institute Interaction cell in the department and conducting periodical meetings
- MoUs with various organizations to establish the linkages/collaborations for academic and research activities
- Establishing new labs for latest technological training & research
- Technology Business Incubator

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

The institute is an Authorized training partner with Telecom Sector Skill Council (TSSC) NSDC, PMKY and DDU-GKY, Govt. of India for training programmes in Skill development.

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The Institution has a well-defined policy to provide good infrastructural facilities for ensuring academic excellence, inline with the norms and guidelines of AICTE. To facilitate quality education to the students, the Institute's policy for infrastructure focuses on:

- To develop state-of-the-art infrastructural facilities as per need of academia
- To meet the requirement of research & development activities
- To upgrade classrooms, seminar halls, conference halls, laboratories, faculty chambers, etc.
- To provide basic amenities to all personnel
- To ensure accessibility of modern tools like internet, virtual labs, ICT, etc.
- To provide safety and security to all
- To develop facilities for achieving 100 % result and placement
- To create pleasant and conducive environment for education
- Greenary campus
- Well ventilated classrooms with adequate power and lighting

4.1.2 Detail the facilities available for

A) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The Institute regularly conducts a number of technical events for the benefit of both students and staff. Each engineering department with the help of its associations regularly conducts technical symposia. To enhance the technical skills of the students and the faculty members and to make them aware of new industrial and academics trends, the Institute conducts techfest, seminars, workshops, conferences, etc. To exhibit new ideas and innovations of students, the Institute conducts a PROJECT EXPO every year. The technical event includes activities such as technical quizzes, debates on technical topics, robotics competition, technical drawing etc.

Class Rooms

College has spacious classrooms with proper sitting arrangements. Every classroom is equipped with LCD projector.

Technology-Enabled Learning Facilities available are:

- Smart classes
- NPTEL membership

- Microsoft Innovation Centre
- Microsoft Cloud Campus
- PTC Centre of Competence
- Cisco Network Academy
- Amazon Web Services Educate
- iOS Apple University Partner
- Internet of Thing(IOT) using Raspberry Pi Lab
- Mobile Application Development on Android Platform
- Big Data Lab
- Product Design and 3D Printing Lab
- Embedded Systems
- Clinical Research & Bio-Informatics
- Robotics Lab
- CARDEA MiBeat Lab
- Virtual Labs
- Wi-Fi

Tutorial Rooms

Tutorial rooms are available in each department for special WSDP classes for weak and needy students.

Laboratories/Workshops

The Institute has well equipped laboratories and workshops which are utilized for practical work and also for students' projects.

Seminar Hall /Auditorium

The Institute has a well-equipped central auditorium to accommodate 1000 persons at a time. Apart from it each department has its own seminar hall to conduct various events like seminars, guest lectures, workshops, symposia, meetings.

Career Management Cell (CMC) and Pyramid Finishing School (PFS)

The Institute has well equipped CMC and PFS for the career growth of the students. NIET manages separate infrastructure for organizing training & placement activities.

1. Dedicated 18000 sq. ft. area with complete corporate facilities
2. Auditorium of 1000 seating capacity
3. 4 live rooms with audio/visual facility
4. 15 Interview Cabins
5. 2 Round Table Group Discussion rooms
6. 1 conference room with Video Conferencing facility
7. 1 waiting lounge
8. Computer Labs with more than 1500 computers connected to Internet / LAN & WiFi
9. Seating capacity of whole college is 2600 students for written examinations

10. Tie-ups with Hotels like Stellar Gymkhana, Formule 1, Jaypee Greens, Radisson Blu, etc for best-in-class hospitality for the recruiters
11. 4 luxury cars for smooth, safe & hassle free pick & drop of officials
12. State-of-the-art Reprographic Facility
13. Etiquette Lab
14. Yoga Room
15. Complete WiFi Campus
16. Various advanced labs like Cloud Computing, Android Application, Big Data, etc.

B) Extra –curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.

The Institute encourages and facilitates students to participate in different extra-curricular activities like sports, cultural events, debates, yoga classes etc. The office of Dean, Students Welfare looks after all cultural, sports and extra-curricular activities of the Institute.

Sports

In sports, the Institute provides facilities for both indoor and outdoor games to the students. A large number of sports activities are organized helping the students display their talent in sports activities. Our students have shown their potential in various inter-college, interstate events.

Outdoor Games

A sprawling play ground is available for outdoor games like cricket, football, volleyball, basketball, etc.

Indoor Games

Facilities for the indoor games like table tennis, chess, carom, etc. are provided to the students. Yoga and meditation classes are also regularly organized by the Institute.

Cultural Activities

Every year the college organizes Annual Day, Orientation Day, Fresher's Function, Alumni Meet and Farewell Function, in which students exhibit their talents. Apart from these the Institute regularly organizes various competitions like painting (canvas, face & t-shirt), singing, dancing, photography, etc.

Personality Development Programmes

To groom the personality of the students, the Institute organizes various events like paper presentation, power point presentation, debate, group discussion, etc. Apart from it, special classes are held to improve the communication skills of the students.

Gymnasium

The institution has a central **gymnasium** in college campus where registered students and faculty members do workout to maintain their fitness.

Auditorium

One central auditorium to accommodate 1000 persons at a time and another auditorium has capacity of 350 persons.

National Service Scheme (NSS)

The National Service Scheme (NSS) is an Indian government-sponsored public service program conducted by the Ministry of Youth Affairs and Sports, Government. Institute has a fully functional NSS office under the Programme officer Mr. Annul Kumar. There are about 100 student volunteer (65Boys and 35 Girls). The following activities have been conducted under the umbrella of NSS unit of NIET -

- Village adoption (Nawada, G. B. Nagar)
- Tree Plantation
- Educational Drive
- Swachh Bharat Abhiyan

Hygiene

- Purified RO drinking water (3500 Ltr/Hr)
- Water coolers
- Clean and sanitized Washrooms on all floors
- Pest control and mosquito repellent

Health

- A full time doctor and nurse work in institute's OPD
- Ambulance to carry patients
- Tie-ups with Kailash and Yatharth Hospitals
- Institute conducts yoga & meditation sessions at regular intervals

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The Institute organizes regular meetings of Internal Academic Council comprising MD, AMD, Executive Vice-President, Director General, Directors, Deans, and HODs to assess the infrastructural needs of each department. The required facilities and infrastructure are taken care of by the department of Projects and Planning on turnkey basis. The infrastructural needs to cater to the long term vision of the Institute are discussed in the Governing Body meeting and the funds are allocated to fulfill the needs.

The Institute ensures to develop the infrastructure and facilities as per the AICTE/PCI norms. Apart from the adequate availability of good infrastructure, the Institute continuously plans expansions or additional requirements that may be needed with the passage of time to promote a

good teaching-learning environment. For example, a new academic block is constructed to meet the demand of classrooms, labs, library, seminar room, research work, etc.

| Year | Facility Developed | Amount (Rs) |
|-------------|--|--------------------|
| 2015-16 | | 45138753.00 |
| 2014-15 | Class rooms, tutorial rooms, seminar halls, laboratories, computers, bus, car, | 71058969.00 |
| 2013-14 | refrigerator, furniture, fire fighting equipments, lab equipments etc | 52674024.00 |
| 2012-13 | | 85418399.00 |

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The Institute ensures that infrastructure facilities are made available to students with physical disabilities. The Institute has made availability of wheel chairs. The ramp has been made for the movement of wheel chair. The Institute has lift in each block to facilitate physically disabled students. As far as possible the classes of such students are arranged on ground floor. A separate washroom is built on ground floor for differently abled students.

4.1.5 Give details on the residential facility and various provisions available within them:

- **Hostel Facility – Accommodation available**
- **Recreational facilities, gymnasium, yoga center, etc.**
- **Computer facility including access to internet in hostel**
- **Facilities for medical emergencies**
- **Library facility in the hostels**
- **Internet and Wi-Fi facility**
- **Recreational facility-common room with audio-visual equipments**
- **Available residential facility for the staff and occupancy Constant supply of safe drinking water**
- **Security**
- **Hostel Facility-Accommodation available**
 - The Institute provides well furnished hostel accommodation to its students. The Institute has total four hostels, one for girls and three for boys.
- **Recreational facilities, gymnasium, yoga center, etc**
 - One well equipped gymnasium
 - Indoor and outdoor games facilities (e.g. cricket, football, basketball, table tennis, badminton, carom, etc.)
 - Yoga and Meditation facility

- **Computer facility including access to internet in hostel**
 - Wi-Fi Campus with Reliance Jio Hotspot
 - Computers with Wi-Fi and LAN connectivity in both girls and boys hostels
- **Facilities for medical emergencies**
 - Full time doctor and nurse
 - First aid boxes at different locations
 - Ambulance
 - Collaboration with Yatharth and Kailash hospitals
- **Library facility in the hostels**
 - For hostel inmates the Central library is kept open after college hours till 10 PM and on holidays the library facilities can be availed from 9:30 AM to 5 PM.
- **Internet and Wi-Fi facility**
 - There is 24 hours Internet and Wi-Fi facility with a speed up to 110 Mbps
- **Recreational facility: common room with audio-visual equipments**
 - Every hostel has one common room fitted with one LCD TV with DTH connection.
 - Newspapers and magazines are also provided in the hostels.
- **Available residential facility for the staff and occupancy**
 - The Institute provides residential accommodation to teaching and non teaching staff. There are 47 employees using residential facilities on the campus.
- **Constant supply of safe drinking water is made available through**
 - RO plant
 - Water coolers
 - Borewell
- **Security and Fire safety equipment present are:**
 - Well trained security personnel hired from private security service
 - CCTV camera at all important locations
 - Fire extinguishers
 - Water supply and hose reels on every floor

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

A health care center is available within the campus in which full time doctor and nurse have been employed to attend the medical emergencies of both students and staff. A first aid box is available in each hostel. The Institute has tie-ups with two multi specialty hospitals (Yatharth

Hospital & Kailash Hospital) for students and staff members. The institute has a medical insurance policy for its employees as well as students. To maintain the fitness of its employees and students the Institute has a well equipped gymnasium on the campus. Yoga and meditation trainers provide regular sessions.

4.1.7 Give details of the Common Facilities available on the campus spaces for special units like IQAC, Grievance Redressal unit, Women's Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

The Institute has clearly marked space for the common facilities available on the campus. These facilities include IQAC (Internal Quality Assurance Cell), Grievance Redressal unit, Women's Cell, Counseling and Career Guidance cell, Placement Unit, Health Centre, Canteen, recreational space for staff and students, safe drinking water facility, and provision of auditorium etc.

The details of such facilities are here under:

| S. No. | UNIT | LOCATION |
|--------|------------------------------------|---|
| 1 | Career Management Cell | A-Block 1 st Floor |
| 2 | Students Welfare | B-Block 1 st Floor |
| 3 | Proctorial Board | B-Block 1 st Floor |
| 4 | Health Centre | C-Block Ground Floor |
| 5 | Central Canteen Nescafé Amul | New Block GF & Plot No-14 College Campus College Campus |
| 6 | Auditorium | B-Block 1 st & 2 nd Floor |
| 7 | Recreational facilities | B-Block 1 st floor and common rooms |
| 8 | Research and Development | Within each Department |
| 9 | Woman Grievance Redressal Cell | B Block 3 rd Floor |
| 10 | Bank & ATM | College Campus |
| 11 | Sports and Games | Central facility |
| 12 | Academic Monitoring Cell | A-Block |
| 13 | Drinking water | Each Floor of Every Block |
| 14 | Generator Unit | College Campus |
| 15 | Reprographic facility | Photocopy shop, Library, Exam cell, Registrar office |
| 16 | Gymnasium | In Campus |
| 17 | Reading-Room | 1 st Floor, Block-E |

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/ user friendly?

‘Yes’. The members of committee are as follows:

- | | |
|------------------------------|----------------------------------|
| 1. Dr. Dileep Singh | Professor & Incharge-cum-Advisor |
| 2. Mr. Abdul Khalid | Asst. Professor, CSE |
| 3. Mr. Anant Prakash Agrawal | Asst. Professor, ME |
| 4. Mr. Ankit Kumar | Asst. Professor, Biotech |
| 5. Mr. Rishi Singhal | Asst. Professor, EN |

Following recommendations of the Advisory Committee have been implemented:

- To increase the working hours of the library
- Quick procurement of books recommended by library
- To organise book fair at least once a year
- Modern and updated devices for e-library
- To inform everyone about major happenings (news clips) through ERP
- Digital library
- OPEC
- Circulation and return of books using ERP
- Availability of Photocopier machine

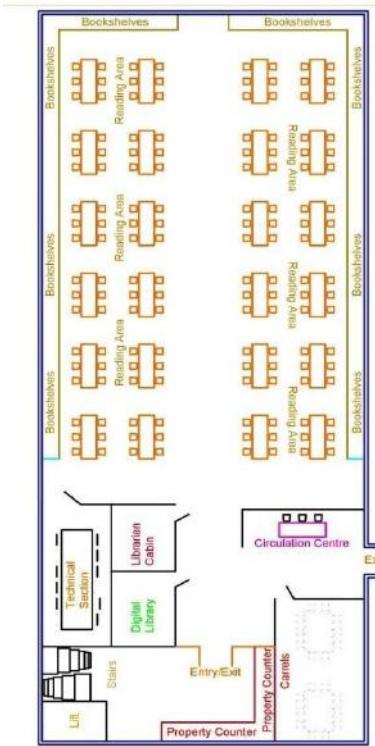
4.2.2 Provide details of the following:

- **Total area of the library (in Sq. Mts.)**
- **Total seating capacity**
- **Working hours (on working days, on holidays, before examination days, during examination days, during vacation)**
- **Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**
- Total area of the library: 1873 sqm
- Total seating capacity: 270 seating capacity
- Working hours
 - Working days: 09:30 AM to 10:00 PM
 - Holidays: 09:30 AM to 05:00 PM
 - Before examination days: 09:30 AM to 10:00 PM
 - During examination: 08:45 AM to 10:00 PM
- Layout of the Library
 - Individual reading carrels : Yes
 - Reading section : Yes
 - Lounge area for browsing and relaxed reading : Yes
 - IT zone for accessing e-resources : Yes

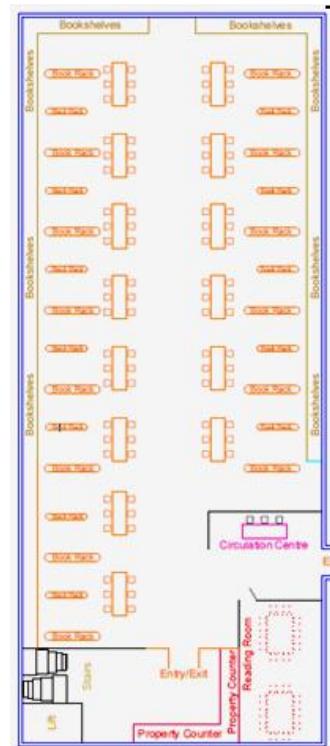
| | |
|--|-------|
| Course-wise Text book and Reference sections | : Yes |
| Periodical section with project reports | : Yes |
| Fiction and non-fiction | : Yes |
| Librarian office and staff desk | : Yes |
| Circulation counter | : Yes |
| Baggage counter | : Yes |

Layout of Library:

First Floor



Second Floor



4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The Library works to procure relevant books, journals, online and offline information sources to support all the courses offered in the Institute. The library use following methods for purchasing new titles or journals:

- The library procures the books and periodicals which are duly recommended by teachers through Requisition Form

- The Institute organizes book fair before every semester and teachers select titles and recommend to library
- The libraries also purchase books, journals and magazines on suggestions and request made by students

The amount spent for library resources in last four years:

| Library Holding | Year (2012-13) | | Year (2013-14) | | Year (2014-15) | | Year (2015-16) | |
|-----------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | Number | Total cost (Rs) |
| Text Books | 8896 | 2544170.00 | 10007 | 2943202.00 | 6687 | 2247219.00 | 7091 | 2519177.00 |
| Reference Books | 2361 | 452198.00 | 908 | 258812.00 | 1139 | 464722.00 | 1122 | 55792.00 |
| Journals/ Periodicals | 47 | 37831.00 | 209 | 383669.00 | 209 | 334152.00 | 209 | 508023.00 |
| e-resources | 10 database | 1133145.00 | 10 database | 1589431.00 | 10 database | 1319753.00 | 10 database | 2024003.00 |
| Any other | - | - | - | - | - | - | - | - |

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- * **OPAC**
- * **Electronic Resource Management package for e-journals**
- * **Federated searching tools to search articles in multiple database**
- * **Library Website**
- * **In-house/remote access to e-publications**
- * **Library automation**
- * **Total number of computers for public access**
- * **Total numbers of printers for public access**
- * **Internet band width/ speed**
- * **Institutional Repository**
- * **Content management system for e-learning**
- * **Participation in Resource sharing networks/consortia (like Inflibnet)**

Our Institute has 10 databases:

| S.No. | Database Name | Subject Name | Website Name |
|-------|----------------------|---|---|
| 1. | IEEE | Computer Engineering +EEE+ Telecomm. | http://www.ieee.org/ieeexplore |
| 2. | Springer | Electrical and Electronics and computer Science | www.springerlink.com |
| 3. | Springer | Mechanical Engineering | www.springerlink.com |
| 4. | Wiley Black well | Civil Engineering | www.wileyonlinelibrary.com |
| 5. | McGraw Hill | Access Engineering Library | (http://accessengineeringlibrary.com) |
| 6. | J-Gate | Engineering | http://www.jgate.in |
| 7. | Elsevier | Science Direct | www.sciencedirect.com |
| 8. | ASTM Digital Library | Dictionary of Engineering (E-Books, Article) | http://enterprise.astm.org/ |
| 9. | J-Gate | Management | http://www.jgate.in |
| 10. | ProQuest | Management | 5.1.1 |

- **Federated searching tools to search articles in multiple databases** : Yes
- **Library website** : No
- **In house/ Remote access to e-publication** : Yes
- **Library automation:** ‘Yes’, our Institute has ERP automated system for library
- **Total number of computers for public access** : 18 computer Systems
- **Total number of printer for public access** : 01
- **Internet bandwidth/speed** : 110 Mbps
- **Institutional repository** : Yes
- **Content management system for e-learning** : Yes
- **Participation in resource sharing networks/consortium** : Yes -DELNET

4.2.5 Provide details on the following items:

- * **Average number of walk-ins**
- * **Average number of books issued/returned**
- * **Ratio of library books to students enrolled**
- * **Average number of books added during last three years**
- * **Average number of login to opac (OPAC)**
- * **Average number of login to e-resources**
- * **Average number of e-resources downloaded/printed**
- * **Number of information literacy trainings organized**
- * **Details of “weeding out” of books and other materials**
- * **Average number of walk-ins:**

During working days average : 300
During Holidays : 100

- * **Average number of books issued/returned:** Issued/returned: 200
- * **Ratio of library books to students enrolled:** 20:01
- * **Average number of books added during last 03 year:** 11057 books per year
- * **Average number of login to OPAC:** 15 per day
- * **Average number of login to e-resources:** our e-resources are IP address based, so any student and faculty member can login anywhere in Institute premises
- * **Average number of e-resources downloaded/printed:** Not accounted, can be downloaded from anywhere in the Institute premises
- * **Number of information literacy training organized:** Nil
- * **Details of weeding out of books and other materials:** Nil

4.2.6 Give details of the specialized services provided by the library

| | |
|---|-----|
| * Manuscripts: | N/A |
| * Reference: | YES |
| * Reprography: | YES |
| * ILL (Inter Library Loan Service): | N/A |
| * Information deployment and notification (Information Deployment and Notification): | YES |
| * Download: | YES |
| * Printing: | YES |
| * Reading list/ Bibliography compilation: | N/A |
| * In-house/remote access to e-resources: | YES |
| * User Orientation and awareness: | YES |
| * Assistance in searching Databases: | YES |
| * INFLIBNET/IUC facilities: | N/A |

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Following support is provided by the Library staff:

- Adequate library facilities for all the students (sufficient books/Reference books, seating and reading facility)
- OPAC (Online Public Access Catalogue) search
- Classification arrangement of books for easy reach to the book
- Book reservation facility
- Assistance in accessing the internet and online information
- Library takes recommendation of books by the students
- Special assistance for physically challenged students

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

- As a special case, physically challenged students are helped by library staff in searching, issuing, and return of books
- There is no visually challenged student enrolled in the Institute.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

- Yes. The library gets feedback (both formal and informal) from its users.
- The suggestions, complaints and requirements are noted down by the library committee and recommendations are accordingly addressed.
- The infrastructural requirements are provided to the department of projects and planning for compliance

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

- Number of computers with Configuration (provide actual number with exact configuration of each available system)
- Computer-student ratio
- Stand alone facility

- LAN facility
- Wi-Fi facility
- Licensed software
- Number of nodes/ computers with Internet facility
- Any other

The details of the Computers, Laptop and Servers etc. are given below:

| S. No. | Model | Configuration | Quantity |
|--------|---|--|----------|
| 1 | Desktop Computer with monitor- Acer (B.P) | Acer- processor-3.0 GHZ dual core/HDD 320GB/RAM 2GB/TFT 17" | 175 |
| 2 | Desktop Computer Acer C I3/8 GB/500GB/18.5" TFT(B-Block) | Acer- processor-core I3,3.30 GHZ /HDD 500GB/RAM 4GB/8GB/TFT 18.5" | 315 |
| 3 | HP 100-610 LX intelpentium E588 AIO (14 no) | HP - Omni-Aio,processor-dual core /HDD 500GB/RAM 2GB/ TFT 19" | 91 |
| 4 | HP Work Station XW 4300 (ME- Cad Lab) | HP - processor-P4,3.0 GHZ /HDD 80GB/RAM 1GB/ TFT 17" | 30 |
| 5 | Workstation HP- Z200 CROE I3-530 (B-Block-Lab 4) | HP - processor-core I3, 3.0 GHZ /HDD 300GB/RAM 2GB/ TFT 22" | 30 |
| 6 | HP core I3 -3220 4GB RAM/ 500 GB HDD/18.5" screen (D-Block) | HP- processor-core I3,2.8 GHZ /HDD 500GB/RAM 4GB/TFT 18.5" | 260 |
| 7 | Lenovo AIO M-62Z core I5 4GB RAM/ 500 GB HDD/19" screen | Lenovo-processor-core I5,2.90 GHZ /HDD 500GB/RAM 8GB/TFT 19" | 35 |
| 8 | N-Computing device with 10/100 ethernet/20" LED TFT | N- Computinglg, encom thin client with 20" LG TFT | 40 |
| 9 | HP DX2480 dual core with TFT(D-Block) | HP - processor-dual core,2.0 GHZ /HDD 160GB/RAM 1GB/ TFT 15" | 240 |
| 10 | HP Proliant ML 110G5 | HP- processor-intel xeon 2.33 GHZ /HDD 160GB/RAM 1GB" | 36 |
| 11 | HP 208 G1MT/202G2 Systems | HP- Core i3, 4 th generation processor /HDD 500GB/RAM 4GB/TFT 18.5" | 75 |
| 12 | HP 250 Laptops | HP- Core i3, 5 th generation processor /HDD 500GB/RAM 4GB/TFT 18.5" | 61 |
| 13 | Dell Work Station T1700MT | Xeon Quardcore processor- 3.3 GHZ /HDD 500GB/RAM 8GB/ TFT 22" | 35 |

| | | | |
|----|--------------------|--|----|
| 14 | Apple imac MF883 | Core i5 1.4 GHz/8GB Ram/500HDD/21.5" TFT | 30 |
| | Total: 1453 | | |

Computer Student Ratio: 1:2 (for PG Students)
1:4 (for UG Students)

Details of Servers

| S. No. | Server | Configuration | Quantity |
|--------|------------------------------------|--|----------|
| 1 | HP Pro Liant ML350G6 (Tower Model) | Quad core Intel Xeon E5504 processor (2.0 GHz, 8Watts, 1066 FSB) 12 MB level 2 cache /4 GB ECC RAM; PC2-530 fully buffered DIMMs (DDR3 RDIMM) Network controller1GbE NC326i 2 Ports HP 300GB, 3G SAS 10K SFF SP HDD/ 16X DVD | 3 |
| 2 | HP Pro Liant ML350G5 (Tower Model) | Quad core Intel Xeon e531processor (2.33 GHz, 8Watts, 1066 FSB) 12 MB level 2 cache /4 GB ECC RAM; PC2-530 fully buffered DIMMs (DDR2-667) embedded NC373i multifunction gigabit server HP (146x3) GB 3G SAS 10K SFF SP HDD/ 16X DVD | 1 |
| 3 | IBM Server (X Series 226) | Intel Xenon processor 3.0GHz. 2 M.B L2 cache 80MHz front side bus. 1GB ECC DDR2 SDRAM. (73*3)GB ultra 32 hot swap SCSI HDD 10K RPM CD ROM + FDD IBM E54 color monitor IBM Key Board + Mouse Gigabit Ethernet Card Dual Redundant Power Supply. | 2 |
| 4 | IBM Server (X Series 206) | Intel Pentium Processor 3.0GHz. 1GB ECC DDR2 SDRAM. (160+36)GB SCSI HDD 10K RPM HP DVD Writer + CD ROM + FDD IBM E54 Color Monitor Gigabit Ethernet Card | 1 |

| | | | | |
|----------|--------|-----------------|--|---|
| 5 | HP SRV | Windows Storage | AP AIO 400T allinone intel Pentium Dual CPU E2160@1.8 GHZ,1024 L-2 Cache,2 GB ECC Ram, PC2-5300 Fully Buffered DIMMS, 250*4 GB 10k SFFSP 7200 RPM HDD, 16 X DVD, Gigabit Ethernet Lan Card | 1 |
|----------|--------|-----------------|--|---|

Total: 08

LAN Facility: All computers are connected with LAN.

Wi-Fi Facility: The campus has a fiber optics network connecting all the buildings. For network within the building, the Institute is using cat6 UTP.

List of Licensed Software

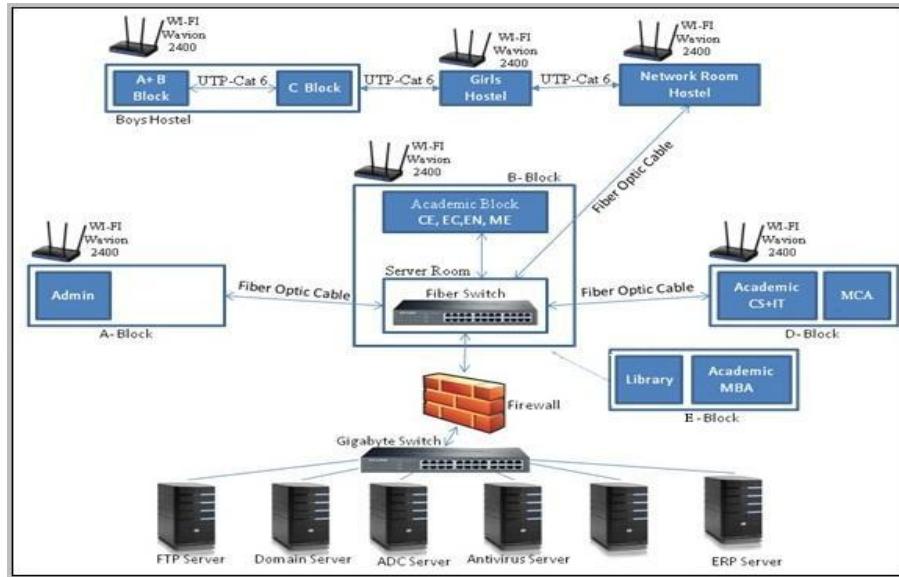
| S. No | Software | User |
|-------|---|------------------|
| 1 | Microsoft Edu Cloud Campus Agreement Faculty | 200 |
| 2 | MS CS-MSIT Academy ALNG | 1 |
| 3 | Microsoft O365 ProPlus for Students | 1500 |
| 4 | Turbo C++ | 60 |
| 5 | IBM Rational Software | 20 |
| 6 | Kaspersky Endpoind Security for Business Select | 500 |
| 7 | Microsoft Office 2003 | 10 |
| 8 | NETZ 2.0 Network Simulation | 30 |
| 9 | Oracle 11G Std. Ed. | 10 |
| 10 | SCO Unix Open Server 6 Enterprise | 10 |
| 11 | Lisp Works Prof. 5.1 A.E. | 1 |
| 12 | High Class Multimedia Edu. | 30 |
| 13 | ZYBRO-Digital Language Lab | 30 |
| 14 | Lingua Phone | 60 |
| 15 | Adobe Acrobat Pro 9.0 | Academic edition |
| 16 | NPTEL Web Course | Full |
| 17 | OrCad 11.0 | 5 |
| 18 | Tanner | 10 |
| 19 | XILINX (VHDL) | 10 |
| 20 | Ideas NX Series Artisan software | 5 |
| 21 | Femap -Nastran- NX | 4 |
| 22 | Studio Works | 30 |
| 23 | AutoCAD 2005 (Edu) | 1 |
| 24 | Autodesk Inventor Pro.11 | 30 |
| 25 | MATLAB | 10 user |
| | Signal Processing Tool Box | 10 users |

| | | |
|---|--|----------|
| | Control System Tool Box | 10 users |
| | Image Processing Tool Box | 10 users |
| | Neural Network Tool Box | 10 users |
| | Fuzzy Logic Tool Box | 10 users |
| | Genetic Algorithm Tool Box | 10 users |
| | Optimization Tool Box | 10 users |
| | | |
| Microsoft License Volume | | |
| 1 | Groove 2007 | NA |
| 2 | Lync 2013/2010 | NA |
| 3 | Office Communicator 2007 R2 | NA |
| 4 | Office Multilanguage Pack 2007 /2010/ 2013 | NA |
| 5 | Office Professional Plus 2007/ 2010/2013 | NA |
| 6 | Forefront Endpoint Protection 2010 | NA |
| 7 | System Center 2012 Configuration Manager | NA |
| 8 | System Center 2012 Endpoint Protection/2012 R2 | NA |
| 9 | System Center Virtual Machine Manager 2008R2 | NA |
| 10 | Microsoft E-Learning -Applications-Office 2013,2010 | NA |
| 11 | Microsoft E-Learning -Win Systems-Win8,Win7,Vista,XP | NA |
| 12 | Windows Thin PC | 500 |
| 13 | Windows 7 Enterprise /K/N/KN/ Upgrade | 250 |
| 14 | Windows 7 Professional /K/N/KN/ Upgrade | 250 |
| 15 | Windows 8 Enterprise /K/N/KN/ | 250 |
| 16 | Windows 8 Professional /K/N/KN/ | 250 |
| 17 | Windows 8.1 Enterprise /K/N/KN/ | 250 |
| 18 | Windows 8.1 Professional /K/N/KN/ | 250 |
| 19 | Windows Vista Business /K/N/KN | 100 |
| 20 | Windows Vista Enterprise /K/KN | 100 |
| 21 | Windows XP Professional, X64 Ed | VL Key |
| Microsoft Edu Cloud Campus Agreement | | |
| 1 | MS Imagine Academy | 1 |
| 2 | O365 ProPlus for Students | 1500 |
| 3 | Certification in Academic VL | 4 |
| 4 | Microsoft Intune Open- Per User | 200 |
| 5 | Office 365 EDU E3 for Faculty Open | 200 |
| 6 | Windows Server – User CAL | 200 |
| 7 | Windows E3 Per Device | 200 |

Number of Nodes/Computer with Internet facility: 100% (1453 Nos.)

Any Other: All computer labs have been provided with Online UPS facility.

Network Map of NIET:



4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- High speed 110 Mbps internet facility is available for staff & students in collaboration with Bharti Airtel and tie-up with Reliance Jio Hotspot.
- The campus is Wi-Fi enabled and the facility is provided for both faculty and students.
- The Institute has separate computer centre with internet browsing facility looked after by System Administrator.
- The faculty members and staff of the Institute can also access internet in computer labs.
- Each department has its own computing facility for their faculty members and students
- Laptops are provided to Directors, Deans, and all departmental heads.
- Students and Staff can also browse e-Journals from hostels and Library.
- To strengthen faculty members the Institute has recently adopted a policy to provide laptops on EMI at subsidize price.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The Institution has plans for upgrading IT infrastructure by:

- Installing smart boards in class rooms
- Implementation of virtual lab
- Providing more advanced software for Research and Development
- Recently established advanced labs to provide training on:
 - 1) Big Data
 - 2) Cloud Computing
 - 3) Internet of Things using Raspberry Pi
 - 4) Clinical Research & Bioinformatics
 - 5) Embedded Systems
 - 6) 3D Printing
 - 7) Advanced Robotics Control Lab
 - 8) PTC Lab
 - 9) CARDEA MiBeat Lab

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

| Financial Year | Computers and Accessories | | Operation and maintenance | |
|----------------|---------------------------|------------------|---------------------------|-----------------|
| | Budget (Rs) | Expenditure (Rs) | Budget (Rs) | Expenditure(Rs) |
| 2015-16 | 10000000.00 | 10166284.00 | 1200000.00 | 1332566.00 |
| 2014-15 | 1000000.00 | 1070228.00 | 600000.00 | 710975.00 |
| 2013-14 | 10000000.00 | 11816752.00 | 1200000.00 | 1350233.00 |
| 2012-13 | 10000000.00 | 10123631.00 | 1200000.00 | 1532520.00 |

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

The Institute facilitates extensive use of ICT resources including development and use of computer-aided teaching and learning materials in the following ways:

All the classrooms and Labs are provided LAN connection

- Smart classrooms
- LCD projector in all classrooms
- E-library

- Webinars
- Virtual lab in collaboration with IIT Delhi
- NPTEL
- ERP
- Teaching through PowerPoint presentations, videos, animations, etc.
- Online tests

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching-learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- LCD projectors are installed in all classrooms. All seminar halls are well equipped. The IT infrastructure of the Institution helps the students gain confidence. The new campus of the institute has smart classrooms.
- Individual presentation on topics beyond syllabus develops independent learning among the students.
- Departments of Computer Science and Information Technology organise training sessions on the use of internet for learning resources, seminars and workshops in various fields related to use of computer hardware and software.
- Well-equipped computer labs help the Institute to conduct seminars, workshops, computer-aided training and Faculty Development Programmes
- E-Library facility is available for both the students and the faculty members to update their knowledge
- NPTEL provides learning through web
- The Institute has collaborations with Microsoft, TCS, IIT Delhi and Pearson to train its students.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

‘Yes’, The Institution avails different programmes of National Knowledge Network connectivity from affiliating University (link: www.aktu.ac.in).

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

The management is proactive and has a positive approach for the development of infrastructural facilities for the benefit of the stakeholders. The Institute plans and executes the allocation and

utilisation of funds in a systematic way as per the requirements of the departments. The facilities are being regularly upgraded.

The budget allocation of last four year is as follows:

| S. No. | Amount Spent for | Amount spent in lakhs | | | |
|---------------|-------------------------|------------------------------|------------------|------------------|------------------|
| | | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 |
| 1 | Building | 43180118.00 | 21226512.00 | 52977203.00 | 18144299.00 |
| 2 | Furniture | 9615169.00 | 2073390.00 | 718740.00 | 5598739.00 |
| 3 | Equipments | 7027558.00 | 7785007.00 | 5606609.00 | 4580064.00 |
| 4 | Computers | 10123631.00 | 11516752.00 | 1070228.00 | 10166284.00 |
| 5 | Vehicles | 4627515.00 | 2031560.00 | 3029016.00 | 1301261.00 |
| 6 | Library | 4603302.00 | 5617901.00 | 6185856.00 | 6270677.00 |
| 6 | Other Assets | 7572427.00 | 3655416.00 | 3877756.00 | 2300618.00 |

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

- The Institute has a centralised maintenance department working under Director, Projects and Planning, which takes care of all the maintenance and upkeep of the infrastructure, facilities and equipment. The department has full time salaried employees like plumbers, electricians, sweepers, gardeners, carpenters, painters, etc.
- The Institute has provided a complaint register for lodging complaints regarding maintenance and services.
- The maintenance of lab equipment is done by the service providing company, the lab In-charge and the lab technician appointed for the lab.
- Apart from above-mentioned details the Institute outsources the services for the maintenance of equipment.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/ instruments?

The Institute takes up calibration and other precision measures for the equipment/instruments on an annual basis or as instructed by the supplier. The lab In-charge and lab technicians look after the maintenance of the equipment. The Institute takes the help of external agencies also to check and validate the instruments from time to time.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

As already mentioned in 4.4.2 the Institute has a centralised maintenance system to take care of location, upkeep and maintenance of sensitive equipment. Following major steps have been taken by the office:

- Separate area for the installation of generators and transformers
- Voltage stabilizers for the equipment in case of voltage fluctuation
- UPS to save computers
- In-house water supply with RO plant
- Full-time electricians to check any power failure
- Outsourcing specialists from the market and industry in case of complications

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include. **NIL**

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus/handbook annually? If ‘yes’, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

‘Yes’, the Institute updates its information brochure annually. The brochure provides information about vision, mission, quality policy, values of the Institute. Further, details of different programmes, rules and regulations regarding campus life, different departments, placement, infrastructure, examination, etc. are also given in the brochure. In addition to the information brochure, the Institute uses other media, e.g. ERP, notice boards, website, newsletters and hoardings to convey relevant information to the students.

The commitment and accountability is ensured by strictly following an organized and structural administrative system that ensures positive response and feedback from the students.

5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The type, number and amount of institutional scholarships/free ships given to the students are given in the table below:

| Year | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-16 | |
|--|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|
| Category of scholarships | No. of Students | Total amount in lakhs | No. of Students | Total amount in lakhs | No. of Students | Total amount in lakhs | No. of Students | Total amount in lakhs |
| BC/OBC Scholarship | 872 | 698.47 | 858 | 773.91 | 676 | 609.75 | 604 | 332.20 |
| SC/ST Scholarship | 303 | 242.70 | 265 | 239.03 | 171 | 154.24 | 110 | 99.22 |
| Fee Waiver | 65 | 45.95 | 65 | 45.95 | 65 | 45.95 | 66 | 44.88 |
| Merit cum Means (Minority Scholarship) | 179 | 143.37 | 140 | 126.28 | 125 | 112.75 | 97 | 87.49 |
| Management/ Institutional Scholarship | -- | -- | 34 | 4.0 | 34 | 4.0 | 34 | 4.0 |

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

Number of Students Receiving Financial Assistance for the session 2015-2016

| Branch | From State Govt. | From Central Govt. | From other Agencies |
|--------|------------------|--------------------|---------------------|
| CS | 160 | 0 | 0 |
| IT | 49 | 1 | 0 |
| EC | 141 | 13 | 0 |
| EN | 139 | 3 | 0 |
| ME | 269 | 8 | 0 |
| CE | 173 | 8 | 0 |
| CH | 29 | 2 | 0 |
| BT | 13 | 0 | 0 |
| MBA | 41 | 2 | 0 |
| MCA | 84 | 1 | 0 |

Number of Reserved-Category Students in the Institute for the session 2015-2016

| Branch | SC/ST | OBC | Economically Weaker Section | Physically Disabled | Overseas Students |
|---------|-------|-----|-----------------------------|---------------------|-------------------|
| CS | 77 | 246 | 38 | 0 | 0 |
| IT | 23 | 72 | 19 | 0 | 0 |
| EC | 88 | 280 | 42 | 0 | 0 |
| EN | 87 | 273 | 40 | 0 | 0 |
| ME | 86 | 270 | 37 | 0 | 0 |
| CE | 67 | 192 | 28 | 0 | 0 |
| CH | 18 | 54 | 10 | 0 | 0 |
| BT | 14 | 42 | 6 | 0 | 0 |
| MBA | 20 | 63 | 0 | 0 | 0 |
| MCA | 14 | 44 | 0 | 0 | 0 |
| M. Tech | 4 | 9 | 0 | 0 | 0 |

5.1.4 What are the specific support services/facilities available for

- **Students from SC/ST, OBC and economically weaker sections avail**
 - Fee waiver seats (additional 5% of the total sanctioned intake in UG courses).
 - State Government scholarships.
 - Central Govt. scholarships for minority students.
 - The institute has tie-up with Canara Bank for education loan facility.
 - The management of the Institute also supports some economically weak students by financially adopting them.
 - Special classes on Soft Skills are conducted.

- **Students with physical disabilities**
 - For facilitating disabled students short ramps, small stairs, and all the assistive devices have been provided. Lifts have been installed in all the blocks in the Institute and a disabled student can easily manage oneself independently, wherever, their theory and practical classes are being held.
- **Overseas students:** N/A
- **Students to participate in various competitions/National and International**
 - The Institute organizes workshops to train the students for competitions in association with various students' clubs/societies.
 - The Institute provides financial support to design and fabricate the hardware required for the competitions in the nation and abroad such as the students prepared vehicles, robots and hovercrafts for various events.
 - The Institute provides guidance and coaching for IAS, GATE and PSUs through trained faculty members.
 - The Institute trains students on coding and help them to participate in National/International events like Codevita, Testimony, Hackathon and Ideation etc.
- **Medical assistance to students: health centre, health insurance etc.**
The following medical assistance is provided to the students:
 - Full time doctor
 - Free medicine
 - First aid facility
 - Ambulance (24X7) supported by associated hospital
 - Medical insurance to hostel inmates
 - 100% amount of medical bills reimbursement for hostellers
 - Tie-ups with hospitals(Yatharth & Kailash) for concession in medical bills
- **Organizing coaching classes for competitive exams**
 - The Institute organizes coaching and counseling classes for IAS, GATE, GRE and GMAT.
 - Recently Institute did tie-up with ENGINEERS ZONE for GATE classes.
- **Skill development (spoken English, computer literacy, etc.)**
 - Two multimedia language labs to enhance Listening, Speaking, Reading and Writing (LSRW) skills.
 - PFS organizes special sessions on communication skills and computer proficiency.
 - The special classes are given to students to train them on email etiquettes.
 - The students are encouraged to participate in national competitions like 'Hackathon' and 'TCS Codevita' to hone their skills in computers.
 - Students appear for SWAR assessment test for communication skill evaluation.

- **Support for “slow learners”**
 - Extra classes from 5 PM to 7 PM
 - Adopted by mentors
 - Motivated to perform better
 - Life Skill sessions
 - Motivational quotes circulated on NIET Mobile App
- **Exposures of students to other institution of higher learning / corporate / business house etc.**
 - Students are encouraged to attend technical fares, seminars, conference, workshops at IITs, NITs, etc
 - Experts from academia and industry are invited to deliver talks and provide training on advanced techniques
 - Industrial/vocational training.
 - Industrial visits
 - 24x7 hours internet access is provided to students.
- **Publication of student magazines**
 - The Institute publishes NIETimes and NIET Chronicles, through which the students share their views.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

The Institute regularly organizes entrepreneurship development programs which help students understand various issues faced by an entrepreneur. Activities conducted under entrepreneurship development cell are as follows:

- 1) A One-day National Seminar on “Need of Entrepreneurial Revolution in Emerging Technologies in the Current Global Scenario”
- 2) Regular workshops are organized on “e-Learning module” by NIESBUD, MSME, Govt of India
- 3) Students’ Chapter of Entrepreneurship Development Cell (EDC) exists in the Institute which organizes events regularly.
- 4) The EDC also supports the promising entrepreneurs by disseminating technical knowledge through meets, conferences and trainings. The EDC has done a praiseworthy job in motivating and supporting the students to become entrepreneurs by establishing incubation centre to encourage students to start their own ventures.
- 5) University level competition “IDEATION 2017” is being planned by EDC Cell to give platform for Innovative ideas.
- 6) Mentors from Industry are called to expose students on topics like commercialization of idea & products.
- 7) NIET recently initiated tie-up to train budding entrepreneurs with UC Berkley, USA, Centre for Research & Innovation under AKTU initiative.

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- * Additional academic support, flexibility in examinations
- * Special dietary requirements, sports uniform and materials
- * Any other

A gymnasium, basketball court, cricket/football ground, badminton courts,etc. are available within the campus. The Institute has employed physical training instructors (PTIs) to train the students. Sports material is also provided to the students.

Students' participation in extracurricular activities has been identified as an important aspect for the overall development of their personality. The Institution is committed to encourage students to participate in various extracurricular activities. The necessary facilities like fund, equipments, etc are provided to the students. The office of Dean Student Welfare (DSW) supervises the extracurricular activities like literary festivals, debate, essay competition, project contest, poster competitions, SPIC MACAY event, etc. Most of the departments in the College have associations, clubs, cells, societies, and forums to cater to student's divergent taste. The students also participate in inter-college and intra-college competitions. The students actively prepare and participate in Zonal, Inter-Zonal, Intervarsity and National Youth festivals.

The students who participate in extra or co-curricular activities are provided with extra classes so that the time they have given for the various activities can be compensated. In general the participation of students has gone up over the years after departmental/institute level format has been introduced.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

The Institute encourages the students to appear for various competitive examinations such as GATE, CAT, GRE, TOFEL, GMAT, Civil Services, Defense services, and Central/State services. For this purpose, the Institute supports liberal policy for participation in University-based curriculum and allows final-year students to attend external coaching services for GATE/CAT etc. Recently NIET did tie-up with Engineers Zone to provide GATE classes in house. Various forms of coaching like communication skills, online materials, multimedia based learning, and solved question bank with keys, etc. are provided by the faculty members. A record of Question bank for GRE, TOFEL, GATE and CAT are also maintained in the library/Department.

List of few students pursuing higher studies:

| S.No. | Student Name | PG/PhD Program | Name of the top University/Institutions |
|-------|----------------------|----------------|---|
| 1 | Dharmendra Prajapati | MS | University of Georgia |
| 2 | Akansha Soneja | MBA | Purde University, USA |
| 3 | Ravi Saini | M.Tech | IIT BHU |
| 4 | Rakesh Sharma | M.S. | University of Texas, USA |
| 5 | Shubham Cheema | M.S. | University of Dallas, USA |
| 6 | Elora Paul | M.S. | University of Texas, USA |
| 7 | Jalaj Ranjan Pandey | M.S. | University of Texas, USA |
| 8 | Pranav Bhatt | M.S. | University of California, USA |
| 9 | Shivam Khare | M.Tech | IIIT, Hyderabad |
| 10 | Himanshu Sharma | M.Tech | IIT Bombay |
| 11 | Praveen Kumar Yadav | M.Tech | IIT Madras |
| 12 | Saddam Ali | M.Tech | IIT Delhi |
| 13 | Ashish Pandey | MBA | IIT Roorkee |
| 14 | Yuvraj Bisht | M.Tech | NIT Kurushetra |
| 15 | Devesh Shukla | M.Tech | IIT BHU |
| 16 | Mayank Pandey | M.Tech | VIT, Vellore |
| 17 | Nandkishore | M.Tech | MNIT Allahabad |
| 18 | Abhishek Kumar | M.Tech | NIT Raurkela |
| 19 | Sajid Kadmi | M.S. | Brulen University, London |
| 20 | Mayank Pandey | M.Tech | IIT Roorkee |
| 21 | Ankur Dwivedi | M.Tech | IIT Kanpur |
| 22 | Aparna Agarwal | M.Tech | IIT Kanpur |
| 23 | Swaswat Pathak | M.Tech | MNIT Allahabad |
| 24 | Rahul Varshney | M.Tech | Thapar University, Patiala |
| 25 | Abhishek Srivastava | MBA | Fore School of Management |
| 26 | Ankit Lohia | M.Tech | MNIT Allahabad |
| 27 | Renu Singh | M.Tech | MNIT Allahabad |
| 28 | Lavi Jain | M.Tech | Delhi University |
| 29 | Neha Singh | MBA | IIM Indore |
| 30 | Minali Gupta | M.Tech | IIT BHU |
| 31 | Akash kumar Arya | Ph.D | IFTM University |
| 32 | Ali Ahmad Khan | M.Tech | IIT Roorkee |
| 33 | Pavitra Kumar | M.Tech | IIT Roorkee |
| 34 | Greeshma Falgunan | M.Tech | Amity Noida |
| 35 | Manjushree Pal | M.Tech | Amity Noida |

**Self-Study Report
Noida Institute of Engineering & Technology**

| | | | |
|----|------------------------|--------|--------------------------------------|
| 36 | Mohd.Umair Aziz Ansari | M.Tech | Sharda University |
| 37 | Faisal Khan | M.Tech | Sharda University |
| 38 | Mohd.Firoj | M.Tech | IET Lucknow |
| 39 | Amit Tiwari | M.Tech | Amity Noida |
| 40 | Jinet Das | M.Tech | PEC University Chandigarh |
| 41 | Shailendra Kumar Singh | M.Tech | IIT Patna |
| 42 | Devesh Jaiswal | M.Tech | NIT Patna |
| 43 | Atul Verma | M.Tech | MNIT Allahabad |
| 44 | Nupur Verma | M.Tech | DTU |
| 45 | Harsh Pipil | M.Tech | DTU |
| 46 | Tanuj Kumar | M.Tech | DTU |
| 47 | Saleem Ahmad | M.Tech | RTU , Kota |
| 48 | Prashant Kumar Yadav | M.Tech | RTU , Kota |
| 49 | Dharmesh Saini | M.Tech | NIT , Srinagar |
| 50 | Mohd.Zubair | M.Tech | SPA, Delhi |
| 51 | Sachendra Singh | M.Tech | IIT Roorkee |
| 52 | Sanjay Kumar | M.Tech | GBU |
| 53 | Rebati | M.Tech | IIT Patna |
| 54 | Swati | M.Tech | SLIET |
| 55 | Vertika | M.Tech | NIT Jalandhar |
| 56 | Abhishek Bist | MS | MS Australia |
| 57 | Anoop Kumar | M.Tech | Allahabad University |
| 58 | Rahul Bansal | Ph.D | DTU |
| 59 | Pawan Kumar | M.Tech | IIT Patna |
| 60 | Shashwat Pathak | M.Tech | MNIT Allahabad |
| 61 | Kapil Agrawal | M.Tech | JIIT,Noida |
| 62 | Mayank Agrawal | Ph.D | IIT BHU |
| 63 | Manpreet Singh Gandhi | MBA | San Jose State University,Califor |
| 64 | Dushyant Chauhan | M.Tech | JIIT,Noida |
| 65 | Harshita Dixit | MS | Stevens Institute of Technology, USA |
| 66 | Nityam Goel | MBA | Great Lakes Institute Of Management |
| 67 | Ujjawal Bhatnagar | M.S | Techniche Universitat Muchen |
| 68 | Anant Semwal | M.S | TU Delft,Netherland |
| 69 | Monika Agarwal | M.Tech | Jamia Millia Islamia ,Delhi |

| | | | |
|-----|--------------------|---------------|---|
| 70 | Himanshu | MBA | Symbiosis,Pune/Narsee Monji ,Mumbai |
| 71 | Navneet Phathak | M.Tech | SRK University , Bhopal |
| 72 | Surendra Kumar | M.S | Francois - Rabelias de Tours,France |
| 73 | Himanshu Tripathi | M.Tech | NIT,Trichi |
| 74 | Eshitha Rastogi | M.Tech | MMMU,Gorakhpur |
| 75 | Md.Ovais Ansari | M.Tech | NIT , Bhopal |
| 76 | Sammer Rastogi | MBA | Department Of Management Bits Pilani |
| 77 | Piyush Gupta | M.Tech | IIT , Dhanbad |
| 78 | Acshay Jee Bhosale | M.Tech | ISM, Dhanbad |
| 79 | Ankit Devra | M.Tech | V NIT ,Nagpur |
| 80 | Ashutosh Samadhiya | M.Tech | NIT , Agartala |
| 81 | Mahendra Singh | M.Tech | PG |
| 82 | Rupesh Singh | M.Tech | ISM,Dhanbad |
| 83 | Vinay Kumar | M.Tech | IIIT, Jabalpur |
| 84 | Basant Kumar Singh | M.Tech | RGTU,MP |
| 85 | Himanshu Verma | MBA | IMT, Dubai |
| 86 | Mohammad Tahir | M.Tech | M.TECH |
| 87 | Mohd Ahamad | M.Tech | MNNIT , Allahabad |
| 88 | Prashant Singh | M.Tech | KWIT |
| 89 | Shovit Sagar | M.Tech | IIT, Kanpur |
| 90 | Shrey Gupta | MBA | Amity Noida |
| 91 | Tanuj Kumar | M.Tech | MNIT ,Jaipur |
| 92 | Santosh Prasad | M.Tech | BIT , Mesra |
| 93 | Rahul Sharma | M.S | University of Texas, USA |
| 94 | Mohd Danis | M.Tech | AMU |
| 95 | Ayush Pandey | MBA | Alliance University, Banglore |
| 96 | Abhinav Tomar | MS | University of Texas, Dallas |
| 97 | Sapna Paul | MS | University of Texas, Dallas |
| 98 | Amit Kumar | MBA | Grukul kangri University ,UK |
| 99 | Apoorva Singh | MS | University of Texas, Dallas |
| 100 | Ajay Arya | M.Tech | IIT Allahabad |
| 101 | Mithilesh Patel | MBA | Cardiff University ,Cardiff |
| 102 | Shakti Sharma | M.Tech + Ph.D | IIT Bombay |
| 103 | Amit Naithani | M.Tech | Moti Lal Nehru Institute of Technology Allahabad |
| 104 | Abhishek Raj Singh | MBA | Indian Institute of Management ,Ahamdabad |

| | | | |
|-----|------------------|--------|---|
| 105 | Ali Asgar | M.S | University of South Florida |
| 106 | Shubham Gupta | M.S | University of Warwick |
| 107 | Tushita Agarwal | M.S | Brock University |
| 108 | Aditi Singh | MBA | International Management Institute ,New Delhi |
| 109 | Tanya Bhaduria | MBA | Indian school of business , Hyderabad |
| 110 | Swati Yadav | M.Tech | HBTI ,Kanpur |
| 111 | Amit Kumar Singh | M.Tech | ISM , Dhanbad |
| 112 | Prakhar Kumar | M.Tech | IIT ,Delhi |
| 113 | Shweta Singh | M.Tech | ISM, Dhanbad |
| 114 | Pulkit Garg | M.Tech | HBTI ,Kanpur |
| 115 | Prerna Choudhary | M.Tech | GBU |
| 116 | Shivani Chauhan | M.Tech | GBU |
| 117 | Rohit Rastogi | M.S | SMU, Singapore |
| 118 | Aditi Yadav | M.S | Syracuse University, USA |
| 119 | Ankit Agarwal | M.S | Newyork University, USA |
| 120 | Umesh Mishra | M.S | University of Texas, Dallas |
| 121 | Jayeeta Biswas | M.S | Cardiff Metropolitan University, UK |
| 122 | Mohit Chaturvedi | M.Tech | IIT, Delhi |
| 123 | Parul Rana | MBA | IIM, Lucknow |

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

Academic and personal: Class coordinators and mentors provide academic and personal counseling to the students. Mentors not only keep close eye on the academic development of the students but also guide them regarding their future plans.

Career: CMC take care of the students' overall development and nurture them for their professional career. The departmental coordinators also help the students chalk out their strategies for acquiring knowledge and actualizing their dreams, besides inculcating etiquettes and values into them so that they could be socially responsible. However, the University has also taken initiative to introduce Human Values and Professional Ethics, and Industrial Psychology in the curriculum; the Institute has a National Service Scheme to complement the University's objective.

Psycho-Social: Achieving quality standards in employability has fuelled the setting up of the Pyramid Finishing School (PFS) by the management of NIET. PFS provides students the practical training with real life scenarios. The students from all walks of life have gained tremendous confidence and have polished their personalities to a Global Level in the "Art of

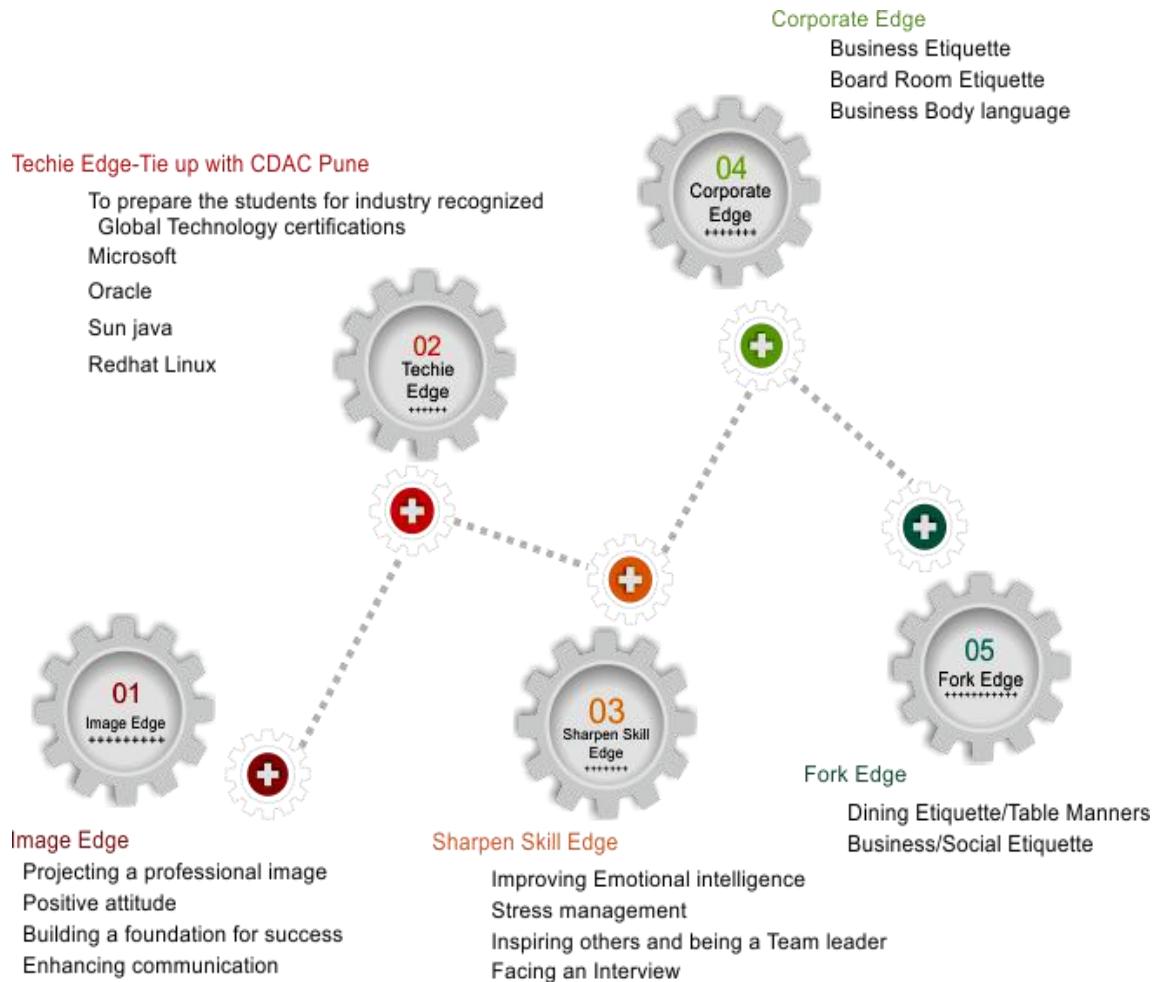
Business Etiquette”, “Social Grace”, “Confidence Building”, “International Etiquette”, “Leaving Lasting Impressions” and “Removing Shyness”, etc. Under the aegis of PFS, students are first assessed on their various skills and corresponding training is organized for bridging the gaps identified.

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Yes, the Institute has a structured mechanism for career guidance and placement. The Career Management Cell (CMC) & Pyramid Finishing School (PFS) are managed by full time employees in the Institution. The CMC & PFS are functioning under the supervision of Executive Vice-President of the Institute. CMC & PFS provide opportunities to the students for in/off campus placements as well as summer industrial training and internship.

PFS is a place where students are trained according to the industry requirements giving individual student a 360 degree improvement, not only in the areas like soft skills, life skills, technical skills and etiquettes but also exposing the students to time management, team-work and project management.

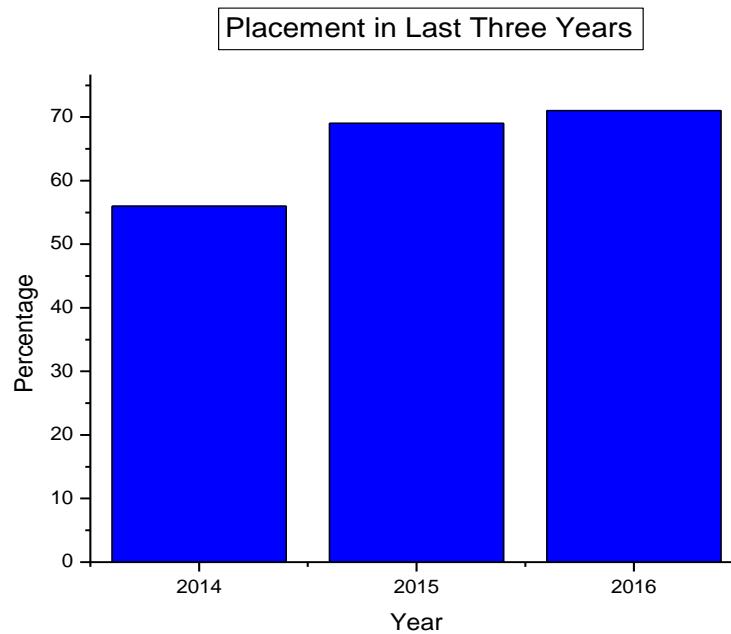
The training of student's, starts from 2nd Semester onwards and is assessed under Pyramid Fishing School. In the beginning of 5th semester, each student is evaluated by AMCAT test comprising aptitude and technical questions. This feedback is used as a critical input for categorizing the students and for drawing student specific development plan. With the help of the score, the students are ranked and categorized into A, B and C groups. ‘A’ comprises those students who are good and have a high probability to be placed, ‘B’ comprises average students and ‘C’ comprises students who are still not up to the mark and need to be worked hard upon. Thereafter, the curriculum is customized for these three groups and regular workshops are conducted 2 hours per week, since then. Student specific feedback is made available to the trainers to be able to modulate and guide the students according to their need. The ‘A’ group is exposed to advanced technical knowledge (through special classes) over and above their university curriculum, ‘B’ group is made to emphasize on the curriculum and ‘C’ is made to work upon their basic concepts. Once the student reaches the 7th semester, well coordinated workshops are organized to prepare them to face placement process. This is where they are made to hone their communication skills, body language, overall personality, aptitude, work place skills and corporate etiquette. Mock interviews are regularly conducted internally and at times through especially invited industry leaders as per the different formats of the placement drive.



The details of percentage of students recruited in past three years are as follows:

Percentage of students recruited during last three years

| Branch | 2014 | | | 2015 | | | 2016 | | |
|--------------|-------------|------------|------------|-------------|------------|------------|-------------|------------|------------|
| | Eligible | Placed | Placed % | Eligible | Placed | Placed % | Eligible | Placed | Placed % |
| CS | 137 | 99 | 72% | 227 | 229 | 101% | 218 | 240 | 110% |
| IT | 113 | 83 | 73% | 90 | 77 | 86% | 90 | 80 | 89% |
| EC | 126 | 77 | 61% | 219 | 154 | 70% | 225 | 169 | 75% |
| EN | 123 | 61 | 50% | 112 | 70 | 63% | 165 | 81 | 49% |
| ME | 131 | 58 | 44% | 129 | 66 | 51% | 169 | 91 | 54% |
| CH | 56 | 20 | 36% | 31 | 12 | 39% | 40 | 21 | 53% |
| CIVIL | 126 | 24 | 19% | 126 | 30 | 24% | 75 | 09 | 12% |
| BIOTECH | - | - | - | - | - | - | 28 | 24 | 86% |
| MBA | 164 | 139 | 85% | 108 | 96 | 89% | 60 | 58 | 97% |
| MCA | 53 | 20 | 38% | 41 | 08 | 20% | 48 | 19 | 40% |
| TOTAL | 1029 | 581 | 56% | 1083 | 742 | 69% | 1118 | 792 | 71% |



Companies visited in last three years in the institute for campus placement

| Companies visited in last three years | Students Placed | | | Total |
|---------------------------------------|------------------|------------------|------------------|--------------|
| | 2013-2014 | 2014-2015 | 2015-2016 | |
| 310 | 650 | 850 | 854 | 2354 |

List of few companies visited

| S. No. | Name of the Employers |
|---------------|--|
| 1 | ING VYSYA BANK |
| 2 | TCS |
| 3 | GENPACT |
| 4 | IBM INDIA PVT LTD. |
| 5 | ICICI BANK |
| 6 | JOHNSON CONTROLS (INDIA) PVT. LTD. |
| 7 | WIPRO |
| 8 | ACCENTURE |
| 9 | APTARA |
| 10 | ASHOK LEYLAND |
| 11 | COGNIZANT |
| 12 | HINDUSTAN AERONAUTICS LIMITED |
| 13 | INDIAMART INTERMESH LTD. |
| 14 | YAMAHA |
| 15 | BNB COATINGS INDIA LTD |
| 16 | ERICSSON |
| 17 | HPCL |
| 18 | HYUNDAI MOTORS INDIA LTD. |
| 19 | JUBILANT CHEMSYS |
| 20 | MURUGAPPA GROUP |
| 21 | SAMSUNG INDIA ELECTRONICS PVT. LTD. |
| 22 | SYNTEL |
| 23 | UNITED HEALTH GROUP |
| 24 | AIRCEL (IKYA HUMAN CAPITAL SOLUTIONS PVT. LTD) |
| 25 | BARCLAYS & AMEX |
| 26 | DHFL |

| | |
|----|-----------------------|
| 27 | HCL TECHNOLOGIES LTD. |
| 28 | HDFC BANK |
| 29 | R SYSTEMS |
| 30 | AMRAPALI GROUP |

6.1.1 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

‘Yes’. The cell is directly under the top management that comprises Managing Director, AMD, and Director.

The cell members are as follows:

- 1) Ms Anjali Gupta
- 2) Mr Jay Kant Pratap Singh
- 3) Mr Ashutosh Kumar Singh
- 4) Mr. Salahuddin
- 5) Mr. Lokesh Kachchawa
- 6) Mr. Saurabh Yadav
- 7) Ms. Isha Rawal

The grievances are received promptly through:

- 1) Suggestion/Complaint Box
- 2) Email: director@niet.co.in, sgrc.niet@gmail.com
- 3) The students can approach the administrator authorities at any point of time

Academic grievance is received from classes by personal visits, meeting with class representatives, feedback mechanism, etc. In academic session 2013-14 some students approached Dean, Academics with a grievance that there is not proper circulation of air in the classroom. The matter was reported to the department of projects and planning for necessary action. All the classrooms were fitted with additional fans as needed.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

A Women’s Grievance Redressal Cell, comprising senior faculty members, looks into any complaints by the female faculty members, staff or students. The members are:

Convener

Dr. Ghazala Naaz

Professor& Head (Dept. of English)

Members

Dr. Anjana Rani

Head, Dept. of Mathematics

Prof. Vineet Kumar

Dean (Students’ Welfare)

Prof. S. L. Verma

Chief Proctor

The objective of the cell is to maintain a congenial working environment for women employees and students of NIET. If any woman faculty, staff or girl student has any grievance, including any kind of harassment, the same can be brought to the notice of the Convener or any of the Committee Members for necessary action and redressal.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes, the Institute has the anti-ragging committee. The committee for year 2016-2017 is given below:

| S. No. | Name | Designation |
|--------|--------------------------|---------------------------------------|
| 1 | Dr. Ajay Kumar | Director, NIET |
| 2 | Dr. Praveen Pachauri | Director (Project & Planning) |
| 3 | Dr. V. K. Pandey | Dean (2 nd shift) |
| 4 | Prof. Vineet Kumar Verma | Dean(Student Welfare) |
| 5 | Prof. Ritesh Rastogi | Dean Admin (MCA) |
| 6 | Dr. S. Gairola | Dean (R&D) & HOD (EN) |
| 7 | Dr. Rupa Majumder | Professor |
| 8 | Dr. Satyendra Sharma | HOD(EC) |
| 9 | Dr. Meenu Singh | HOD(Biotech) |
| 10 | Dr. Somesh Kumar | HOD(IT) |
| 11 | Dr. Chandan Kumar | HOD(ME) |
| 11 | Dr. C.S. Yadav | HOD (CSE) |
| 12 | Dr. Prashant Mukharjee | HOD (Civil) |
| 13 | Dr. A. K. Tiwari | HOD (CH) |
| 14 | Dr. Dileep Singh | HOD(MBA) |
| 15 | Dr. K. P. Singh | HOD (Chemistry) |
| 16 | Dr. Rajesh Kumar | HOD(Physics) |
| 17 | Dr. Ghazala Naaz | HOD(English) |
| 18 | Dr. Anjana Rani Gupta | HOD(Maths) |
| 19 | Dr. S. L. Verma | Professor (ME) & Chief Proctor |
| 20 | Ms. Ekta Singh | Asst. Prof., MBA & Asso. Dean (SW) |
| 21 | Dr. B. P. Sharma | Registrar |
| 22 | Mr. Sanjeev Gupta | Finance Officer |
| 23 | Mr. Vimal Padaliya | System Administrator |
| 24 | Mr. Ajay Sharma | Parent |
| 25 | Mr. Rajvir Singh | Parent |
| 26 | Mr. Sirohi | SI, Knowledge Park-II, Police Station |
| 27 | One member | Udayan NGO |
| 28 | Mr. Anshuman Singh | Chief Warden, NIET Plot No. 14 |
| 29 | Mr. Rajeev Kumar | Asstt. Professor, MCA & Proctor |
| 30 | Ms. Monika Singh | Warden, Girls Hostel |
| 31 | Ms. Aditi Singhal | Warden, Girls Hostel |

| | | |
|----|-----------------------|--|
| 32 | Mrs. Suman Bajpai | Warden, Girls Hostel |
| 33 | Mr. Vikrant Malik | Warden, Boys Hostel |
| 34 | Mr. Pitamber Adhikari | Warden, Boys Hostel |
| 35 | Mr. Rajnish Kumar | Asst. Professor, Pharmacy & Proctor |
| 36 | Ms. Rishwata Pandey | Student B. Tech (CS), 2 nd year |
| 37 | Mr. Shubham Sharma | Student B. Tech (ME), 2 nd year |

No instance of ragging has been reported for last four years.

No instances of ragging were reported for last four years.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

- Fee waiver scheme
- Medical Insurance (Reimbursement of bills)
- Textbook loan scheme
- Cash prize for meritorious students under various scholarship schemes
- Sponsorship for participation in various extra and co-curricular events
- Government scholarships
- Railway concession

5.1.14 Does the institution have a registered Alumni Association? If yes', what are its activities and major contributions for institutional, academic and infrastructure development?

The Institute has strong Alumni base. The Alumni Association of NIET is yet to be registered and the process of registration is underway. The annual NIET alumni meet is organized on the last Saturday/Sunday of february. The feedback is taken from the alumni to improve the teaching-learning strategies. More than 3000+ students are registered on Alma Connect portal for networking.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

| Students' progression | % |
|---------------------------------|--------|
| UG to PG | 8-10% |
| PG to M.Phil. | N/A |
| PG to Ph.D. | 2.5% |
| Employed | |
| • Campus selection | 60-70% |
| • Other than campus recruitment | 10-20% |

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

| Branch/ Course | 2009-13 | 2010-14 | 2011-15 | 2012-16 |
|----------------|---------|---------|---------|---------|
| CSE | 82.3 | 97.05 | 98.26 | 99.5 |
| IT | 92.24 | 98.18 | 95.65 | 94.28 |
| EN | 95.7 | 92.2 | 97.2 | 95.4 |
| ECE | 98.4 | 99.2 | 99.1 | 99.2 |
| BT | NA | NA | NA | 86.6 |
| ME | 97.7 | 94.69 | 93.02 | 90 |
| Civil | 95.4 | 98.4 | 96.8 | 98.21 |
| CHEMICAL | 98.4 | 100 | 100 | 100 |
| MBA | 92.1 | 93.5 | 90.1 | 99 |
| MCA | 91.7 | 88.3 | 88.4 | 72.91 |

The university does not provide any mechanism to compare the result with other affiliated institutes.

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

At regular intervals the Institute conducts Guest Lectures, seminars and workshops on various topics to facilitate student progression to higher level of education and towards employment. NIET has made tie-up with a company called Engineer Zone, to prepare students for GATE. The Institute takes the students to industrial visits from time to time. Aptitude classes are arranged to prepare the students for written test of various companies. Various Group Discussions and Personal Interview sessions are held to help students for interviews. The Institute also organizes workshops from foreign universities and consultants to share information about GRE, GMAT TOEFL etc.

The Institution facilitates the students to higher level education and employment by providing group career sessions through CMC & PFS and industry experts. Such sessions also provide a platform for the students to know about the high potential courses that need to be pursued in order to excel in higher education in India and abroad. Information on university programmes, cost of studies, etc are also shared as far as possible. The Institute also provides coaching to the students who are aspiring for GATE.

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The progress of all the students is evaluated and the poor students are provided with academic counseling, supplementary educational materials, intensive WSDP classes, etc. Faculty mentors and parents interact with students who are at risk of drop out to find out the solutions to enable them to continue studies. The Institute also extends financial support to the needy students. The Institute makes efforts to minimize the dropout rate by:

- Conducting two session tests to enable the students to clear the conditions laid down by the University and holding a Special (third) Test for those who were not able to take the examination due to participation in an outside event or due to medical reasons to facilitate the students to complete the semester studies.
- Organizing WSDP classes for weak students. Faculty members are encouraged to put more efforts and take extra classes to make them capable to compete with other students.
- Skill development (spoken English, computer literacy, etc.): The College shapes not only the future but also the personality through skill development programmes, i.e., organizing special lectures on the spoken language to address the issue of fluency in English as many of the students come from a rural background and they face communication problems. Some soft skill courses are also conducted for personality development. It has been conducted in the Institute for many years by “Pyramid Finishing School (PFS)”.
- Offering financial assistance in the form of stipends/scholarships, concession in tuition fee to the economically weaker students, etc.
- Psychological counseling is given to the students by a trained counselor. In case of any emergency, parents are informed about their wards and they can also take appointments with the HOD/Director to discuss matters pertaining to their wards. Parents-teacher meeting is organized from time to time to discuss the various issues associated with the student's growth.
- Students are grouped under each faculty member as the mentor for having a free discussion about their problems.
- Conducting various motivational lectures and Workshop on Stress Management in the Institute.

5.4 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

The college organizes activities like sports, cultural and other extracurricular activities for the students in the college. The different committees of the college also give training/guidance to the students for participating in these activities organized by other institutions. The various activities organized in the campus year by year are as follows:

| S. No. | Activities | Year | No. of activities | No. of participants |
|--------|---------------------|-----------|-------------------|---------------------|
| 1 | Sports Activities | 2013-2014 | 19 | 1050 |
| | | 2014-2015 | 5 | 600 |
| | | 2015-2016 | 26 | 1350 |
| | | | | |
| 2 | Cultural activities | 2013-2014 | 2 | 120 |
| | | 2014-2015 | 4 | 140 |
| | | 2015-2016 | 5 | 354 |
| | | | | |
| 3 | Technical Events | 2013-2014 | 28 | 1200 |
| | | 2014-2015 | 14 | 856 |
| | | 2015-2016 | 53 | 2400 |

OTHER EVENTS

Year 2015-16

| S.No | DATE | Activity Name |
|------|------------|---------------|
| 1 | 17-10-2015 | Founder's Day |

Year 2014-15

| S.No | DATE | Activity Name |
|------|------------|---------------|
| 1 | 17-10-2014 | Founder's Day |

Year 2013-14

| S.No | DATE | Activity Name |
|------|-------------------------------|----------------------------------|
| 1 | 15 th August 2013 | Plantation under Green Gold Club |
| 2 | 17 th October 2013 | Founder's Day |

5.3.2 Furnish the details of major student achievements in co- curricular, extracurricular and cultural activities at different levels: University/ State/ Zonal/ National/ International, etc. for the previous four years.

The Institute always promotes its students to take active participation in off-campus events organized at the university/ state/ zonal/ national/ international level. Following table shows the active participation of students and their achievements in past four years.

The details are as under:

| S. No. | Activities | Year | No. of activities | No. of participants |
|--------|---------------------|-----------|-------------------|---------------------|
| 1 | Sports Activities | 2012-2013 | 1 | 1 |
| | | 2013-2014 | 7 | 37 |
| | | 2014-2015 | 12 | 12 |
| | | 2015-2016 | 6 | 27 |
| | | | | |
| 2 | Cultural activities | 2012-2013 | 6 | 26 |
| | | 2013-2014 | 27 | 27 |
| | | 2014-2015 | 5 | 5 |
| | | 2015-2016 | 1 | 1 |
| | | | | |
| 3 | Technical Events | 2012-2013 | 8 | 10 |
| | | 2013-2014 | 34 | 34 |
| | | 2014-2015 | 15 | 16 |
| | | 2015-2016 | 10 | 27 |

SPORTS MEET



NIET Indoor Games Challenge 2014 - CHESS



NIET Indoor Games Challenge 2014 TABLE TENNIS

Freshers' Function "Zreyas 2013"



Founder's Day Celebration



Freshers' Function "Armonia 2014"



"The Hidden You...A Talent Show"





Debate Competition



Painting Competition



Graphics T-Shirt Design Competition



Essay Competition



5.3.3 How does the college seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

For the optimum use of the curriculum and thereby benefitting the students the most, CMC takes feedback from its graduates and employers. The feedback is collected from the graduates during alumni meet and from employers during campus drives, seminars, conferences, workshops and guest lectures. The feedback helps in bridging the gap between industry and academia. It helps the Institute in designing the strategies to make our students industry-ready.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

The Institute publishes newsletters NIETimes and NIET Chronicle covering Institute's events, faculty achievements and students' activities. Editorial boards of both of these newsletters comprise students and teachers.

Most of the departments publish the latest developments in various areas through wall magazines.

Societal activities at Institute and departmental level are organized in form of competitions like Paper Presentation, Movie Making, Poster Making, etc. Institute has editorial club that is run by the students under the guidance of the faculty coordinator. Management of the Institute motivates the students to publish magazine, papers, and books under the editorial club.

Institute also motivates the PG students to publish their research papers in national and international conference/ journal that fulfill the requirement of the completion of their PG course.

Year 2013-14

Book Publication

A fiction entitled “What she says? What he meant?” was published by Dream House Publication in Year 2014 by **Richa Sharma** (B. Tech, Chemical 3rd year) & **Aamir Khursid** (B. Tech, Civil Engg 4th year).

Paper Publications

| S. No. | Title of the Paper | Author | Event Name |
|---------------|---|---|-------------------|
| 1. | Underwater Friction Stir Welding: An Overview | Tulika Garg, Priyank Mathur, Varun Singhal, Chirag Jain | Enzinius 2k14 |

| | | | |
|---|--|---|---------------|
| 2 | Joining of Bulk Metallic Material using Microwave Energy: A Review | Arjun Srivastav, Divyanshu Upadhyaya , Ashutosh Tomar | Enzinius 2k14 |
|---|--|---|---------------|

Year 2014-15

Paper Publications

| S. No. | Title of the Paper | Author | Event Name |
|--------|---|--|---|
| 1 | A Review of Friction Stir Welding for Joining of Dissimilar Material | Heramb Tiwari (ME 4 th Year) Ashish Yadav (ME 4 th Year) Arpit Chauhan (ME 4 th Year) | An International Conference & Exhibition on CETCME-2015 |
| 2 | A Review of Solid Based Disposal by Incineration With Generation of Electricity Without Emission of Toxic Gases | Vishwa Vipul Raunak Nishu Kumar Vivek Kumar Verma Lailo Nehar | An International Conference & Exhibition on CETCME-2015 |
| 3 | A Review of Friction Stir Welding for Joining of Various Aluminum Alloys | Alankrit Chandra Ashutosh Kumar Ishan Gautam Avanish Kumar Yadav | An International Conference & Exhibition on CETCME-2015 |
| 4 | Microwave Casting of Aluminum Alloys | Shubham Panwaria | An International Conference & Exhibition on CETCME-2015 |

Year 2015-16

Book Publications

1. A fiction on – “Grey – A Pun in everyone’s life” is written by Nandani Tyagi, B. Tech (ECE, 3rd year) in year 2015.
- **Paper Publications**
- Mayank Kumar Pandey, Dr. Dileep Singh, “Global wings through international modes of entry and Expansion” NIET Journal of Management, Volume VII, Issue 1, Summer 2015, ISSN -0975-7643

- Singh Devendra, Aggarwal Gaurav,- “Critical Review Of The Companies Act 2013” Journal of Engineering, ICT & Management, October, 2015/Issue 3/ ISSN No. 2230-9756
- Subhi Singh, Ritesh Rastogi, and Prem Sagar Sharma, “Automatic Lecture Attendance System using Face Reorganization,” in MATRIX Academic International Online Journal of Engineering and Technology (MAIOJET), Volume: 3, Issue: 1, Page No.: 36-40, April 2015. [ISSN: 2348-3326].
- Amar Pal Yadav, and C. S. Yadav, “Dynamic Approach for Measuring Internal Attributes of Object-Oriented System,” in International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume: 4, Issue: 4, Page No.: 1617-1622, April 2015. [ISSN: 2278-1323].
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- Deeksha Sharma, Abdul Khalid, and Shradha Parasher, “Reversible Watermarking on Medical Data,” International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume: 4, Issue: 1, Page No.: 11-17, January 2015. [ISSN: 2278-1323].
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 - Sapna Sharma, Chitvan Gupta ,“A Review of Plant Recognition Methods and Algorithms”, International Journal of Innovative Research in Advanced Engineering (IJIRAE), Issue 6, Volume 2 (June 2015)
 - Sapna Sharma, Chitvan Gupta, “Recognition of Plant Species based on leaf images using Multilayer Feed Forward Neural Network”, International Journal of Innovative Research in Advanced Engineering (IJIRAE), Issue 6, Volume 2 (June 2015)
 - N. R. Chandak and Babu Amit. “Effect of lime sludge on the strength and compaction of soil”, International Journal of Civil Engineering Research, SAP, 2015, 5(1): 18-20.
 - Yogesh Chaubey, Chandan Kumar,Sandeep Chauhan, Failure Analysis of Suspension System: Case Study:- Tata Indica, International Journal for Scientific Research and Development, Vol.3, Issue 09, pp 1085-1090, 2015, ISSN 2321 0613
 - Kapil Kumar, Sumit Kumar Mishra, Sumit Kumar (2015), Modelling and optimization of machining parameters in turning of H13 tool steel using response surface methodology-desirability function approach, International Journal of Advance research and Innovation (ISSN 2347-3258).
 - Kapil Kumar, Samar Sultan (2015), Effect of Electromagnetic Field and Mechanical Milling in the Synthesis of Metal Matrix Nano Composite, International Journal of Advance research and Innovation (ISSN 2347-3258).
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5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

The Institute has Student Academic Advisory Committee (SAAC) for a formal discussion with higher authorities and students so that the bridge can be minimize on the different academic issues. The SAAC comprises intelligent, average and weak students from each class. In addition to SAAC Institute have different clubs eg. editorial, music and dance, theatre, sports, fine arts, paint, etc. at department as well as Institute level. Additionally, the Institute has a number of students' committees to serve various purposes. They are:

- Anti- ragging committee
- Hostellers mess committee
- Students' co-ordination committee for cultural events sports & games
- Discipline committee

The formation and composition of the above students' committees are need based and generally, each committee consists of about five to ten students from senior batches, who have good organizational / managerial capabilities to assist in smooth conduct of various events / functions. These students' committees are funded by the Institute on requirement basis.

In addition to above mentioned societies and committees, every class has two student representatives, class coordinators and placement coordinators to handle issues related to student affairs. This group directly interacts with Director, Dean (SW) and HODs.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

The details of various academic and administrative bodies that have student representatives on them are:

Administrative Bodies

- 1) **Anti ragging committee**— The Institute has a well structured anti ragging committee which involves the participation of students.
- 2) **Student Welfare Committee**- The Institute has a student welfare committee headed by the Dean, Students' Welfare under which a student council is formed which assists in organizing various co-curricular and extra co-curricular events within the Institute.
- 3) **Placement Coordinator**- For the smooth functioning of Career Management Cell in the Institute, students are involved as placement coordinators.

Academic Bodies

- 1) Entrepreneur Development Cell (EDC)
- 2) CSI Student Chapter
- 3) ISTE Student Chapter

5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

NIET organizes alumni meet annually to network and collaborate with the alumni. In addition to the alumni meet, the Institute has a portal named 'Alma connect' to remain in touch with its alumni. The portal has almost 2073 registered users. The Institute also invites the graduates to guide the students through lectures, mentoring sessions, etc.

The Institute networks and collaborates with its former faculty members by inviting them to seminars, expert lectures, workshops, interview panel, etc.

Any other relevant information regarding Student Support and Progression which the college would like to include.

We also encourage our students to participate in media programmes by facilitating live discussions on TV channels like India TV, NDTV, etc. The students' innovative projects and their views on social issues are also made public through various newspapers.

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Vision:

To be an institute of academic excellence in the field of education, with future plan of becoming a deemed university, earn name and hence win faith of the society.

Mission:

To impart to its students a high quality education, develop their skills, broaden their mental horizon and nurture them into competent and talented professionals to meet the challenges of the new millennium.

Quality Policy:

Our quality policy is to develop highly skilled human resources with the ability to adapt an intellectually and technologically changing environment with the participating efforts of the management, staffs, students and parents.

The Institute focuses on imparting high quality education and developing highly skilled human resources with the ability to adapt to an ever changing intellectually and technologically environment. This is accomplished with participative efforts of the management, staff, students and parents.

The mission of the Institute inculcates a sense of pride and results in a competing environment with a continuous desire to excel in their respective fields. It makes them market connected, master their engineering skills, continuous learning aptitude, creativeness and adaptable to be an effective professional and a responsible citizen.

The mission statement of NIET strengthens its commitment to its students to prepare them as an ethical, value based and socially responsible professional of the modern era. The Pyramid Finishing School makes NIET the only institution in the region that imparts communication, personality and behavioral training to its student's right from the time they join NIET family in addition to their technical curriculum. The incubation centre, a galaxy of alumni, well equipped library, dedicated staff and progress based tailor made mentoring are some of NIET's distinctive characteristics that reflect in placement record of the institute.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The NIET Management extensively follows the “Principles of Continuous Improvement”. They regularly meet to define improvement Goals, measure current state, identify weak areas and issues that require improvements, brainstorm and agree on key initiatives, convert these initiatives into action plans with clear responsibilities and timelines, continuously measure the impact of these actions, take during course corrections if necessary and ensure that desired results are achieved.

These programs which drive the Quality policy of institute are CWQIP, TSDP & WSDP.

The Director involves Deans, HODs, and other employees holding key positions in the Institute in designing the quality policies and plans to support our vision. He forms small expert groups to come out with draft policies and procedure which are then debated in a larger forum for their objective, likely impacts including financial, possible fall outs mitigation plan etc. Once agreed an implementation plan is prepared, communicated to all concerned and rolled out.

Since, all the faculty members are involved in the process, it improves the sense of ownership of the decision, inculcates better team working, outside the box solutions and speedy implementation.

Each team member gets to contribute based on their expertise be it curriculum designing, examination, sports, facility management, cultural events, ERP, Research or administration.

6.1.3 What is the involvement of the leadership in ensuring?

The policy statements and action plans for fulfillment of the stated mission

- The leadership is committed to achieve its mission by imparting quality education to its students. The leadership takes responsibility to provide facilities for learning and growth of the Institute. To achieve the target, necessary road maps are drawn and responsibilities to accomplish them are given with accountability within a stipulated time. Proper budget is allocated to various departments for improving the infrastructure of their respective departments.
- The leadership encourages the participation of the faculty members and staff in the process of decision-making in institutional functioning. The policy statements and action plans are formulated, after careful consideration of all the stakeholders.

Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan

- The leadership strictly follows mission statement of the Institute in formulation and accomplishment of the strategic plan. Detailed implementation plans are prepared under the supervision and guidance of the Executive Vice President, Director, Deans and Departmental Heads of the Institute. Institute prepares a well-planned academic calendar before a new session commences. Multiple committees exist at the Department level,

which have responsibility to plan out activities for the development and ensure their timely execution. Each staff member prepares a lecture plan and content analysis for subjects allotted to them before the commencement of the classes in each semester. We have an elaborate system of collecting individual and group feedback. This feedback is meticulously analyzed and corroborated with appropriate performance measures. Gaps if any, are discussed in a committee of experts for suggesting corrective measures, policies and process changes.

Interaction with stakeholders

- The Institute interacts with students and their parents, staff, alumni, university administrators, and the state government for the smooth functioning of the Institute. The Institute interacts with the stakeholders through:
 - Mentors counseling to students
 - Director meeting with students
 - Director meeting with staff
 - Parents-teacher Meet
 - Placement drives
 - HR and VC conclaves
 - Alumni Meet
 - Governing Body Meeting
 - Different correspondence to the Stakeholders

Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders

- The policies and planning are properly supported after assessment and discussion with the stakeholders. The Director, Deans and HODs review the effective implementation of plans on the basis of the feedback taken from the students, alumni, teachers and employers etc.
- The suggestions given by the stakeholders during interactions, guest lectures and training programs are used for bridging the gap between academia and industry. Besides, the Institute has signed MOUs with various companies to provide additional technical training to the students. The Institute also provides the training in various technologies with support of C-DAC, Microsoft, and PTC, ARC, CARDEA LABS, iOS Apple, Cloud Computing, Big Data, Embedded System, VLSI, etc. To improve the performance of the students, through internal exams and coursework are conducted periodically and the results are reviewed and displayed for the students.

Reinforcing the culture of excellence

NIET leadership nurtures the culture of excellence on the campus in following ways:

- Various centers for excellence are being established with the help of experts of industry & academia to bring the culture of excellence

- Research and Development related programs are being organized frequently and Faculty members are encouraged to pursue higher education and rewarded for writing research papers
- Key international research journals and magazines are integral part of our library
- Faculty members are encouraged and supported to participate in Development Programs
- We also organize such programs frequently and invite participation to encourage cross exchange of views leading to mutual learning
- Inspiring people and creating culture of involvement, ownership, empowerment, entrepreneurship, improvement and accountability at all levels
- Support people throughout the organization to achieve their plans, objectives and targets
- Recognizing efforts in a timely and appropriate manner

Champion organizational change

The leadership effectively creates a team of champions to endorse the changes in the organization. The management involves itself in selecting and training suitable persons so that they could act as change champions. These champions positively implement the changes and avoid resistance to change within the organization. Some of its benefits are:

- To foster an adaptive mindset
- To promote creative thinking
- To involve key stakeholders and build commitment
- To work with people at different hierarchical levels
- To promote team work
- To plan and manage the change process
- To raise people's morale

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

The procedure adopted by the Institution to monitor and evaluate policies and plans of the Institution for effective implementations are:

- Instituting performance Goals and measures
- Feedback system
- Meticulous analysis of measures and identification of performance gaps
- Root cause analysis and improvement actions
- Improvement actions and their implementation
- Measuring the impact of improvement actions
- Continuous teacher-student assessment process
- Periodic feedback from stakeholders (parents, students, alumni and employers)
- Computerized record keeping system through ERP
- The Institute's leadership ensures effective management and implementation of plans for future development
- Institute abides by the rules and regulations of AICTE/AKTU

- The decisions taken by the appropriate regulatory bodies of the Institute are closely monitored by the respective committees for the implementation of any decision

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The top management of the Institute strengthens the academic environment through leadership at all levels. The management also fosters communication among students, faculty members and staff to promote a greater understanding of the process of academic activities. Director, Deans, Faculty members and staff members are involved in academic and other activities to implement the various academic plans and policies.

These leadership teams meet regularly, and also in small group as per the demands of the academic calendar and task in hand. Minutes of meetings with clear action, responsibility, and time lines are issued, resources are committed and reviewed frequently to make it a seamless process.

Following faculty members are involved in the academic leadership of the Institute:.

- Director General
- Director
- Dean (Academics)
- Dean (Students' Welfare)
- Dean (R&D)
- Dean (Administration)
- Dean (Ist Year)
- Dean (IIInd shift)
- Head of the Department
- Controller of Examination (COE)
- Time-Table Coordinators
- ERP Coordinators
- Placement Coordinators
- Class Coordinators
- Lab Coordinators
- Project Coordinators
- Cultural (Events) Coordinators
- Student Mentors
- Internal Quality Assurance Cell Coordinators

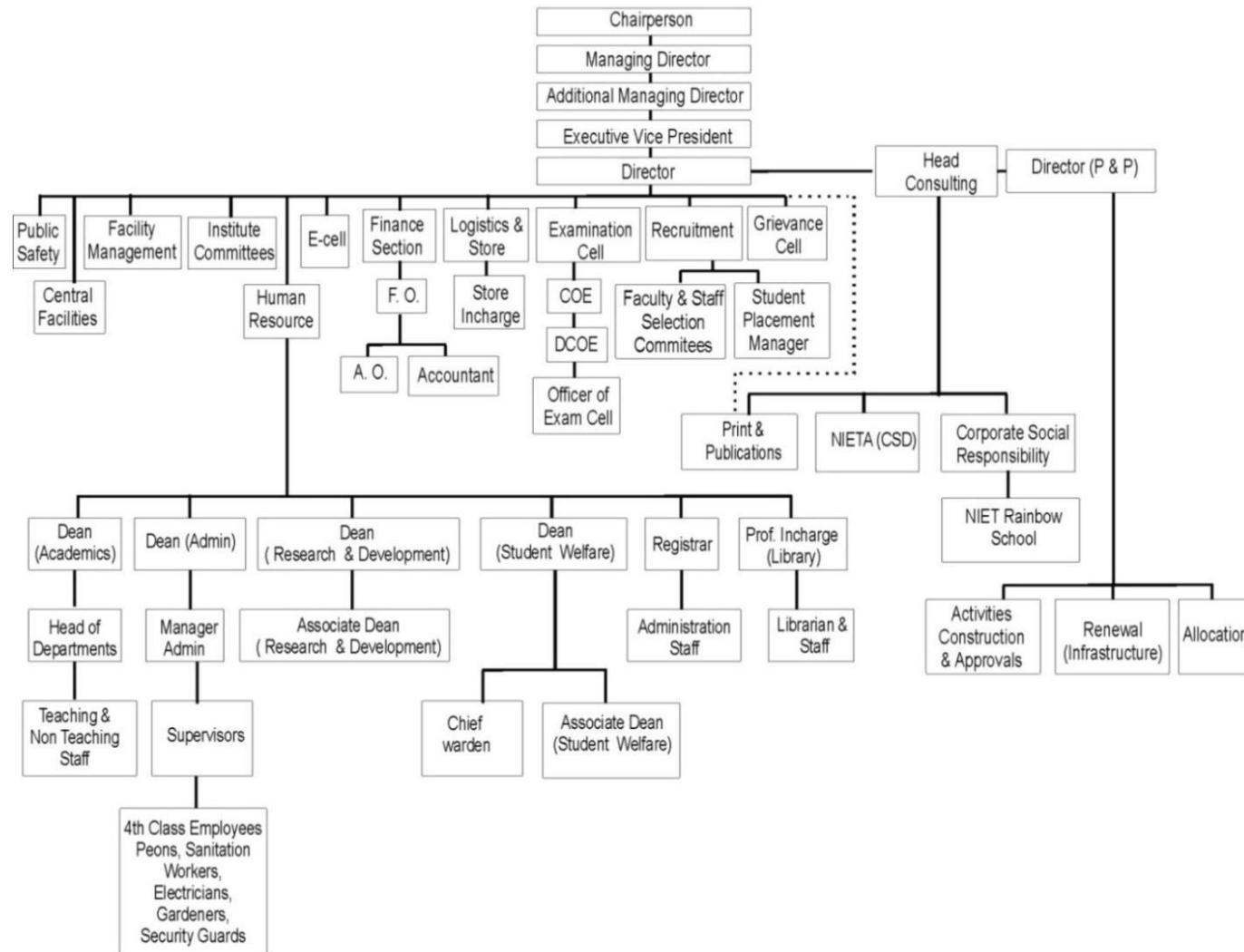
6.1.6 How does the college groom leadership at various levels?

- The Management encourages senior leaders of Institute to attend leadership programs regularly (Year 2015, Executive Vice President & Director attended Leadership Program at Oxford University (United Kingdom), Year 2016 senior leaders did leadership program with GALLUP India).
- The Institute fosters a culture of nurturing ideas, processing and funneling of ideas, resulting in shared vision and communication involving at all the layers of hierarchy.
- We encourage our leadership team members to seek “outside in view”, interact with experts by participation in national and international forums.
- We carry out a self-assessment session in which individual members rate themselves on 23 leadership traits, identify development areas for themselves and then jointly work out a plan to improve on these traits. Management provides all necessary support whether it is training, getting special work sessions, journals like Harward Business Review etc.
- The Institutional leadership fosters a mechanism of hierarchy and subject expertise for smooth functioning by forming small autonomous teams, as per their interest and experiences. At operational level, faculty and staff members are appointed for different roles for conducting all academic and administrative duties. This helps them hone their leadership skills.
- The top management also encourages the supporting staff by involving them in different activities of the Institute such as finance, record keeping, maintenance, and transportation. This fosters a mechanism of continuous mentoring.
- While honing the internal expertise and knowledge, we continuously scan the external environment for “Good practices” followed in other institutes/ industries and invite experts for interaction with our leadership team on regular basis sometimes on short term assignments also.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments/ units of the institution and work towards decentralized governance system?

- NIET follows a decentralized governance system. The core decisions related to the improvement and achievement of the objectives of the Institution are taken by the governing body. These culminate in form of goals and targets. The Director is delegated powers to ensure implementations of all these decisions. The Director is authorized to take all academic decisions in consultation with Deans, HODs, and other senior personnel of the Institute with given budget and resources. Further, Deans and HODs are authorized to take decisions at their level with full academic autonomy keeping all the institutional policies and guidelines of the top level management in view.
- Governing body reviews the progress on quarterly basis and also takes up special budget/ resource requirements, if any, to support the cause.

NIET ORGANISATION CHART



6.1.8 Does the college promote a culture of participative management? If ‘yes’, indicate the levels of participative management.

The institute thrives on the principle of team working and participative management, so much so that NIETians largely attribute its success to this specific cultural dimension. Entire Strategic planning, initiatives, goal setting, responsibility assignment and time lines is an iterative and participative process in our institute with active participation of various management layers. This helps in complete “buying in” by all and improves participation with total clarity.

The top management always welcomes opinions and suggestions of teaching and non-teaching staff, students and other stakeholders. We have a well-orchestrated suggestion scheme in which anybody can put his/ her suggestion, these suggestions are then reviewed by the subject team, originator is provided a feedback and top five suggestors are rewarded with a special dinner with the chair person on annual day.

We also conduct “theme based” suggestion campaigns before important events e.g. “suggestions for annual day”, this helps us in assimilation and processing wider perspective. The Director also calls meetings of staff having key positions every week inviting suggestions for improving the efficacy of the Institute. These ideas are pooled, prioritized and those requiring budget / resources are presented to governing body on monthly basis. Governing body regularly reviews progress and helps team make mid-course correction.

The Director is the Head of the Institution and also the member secretary of the governing body. The Heads of Departments work under Director for day to day functioning of individual departments. Every department has formed various committees and distributed the responsibilities among faculty members accordingly. Regular meetings of the faculty members with Head of Department are conducted in every department for efficient and timely execution of policies.

6.2. Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

Yes, our quality policy is to develop highly skilled human resources with the ability to adapt an intellectually and technologically changing environment with the participating efforts of the management, staff, students and parents.

1) The quality of teaching staff is improved through:

- National and international conferences
- Seminars on various issues in the field of engineering and technology, management.
- Workshops on various topics from time to time
- Training of the teaching staff by calling the experts from industries and research institutions.
- Supporting and encouraging the staff for higher education by providing academic leaves and ODs.
- The faculty members are motivated by monetary rewards to publish their research in reputed Journals.

2) The quality of students is improved through

- Full time availability of faculty members to solve the queries of students
- By assigning projects related to the real world problems
- By conducting special sessions by the experts to invoke the creativity and passion of students in different domains of research /study/engineering

3) The non teaching staff (especially lab support staff) is also trained by the faculty members and experts in the relevant discipline/field.

The quality policies are developed, driven, deployed and reviewed by the departmental Heads, Dean(s), Director(s) and governing body of the Institute from time to time according to the need of the industries in public and private sectors.

Apart from these general trainings, we do identify specific training needs of the individual and help individuals improve by providing training, mentoring support, counseling and reading materials.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

‘Yes’ NIET has prepared a Perspective Plan for the period 2014-2019 by taking into consideration the vision, mission and quality policy of the Institute. The Internal Quality Assurance Cell (IQAC) in the Institute devises the perspective plan for the development of the Institution with reference to quality sustenance and quality enhancement. Since faculty commitment is crucial for successful implementation of the Perspective Plan, they are fully involved in its development at all stages.

Noida Institute of Engineering and Technology (NIET) is the first engineering college in northern India and one among the 10 engineering college, chosen by the College of Engineering Pune (CoEP) as a part of the Margdarshan scheme of the All India Council for Technical Education (AICTE). The College of Engineering Pune, will act as a Mentor and is expected to conduct programmes for the technical enhancement of faculty and students at NIET in terms of teaching learning process and also shall guide in improving the curricula, faculty and placement record. NIET has signed a MoU with CoEP, paving a new way in creating an academic ambiance by nurturing and supporting quality education in Technical Institutes.



The Perspective Plan for 2014-2019 identifies the following broad targets. Since 2014-15 some of the short term and medium term goals have been achieved.

Educational Processes:

| Planned activities | Outcomes |
|---|---|
| ▪ To become a leading technical institute in the region. | ▪ The Institute is following the roadmap religiously. The efforts have been recognized by NIRF, MHRD, Government of India. In session 2015-16 the Institute is ranked at 99 th place among the best performing institutes of the nation. |
| ▪ To build a culture of research and innovation in all the departments. | ▪ All the departments have improved the number and quality of publications in the last three years. ▪ The management of the institute has supported the research activities by providing all support and motivation through cash rewards. ▪ Two in-house research journals has been started by the Institute. |
| ▪ To create an ecosystem for incubation of start-ups. ▪ Entrepreneurship | ▪ Entrepreneurship Development Programmes are being organized regularly. |
| ▪ Extra-curricular activities: Physical activities, Cultural activities, Festival celebrations, Service activities, and through Hostel life | ▪ The frequency of conferences, workshops and seminars has increased substantially. ▪ Many extra-curricular activities are being organized by student clubs |
| ▪ Industry engagement | ▪ CSI and Mozilla Firefox clubs have been established. ▪ Eight new labs are developed in collaboration with the industries. It includes collaboration with Microsoft, Apple and PTC etc |
| ▪ To prepare socially sensitive leaders in technology. | ▪ A Creative Design Cell (CDC) is developed to nurture creative thinking for the betterment of society. The competitions are organized by CDC. |

Human Resources:

| Planned activities | Outcomes |
|---|---|
| ▪ To recruit top quality faculty and staff. | ▪ A good number of faculty members with doctorate from premier institutions have joined the Institute |
| ▪ To develop high quality human resources to serve the nation | ▪ Many faculty members were encouraged for higher degrees. Some of them have completed their doctorate and some are in final phase. |

| | |
|---|---|
| <ul style="list-style-type: none"> ▪ To train and improve the quality of existing employees | <ul style="list-style-type: none"> ▪ A number of programmes are being organized regularly. Such as leadership program, faculty training & development program, short-term training program and staff development program etc. |
| <ul style="list-style-type: none"> ▪ To develop heterogeneous academic community for technological innovation and excellence in learning | <ul style="list-style-type: none"> ▪ The Institute recruits faculty members from all parts of the nation. The leadership is the blend of people from different IITs, NIETs and central universities. |
| <ul style="list-style-type: none"> ▪ To deploy technology for enhancing productivity and efficiency | <ul style="list-style-type: none"> ▪ The ERP is implemented for keeping the record of attendance and examination, library HR activities. |
| <ul style="list-style-type: none"> ▪ To strengthen the incentive structure associated with performance appraisal. | <p>The Institute has taken initiative to start new incentive schemes for nurturing the bondage of faculty and staff with the Institute. A few initiatives are as under:</p> <ul style="list-style-type: none"> ▪ The Institute is paying salary as per sixth pay commission reports. ▪ A Medical Insurance of Rs 100000/- per annum is started by the Institute for all faculty and staff members at a nominal cost of Rs 100/- per month. ▪ Chandrasen Agarwal Incentive scheme for faculty and staff members. ▪ Honorarium to faculty members for research publication in SCI journals. |

Physical Resources:

| Planned activities | Outcomes |
|--|---|
| <ul style="list-style-type: none"> ▪ To develop state-of-the art facilities | <ul style="list-style-type: none"> ▪ One new building is developed to house the central library and department of MBA and Department of Biotechnology |
| <ul style="list-style-type: none"> ▪ To deploy technology for enhancing productivity and efficiency of system. | <ul style="list-style-type: none"> ▪ The institute has started a Technology Business Incubation Centre for budding start-ups. |
| <ul style="list-style-type: none"> ▪ To create value through technology development | <ul style="list-style-type: none"> ▪ Eight new labs based on cutting edge technologies have been established in collaboration with industries. It includes Microsoft Innovation Centre, PTC competence centre, Apple's Research lab etc. |
| <ul style="list-style-type: none"> ▪ To develop state of the art facilities and prioritize the infrastructural investment options | <ul style="list-style-type: none"> ▪ A new library is developed with 24 x 7 open facilities for students. |
| <ul style="list-style-type: none"> ▪ To benchmark institutional infrastructure | <ul style="list-style-type: none"> ▪ Rainwater harvesting system is reestablished under the guidance of GNIDA |

| | |
|--|--|
| | <ul style="list-style-type: none"> ▪ Waste water treatment plant (STP) of 195 KLD has been installed for an environmental cause. ▪ Innovative UG projects of societal relevance ▪ A solar power plant of 100 KVA is being installed |
|--|--|

Governance:

| Planned activities | Outcomes |
|---|---|
| <ul style="list-style-type: none"> ▪ Nurturing integrity, creativity and academic freedom | <ul style="list-style-type: none"> ▪ A creative design cell (CDC) is established to promote innovation. |
| <ul style="list-style-type: none"> ▪ To optimize organizational processes | <ul style="list-style-type: none"> ▪ The processes are reviewed and analysed on regular basis. ▪ The admission process is refined every year. ▪ Registration process is modified in this session. |
| <ul style="list-style-type: none"> ▪ Departmental roadmaps to be followed with sincere efforts | <ul style="list-style-type: none"> ▪ A new Departmental Progress Report (DPR) is introduced since session 2015-16 ▪ A new Student Performance Report (SPR) is introduced since session 2014-15 to keep the record of students progress. |
| <ul style="list-style-type: none"> ▪ To strengthen the existing systems and procedures for conflict resolution and redressal of grievances | <ul style="list-style-type: none"> ▪ The Institute has created the requisite processes and mechanisms for handling grievances covering all sections-students, staff and women. |

Building Relationships:

| Planned activities | Outcomes |
|---|---|
| <ul style="list-style-type: none"> ▪ To weave research into academics and become a prospective research center in some areas of engineering and technology. | <ul style="list-style-type: none"> ▪ Many corporate engagement activities like HR Conclaves and Town Hall activities are being regularly organized to observe the gap between industry and academia. |
| <ul style="list-style-type: none"> ▪ To become a prospective partner for nearby industries and develop a culture of collaborative research and consultancy generation. | <ul style="list-style-type: none"> ▪ The institute has signed MoUs with thirty three nearby industries to foster industry-institute interaction. |
| <ul style="list-style-type: none"> ▪ To intensify the involvement of Alumni in all aspects of Institute's development. | <ul style="list-style-type: none"> ▪ A proper Alumni cell has been established in the Institute |

| | |
|---|--|
| <ul style="list-style-type: none">▪ Increase ISR activities | <ul style="list-style-type: none">▪ ISR activities like Rainbow school, self defence training, tree plantation and Swabhiman are in place. |
|---|--|

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- **Teaching & Learning**
- **Research & Development**
- **Community engagement**
- **Human resource management**
- **Industry interaction**

1. Teaching & Learning:

- The teaching and learning process is continuously monitored at institute level through Daily Academic & Administrative Monitoring Meeting (DAAMM).
- Special emphasis is given to course coverage and its timely completion as per the university syllabus and guidelines. Important and difficult topics relevant to subject matter are discussed by the expert faculty members and necessary guidelines, notes, numerical, standard solutions are provided to staff in advance to ensure uniform delivery across all sections.
- Expert subject faculty has an additional responsibility of tracking latest developments taking place universally in the subject and share with the concerned staff and students. Additionally, a special lecture is assigned to each class for discussion on the recent trends introduced in the particular field.
- We actively collaborate with the leading organizations and industries to train the students according to the present needs of the industry.
- Through Pyramid Finishing School students are trained over employability skills.
- All the classrooms are equipped with projectors and other accessories to ensure effective teaching and learning through audio/video lectures and visual display.
- Video lectures on particular subjects are provided to the faculty members to teach subject in more interactive way.
- Special care is taken for the students who are identified as weak in some or all subjects.

2. Research & Development

- The Institute makes continuous efforts to recruit and retain the faculty members who have good research inclination. Institute facilitates and rewards higher education, research papers publication, patent filing.
- Promoting research activities through PG programs in various departments.
- Focus on publication of good research papers by the faculty members. The faculty members are rewarded for publication in SCI indexed journals.
- NIET Journal of Engineering & Technology and NIET Journal of Management are published annually to cover good number of research papers.

- Faculty members are encouraged to pursue Ph.D. from reputed Universities from India and abroad.
- Research laboratories are being developed in all the departments.

3. Community engagement

- Institute has a running school on the campus “Rainbow School” for the children of economically weaker section of the society. We frequently call eminent people to interact with the students to promote it further
- Arrangement of funds for the natural disasters by inviting voluntary donations to help the victims
- Student clubs are motivated to conduct social activities for betterment of the community
- The office of the Dean (Students’ Welfare) keeps continuous monitoring of extra-curricular activities through feedback and suggestion scheme
- Regular tree plantation programs
- TCS Fit-for-Life Marathon
- Swachh Bharat Abhiyan
- Village Navada is Adopted for ISR activities
- Teaching for children's of labor and 4th class employees.

4. Human resource management

- The Institute follows a rigorous procedure for the recruitment of teaching and non-teaching staff. Job requirements are properly defined and candidates are assessed for best “Fit” by a panel of experts. The panel comprises Director, Head of the departments, Senior Professors and Experts from reputed academic institutions and universities.
- The salary of the employees is strictly as per the latest recommendations of the government and market connected, this reflects in retention and low attrition rate of the institute.
- Each individual has a well-defined role and target, and are assessed annually on the achievement of goals, leadership attributes, identification of gaps if any and individual development needs. Same is supported by the management in following year.
- Leave encashment, winter and summer vacation.
- Consistent outstanding performance and contributions are rewarded through additional increments and out of term promotions.
- Teaching and non-teaching staff members are deputed for specialized training.
- Other motivational schemes like Chandrasen Agarwal Incentive Scheme, Medical, EL encashment, Laptops on EMI, etc.

5. Industry interaction

- We invite Industry leaders for theme based talks.
- Special structural slots in the defined framework for students to visit industries
- Training and certification of students from different industries during their projects

- Specifically designed training programs for companies in line with their unique requirements e.g. Headstrong, HCL, etc.
- Campus drives to recruit the students and feedback from recruiters
- Signing MoUs with industries
- Organizing HR and VC conclaves

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

We have a combination of following formal/ informal settings in which senior leadership team meets the stake holders and receives feedback on various aspects.

- Through DAAMM (Daily Academic and Administrative Monitoring Meeting)
- Tea with The Director – Once a week Director meets a group of students in the evening over a cup of tea and snacks to discuss their issues pertaining to lodging, boarding, transportation, quality of infrastructure, labs, education etc. This also helps him seek their suggestions on upcoming events; in turn he also briefs them about major happenings.
- As similar weekly meeting is held over the breakfast along with a group of teachers from a particular stream (on rolling basis) to understand their issues.
- Family group meeting – Director meets his family group (direct reporters) once a month in which he processes the information / feedback gathered from above two interactions and take corrective/ improvement measures.
- One of the leadership team members make it a point to join sport events/ practice sessions to understand their needs and encourage them.
- The Director makes it a point to personally visit / take a round of hostels, kitchens, library, sports facility and food joints within campus to have first hand feel about their condition, and use this opportunity to interact with service staff and students.
- Parents-teacher meetings
- Recommendations of the alumni for overall improvement of the Institute
- Class coordinators
- Proctorial Board
- Students' Welfare Association

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The management encourages and supports the involvement of the staff by nurturing a culture of open and transparent communication, methodically inviting their suggestions, acknowledging their contribution, giving them frequent feedback about progress made on their suggestions and rewarding them.

Above stated action is supported by providing them a free hand to work in their respective areas of control with total delegation and authority. Every individual is clear about the task ahead since they were part of “Goal setting Exercise” and designing of strategic initiatives. NIET follows a democratic and all inclusive transparent process in

decision and policy making wherein each employee feels at home to work responsibly. The efficacy of the Institute is ensured thus:

- The workload is appropriately allocated by the HOD to the faculty members and staff as per their specialization and interest.
- Coordination among various departments
- College-level competitive examinations and games
- Rights to take decisions as per the requirement of academics
- CL/EL encashment scheme
- Cash prizes for their commendable results and for publishing research papers
- Participation in workshops, seminars, symposia and conferences at State, National and International levels
- Reimbursement of 50% fee for becoming the member of any professional body

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The management council made these resolutions in the last year and they have been successfully implemented. Some of the resolutions taken are as follows:

| S. No. | Resolution | Implementation Status |
|--------|--|---|
| 1 | Organise the International/National conference | The ECE and ME department organized and hosted international conference during this year. The conference had many papers and participation from all over India. |
| 2. | Students Chapters of professional bodies | The CSE/IT/MCA department started CSI Students Chapter from this year, many students get the membership of ISTE. |
| 3. | Participation in Faculty development Programs | The faculty members of all departments participate in FDP's organized by departments as well as other institutions. |
| 4. | NIET Journal Papers to be online | NIET Journal of Engineering and Technology are made available through institute website |
| 5. | Soft Skills Development Programs | The PFS of NIET organizes soft skills classes run by corporate trainers in every semester. |
| 6. | Collaboration with Microsoft | Microsoft provides training and certification in various technologies. |
| 7. | Foreign Language Cell | Already implemented. Japanese(with Japan Foundation) & German (with Max Mueller Bhawan) |
| 8. | CARDEA Research Lab | NIET has Centre of Excellence for Bio-Medical Instrumentation & Signal Processing |
| 9. | NIET TBI | NIET has developed Technology Business Incubator, Approved by Ministry of MSME, Govt. of India which initiates and monitors the entrepreneurship skills in the students. 10 Startups have already been successfully incubated |
| 10. | PTC Lab | NIET ties-up with PTC- Centre of Competence, to provide fully skilled, trained and retainable manpower |

| | | |
|-----|-----------------------------|---|
| 11. | Technical Skill Development | NIET has recently established 8 dedicated laboratories to strengthen the technical skills, Apple, IOT, Cloud Computing, Bigdata, Mobile App, Clinical Research & Bio-informatics, Product Design & 3d Printing, Embedded System |
| 12. | Advanced Robotic Cell | Advanced Robotic Control Lab(Indo-German collaboration) at institute helps students in transferring hi-end technology in the Automation & Mechatronics sector |
| 13. | NIET Mobile App | NIET has its Android Application where students and parents can access Institute recent news, events, notice and placement news, etc |
| 14 | TedX | NIET organizes first TedX talk and now making proposal to NIET Chapter of TedX |

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

YES, there is a provision in the norms of the affiliating university (AKTU) for according the status of autonomy to an affiliated institution. NIET has not applied for this status yet.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

We have instituted various committees to receive, investigate and act on the grievances, they are also responsible for suggesting and drafting long term policy changes to minimize the re-occurrence of such incidents. e.g., Anti Ragging Committee, Grievance Redressal Cell, Women's Grievance Redressal Cell, etc. Above ensures better environment to students, employees, and parents. Each incident is meticulously recorded and presented to the Director with disposition.

The **Anti Ragging Committee** includes Directors, Deans, HODs, Chief Proctor, Registrar, Parents, one member from Udayan NGO, Hostel Warden and some students. In view of the increasing number of girl students in the campus, Women Grievance Redressal Cell makes every effort to ensure that the girls feel at home. The cell resolves common problems of girl students and also takes up individual cases of sexual harassment, if any. Ragging in the hostels is strictly prohibited, and any adventure in this respect is punishable.

Convener of Women Grievance Redressal Cell is Dr. Ghazala Naaz and the committee members are Dr. Rupa Mazumder, Mr. Vineet Verma, Mr. C.S. Yadav, Dr. G.S. Chakraborty, Ms. Ekta Singh and Dr. Vipin Kumar.

These committees are published on the notice boards, institute website and other important places so that a person can promptly contact the concerned committee.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?

No court case has been filed by and against the institute.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If ‘yes’, what was the outcome and response of the institution to such an effort?

Yes, the Institution has a well-established mechanism for analyzing students' feedback on institutional performance. There is a set procedure for taking feedback. In every semester the first feedback is taken in the beginning of the academic semester usually after one month of the commencement of the classes. Thereafter, second feedback is obtained at the end of the academic semester. The Institution has fixed a complaint box in each block for students' suggestion and complaints. These complaints/suggestions are also heard and addressed as and when required. The student feedback received is discussed in the DAAMM and department meetings and appropriate action is taken by the authorities concerned. The feedback is conveyed to the concerned persons for corrective action. We are proud to say that over the time, numbers of complaints have reduced. This clearly reflects the faith and trust of the students and staff on Institute.

6.2 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

Following steps have been taken by the Institute to improve the professional development of its employees:

- Succession planning : Once a year Governing body takes stock of current resources, maps it against future requirements and based on appraisals, strengths, weaknesses of the employees deliberates on additional roles, lateral moves, end point growth, readiness to take new roles and also development needs to be ready for new roles. This is used to fill forthcoming vacancies internally and also to chalk out training and development road map.
- Communication skills, Finance for non-finance, Presentation skills, Microsoft Excel/ Power point training are some of the courses, we regularly conduct and the need for these was recognized as an outcome of above exercise.
- NIET regularly conducts Faculty Development Programmes (FDPs) & Quality Improvement Programmes (QIPs).
- We encourage team presentations and one on one mentoring for specific developmental need. In this case a senior resource adapts the employee and closely works with him/ her and helps them get over the specific weakness.
- NIET motivates its faculty members to attend the conferences by providing monetary support and special study leaves.
- Two in-house journals publicize individual's efforts/ papers/ achievements in the field of research, this helps inspiring faculty members for research.
- NIET has provision of study leaves for certification and quality improvement.

- NIET provides latest teaching aids to the faculty members to enhance the teaching abilities.
- NIET has created various professional groups of faculty members where they share knowledge.
- To bridge the gap between industry and academia, NIET has signed MOUs with various industries by which faculty members get associated with industry to work on latest tools and techniques.
- NIET conducts computer training classes at regular interval for non-teaching staff to enhance their computer knowledge.
- NIET organizes soft skill classes for non-teaching staff to enhance their interpersonal skills.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

Following steps have been taken by the Institute for the faculty empowerment:

- The faculty members are given autonomy to maintain their academic responsibilities through ERP. They can upload the assignments, tutorial sheets and attendance through ERP. The faculty members can share the knowledge content with their students using cloud technology. They have freedom to plan and schedule their lectures and mode of delivery.
- We invite faculty members to declare their research proposals, this essentially consists of theme, likely outcome/ benefits to society, support required and broad steps/ road map etc. We then support the initiative by getting associated journals, research papers, patent reports and provide financial and logistic support to the concerned employee.
- Continuous involvement right from Strategic Plan and goal setting to development of action plans inculcates a greater sense of ownership and buying in. It results in “Shared vision” and “Shared communication” in which each employee is clear about his/ her specific role and how it fits into “Big Picture”.
- The NIET management empowers its faculty members to attend seminars, conferences, workshops, FDPs, and symposia. During this period, OD and other incentives are provided to the faculty members.
- NIET gives freedom to its faculty members to organize seminars, workshops, conferences and guest lectures on various emerging technologies for the benefit of students. The financial freedom is given to organizing committee for smooth functioning.
- NIET gives freedom to carry out research in laboratories.
- NIET reimburses the membership fees of the professional bodies, societies and associations for faculty members
- Institute has the policy to provide monetary reward for publication in SCI journals

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

Institute has a uniform appraisal system for all the departments where roles and deliverables (measurable) are agreed between the head and the employee along with the cultural and developmental need. The individual is asked to self-appraise against these deliverables, which are then discussed with the Head and gaps are communicated. Based on this discussion, Heads submits the feedback of individual faculty member related to his/her contribution in academic, research, administration and personal conduct with respect to the department/college. The Head of department also recommends the increment/promotion of the faculty members on aforesaid basis. Besides, the institute provides timely increments to the faculty members.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

Since appraisal is also an important input for development needs and associated plans, it results in two outcomes:

1. On the basis of the recommendation of heads of departments, the management approves the additional increment and promotion of the faculty members. The management issues the increment budget with four slabs of performance in each grade. Annual increment is disbursed based on the individual's performance against deliverables, which has already been discussed between the employee and his superior. From time to time management benchmarks the salary and incentives with other prominent institutes and takes general corrections if needed, including changes in the government pay scale revisions.
2. Various incentive schemes like casual leave encashment, the best result reward is also given to the faculty members from time to time by the management. The review of the performance of appraisal reports is communicated to the concerned faculty members by the Director/Head of Department through office orders.

Appraisal system is also used to identify the strengths and developmental needs of an employee and a mutually agreed developmental plan including training needs forms the basis of next appraisal.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?

NIET has following welfare schemes for teaching and non-teaching staff:

- Dr. Sarojini Agarwal Medical Relief Fund and medical leave
- Tea coupons during examinations
- Subsidized transport and accommodation for its employees

- Financial support to the employees for pursuing higher studies
- Casual leave encashment
- Maternity leave for female staff
- Free education to the wards of teaching and non-teaching staff
- Free medical checkup and medicines
- Subsidized laptop for staff
- Sh. Chandrasen Agarwal Incentive Scheme (Family Trip)
- Provident fund for non-teaching staff members

Almost 100% of the faculty and staff members have got benefit of one or more of the above schemes.

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

Though financial incentive is an important element for retaining talent, participative management, freedom to work, clear delegation and responsibility and a fear free work culture in which each member of the team aspires to excel and is confident that his/ her good work will not go unrecognized has helped us maintain eminent long serving faculty.

Following measures have further helped us in this endeavor:

- Higher salary is offered to the deserving candidates
- NIET gives salary as per the recommendations of sixth pay commission of India
- NIET gives performance based promotions
- NIET provides financial assistance to its faculty members for research paper presentation
- NIET has provision of special loyalty rewards
- NIET gives out of term promotion to its eminent faculty members for their outstanding performances
- Policies as mentioned in section 6.3.5. are also followed

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

To monitor the effective and efficient use of financial resources the Institute follows a proper mechanism. The budget for financial year including cash flow requirements is prepared based on strategic goals and initiatives by the Heads of Departments. The budget is presented before Board of Governors for approval. The approved budget is disbursed for the tasks. The Institute has well developed accounting processes and statutory internal audit processes in place. All expenditures are pre-approved based on the authority matrix and vetted by internal audit and physical verification mechanism. Apart from this, an annual external audit is done by an approved firm.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

The Institute follows following mechanism for internal and external audit:

Internal Audit:

Institute has a team of accountants to audit the expenditures of the departments and the Institute.

External Audit:

Every year an external accountancy firm audits the account of the Institute. Account books are prepared as per the norms. For the financial year of 2014-15, V S Gupta and Company has completed the audit of the Institute in June, 2015.

No objection has been made by the auditing firm till date.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

The major source of income of the Institute is tuition fee. The college also receives some amount from other sources like hostel fee, bus charge, examination fee, registration fee, grants from AICTE, and interest on FDR. The major expenditure includes salary, maintenance, advertisement, labs and equipment, examination, library, transport facility, etc.

Income and expenditure statement of academic and administrative activities is attached in annexure.

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

NIET regularly applies for various funds from DST, AICTE, GoI, etc. for different activities. Previously the Institute received funding for MODROB project. Recently the Institute has been approved as a Training Provider of Telecom Sector Skill Council (TSSC) under National Skill Development Corporation (NSDC), MHRD, Govt. of India. The Institute has also applied for Research Promotion Scheme (RPS). The allocated fund is utilized for the approved scheme on a systematic manner.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If ‘yes’, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

‘Yes’. Being an ISO 9001-2008 certified organization; the Institute has a functional Internal Quality Assurance Cell. To ensure the quality practices at every level, the cell has members from every department. The cell looks at idea & issues and proposes changes in policies and procedures aimed at improving quality of education, faculty and infrastructure.

The Institute has a quality policy:

“Our quality policy is to develop highly skilled human resources with the ability to adapt to an intellectually and technologically changing environment with the participative efforts of the management, staff, students and parents”.

Quality assurance processes are institutionalized by scheduled reviews of the objectives of the quality policy by means of analysis, meetings, feedbacks etc. at department as well as institutional level.

b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?

All the decisions taken by IQAC so far have been approved by the management. Some of the decisions recommended and implemented are:

- ISO Certification
- Establishment of Creative Design Cell
- Scheduled lectures on latest technologies
- Establishment of various centers of excellence
- WSDP classes for poor students
- Formation of departmental societies
- Applying for NAAC and NBA

c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.

‘Yes’, IQAC of NIET has external members in its committee. The external member guided the institution in getting ISO 9001:2008 Certification and other quality improvements.

d. How do students and alumni contribute to the effective functioning of the IQAC?

Various feedbacks from students and alumni help us taking the corrective measures in our existing policies. All feasible suggestions are taken into consideration regularly and are implemented if found worthy: establishment of labs, various training modules, personality development programmes are the result of such suggestions.

e. How does the IQAC communicate and engage staff from different constituents of the institution?

Since IQAC consists of one member from every department, they act as an interface between IQAC and concerned department. Various means are adopted to communicate and engage staff from different constituents of NIET. Additionally, IQAC communicates with stakeholders by means of meetings, circulars and emails through ERP and corrective measures are taken.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If ‘yes’, give details on its operationalisation.

‘Yes’. The institution has an integrated framework for quality assurance of the academic and administrative activities which is followed by all portfolio holders. It starts with

defining Quality objectives and making them measurable. Having done this, responsibility is assigned to one of the directors/ dean to own one of these objectives. These members regularly report the update accordingly in DAAMM to ensure the implementation of quality polices of the Institute. All Directors, Deans and HoDs etc. are assigned various duties and responsibilities. Evaluation of internal processes is done by external bodies also for the continual improvement as per ISO 9001-2008 guidelines. An internal academic audit of the individual department is done as per the guidelines of quality assurance framework.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If ‘yes’, give details enumerating its impact.

It is our continuous endeavor to make Quality policies and procedures pervasive, because each and every person in the value chain has to contribute and follow the right process to ensure correct deliverable and service level. Hence mandatory training on Quality procedures is provided to each and every employee joining us, also top-up training is provided as and when there are process revisions.

The impact of such trainings is as follows:

- Trainings help in effective deployment of Quality procedures.
- Helps effective tracking of the progress made on Staff development and Faculty development programs.
- It has also improved the teaching-learning process
- It helps in smooth operation of the institution despite of having more than 5000 students and 500 staff members.
- Institute operations are gradually getting driven by set processes and dependence on individual is reducing. There are adequate review and control processes in place.
- As a result senior leadership team is now able to focus on future requirements and effectively plan & execute strategic initiatives.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If ‘yes’, how are the outcomes used to improve the institutional activities?

‘Yes’. NIET strictly abides by the rules and regulation of AICTE and AKTU, which itself ensures that all the academic activities are performed in an appropriate manner. NIET designs its own academic calendar semester-wise, which is in synchronisation with AKTU’s calendar and is strictly followed. Additionally, we also perform the academic audit by the internal committee. It is done department-wise by a team of senior faculty members. The team evaluates a department on the basis of lab resources, teaching-learning resources, processes adopted, documentations etc. At the end a report is submitted to the Director, who then informs the concerned Head for suggestive changes, if any, in the department. An academic brainstorming Session “Manthan” is organized to brood over various aspects of teaching-learning process and in what ways they can be improved.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/ regulatory authorities?

AICTE and AKTU are the external regulatory authorities to dictate the terms of quality assurance for the affiliated institutes and colleges. NIET being an affiliated institute abides by the rules of AKTU and AICTE. Annual external audits by these bodies ensure that the internal quality assurance mechanism is aligned with the requirements. Apart from it, the Institute organizes internal verification process to check the functioning of the departments so as to maintain the quality assurance. Being an ISO 9001-2015 certified institute, NIET has internal panel to ensure the quality policy.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

- The Director/ Dean Academics/ Associate Deans/ HODs office works to analyse the teaching learning process and review the students' feedback.
- Subject is allocated to the faculty members in their area of specialization and expertise.
- Faculty members prepare and submit the course file containing lecture plan, lecture notes and question bank, tutorial sheets, quizzes etc. before the commencement of the classes.
- Attendance Register containing the students' attendance, performance in tests and syllabus completion status is maintained by each faculty member. The attendance register is reviewed weekly by the Heads of Departments.
- The result of each semester is analyzed to review the performance of teaching-learning.
- Students' participation in co-curricular and extra-curricular activities is also noted to make required changes in teaching learning processes

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The vision, mission and quality policy of the Institute are displayed at the prime locations such as reception, library, seminar halls, offices of heads, canteen etc. Website, prospectus, magazine, newsletters of the college are the source of disseminating our vision and mission to everyone.

Family group meetings, Breakfast and evening tea meetings are also used to brief members about important developments/ changes.

Information regarding quality assurance policies is communicated to the internal stakeholders through circulars and e-mails. The alumni and other external stakeholders are informed through the Institute magazine, Institute website, mails and also through meetings held with them.

Any other relevant information regarding Governance Leadership and Management which the college would like to include.

The institute has developed its own system of governance in the form of DAAMM which is the need of the hour to keep pace with the rapid changes in technology and targeted excellence.

CRITERIAVII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Yes. The institute follows the guidelines set by Greater Noida Industrial Development Authority to develop a green city. In this regard a proper green belt is maintained within and outside the institute campus. In addition to plantation, the institute also makes its effort to enhance the use of green and clean energy. We also try to reduce down the level of pollutants in the campus by means of suitable parking strategy. Additionally, the buildings are designed to allow maximum sunlight and air circulation. The institute has proper system for waste management. The recyclable solid waste and non-recyclable waste are dumped in separate bins. A sewage treatment plant of capacity 195 KLD is installed for waste treatment. The institute is planning to use renewable sources of energy. Installation of a solar power plant of 300 KVA is under process. A qualified horticulturist is working to maintain the greenery within and outside the campus.

We also closely monitor the electricity and water consumption and run awareness campaigns to reduce/ keep their consumption in check. We also ensure that surplus food from mess is not wasted; instead it is distributed amongst the needy.

NIET is committed to Green policies and promotion of environment consciousness through campaigns for environmental reforms. To keep the staff and students aware NIET, regularly conducts tree plantations and eco-friendly awareness camps.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- * Energy conservation
- * Use of renewable energy
- * Water harvesting
- * Check dam construction
- * Efforts for Carbon neutrality
- * Plantation
- * Hazardous waste management
- * E-waste management

Energy Conservation

- The buildings are designed to allow maximum sunlight and air circulation.
- The institute has a Green Warrior Club to increase the public awareness about energy crisis and energy conservation.
- The institute propagates energy conservation through placards intimating staff and students to turn off lights and fans whenever not required. Guards also ensure the same.
- The introduction of TQM in campus has encouraged the use of green technologies and motivates the next generation for adopting the green policies.
- Different practices such as poster making competitions, seminars, workshops, marathon campaign, expert talks are also organized. The measures taken to conserve energy are shown in the table below:

| S No. | Measures | Action Taken for reduction |
|-------|-------------------------------|---|
| 1 | Lighting | Use of LED lights and promotion of the use of day light saving time hrs. |
| 2 | Fan | Use of star-rated electronic gazettes and switching off these gazettes when not in use. |
| | Cooler | |
| | AC | |
| | Water coolers | |
| | Geysers | |
| | Deep Freezer | |
| 3 | Water Purification | Use of physical methods to remove primary impurities such as adsorption, micro filtration etc. Use of larger units of filters. |
| 4 | Food cooking | Use of induction based cooking and solar cooking to reduce consumption of LPG. Use of PNG. |
| 5 | Laboratory equipments | Equipments are maintained periodically. User guidelines are strictly followed. |
| 6 | Computer labs | Monitors are switched off, display in energy saving mode, proper maintenance and switched off when not in use. |
| 7 | Transportation | Promotion of car pool, use of CNG vehicles, preference of big transportation vehicles for mass transfer, well trained drivers. |
| 8 | Sports and Fitness equipments | All the measures are followed and well trained staff for the maintenance of equipments. |
| 9 | Construction purpose | Use of skilled persons to reduce wastage of energy. |
| 10 | Water pumping | Expert supervision is ensured. Automatic ON/OFF Pumping system and star rated pumps are used. Water conservation and recycling techniques are promoted. |

Use of Renewable Energy

NIET adheres to the Green Policy and seeks for the alternative eco-friendly resources. The following initiatives have been taken to support it:

- Use of passive and active solar technologies such as lights and equipments
- Infrastructure supporting day light saving time
- Use of PNG supply for in-house activity
- Use of CNG vehicles to maximize the energy conservation
- All new ACs are five-star rated
- Use of ERP for reducing use of paper at workplace

Water Harvesting

We have network of rain water harvesting system, as per the norms of GNIDA, in the campus to ensure recharging of ground water.

Efforts for Carbon Neutrality: We are committed to turn NIET into a holistic green campus. So we are adopting some techniques to reduce the carbon emissions.

- NIET is practicing paper less communication system
- We have attendance automation for students and teachers
- Institute promotes use of e-journal, e-paper and e-news paper
- Guests are greeted with saplings/ flowers, no plastic is used
- Printing done on both sides of paper
- We have CNG vehicles
- Regular inspection of vehicles and generator sets are carried out
- We use PNG for cooking
- The institute has developed compressed air vehicle to reduce the air pollution. The vehicle is in process of commercialization

Plantation

NIET has a large plantation area, where many types of flowers and trees are planted by the students and Green Warriors. They encourage and create awareness among students for plantation. NIET has established botanical garden within the Institute and grows various herbs and shrubs in it.

About 800 trees/plants are growing on NIET campus.

List of plants and trees planted by students, with numbers:

| S No. | List of Plants planted by students | No. of Plants (2014) | No. of Plants (2015) | No. of Plants (2016) |
|-------|------------------------------------|----------------------|----------------------|----------------------|
| 1 | Champa | 32 | 38 | 42 |
| 2 | Mango | 10 | 15 | 17 |
| 3 | Neem | 7 | 9 | 10 |
| 4 | Amrood | 6 | 10 | 11 |
| 5 | Ashoka | 15 | 19 | 21 |
| 6 | Kachnar | 8 | 12 | 13 |
| 7 | Gudhal | 8 | 16 | 18 |
| 8 | Kamer | 9 | 14 | 15 |
| 9 | Ficus | 6 | 8 | 9 |
| 10 | Cycas | 10 | 15 | 17 |
| 11 | Bela | 12 | 17 | 19 |

Hazards and e-waste management

The institute does not produce any type of hazardous and radioactive waste. The biological and chemical wastes are disposed properly through incinerator. The electronic gadgets and computers which are discarded for use in the labs are disposed as scrap for safe disposal/recycling.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

1. **Training:** NIET has a 360⁰ training division named Pyramid Finishing School which focuses on student's employability skill.
2. **ERP:** NIET has an intra-organizational communication system, which collects statistical details of students and faculty members.
3. **TEDX:** NIET organizes TedX talk with an objective to share the enlightened ideas about business & technology.
4. **Incubation Centre:** NIET Technology Business Incubator approved by MSME & Govt. of India Startup is supported by the advisory body consisting of industrialists, venture capitalists, technical specialists and managers. It was established to help entrepreneurs to actualize their dreams. An Intellectual Property Right (IPR) cell has been created to facilitate filing of patents, copyrights and logos.
5. **Extra Classes:** NIET organizes extra classes on a regular basis for weak students.
6. **Microsoft:** The Institute has become the first Microsoft Ed-Vantage Platinum Campus in entire North India.
7. **Cloud Campus:** The institute is a Microsoft cloud campus.
8. **R&D:** The Institute has adopted a policy for giving monetary awards to faculty members for publishing their research papers in SCI indexed journals. This has considerably helped to improve R&D activities.
9. **Green Belt Six Sigma Certification:** The Institute has a tie up with KPMG to provide Six-Sigma Certification Course to the students to provide ample opportunities in their respective fields.
10. **ICICI Direct Academy:** It is a Center for Financial Learning which provides the students expertise in Capital Market.
11. **Workshops, Conferences and FDPS:** The Institute is now rigorously organizing workshops, conferences and faculty development programmes on a regular basis. It also publishes two in-house research journals (JOT & JOM) bi-annually.
12. **Industrial Visits:** The Institute organizes industrial visits related to the discipline and interest of students on a regular basis.
13. **Pearson:** Pearson VUE assesses students' ability through a computer-based examination.
14. **Bio-metric attendance system:** The Institute has bio-metric attendance system to promote paperless office.
15. **ICT enabled classrooms:** All classrooms are equipped with LCD projectors, white boards, Wi-Fi and LAN connectivity for internet, etc.
16. **Virtual Labs:** Participating as nodal center in MHRD-NMICT through IIT, Delhi.
17. **Innovation Labs:** Eight new labs in the areas of 3D Printing, Cloud Computing, Big Data analytics, Embedded Systems, Clinical Research & Bioinformatics, IOT, Apple iOS.
18. **Applied Robotic Control (ARC) Lab:** Indo-German collaborated ARC Lab at institute helps students in transferring hi-end technology in the Automation & Mechatronics sector.
19. **Foreign Language Labs:** Japanese Lab (with Japan foundation) & German enable students in gaining flexibility, communication and foreign language skills, and contributes to their personal and academic development.
20. **International Placement Office at Dubai:** NIET has overseas placement office at Dubai for International placements.

21. **Hostel:** The hostels are made fully Wi-Fi enabled. A well equipped gym for the students is established.
22. **Motivation:** The Institute motivates its students and teachers in following ways:
 - Meritorious students get monetary rewards through scholarships
 - Teachers are given laptops by the Institute on EMI
 - Tour package is given to one of the faculty members
 - Monetary rewards for publication in SCI journal
 - 50% reimbursement of membership fees on being the member of any professional body

7.3 Two Best Practices

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Practice 1

Title of the Practice: Innovative Teaching and Training for overall development

Goal: The aim of this practice is to develop positive environment where students and teachers can share innovative ideas and hone their skills to meet the industrial challenges.

The Context: The Institute offers different graduate and post-graduate programmes in Engineering, Computer Applications and Management studies. The quality of teaching is fundamental requirement for excellence and therefore the Institute opts innovative teaching and training practices for students.

The Practice:

- All classrooms and laboratories are ICT Enabled
- Extra classes on recent trends and technologies
- Project Based Learning (PBL)
- Course materials are available on Microsoft cloud
- The campus and hostels are Wi-Fi enabled
- Cutting edge technology based labs and Virtual Lab
- Multiple choice question based online tests for aptitude building
- DAAMM for feedback and necessary action
- Industrial visits, expert lectures, workshops, seminars, conferences, etc.
- The Institute provides financial assistance to faculty members to attend national and international conferences

Evidence of Success

- a. Continuous improvement in academic results
- b. University merit positions achieved by students
- c. Selection of students in civil services exams, GATE, GPAT, CAT, PSUs, etc.
- d. Excellent placement record through campus selections
- e. Excellent alumni and employer feedback
- f. Under the guidance of faculty members, research scholars have completed their M. Tech. and Ph.D.

Problems Encountered and Resources Required

- NIET being an affiliated institute has to follow the curriculum prescribed by the University. Due to time constraints, topics beyond syllabus cannot be covered in detail as per the needs of the industry.
- Retention of the experienced faculty members
- Decline in inclination towards technical education is a big challenge to get good students

Practice: 2

Title of Practice: Employability and Skills Development

Goal: To develop the most employable and skilled human resources with the ability to adapt to an intellectually and technologically changing environment.

The Context: To groom the students as professionals with technical expertise and professional ethics. As the need of the industry is continuously changing to cope up with the global challenges, they also have an expectation from institutes to provide industry ready manpower. The Institute has to maintain the continuously growing placement record and needs to upgrade the trainings as per industry suggestions.

The Practice

- The Institute has developed PFS as a center of excellence in soft skill trainings
- The Institute has nurtured the placement cell as Career Management Cell (CMC) to complement the requirement of holistic development of the students, not only for on-campus placements but also for other competitive examinations for higher education, research jobs, government sector jobs, etc.
- The Institute has different cells like EDC, IIPC, CDC, IPR cell, TBI, etc.
- The Institute runs various certification programmes through Microsoft Ed-vantage Platinum partnership, Oracle Workforce Development partnership, KPMG, Prometric Test Centre, etc.
- Institute encourages faculty members and students to visit industry.
- Promoting Entrepreneurship.
- Established Faculty Training &Development Cell (FTDC) in the Institute for quality improvement in teaching.

Evidence of Success

- NIET has achieved the highest placement records in the region continuously for last four years
- Technological advancements of students
- Enhancement of employability
- MoUs and tie-ups with industries
- Budding startups in NIET-TBI
- Alumni and employer satisfaction
- TCS has acknowledged PFS of NIET and has suggested other institutes to replicate the model
- Awarded as “Great place to study” at House of Commons, London(UK)
- NIRF, Ministry of HRD, Govt. of India has ranked NIET at 99th position in the country.

- Ranked 1st in Greater Noida and 27th in India as “Best Private Engineering College”, by Times of India
- UPSC awarded NIET as “Best College for Placement” in Uttar Pradesh

Problems Encountered and Resources Required

- To provide training along with university curriculum is tough task due to extensive syllabus, lack of awareness of the students about changing industrial environment and needs, and picking up the right professionals for soft skill development is a herculean task.
- Lack of motivation toward entrepreneurship.
- As far as required resources are concerned, the affiliating university should incorporate training on soft skills, employability skills and entrepreneurial programmes in its curriculum.

3. Evaluative Report of the Department

1. Name of the department : **Computer Science and Engineering**
2. Year of Establishment : **2001**
3. Names of Program/Courses offered (UG, PG, M. Phil., Ph.D., and Integrated Masters; Integrated Ph.D., etc.)

| S. No. | Level | Name of the Program | Specialization | Shift | Total Intake | Duration | Full Time/ Part Time |
|---------------|--------------|----------------------------|--------------------------------|--------------|---------------------|-----------------|-----------------------------|
| 1 | UG | B.Tech | Computer Science & Engineering | First | 180 | 4 Years | Full Time |
| | | | | Second | 60 | | |
| 2 | PG | M.Tech | Computer Science & Engineering | First | 18 | 2 years | Full Time |

4. Names of Interdisciplinary courses and the departments/units involved

| S. No. | Name of Course | Subject Code | DEPARTMENT |
|---------------|-------------------------------------|--------------------------|--------------------------------|
| 1 | Engineering Math. I, II & III | RAS 103, RAS 203,NAS 301 | Applied Science & Humanities |
| 2 | Professional Communications | RAS-104/204 | Applied Science & Humanities |
| 3 | Engineering Physics I, II | RAS 101,RAS 201 | Applied Science & Humanities |
| 4 | Elements of Mechanical Engineering | RME 101/201 | Mechanical Engineering |
| 5 | Basic Electrical Engineering | REE 101/201 | Electrical & Electronics Engg. |
| 6 | Basic Electronics | REC 101/201 | Electronics &Communication |
| 7 | Engineering Chemistry | RAS 102/202 | Applied Science & Humanities |
| 8 | Computer Aided Engineering Graphics | RCE151/251 | Civil Engineering |
| 9 | Engineering Physics lab | RAS 151,RAS 251 | Applied Science & Humanities |
| 10 | Engineering Chemistry Lab | RAS 152,RAS 252 | Applied Science & Humanities |
| 11 | Basic Electrical Engineering Lab | REE151/REE251 | Electrical & Electronics Engg. |
| 12 | Elements of Mechanical Engg. | RME151/RME251 | Mechanical Engineering |

| | | | |
|----|---|---------------|------------------------------|
| | Lab | | |
| 13 | Professional Communication Lab | RAS154/RAS254 | Applied Science & Humanities |
| 14 | Workshop Practice | RME152/RME252 | Mechanical Engineering |
| 15 | Computer Based Numerical and Statistical Techniques | NCS 303 | Applied Science & Humanities |
| 16 | Industrial Psychology | NHU 301/401 | MBA |
| 17 | Industrial Sociology | NHU 302/402 | MBA |
| 18 | Digital Logic Design | NEC 309 | Electronics &Communication |
| 19 | Human Values & Professional Ethics | AUC 001/002 | MBA |
| 20 | Engineering Economics | NHU 501 | MBA |
| 21 | Industrial Management | NHU 601 | MBA |
| 22 | Non Conventional Energy Resources | NOE-081 | Applied Science & Humanities |

5. Annual/ semester/ choice based credit system (Programme wise):

Semester/Choice Based Credit System (CBCS)

6. Participation of the department in the courses offered by other departments

| S. No. | Subject Code | Subject Name | Department |
|--------|---------------------|--------------------------------------|-----------------------------|
| 1 | RPH105 | Computer Fundamentals | B.Pharm |
| 2 | RPH 105P | Computer Fundamentals Project | B.Pharm |
| 3 | RCS 101/201 | Computer System and Programming in C | IT, EN, ECE, ME, CE, CH |
| 4 | RCS-151/251 | Computer Programming Lab | IT, EN, ECE, ME, CE, CH |
| 5 | NOE-031/ NOE-041 | Introduction to Soft Computing | IT, EN, ECE, ME, CE, CH, BT |
| 6 | ECS-039 | Object Oriented Systems and C++ | EN |
| 7 | NMBA IT 01 | Database Management System | MBA |
| 8 | NMBA IT 02 | System Analysis & Design | MBA |
| 9 | RMB 108 | Computer Application & MIS | MBA |
| 10 | AUC 001 | Human Values | B.Pharm, IT |
| 11 | AUC 002 | Cyber Security | ME, CE, B.Pharm |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

| S. No | Course | Industry | Number of Student benefitted in last three years |
|-------|--|-----------------------|--|
| 1 | Microsoft Certified Solution Developers(MCSD), Microsoft Certified | Microsoft Corporation | 528 |

| | | | |
|---|---|-------------------------|-----|
| | Solutions Associates(MCSA), Microsoft Technology Associate (MTA) under Microsoft Technology Associate Program | | |
| 2 | Apple iOS Developer University Program | Apple | 63 |
| 3 | Big Data and Analytics Lab | IOTA CELL, Bengaluru | 41 |
| 4 | Cloud Computing | IOTA CELL, Bengaluru | 147 |
| 5 | Internet of Things Lab using Raspberry Pi | IOTA CELL, Bengaluru | 15 |
| 6 | Mobile Application Development on Android Platform | IOTA CELL, Bengaluru | 148 |

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 48 | 3 |
| Associate Professors | | 3 |
| Asst. Professors | | 43 |

10. Faculty profile with name, qualification, designation, specialization (D.Sc./D.Litt.
/Ph.D./M. Phil. etc.,)

| S. NO | NAME OF FACULTY | QUALIFICATION | DESIGNATION | SPECIALIZATION | EXPERIENCE | NO. OF M.Tech/Ph.D GUIDED IN LAST 4 YEARS |
|-------|---------------------|---------------|------------------|---|------------|---|
| 1 | Dr. C. S. Yadav | Ph. D | Professor & Head | Soft Computing and Software Engineering | 18 Years | 10 |
| 2 | Dr. Priyanka Chawla | Ph. D | Professor | Cloud Computing, Evolutionary Algorithms and Software Engineering | 14.3 Years | 10 |
| 3 | Dr. Deepti Gupta | Ph.D | Associate | Data | 7.6 Years | 2 |

| | | | | | | |
|----|--------------------------|--------------------------------|---------------------|--|------------|-----|
| | | | Professor | Mining, Text Analysis | | |
| 4 | Dr. Mukesh Kumar | Ph.D | Associate Professor | Network Security | 12.8 years | 4 |
| 5 | Mr. Vineet Kumar | M. Tech, Ph.D* | Associate Professor | Image Processing | 16 years | 4 |
| 6 | Dr. S.K. Bharti | Ph.D | Assistant professor | Computational Neuroscience, Image and Video Processing, Pattern Recognition | 2.5 years | NIL |
| 7 | Mr. R. K. Goel | M.Tech, Ph.D* | Assistant Professor | CSE | 11 Years | 3 |
| 8 | Mr. Pradeep Kumar | M.Tech | Assistant Professor | CSE | 10 Years | 3 |
| 9 | Mr. Surya Prakash Sharma | M.Tech, Ph.D* | Assistant Professor | CSE | 11.9 Years | 4 |
| 10 | Mr. Harshvardhan Mishra | M.Tech | Assistant Professor | CSE | 9.10 Years | NIL |
| 11 | Mrs. Chitvan Gupta | M.Tech, Ph.D* | Assistant Professor | CSE | 11 Years | 5 |
| 12 | Mr. Pankaj Kumar | M.Tech, P.hd* | Assistant Professor | CSE | 7.5 Years | 8 |
| 13 | Mr. Sumit Malik | M.Tech | Assistant Professor | CSE | 5.8 Years | NIL |
| 14 | Mr. Sanjay Kumar Nayak | M.Tech | Assistant Professor | CSE | 10 Years | NIL |
| 15 | Mr. Veer Bhadra Singh | M.S. (Web Info. Systems) | Assistant Professor | CSE | 6 Years | Nil |
| 16 | Mr. Nishant Kumar Hind | M.Tech, Ph.D* | Assistant Professor | CSE | 8.9 Years | NIL |
| 17 | Ms. Dimple Chandra | M.Tech | Assistant Professor | Machine Learning | 3.8 Years | NIL |
| 18 | Mr. Dharmendra Kr Yadav | M.Tech, Ph.D | Assistant Professor | CSE | 6.5 Years | NIL |
| 19 | Mr. Vijyant Pawar | M.Tech | Assistant Professor | CSE | 4 Years | NIL |
| 20 | Mr. Pawan Kumar | M.Tech | Assistant Professor | Data warehousing | 3.5 Years | NIL |

| | | | | | | |
|----|--------------------------------------|------------------|---------------------|---------------------------|---|-----|
| 21 | Mr. Amit Gupta | M.Tech | Assistant Professor | CSE | 3.5 Years Teaching, 6 month Industry | NIL |
| 22 | Mr. R C Sahoo | M.Tech, Ph.D* | Assistant Professor | CSE | 13 Years | NIL |
| 23 | Mr. Jaykant Pratap Singh Yadav | M.Tech | Assistant Professor | CSE | 12 Years | 3 |
| 24 | Mr. Twinkle Tyagi | M.Tech | Assistant Professor | CSE | 1 Years | NIL |
| 25 | Ms. Ayushi Jain | M.Tech | Assistant Professor | CSE | 1.5 Years | NIL |
| 26 | Ms. Mehak Choudhary | M.Tech | Assistant Professor | Cloud Computing | 1 Years | NIL |
| 27 | Mr. Irphan Ali | M.Tech, Ph.D* | Assistant Professor | Soft Computing | 12 Years | NIL |
| 28 | Mr. Mayank Deep Khare | M.Tech | Assistant Professor | Information Technology | 2 Years | NIL |
| 29 | Mr. Amerendra Singh Yadav | M.Tech | Assistant Professor | Information Technology | 3 Years | NIL |
| 30 | Mr. Rahul Sharma | M.Tech | Assistant Professor | Cloud Latency | 2 Years | NIL |
| 31 | Ms. Poonam Jain | M.Tech | Assistant Professor | CSE | 1.8 Years | NIL |
| 32 | Ms. Reena Pawar | M.Tech | Assistant Professor | Cloud Computing | 1 Years | NIL |
| 33 | Ms. Soni Chaurasia | M.Tech | Assistant Professor | CSE | 6 Years | 2 |
| 34 | Ms. Tanu Jindal | M.Tech | Assistant Professor | CSE | 7 Years | 3 |
| 35 | Mr. Rajesh Pal | M.Tech | Assistant Professor | CSE | 3.5 Years | NIL |
| 36 | Abdul Mazid | M.Tech | Assistant Professor | CSE | 2 Years | NIL |
| 37 | Mr. Vivek Kumar Sharma | M.Tech | Assistant Professor | CSE | 4.5 Years | NIL |
| 38 | Mr. Gaurav Chaudhary | M.Tech | Assistant Professor | CSE | 2 Years | 2 |
| 39 | Km. Khushboo | M.Tech | Assistant Professor | CSE | 1 Years | NIL |

| | | | | | | |
|----|---------------------|--------|---------------------|-----|-----------|-----|
| 40 | Mr. Prateek Sharma | M.Tech | Assistant Professor | CSE | 2 Years | NIL |
| 41 | Ms. Nisha Verma | M.Tech | Assistant Professor | CSE | 4 Years | 5 |
| 42 | Mr. Rohit Chaudhary | M.Tech | Assistant Professor | CSE | 3 Years | NIL |
| 43 | Ms. Kalpana Dwivedi | M.Tech | Assistant Professor | CSE | 4 Years | NIL |
| 44 | Mr. Abnish Kumar | M.Tech | Assistant Professor | CSE | 8 Years | 3 |
| 45 | Mr. Devottam Gaurav | M.Tech | Assistant Professor | CSE | 1 Years | 1 |
| 46 | Mr. Trilok Rawat | M.Tech | Assistant Professor | CSE | 9 Years | 2 |
| 47 | Mr. Maneesh Kumar | M.Tech | Assistant Professor | CSE | 1.5 Years | NIL |
| 48 | Ms. Vandana Bharti | M.Tech | Assistant Professor | CSE | 2 Years | NIL |
| 49 | Dr. Vikas Chaudhary | Ph.D | Professor | CSE | 15 Years | NIL |

11. List of senior visiting faculty: 10

| S.No | Name of Visiting Faculty | Affiliation | Experience |
|------|--------------------------|--|------------|
| 1 | Mr. Vikas Aggarwal | TCS | 19 years |
| 2 | Dr. A. K. Sinha | Dir. UST Technologies, Former Head IT ABES | 37 years |
| 3 | Mr. Gaurav Gupta | Wipro Technologies | 10 years |
| 4 | Mr. Amit Chaudhary | Sr. Software Engineer, HCL Technologies, Noida | 16 years |
| 5 | Mr. Ashutosh Mishra | TechLeads (SW) Fiserve | 15 years |
| 6 | Mr. Rajesh Saini | Salesforce Techno-functional Consultant | 12 years |
| 7 | Mr. Amol Kulkarni | Account Manager Persistect System Ltd. | 18 years |
| 8 | Mr. Kamal Kishor Gupta | Sr. Manager EXL Service Solution Pvt. Ltd. | 12 years |
| 9 | Mr. Kunal Kaushal | Practive Head Data Analytics NEC Technologies India Ltd. | 17 years |
| 10 | Mr. Milind Pingale | Sr. Project Manager Presistent System Ltd. | 17 years |

12. Percentage of lectures delivered and practical classes handled (program wise)
By temporary faculty: NIL

13. Student-Teacher Ratio (Program wise):

| Course | Ratio |
|--------------|-------|
| B.Tech | 15:01 |
| M.Tech (CSE) | 12:01 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

| S.No | Staff | Sanctioned | Filled |
|------|----------------------|------------|--------|
| 1 | Technical Staff | 12 | 12 |
| 2 | Administrative Staff | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG.

| S. No. | Qualification | Number |
|--------|---------------|--------|
| 1 | Ph.D. | 06 |
| 2 | M.Tech. | 43 |
| 3 | B.Tech. | NIL |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**
18. Research Centre/ facility recognized by the University:

| S.No. | Research Centre | Details |
|-------|--|--|
| 1. | Microsoft Innovation Center by Microsoft Corporation | State of art lab where students & faculty have access to all Microsoft laboratories & software for application development |

| S.No | Name of Facility | Recognition |
|------|------------------------------------|---|
| 1. | Nodal Centre for Virtual Lab | IIT Delhi |
| 2. | Spoken Tutorial | IIT Bombay |
| 3. | Pre-Ph.D. Course Work | AKTU, Lucknow |
| 4. | miBEAT Lab | CARDEA LABS |
| 5. | Cloud Computing Lab | Amazon Web Services and EMC Corporation |
| 6. | Mobile Application Development Lab | NIET, Gr. Noida |
| 7. | Big Data & Analytics Lab | |
| 8. | Internet of Things (IoT) Lab | |
| 9. | Apple iOS Development Lab | Apple University Program |

19. Publications:

| No. of Publication | Citation | SNIP | SJR | Impact Factor | h-Index | Books/Monographs |
|--------------------|----------|------|-----|---------------|---------|------------------|
| 49 | 89 | - | - | 67.77 | 6 | 2 |

20. Areas of consultancy and income generated: The details of consultancy are as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|------------------------------------|--|---|-----------------------------|
| 1. Department of CSE | Thomson Prometric | Online Examination System | 898323.00 |
| 2. Prof. Vineet Verma | Skydev Software Solution Providing Pvt Ltd | Cloud Computing | 15000.00 |
| 3. Deptt. Of CSE | Sangal Paper Ltd | Implementation Planning of ERP Software | 60000.00 |
| 4. Deptt. Of CSE | Sangal Paper Ltd | Optimization of WiFi Hotspots | 5000000 |
| 5. Deptt. Of CSE | Sangal Paper Ltd | Implementation of Firewall | 30000.00 |

21. Faculty as members in

| S. No | Name of Faculty | Member in | National/International /Editorial Board Professional Bodies |
|-------|--------------------------|---|---|
| 1 | Dr. Chandra Shekar Yadav | ISTE | National |
| | | Red Cross Society | National |
| | | CSI | National |
| | | IET, Image Processing Review Committee | International |
| | | BOG, NIET | National |
| | | NIET Journal of Engineering and Technologies | National |
| | | BOS, CS/IT/MCA syllabi for session 2007-2012, UPTU, | National |

| | | | |
|----|------------------------|---|-----------------------------|
| | | Lucknow | |
| 2 | Dr. Priyanka Chawla | ISTE | National |
| | | ACM | International |
| | | International Journal of Electronic Design and Test | Editorial Board |
| | | IIRC – Research Community | Editorial Board |
| | | Technical Program Committee Member of SCESM 2017 | Technical Program Committee |
| | | Technical Program Committee Member of SCESM 2016 | Technical Program Committee |
| | | Technical Program Committee Member of INDIACOM 2017 | Technical Program Committee |
| | | National Research Journal of Information Technology & Computer Science | Editorial Board |
| | | National Research Journal of Computer Networking Technology. | Editorial Board |
| | | Journal of Computer Science, Science Publications, USA | Review Committee |
| | | FGCS, Elsevier | Review Committee |
| 3 | Dr. Deepti Gupta | IJSEKE, Springer | Review Committee |
| | | International Journal of Swarm Intelligence, Inderscience Publications. | Review Committee |
| 4 | Dr. S.K. Bharti | Society of Digital Information and Wireless Communications (SDIWC) | National |
| 5 | Mr. Nishant Kumar Hind | International Journal of Telemedicine and Clinical Practices, Inderscience Publications | Review Committee |
| 6 | Mr. Pradeep Kumar | CSI | National |
| 7 | Ms. Dimple Chandra | IEI | National |
| 8 | Mr. Abnish Kumar | ACM | International |
| 9 | Mr. Vivek Kumar Sharma | ISTE | National |
| 10 | Ms. Kalpana Dwivedi | The IRED institute of research engineers and doctors | National |
| 11 | Mr. Jay Kant Pratap | IAENG | International |

| | | | |
|----|---------------------|-------|----------|
| | Singh Yadav | UACEE | National |
| 12 | Mr. Devottam Gaurav | ISTE | National |

22. Student projects

| Level (UG) | Projects | | | | | |
|---------------|----------|---------|---------|----------|---------|---------|
| | In-house | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| Intake | 120 | 240 | 240 | 120 | 240 | 240 |
| Percentage | 100 | 100 | 100 | 10 | 15 | 25 |

23. (a) Awards/ Recognitions received by faculty

| S. No | Name of Faculty | Designation | Name of Award | Year | Agency |
|-------|---------------------|-------------|--|--------------|--|
| 1 | Dr. C. S. Yadav | Professor | Sikshak Sammaan by Honorable Minister Dr. Mahesh Sharma | 2016 | Rashtriya Shekshik Mahasangh(RSM) |
| | | | Best Faculty Award | 2014 2013 | NIET, Gr. Noida |
| | | | Appreciation letter for taking minimum leaves | 2013 | NIET, Gr. Noida |
| | | | Appreciation letter for organizing national Conference on Emerging Technologies in Computer Science | 2012 | NIET, Gr. Noida |
| | | | High impact teaching skill | 2009 | Dale Carnegie Training, ISO 9001 Certified |
| 2 | Dr. Priyanka Chawla | Professor | Appreciation certificate for delivering special talk on “Evolutionary Computation and Machine Learning” during AKTU sponsored FDP MLTA 2016. | 2016 | ITS, Greater Noida |

| | | | | |
|--|--|---|------|---|
| | | Session Chair of International Conference SCESM 2016 | 2016 | SN Education Society, India and URGCEE, USA |
| | | Received Appreciation certificate for organizing FDP on “Soft Computing Methodologies” | 2015 | I.T. S Engineering College, Greater Noida |
| | | Appreciation certificate for organizing Workshops on “C++ and UNIX” in coordination with at JRE Group of Institutions, Greater Noida. | 2014 | Spoken Tutorials, IIT Bombay |
| | | Received Certificate for successfully completion of training on “Cloud Computing and Aneka Platform” | 2013 | Manjrasoft, USA |
| | | Appreciation certificate for organizing International Conference Confluence 2012 at ASET, AUUP. | 2012 | Amity University, Uttar Pradesh |
| | | Got Certification by BSI on “Environmental Management System” (ISO 14001:2004) | 2012 | BSI |
| | | Certification from for passing the course on “HTML5 and CSS” | 2012 | Google |
| | | Appreciation certificate for organizing National Conference NCACT 2011 at ASET, AUUP | 2011 | Amity University, Uttar Pradesh |

| | | | | | |
|----|-------------------------------|-------------------------------|---|--------------|---|
| | | | Cloud Computing: Best Poster award in International Conference, ICDL | 2010 | TERI |
| | | | EMC Certified on “Information Storage and Management” | 2010 | EMC |
| | | | Appreciation certificate for organizing International IT Summit “Confluence 2010” at ASET, AUUP | 2010 | Amity University, Uttar Pradesh |
| 3 | Mr. R. K. Goel | Assistant Professor | UGC NET | 2012 | UGC NET |
| 4 | Dr. Deepti Guta | Associate Professor | M.Tech Gold medalist | 2005 | SATI,RGPB Bhopal |
| 5 | Dr. S.K. Bharti | RGNF-(JRF and SRF), UGC | RGNF-(JRF and SRF) UGC NET | 2008 2010 | UGC NET |
| 6 | Mr. Dharmender Kumar yadav | Assistant Professor | Sikshak Sammaan by Honorable Minister Dr. Mahesh Sharma | 2016 | Rashtriya Shekshik Mahasangh (RSM) |
| 7 | Mr. Pradeep Kumar | Assistant Professor | Best Faculty Award | 2013 | NIET, Gr. Noida |
| | | | UGC NET | 2012 | UGC NET |
| 8 | Mr. Harsh Vardan Mishra | Assistant Professor | Best Faculty Award | 2013 | NIET, Gr. Noida |
| 9 | Mr. Surya Prakash Sharma | Assistant Professor | UGC NET | 2012 | UGC NET |
| 10 | Mr. Sumit Malik | Assistant Professor | UGC NET | 2014 | UGC NET |
| | | | Best Faculty Award | 2013 | NIET, Gr. Noida |
| 11 | Mr. Sanjay Kumar Nayak | Assistant Professor | Best Faculty Award | 2012 | NIET, Gr. Noida |
| 12 | Mr. Nishant Kumar Hind | Assistant Professor | UGC NET | 2012 | UGC |
| 13 | Ms. Dimple Chandra | Assistant Professor | 100% Result excellence award for 2 years | 2014 | PDM, Bahadurgarh |

| | | | | | |
|----|--------------------------|---------------------|---|----------------------|--|
| | | | Cyber Law Certification | 2012 | Indian Law Institute, Delhi |
| | | | Awarded By Mahindra All India Talent Scholarship | 2007 | Mahindra |
| 14 | Mr. Vijyant Pawar | Assistant Professor | 98 Percentile in GATE | 2012 | GATE |
| 15 | Mr. R C Sahoo | Assistant Professor | Best faculty awards | 2014 | NIET, Gr. Noida |
| | | | UGC-NET | 2012 | UGC |
| | | | GATE | 2012 | GATE |
| 16 | Mayank Deep Khare | Assistant Professor | Best Paper Award in an international conference ICACEA-2015 | 2015 | ICACEA |
| 17 | Ms. Kalpana Dwivedi | Assistant Professor | Best research poster presentation award in Confluence 2014 | 2014 | Amity University, Noida |
| | | | Certificate of achievement letter for Fault Management System | 2014 | Tata Teleservices limited, Noida |
| | | | Certificates for outstanding performance in teaching | 2010 2009 2008 | GLA Univ. Mathura |
| 18 | Mr. Amrendra Singh Yadav | Assistant Professor | Simulation Using Netsim software | 2015 | DELLSOFT Technologies Pvt. Ltd. |
| | | | Having a Certificate of Appreciation letter for the Work shop of Research Methodology | 2015 | Sagar Inst. of Tech. and Management Barabanki. |
| | | | Certified System Security Professional | 2014 | NIELIT (formerly DOAECC). |
| | | | Certified System Security Professional Auditor • | 2014 | NIELIT (formerly DOAECC). |
| | | | GATE with 94% | 2012 | GATE |

(b) Awards Recognitions received by students

| S. No | Name of Student | Name of Award | Year | Agency |
|-------|---|---|------|-----------------|
| 1 | Paritosh Vatsal Tripathi and Hitesh Goel (Alumni) | TOP 9 in Microsoft Imagine Cup 2015 "Innovation Category" from all over India | 2016 | Microsoft |
| 2 | Paritosh Vatsal Tripathi (Alumni) | Awarded with MSME funding | 2016 | MSME |
| 4 | Devender Chandra (CSE 3 rd Year) | Won Best Paper award in "Student's Paper Presentation Activity" | 2016 | NIET, Gr. Noida |
| 5 | Nawal Kishore (CSE 3 rd Year) | Won Second Best Paper award in "Student's Paper Presentation Activity" | 2016 | NIET, Gr. Noida |
| 7 | Raushan Kumar (CSE 2 nd Year) | Won Third Best Paper award in "Student's Paper Presentation Activity" | 2016 | NIET, Gr. Noida |
| 8 | Vishal Chahal (CSE 4th Year) | Testimony (Coding competition) | 2016 | TCS |
| 9 | Lakhan Sharma (CSE 4th Year) | Testimony (Coding competition) | 2016 | TCS |
| 10 | Sateesh Pandey (CSE 4th Year) | Codevita (Coding competition) | 2016 | TCS |
| 11 | Shubham Pokriyal (CSE 4th Year) | Codevita (Coding competition) | 2016 | TCS |
| 12 | Sudhanshu Rai (CSE 2nd Year) | Dr. Sarojini Agarwal Award | 2016 | NIET, Gr. Noida |
| 13 | Sateesh Pandey (CSE 3rd Year) | Dr. Sarojini Agarwal Award | 2016 | NIET, Gr. Noida |
| 14 | Akhil Gupta (CSE 2nd Year) | Dr. Sarojini Agarwal Award | 2015 | NIET, Gr. Noida |
| 15 | Sateesh Pandey (CSE 3rd Year) | Dr. Sarojini Agarwal Award | 2015 | NIET, Gr. Noida |
| 16 | Risabh Jain (Alumni) | Testimony (Coding competition) | 2015 | TCS |
| 17 | Shubham Singh (Alumni) | Testimony (Coding competition) | 2015 | TCS |
| 18 | Shubhankit Porwal (Alumni) | Codevita , Code Geeks (Coding competition) | 2015 | TCS |
| 19 | Yash Raheja (Alumni) | Codevita , Code Geeks (Coding competition) | 2015 | TCS |
| 20 | Devendra Kumar (Alumni) | Codevita , Code Shark (Coding competition) | 2015 | TCS |
| 21 | Nitin Arya (Alumni) | Dr. O. P. Agarwal Award | 2014 | NIET, Gr. Noida |

| | | | | |
|----|-------------------------------|----------------------------|------|--------------------|
| 22 | Priyanshi Rastogi (Alumni) | Dr. Sarojini Agarwal Award | 2014 | NIET, Gr. Noida |
| 23 | Bahrat Kausik (Alumni) | Dr. Sarojini Agarwal Award | 2014 | NIET, Gr. Noida |
| 24 | Bhavna (Alumni) | Academic excellence award | 2013 | NIET, Gr. Noida |

24. List of eminent academicians and scientists/ visitors to the department:

| S. No | Name of Academicians/Scientists/ Visitor | Affiliation | Purpose | Year |
|-------|--|---|--------------------------------|------|
| 1 | Mr. Narendra Chandel | Regional Head, TCS | Expert Lecture | 2016 |
| 2 | Mr. Anuvrat Parashar | Software Engineer, Zopper | Workshop | 2016 |
| 3 | Mr. Panigarhi | Director of MSME | Seminar | 2016 |
| 4 | Mr. Rajit Sikka | Academic Relationship Manager North India TCS | Seminar | 2016 |
| 5 | Ms. Anubha | Assistant Manager, TCS | TCS Connect Session | 2016 |
| 6 | Mr. Pankaj Bhardwaj | SAS Consultant, TCS | Emerging Technologies | 2016 |
| 7 | Ms. Savita | Okhlama University | Seminar on Global Education | 2016 |
| 8 | Mr. Jasmeet and Mr. Rohan | Regional Manager, Aspiring Mind | Seminar | 2016 |
| 9 | Mr. Deepak Jindal | DGM, HCL | Seminar | 2016 |
| 10 | Capt. Ajay Sharma | Captain, Indian Navy | Seminar | 2016 |
| 11 | Ms. Madhu | Barclays HR | Career to Cooperate | 2016 |
| 12 | Mr. Mukul Singhal(IAS) | Principal Secretary, Technical Education Government of U.P. | Placement Felicitation Program | 2016 |
| 13 | Mr. Naveen Gabrani | CEO, Astrea, Noida | Seminar | 2015 |
| 14 | Mr. Sameer Rastogi, | CEO , India Juris ,New Delhi | Workshop | 2015 |
| 15 | Mr. Bhairab Patra,Mr. and Mr. Gurudutt Sharma, | Project Engineers of Virtual Labs at IIT Delhi | Workshop | 2015 |
| 16 | Mr. Kanan Krishnan | Amazon Regional Business Head, Delhi | Workshop | 2015 |
| 17 | Mr. Suraj Mohan Vishvkarma | Technical Architect, Dell | Workshop | 2015 |
| 18 | Dr. B S Rajput | Ex. V C, Kumaun | Seminar on | 2015 |

| | | University | Quantum Computing | |
|----|---------------------|---|---|------|
| 19 | Dr Meng Chow Kang | Director, Information Security, Cisco | Addressing Cyber Security | 2015 |
| 20 | Mr. Vishal Gupta | Engineer, Samsung (R & D) | Corporate Expectations from Fresher's | 2015 |
| 21 | Mr. Raju Jain | Sr. Software Engineer, Nagarro softwares , Gurgaon | Expert Lecture | 2014 |
| 22 | Mr. H N Hoda | Director BVICAM and Chairmen CSI Division II | Seminar | 2014 |
| 23 | Mr. Vishal Gupta | Engineer, Samsung (R & D) | Corporate Expectations from Fresher's | 2014 |
| 24 | Shri. T.K.A.Nair | IAS (Advisor, P.M. of India) | National Seminar | 2013 |
| 25 | Dr. Bharat Bhargava | Department of Computer Science, Purude University, Indiana, USA | End to end security and privacy in distributed system and cloud computing | 2012 |
| 26 | Dr. Manohar Lal | Ex. Director, School of Computer & Information Science, IGNOU | Advances in Artificial Intelligence | 2012 |

25. Seminars/ Conferences/ Workshops organized & the source of funding

| S. No | Seminar / Conference /Workshop | National/ International | Date | Funded by |
|-------|---|--------------------------|-----------------------|-----------------------------------|
| 1. | Seminar on “Entrepreneurship & IPR Awareness Program” | National | 01-02-2016 | Funded by NIET, Gr. Noida |
| | Seminar on “Quantum Computing” | National | 14-02-2015 | |
| | Seminar on “Digitization & Opportunities for Professionals” | National | 06-12-2014 | Funded by CSI and NIET, Gr. Noida |
| | Seminar on “Need of Entrepreneurial Revolution in emerging technologies in Current Global Scenario” | National | 16-11-2013 | |
| | National level Student Symposium “TECHNOVISION 2K12” | National | 21-10-2012 | Funded by NIET, Gr. Noida |
| | International Conference on “Advances in Computational Techniques and Research | International (Upcoming) | 03-02-2017-04-02-2017 | CSI, ISTE and NIET Gr. Noida |

| | | | | |
|----|--|----------|-----------------------|---|
| 2. | Practices” | | | |
| | National Conference on “Emerging Technology in Computer Science” (ETCS-2012) | National | 21-10-2012-22-10-2012 | Funded by NIET, Gr. Noida |
| 3. | Workshop on “Virtual Reality” | National | 07-11-2016 | Mozilla Club, NIET, Gr. Noida |
| | Digishop workshop on “Android, .Net, PHP and Bigdata” | National | 09-09-2016 | Funded by NIET, Gr. Noida |
| | Workshop on “Python 101” | National | 30-08-2016 | |
| | Techknack’2016 By Mozilla Firefox Club | National | 26-02-2016 | |
| | Workshop on “Amazon Web Services” | National | 17-11-2015 | |
| | TechSense’2015 by Mozilla Firefox Club | National | 17-10-2015 | |
| | Workshop on “Virtual Labs” | National | 15-09-2015 | Funded by IIT Delhi (An initiative of MHRD, India) |
| 3. | Workshop on “Intellectual Property Rights” | National | 25-07-2015 | Funded by NIET, Gr. Noida |
| | Workshop on “Bootstrap” | National | 20-02-2015 | |
| | Workshop on “Automation Testing” | National | 15-04-2014 | |
| | Two days workshop on “Computer fundamentals” | National | 23-05-2014-24-05-2014 | |
| | Workshop on “Unix/ Linux operating System” | National | 18-08-2013 | |
| | Workshop on “Tools for Testing the Quality of Software” | National | 12-10-2013 | |
| | Two days workshop “ NS 2” | National | 20-10-2012-21-10-2012 | |
| | Two days workshop on “Simulation Software and Tools” | National | 01-06-2012-02-06-2012 | |

26. Student profile programme/course wise:

| Name of the Course/ programme (refer question no. 4) | Batch/year | Applications received | Selected | Enrolled | | Pass % |
|---|------------|---|----------|----------|-----|--------|
| | | | | *M | *F | |
| B.TECH | 2016-2017 | By AKTU Lucknow (Formerly UPTU, Lucknow) | 249 | 207 | 42 | - |
| | 2015-2016 | | 252 | 207 | 45 | - |
| | 2014-2015 | | 247 | 201 | 46 | - |
| | 2013-2014 | | 241 | 182 | 59 | - |
| M.Tech (CSE) | 2016 | | 1 | 1 | NIL | - |
| | 2015 | | 21 | 9 | 12 | - |
| | 2014 | | 15 | 6 | 9 | - |
| | 2013 | | 18 | 8 | 10 | - |
| M.Tech (Software Engineering) | 2015 | | 2 | 0 | 2 | - |
| | 2014 | | 9 | 4 | 5 | - |
| | 2013 | | 18 | 10 | 8 | - |
| | 2012 | | 16 | 10 | 6 | - |

27. Diversity of Students

| Name of the Course | | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|------|-----------------------------------|---------------------------------|---------------------------|
| B.Tech | 2016 | 80.4 | 19.6 | 0 |
| | 2015 | 68.18 | 31.81 | |
| | 2014 | 76.60 | 23.40 | |
| | 2013 | 78.42 | 21.58 | |
| M.Tech (CSE) | 2016 | 100 | 0 | 0 |
| | 2015 | 50 | 50 | |
| | 2014 | 100 | 0 | |
| | 2013 | 100 | 0 | |
| M.Tech (SE) | 2015 | 0 | 0 | 0 |
| | 2014 | 100 | 0 | |
| | 2013 | 100 | 0 | |
| | 2012 | 100 | 0 | |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S.No | Year | Exam Qualified | No. of Students Qualified |
|------|------|----------------|---------------------------|
| 1 | 2016 | FATE | 01 |
| 2 | 2015 | GATE | 01 |
| 3 | 2014 | GATE | 09 |

29. Student progression

| Student progression | Against % enrolled 2015-16 | Against % enrolled 2014-15 | Against % enrolled 2013-14 |
|----------------------------------|-------------------------------|-------------------------------|-------------------------------|
| UG to PG | 01 in number | 01 in number | 08 in number |
| PG to M.Phil. | NIL | NIL | NIL |
| PG to Ph.D. | NIL | NIL | NIL |
| Ph.D. to Post-Doctoral | NIL | NIL | NIL |
| Placement | 110% | 101% | 72% |
| Entrepreneurship/Self-employment | 1% | 1% | 1% |

30. Details of Infrastructural facilities

a) Library:

Central Library has 1464 Titles, 6849 Volume of books

Department also has its own library having more than 105 books

b) Internet facilities for staff and students

Internet facility is provided to all staff members and students through campus

Wi-Fi, Reliance Jio hotspot and a leased line of 110 Mbps.

c) Total number of class rooms

B.Tech. – 15 class rooms with multimedia projector in each class room.

d) Class rooms with ICT facility

1. Dept. seminar hall equipped with audio & visual facility.

2. All student class rooms have provision of multimedia projector facility.

e) Students' laboratories

Number of Labs: 2 H/W Labs and 6 Computer Labs

Labs for Odd Semester

| S.No. | Lab |
|-------|---------------------------------|
| 1 | Digital Logic Design Lab |
| 2 | Data Structures Using C Lab |
| 3 | Numerical Techniques Lab |
| 4 | Advance Programming Lab |
| 5 | Design & Analysis Algorithm Lab |
| 6 | Database Management System Lab |

| | |
|----|---------------------------------------|
| 7 | Principle Of Programming Language Lab |
| 8 | Web Technology Lab |
| 9 | Distributed System Lab |
| 10 | Digital Image Processing lab |
| 11 | Project Lab |

Labs for Even Semester

| S. No. | Lab |
|--------|----------------------------------|
| 1 | Computer Programming lab |
| 2 | Operating System Lab |
| 3 | Computer Graphics lab |
| 4 | Microprocessor Lab |
| 5 | Functional Logic Programming Lab |
| 6 | Artificial Intelligence Lab |
| 7 | Computer Networks Lab |
| 8 | Software Engineering Lab |
| 9 | Compiler Design Lab |
| 10 | Project Lab |

All labs are CCTV covered and equipped with Air conditioners, Multimedia Projectors and white marker boards.

31. Number of student receiving financial assistance from college, university, Government or other agencies:

| S. No | Agency College/University/ Government | No. of Students | | |
|-------|---|-----------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1. | Social Welfare Department, Govt. of UP. | 177 | 224 | 237 |
| 2. | Financial Assistance by NIET | - | 2 | - |

32. Details on student enrichment Programmes (special lecture/ workshop/ Seminar) with external expert:

| S.No | Enrichment Programme | Special Lecture/ Workshop /Seminar / Conference | Date |
|------|-------------------------|---|------------|
| 1 | Special Lecture | Expert lecture on “General HR Skills and Prospectives” under Town Hall by Mr. Narendra Chandel, Head, Talent Acquisition North India, TCS | 09-06-2016 |
| 2 | | Expert Lecture on “.Net Technology” by Mr. Raju Jain, Team Leader, Nagaro Software , Gurgaon | 07-10-2014 |
| 3 | | Expert Lecture on “Parallel Algorithms” by | 15-11-2014 |

| | | | |
|----|----------|---|---------------------------|
| | | Mr. Lalit Mohan Goyal, Asstt. Prof. CSE Deptt., N.I.E.T., Gr.Noida | |
| 4 | | Expert lecture on “Adhoc Network” by Dr. Prashant Singh, Professor CSE Deptt. NIET, Gr.Noida | 25-04-2014 |
| 5 | | Expert lecture on “Blade Logic” by Mr. Sumit Jha, Team Leader, Orange Software, Gurgaon | 11-03-2014 |
| 6 | | Expert Lecture on “Advances in Artificial Intelligence” by Prof.(Dr.) Manohar Lal, Ex. Dir. School of Computer and Information Sciences, IGNOU, New Delhi | 19-03-2012 |
| 7 | | Expert Lecture on “End to End Security and Privacy in Distributed System and Cloud” by Prof.(Dr.) Bharat Bhargava , Dept. of Computer Science, Indiana, USA | 15-02-2012 |
| 1 | Workshop | Workshop on “Virtual Reality” | 07-11-2016 |
| 2 | | Digishop workshop on “Android, .Net, PHP and Bigdata” | 09-09-2016 |
| 3 | | Workshop on “Python 101” | 30-08-2016 |
| 4 | | Techknack’2016 by Mozilla Firefox Club | 26-02-2016 |
| 5 | | Workshop on Amazon Web Services | 17-11-2015 |
| 6 | | TechSense 2015by Mozilla Firefox Club | 17-10-2015 |
| 7 | | Workshop on “Virtual Labs” | 15-9-2015 |
| 8 | | Workshop on “Intellectual Property Rights” | 25-7-2015 |
| 9 | | Workshop on “Bootstrap” | 20-02-2015 |
| 10 | | Workshop on “Automation Testing” | 15-04-2014 |
| 11 | | Two days Workshop on “Computer fundamentals” | 23-05-2014- 24-05-2014 |
| 12 | | Workshop on “Unix/ Linux Operating System” | 18-08-2013 |
| 13 | | Workshop on “Tools for Testing the Quality of Software” | 12-10-2013 |
| 14 | | Two days workshop on “ NS 2” | 20-10-2012- 21-10-2012 |
| 15 | | Workshop on “Simulation Software and Tools” | 01-06-2012- 02-06-2012 |
| 1 | Seminar | Seminars on “Entrepreneurship & IPR Awareness Program” | 01-02-2016 |
| 2 | | Seminar on “Quantum Computing” | 14-02-2015 |
| 3 | | Seminar on “Digitization & Opportunities for Professionals” | 06-12-2014 |
| 4 | | Seminar on ‘Need of Entrepreneurial | 16-11-2013 |

| | | | |
|---|------------|---|-----------------------|
| | Conference | Revolution in emerging technologies in Current Global Scenario” | |
| 5 | | National level Student Symposium “TECHNOVISION 2K12” | 21-10-2012 |
| 1 | | International Conference on “Advances in Computational Techniques and Research Practices” | 03-02-2017-04-02-2017 |
| 2 | | National Conference on “Emerging Technology in Computer Science” (ETCS-2012) | 21-10-2012-22-10-2012 |

33. Teaching methods adopted to improve student learning:

Campus Wide Quality Improvement Programme (CWQIP)

1. Use of LCD Projectors to show videos and PPTs.
2. MOOCs (Massive Open Online Courses) is used
3. Use of NPTEL lectures
4. Practical Based Learning (PBL)
5. Students academic advisory committee (SAAC)
6. Project based Learning
7. CDC activities

Total Students Development Programme (TSDP)

Different activities are organized under this programme

1. Guest/Expert Lectures
2. Workshop/ Conferences
3. Skill development programmers
4. Training in Industry supported labs
5. Training on Aptitude and HR Skills
6. Technical Quiz /Competition
7. Mentor-Mentee policy

Weak Student Development Programme (WSDP)

1. Special Classes are organized for the Weak students
2. Extra Classes are organized for the Weak students
3. Peer adoption policy

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

1. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationery, Uniform & Mid-day Meals to needy people of our society.

2. Self Defense Training

To prepare girl students of NIET, to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari Shakti is undertaken that teaches them various tactics of self defense.

3. Tree plantation

The primary purpose of this activity is to imbibe in the staff and students, the importance of a green and healthy surrounding in a rapidly growing concrete jungle.

4. Project Swabhiman

NIET has become Academic Partner of Project Swabhiman: Employability & Entrepreneurship Development through skilling by SHIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.

5. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. During this event faculty and students took initiative regarding cleanliness and its maintenance in the campus and nearby places.

7. Holistic Activity

A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog group in the Institute

8. Healthy Living

- TCS Fit4life - Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated.

35. Strengths Weaknesses Opportunities Challenges (SWOC) analysis of the department and Future plans:

Strength:

1. Experienced Intellectual Capital
2. Cutting edge Laboratories
3. Industry Aligned Training Program
4. High Placement Percentage
5. Support by NIET Technology Business Incubator
6. Memberships of Professional bodies
7. Student Chapters for IEEE, CSI and ISTE

Weaknesses:

1. Communication skills among rural based students
2. Conventional university curriculum
3. Student interaction at international level
4. Industry exposure and interaction
5. Sponsored research project from Govt. agencies

Opportunities:

1. Student and faculty exchange programs with foreign universities
2. Promotion of interdisciplinary research activities
3. Revenue generation from training on Cutting Edge Technologies
4. Conversion of innovative ideas of researchers/students to commercialized products
5. To be part of Digital India
6. Product Development and Commercialization of student idea through NIET Technology Business Incubator

Challenges:

1. Automation of IT Industry
2. Technology change adaptation and upgradation of Intellectual Capital
3. Increasing number of private universities

Future Plan:

1. NBA Accreditation for the department
2. Establishment of Centre of Excellence for Augmented Reality and Virtual Reality
3. Centre of excellence for Big Data & Analysis

3. Evaluative Report of the Department

1. Name of the department: **Information Technology**
2. Year of Establishment: **2001**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., and Integrated Masters; Integrated Ph.D., etc.):

| S. No. | Level | Name of the Programme | Specialization | Shift | Total Intake | Duration | Fulltime / Part-time |
|---------------|--------------|------------------------------|------------------------|--------------|---------------------|-----------------|-----------------------------|
| 1 | UG | B.Tech | Information Technology | 1st | 120 | 4 Years | Fulltime |

4. Names of Interdisciplinary courses and the departments/units involved:

| S.No. | Name of Course | Subject Code | DEPARTMENT |
|--------------|--|-------------------------------|---|
| 1 | Engineering Mathematics I, II & III | RAS 103, RAS 203,NAS 301/ 401 | Applied Science & Humanities |
| 2 | Professional Communications | RAS-104/204 | Applied Science & Humanities |
| 3 | Engineering Physics I, II | RAS 101,RAS 201 | Applied Science & Humanities |
| 4 | Elements of Mechanical Engineering | RME 101/201 | Mechanical Engineering |
| 5 | Basic Electrical Engineering | REE 101/201 | Electrical & Electronics Engineering |
| 6 | Basic Electronics | REC 101/201 | Electronics & Communication Engineering |
| 7 | Engineering Chemistry | RAS 102/202 | Applied Science & Humanities |
| 8 | Computer Aided Engineering Graphics | RCE151/251 | Civil Engineering |
| 9 | Engineering Physics Lab | RAS 151,RAS 251 | Applied Science & Humanities |
| 10 | Engineering Chemistry Lab | RAS 152,RAS 252 | Applied Science & Humanities |
| 11 | Basic Electrical Engineering Lab | REE151/REE251 | Electrical & Electronics Engineering |
| 12 | Elements of Mechanical Engineering Lab | RME151/RME251 | Mechanical Engineering |

| | | | |
|----|---|---------------|---|
| 13 | Professional Communication Lab | RAS154/RAS254 | Applied Science & Humanities |
| 14 | Workshop Practice | RME152/RME252 | Mechanical Engineering |
| 15 | Computer Based Numerical and Statistical Techniques | NCS 303 | Applied Science & Humanities |
| 16 | Information Theory & Coding | NEC 408 | Electronics & Communication Engineering |
| 17 | Industrial Psychology | NHU 301/401 | MBA |
| 18 | Industrial Sociology | NHU 302/402 | MBA |
| 19 | Digital Logic Design | NEC 309 | Electronics & Communication Engineering |
| 20 | Human Values & Professional Ethics | AUC 001/002 | MBA |
| 21 | Engineering Economics | NHU 501 | MBA |
| 22 | Industrial Management | NHU 601 | MBA |
| 23 | Non Conventional Energy Resources | NOE-081 | Applied Science & Humanities |

5. Annual/ semester/choice based credit system (Program wise):

Semester (Choice Based Credit System –CBCS)

6. Participation of the department in the courses offered by other departments: Yes

| S. No | Name of Interdisciplinary Course | Subject Code | Name of the Department |
|-------|----------------------------------|---------------------|---|
| 1 | Computer System & Programming | RCS-101/ RCS-201 | Electronics & Communication Engineering, Electrical & Electronics Engineering, Chemical Engineering |
| 2 | Computer Fundamentals | RPH-105 | B. Pharmacy |
| 3 | Computer Fundamentals Lab | RPH-105P | B. Pharmacy |
| 3 | Computer Programming Lab | RCS-151/ RCS-251 | Electronics & Communication Engineering, Electrical & Electronics Engineering, Chemical Engineering |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

| S.No. | Name of Course | Name of Industry | Number of Students benefitted in last three years |
|-------|------------------------|----------------------|---|
| 1 | Big Data Analytics Lab | IOTA Cell, Bengaluru | 13 |

| | | | |
|---|---|--|----|
| 2 | Cloud Computing | IOTA Cell, Bengaluru &EMC ² | 15 |
| 3 | Internet of Things using Raspberry Pi | IOTA Cell, Bengaluru | 8 |
| 4 | Mobile Applications Development on Android Platform | IOTA Cell, Bengaluru | 53 |

8. Details of courses/programmes discontinued (if any) with reasons:

Nil

9. Number of teaching posts

| Designation | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 24 | 01 |
| Associate Professors | | 00 |
| Asst. Professors | | 18 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| S.No. | Name | Qualification | Designation | Specialization | No. of Years of Exp | No. of Ph.D./ M.Tech Students guided for the last 4 years |
|-------|---------------------|---------------|---------------------------------------|---|---------------------|---|
| 1 | Dr. Somesh Kumar | Ph.D | Professor | Soft Computing, Artificial Intelligence | 16 | Ph.D – 04 (Guiding) M.Tech – 06 (Completed) |
| 2 | Mr. Nagesh Sharma | M.Tech(CS) | Assistant Professor (Selection Grade) | Image Processing, Data Structures & Algorithm, Automata, | 12 | M.Tech- 01 (Completed) |
| 3 | Mr. Sachin Kumar | M.Tech | Assistant Professor (Selection Grade) | Soft Computing, Artificial Intelligence, Data Structures & Algorithm, | 08 | -- |
| 4 | Ms. Isha Mittal | M.Tech | Assistant Professor | Object Oriented Programming System with Java | 8 | -- |
| 5 | Ms. Priya Chaudhary | M.Tech | Assistant Professor | Software Engineering, Database | 6.5 | -- |

| | | | | Management System | | |
|----|-----------------------|---------|---------------------|--|-----|----|
| 6 | Mr. Vikrant Malik | M.Tech | Assistant Professor | Data Structures, Software Engineering, Graph theory, E-Commerce | 7.5 | -- |
| 7 | Mr. Pitamber Adhikari | M.Tech | Assistant Professor | Discrete Structures, Software Engineering, Compression | 7.5 | -- |
| 8 | Mr. Ram Kumar Sharma | M.Tech | Assistant Professor | Operating System, Software Testing, JAVA, C, Database Management System | 6 | -- |
| 9 | Mr. Bhupendra Kumar | M. Tech | Assistant Professor | Operations Research, Algorithm, Computer Graphics, Data Structures, Database Management System | 6 | -- |
| 10 | Mr. Amar Pal Yadav | M.Tech | Assistant Professor | ERP, Information Security | 5.4 | -- |
| 11 | Ms. Shruti Bhardwaj | M.Tech | Assistant Professor | Soft Computing, Computer Network, Operating System, Software Engineering | 3 | -- |
| 12 | Ms. Ritu Diwan | M.Tech | Assistant Professor | Logic Design, Software Engineering | 3 | - |
| 13 | Ms. Himali Chopra | M.Tech | Assistant Professor | Adhoc Network, Software Engineering | 5 | - |
| 14 | Mr. Abdul Khalid | M.Tech | Assistant Professor | Web Technology | 6 | -- |

| | | | | | | |
|----|----------------------|---------|---------------------|---|---|-----|
| 15 | Mr. Manu Sharma | M.Tech | Assistant Professor | Adhoc Network | 6 | -- |
| 16 | Mr. Gaurav Kumar | M.Tech | Assistant Professor | Web Technology | 5 | --- |
| 17 | Mr. Yadavendra Yadav | Ph.d* | Assistant Professor | Logic Design, Networks | 6 | -- |
| 18 | Mr. Prashant Tomar | M. Tech | Assistant Professor | C-Programming, Java, Data Structures | 5 | -- |
| 19 | Mr. Mohit Kumar | M.Tech | Assistant Professor | Programming Languages, Database Management System | 6 | --- |

*Ph.D pursuing

11. List of senior visiting/ adjunct faculty: **05**

| S.No. | Name of Visiting Faculty | Affiliation | Experience (years) |
|-------|--------------------------|-----------------------------|--------------------|
| 1 | Mr. Manas Ranjan Pradhan | BCH Electric Ltd, Faridabad | 13 |
| 2 | Dr. Sandeep Kumar | Centre (BARC) | 20 |
| 3 | Mr. Sanjeev Agrawal | BCH Electric Ltd, Faridabad | 13 |
| 4 | Mr. Rajanigandha Patra | HCL Technologies Ltd, Noida | 10 |
| 5 | Mr. Rajbhar | Simson Softwares Pvt. Ltd | 16 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **NIL**

13. Student -Teacher Ratio (programme wise)

B.Tech (IT): 15:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Sanctioned : 05
Filled : 05

| S.No. | Nature of Staff | Sanctioned | Filled |
|-------|----------------------|------------|--------|
| 1 | Technical Staff | 4 | 4 |
| 2 | Administrative Staff | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| S.No. | Highest Qualification | Number of Faculties |
|-------|-----------------------|---------------------|
| 1 | PhD | 1 |
| 2 | M. Tech | 18 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Nil

18. Research Centre /facility recognized by the University:

| S.No. | Research Centre | Details |
|-------|-----------------|---------|
| | NIL | |

| S.No. | Name of Facility | Recognition given by university |
|-------|--|---------------------------------|
| 1 | Virtual Labs | IIT Delhi |
| 2 | Microsoft Innovation Center | Microsoft Corporation |
| 3 | Cloud Computing Research & Training Lab | Amazon Web Services |
| 4 | Mobile Application Development on Android Platform | In House |
| 5 | Big Data & Analytics Innovation Lab | |
| 6 | Internet of Things (IoT) using Raspberry Pi | |
| 7 | iOS Development Center | Apple University Program |

19. Publications:

| No. of Publication | Citation Index | SNIP | SJR | Impact Factor | h- Index | Books / Monograph |
|--------------------|----------------|------|-----|---------------|----------|-------------------|
| 44 | 53 | | | 3.11 | 3 | 2 |

20. Areas of consultancy and income generated:

| S.No. | Area of Consultancy | Income Generated |
|------------|---------------------|------------------|
| NIL | | |

21. Faculty as members in:

| S.No. | Name of Faculty | Member in | National/ International/ Editor Board/ Professional Body |
|-------|----------------------|--|--|
| 1 | Dr. Somesh Kumar | Computer Society of India, Indian Society for Technical Education | National |
| 2 | | International Association of Engineers | International |
| 3 | | Institute of Research And Doctors | International |
| 4 | Mr. Bhupender Kumar | International Association of Engineers | International |
| 5 | | Institute of Research And Doctors | International |
| 6 | Mr. Ram Kumar Sharma | International Association of Engineers | International |
| 7 | | Institute of Research And Doctors | International |
| 8 | Mr. Amarpal Yadav | International Association of Engineers | International |
| 9 | | Institute of Research And Doctors | International |
| 10 | Mr. Gaurav Kumar | International Association of Engineers | International |
| 11 | Ms. Shruti Bhardwaj | Institute of Research And Doctors | International |

Members in Reviewer Committees:

| SL.NO | Name of the Faculty | Professional Body |
|--------------|----------------------------|--|
| 1 | Dr. Somesh Kumar | International Journal of Computer Applications, Published by Foundation of Computer Science, USA. |
| | | Computers and Mathematics with Applications, Elsevier |
| | | Neural Computing and Applications, Springer |
| | | Journal of Computational Science, Elsevier |
| | | Fourth Global Conference on Power Control and Optimization (PCO-2010), Malaysia. |
| | | Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur (For Ph.d. Thesis). |
| | | Jodhpur National University, Jodhpur (For Ph. D. Thesis) |

22. Student projects

| Course | Percentage of Students who have done Projects | | | | | |
|---------------|--|----------------|----------------|-----------------|----------------|----------------|
| | In House | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| B. Tech | 100 % | 100% | 100% | 30% | 35% | 10% |

23. Awards / Recognitions received by faculty and students:

a) Awards / Recognitions received by faculty

- Many of the faculty members have actively participated in various national, international conferences. Their research works are published in various national & international journals.
- Our Faculty is awarded with cash prize for producing results (from 95% to 100%) in end semester examination. The following data shows the details of faculty achievements for the past 4 years.

| S. No. | Name of Faculty/ Students | Name of Award | Year | Agency |
|---------------|----------------------------------|----------------------|-------------|------------------------|
| 1 | Dr Somesh Kumar | Best Faculty Award | 2014 | NIET, Greater Noida |

| | | | | |
|---|----------------------|--------------------|-------------------------------|--|
| | | Shikshak Samman | 2016 | Rashtriya Shaikshik Mahasangh, Uttar Pradesh |
| 2 | Mr. Nagesh Sharma | Best Faculty Award | 2014 | NIET, Greater Noida |
| | | NET | 2012 | UGC |
| | | GATE | 2007, 2009, 2012, 2013 & 2016 | GATE |
| 3 | Mr. Sachin Kumar | NET | 2012 | UGC |
| | | GATE | 2012 | GATE |
| 4 | Mr. Vikrant Mallik | Best Faculty Award | 2013 | NIET, Greater Noida |
| 5 | Mr. Bhupendra Kumar | GATE | 2009, 2010, 2012 & 2016 | GATE |
| 6 | Mr. Ram Kumar Sharma | Best Faculty Award | 2013 | NIET, Greater Noida |
| 7 | Mr. Amar Pal Yadav | Best Faculty Award | 2013, 2014 | NIET, Greater Noida |

(b) Awards/ Recognitions received by students

- Many of the students have participated in various technical events; national conferences held at various engineering colleges and won prizes.
- Students got cash awards from the Institution for holding top ten position at university level and top three position at college level:
 - Rank within top 10 in University : Rs. 50,000/-
 - Year wise college topper : Rs. 25,000/-
 - First Year topper (All branch) : Rs. 25,000/-
 - Branch wise topper : Rs. 10,000/-

Student Award List for Academic Performance

| Sl. No. | Batch | Year / Semester | Name of the Student | Award | Rupees |
|---------|-----------|----------------------|---------------------|----------------------------|--------------|
| 1 | | 2 ND Year | Deepika Verma | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 2 | 2013-2014 | 3 RD Year | Sandhya Shree | Dr. Sarojini Agarwal Award | Rs. 10,000/- |

| | | | | | |
|---|-----------|----------------------|----------------|----------------------------|--------------|
| 3 | | 4 TH Year | Devansh | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 4 | 2014-2015 | 2 ND Year | Vikrant Singh | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 5 | | 3 RD Year | Deepika Verma | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 6 | | 4 TH Year | Sandhya Shree | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 7 | 2015-2016 | 2 ND Year | Kanchan Verma | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 8 | | 3 RD Year | Vikrant Singh | Dr. Sarojini Agarwal Award | Rs. 10,000/- |
| 9 | | 4 TH Year | Prateek Kapoor | Dr. Sarojini Agarwal Award | Rs. 10,000/- |

Students Award List for Extra-curricular Activities:

| Extra-Curricular/Co-Curricular Activities 2013-14 | | | | |
|---|------------|------------------|------------------------------------|---|
| S. No. | Roll No. | Name | Activity | Organizer |
| 1 | 1213313010 | Aishwarya Ranjan | Rock The Floor | IEC, Greater Noida |
| 2 | 1213313011 | Akanksha Singh | Symposium,Rangoli | NIET, Greater Noida |
| 3 | 1213313029 | Awatansh Kumar | Robowar | NIET, Greater Noida |
| 4 | 1213313042 | Kanika Rai | Volley Ball | NIET, Greater Noida |
| 5 | 1213313055 | Pooja Gupta | Group Dance | GLBITM, Greater Noida |
| 6 | 1213313057 | Pooja Thapa | Robomaze,Volley Ball, Tech Fest | NIET, Greater Noida |
| 7 | 1213313059 | Prateek Kapoor | Nukad Natak | JRE Group of Institution, Greater Noida |
| 8 | 1213313080 | Shivanshi Singh | 200 Meter Race | NIET, Greater Noida |

Extra Curricular/Co-Curricular Activities 2014-15

| S.N | Roll No. | Name | Activity | Organization |
|-----|------------|--------------|-----------|---------------------|
| 1 | 1213313006 | Aditi Saigal | Quiz,Quiz | NIET, Greater Noida |

| | | | | |
|----|------------|------------------|---|---|
| 2 | 1213313010 | Aishwarya Ranjan | Group Dance | UPTU, Lucknow |
| 3 | 1213313011 | Akanksha Singh | Tug Of War, Basic Track, Ad-Mad, Glei, Debate | NIET,IIT Bombay, UPTU,NIET, Greater Noida |
| 4 | 1213313014 | Akshay Agarwal | C++, | NIIT, Greater Noida |
| 5 | 1213313020 | Anjali Dwivedi | Illustrate | NIET, Greater Noida |
| 6 | 1213313025 | Apoorwa Jayswal | Illustrate | NIET, Greater Noida |
| 7 | 1213313029 | Awatansh Kumar | Hurdle Mania, Robo Race, Robo Race, Tech Fest, Fusion, Robotics | IIT BHU,NIET,GNIT, NIU,GNIOT,AIMT, Greater Noida |
| 8 | 1213313034 | Deepika Verma | Quiz | UPTU, Greater Noida |
| 9 | 1213313042 | Kanika Rai | Programming In Core Java | ICMT, Greater Noida |
| 10 | 1213313057 | Pooja Thapa | Dance, Group Dance | UPTU,GLBIM, Greater Noida |
| 11 | 1213313059 | Prateek Kapoor | Rannbhook, Anchoring, Debate | AMITY University, NIET, Greater Noida |
| 12 | 1213313063 | Puneet Tayal | Mta, Cloud Computing, Quiz | IOTA Cell, UPTU, Greater Noida |
| 13 | 1213313081 | Shreya Sharma | Solo Singing, Relay, Artiface | UPTU,NIET, Greater Noida |
| 14 | 1213313090 | Sonam Arya | Basketball, Poster Making, Lemon & Spoon Race, Tug Of War | NIET, Greater Noida |
| 15 | 1213313097 | Vaishali Pandey | Quiz | UPTU, Lucknow |
| 16 | 1213313313 | Shashi | Relay | NIET, Greater Noida |
| 17 | 1213313090 | Sonam Arya | Mehdi, Rangoli, Painting, Kho-Kho | Sharda University, HIMT, Greater Noida |
| 18 | 1213313005 | Achint Malhotra | Treasure Hunt | UPTU, Lucknow |

Extra Curricular/Co-Curricular Activities 2015-16

| S. N. | Roll No. | Name | Activity | Organization |
|-------|------------|------------------|----------------|------------------------|
| 1 | 1213313010 | Aishwarya Ranjan | Spardha, Dance | IBA,UGI, Greater Noida |
| 2 | 1213313022 | Ankur Rai | Robo-Rash | NIU, Greater Noida |

| | | | | |
|----|------------|--------------------|---|---|
| 3 | 1213313029 | Awatansh Kumar | Dirt Robo Race Battle field robowar, Counter Strike, Eluding Strear, Robo Soccer, Star Quest, Tech Trishna, Robo Canon Ball, Robo Race, Terrain Tracker | NIET,AKGEC,NI U,GU |
| 4 | 1213313042 | Kanika Rai | Kabbadi, Kho-Kho | HIMT, Greater Noida |
| 5 | 1213313045 | Mayank Choudhary | Quiz | UPTU, NIET , Greater Noida |
| 6 | 1213313057 | Pooja Thapa | Spardha, Dance | IBA,UGI, Greater Noida |
| 7 | 1213313059 | Prateek Kapoor | Em 2k15 | SRM Delhi NCR Campus |
| 8 | 1213313080 | Shivanshi Singh | Greener Challenge, Solo Singing, Relay, Artiface, Kabbadi | HIMT, Greater Noida |
| 9 | 1213313313 | Shashi | Kabbadi, Kho Kho, Roar,Cloud Computing | HIMT,IIT Bombay, IOTA Cell, Greater Noida |
| 10 | 1413313054 | Prachi | Vollyball Tournament(Girl) | NIET, Greater Noida |
| 11 | 1413313054 | Prachi | Vollyball Tournament | NIET, Greater Noida |
| 12 | 1413313094 | Snehil | Basketball | Sharda University, Greater Noida |
| 13 | 1413313094 | Snehil | Basketball | IIMT, Greater Noida |
| 14 | 1413313053 | Poornima Chaudhary | 100 Meter Race | GLBITM, Greater Noida |
| 15 | 1413313053 | Poornima Chaudhary | Vollyball | JRE, Greater Noida |
| 16 | 1413313053 | Poornima Chaudhary | Vollyball Tournament(Girl) | NIET, Greater Noida |
| 17 | 1413313053 | Poornima Chaudhary | Vollyball | NIET, Greater Noida |
| 18 | 1413313067 | Rishabh Srivastava | Niet Firefox Club | NIET, Greater Noida |
| 19 | 1413313067 | Rishabh Srivastava | N.F.S. | NIET, Greater Noida |
| 20 | 1413313067 | Rishabh Srivastava | Pressure Hunt | NIET, Greater Noida |

| | | | | |
|----|------------|----------------|----------------------------|---------------------|
| 21 | 1413313061 | Priya Sharma | Niet Firefox Club | NIET, Greater Noida |
| 22 | 1413313061 | Priya Sharma | Vollyball Tournament(Girl) | NIET, Greater Noida |
| 23 | 1413313061 | Priya Sharma | Vollyball | JRE, Greater Noida |
| 24 | 1413313061 | Priya Sharma | Vollyball Tournament | NIET, Greater Noida |
| 25 | 1413313052 | Piyush Goyal | Ojas (Group Dance) | NIET, Greater Noida |
| 26 | 1413313038 | Mayank Agrawal | Computer Geek | NIET, Greater Noida |

24. List of eminent academicians and scientists/visitors to the department:

| S. No. | Name of Academic/Scientist/Visitor | Affiliation | Purpose | Year |
|--------|------------------------------------|---|---|--|
| 1 | Mr. Narendra Chandel | Regional Head Talent Acquisition North India, TCS | NIET-Town Hall | 9 th Jun 2016 |
| 2 | Mr.Mukul Singhal(IAS) | Principal Secretary, Technical Education Government of U.P. | Placement Felicitation Program | 15 th May 2016 |
| 3 | Mr. Pankaj Bhardwaj | Technical Consultant, TCS | Emerging Technologies | 24 th Feb 2016 |
| 4 | Dr. Meng Chow Kang | Director of Information Security, CISCO | Addressing Cyber Security Challenges: Cisco's Approach Before, During and After an Attack | 7 th Oct 2015 |
| 5 | Dr. B S Rajput | Ex. V C Kumaun University | Quantum Computing | 14 th Feb 2015 |
| 6 | Mr. Vishal Gupta | Technical Manager, Samsung (R&D) | Corporate Expectations from Fresher's | 27 th Sept 2014 |
| 7 | Shri. T.K.A.Nair | Ex. Advisor to P.M. of India | National Seminar on Skill India | 7 th & 8 th Jan 2013 |
| 8 | Shri S S Mantha | Chairman AICTE | | |
| 9 | Prof. Ved Prakash | Chairman UGC | | |
| 10 | Dr. Bharat Bhargava | Department of Computer Science, | End to end security and | 15 th Feb 2012 |

| | | | | |
|----|-----------------|--|--|------------------------------|
| | | Purude University, Indiana, USA | privacy in distributed system and cloud computing | |
| 11 | Dr. Manohar Lal | Ex. Director, School of Computer & Information Science, IGNOU | Advances in Artificial Intelligence | 19 th Mar 2012 |

25. Seminars/Conferences/Workshops organized & the source of funding

| S. No. | Seminar/Conference/Workshop | National/ International | Date | Funding Agency |
|--------|--|----------------------------|---|---------------------|
| 1 | Workshop on Virtuality | National | 7 th Nov 2016 | Mozilla firefox |
| 2 | Workshop on Open Source Technologies | National | 28 th Aug 2016 to 2 nd Sep 2016 | NITTTR, Chandigarh |
| 3 | Digishop Workshop on Android | National | 9 th Sep 2016 | NIET, Greater Noida |
| 4 | Python 101 Workshop | National | 30 th Aug 2016 | NIET, Greater Noida |
| 5 | Workshop on Virtual Labs | National | 15 th Sep 2015 | IIT, Delhi |
| 6 | Faculty development program on “Intellectual Property Rights” | National | 25 th Jul 2015 | NIET, Greater Noida |
| 7 | Seminar on “Entrepreneurship & IPR Awareness Program” | National | 25 th Jul 2015 | MSME, New Delhi |
| 8 | Digitization opportunities for professionals and organizations | National | 6 th Dec 2014 | CSI, Noida |
| 9 | Conference on “Emerging Technologies in Computer Science” | National | 20 th Oct to 21 st Oct 2012 | NIET, Greater Noida |

26. Student profile programme/ course wise:

| Name of Course/ Programme | | Applications received for admission* | Selected | Enrolled | | Pass Percentage |
|------------------------------|-------------------|---|----------|----------|----|--------------------|
| | | | | M | F | |
| UG | Session 2016-2017 | By AKTU Lucknow (formerly UPTU Lucknow) | 121 | 92 | 29 | --- |
| | Session 2015-2016 | | 105 | 68 | 37 | |
| | Session 2014-2015 | | 92 | 63 | 29 | --- |
| | Session 2013-2014 | | 110 | 79 | 31 | --- |

*

Applications are received by the affiliating University for admission and the number of applications is not known for specific department/ Institute.

27. Diversity of Students

| Name of Course/ Programme | | % of Students from same state | % of Students from other states | % of Student from abroad |
|------------------------------|-------------------|----------------------------------|------------------------------------|-----------------------------------|
| UG | Session 2015-2016 | 65.35 | 34.65 | NIL |
| | Session 2014-2015 | 60.60 | 39.40 | NIL |
| | Session 2013-2014 | 62.90 | 37.10 | NIL |

28. How many students have cleared Civil Services, Defense Services, NET, SLET, GATE and any other competitive examinations:

| S. No. | Year (session) | Exam Qualified (NET/GATE/Civil Services/ Defence Services/GMAT) | No. of Students Qualified |
|--------|----------------|---|------------------------------|
| 1 | 2011-2015 | CAT | 02 |
| 2 | 2010-2014 | GATE | 10 |
| 3 | 2009-2013 | GATE | 06 |

29. Student progression

| Student progression | Against % enrolled | | |
|-----------------------------------|--------------------|---------|---------|
| | 2015-16 | 2014-15 | 2013-14 |
| UG to PG | 1% | 1% | - |
| PG to M.Phil | NA | NA | NA |
| PG to Ph.D | - | - | - |
| Ph.D to Post-Doctoral | NA | NA | NA |
| Employed | | | |
| 1. Campus selection | 89 | 86 | 73 |
| 2. Other than campus recruitment | 10 | 12 | 10 |
| Entrepreneurship/ Self-employment | - | - | - |

30. Details of infrastructural facilities

b) Library:

Central Library has 733 Titles, 4577 Volume of books

Department also has its own library having more than 100 books

b) Internet facilities for staff and students

Internet facility is provided to all Staff members and students through Campus wifi, Reliance Jio hotspot & leased line of 110 Mbps.

c) Total number of class rooms

B.Tech. – 6 class rooms with multimedia projectors.

d) Class rooms with ICT facility

1. Dept. seminar hall equipped with audio & visual facility.
2. All student class rooms have provision of multimedia projector facility.

e) Students' laboratories

Number of Labs: 11 in odd semester
10 in even semester.

LABs for ODD Semester

| S.No. | Lab Code | Description of Labs |
|-------|----------|---------------------------------------|
| 1 | RCS-151 | Computer Programming |
| 2 | NEC-359 | Logic Design Lab |
| 3 | NCS-351 | Data Structures Using C Lab |
| 4 | NCS-353 | Numerical Techniques Lab |
| 5 | NCS-355 | Advance Programming Lab |
| 6 | NCS-551 | Design & Analysis Algorithm Lab |
| 7 | NCS-552 | Database Management System Lab |
| 8 | NCS-553 | Principle of Programming Language Lab |
| 9 | NCS-554 | Web Technology Lab |
| 10 | NIT-751 | Cryptography & Network Security Lab |
| 11 | NCS-752 | Project |

LABs for EVEN Semester

| S.No. | Lab Code | Description of Labs |
|-------|----------|----------------------------------|
| 1 | NCS-451 | Operating System Lab |
| 2 | NIT-451 | Multimedia & Animation Lab |
| 3 | NCS-455 | Functional & Logical Programming |
| 4 | NIT-456 | Colloquium |
| 5 | NCS-651 | Computer Networks Lab |
| 6 | NCS-652 | Software Engineering Lab |
| 7 | NCS-653 | Compiler Design Lab |
| 8 | NIT-654 | Seminar |
| 9 | EIT-851 | Distributed System Lab |
| 10 | EIT-852 | Project Lab |

All labs are CCTV covered and equipped with air conditioners, multimedia projectors and white marker boards.

31. Number of students receiving financial assistance from college, university, government or other agencies

| S. No. | Agency Collage/ University/Government | No. of Students | | |
|--------|--|-----------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department | 50 | 79 | 65 |
| 2 | Financial Assistance (By NIET) | 4 | 6 | 3 |

32. Details on student enrichment programs (special lectures / workshops /seminar) with external experts

| Special Lecture | Workshop | Seminar | Conference | Expert Lecture |
|-----------------|----------|---------|------------|----------------|
| 20 | 10 | 6 | 2 | 12 |

33. Teaching methods adopted to improve student learning
Various activities and programmes are organized

Campus Wide Quality Improvement Program (CWQIP)

- Use of Multimedia Projectors
- Practical Based Learning
- Creative Design Cell (CDC) Activities
- ICT based learning is practiced
- Faculty members carry their Course Files to the classroom and maintain student attendance and topics covered in their registers and also on the ERP (www.nietcampus.com) provided by the Institute
- Regular assignments are distributed and tests are conducted by the faculty members

Total Students Development Program (TSDP)

- Guest/Experts Lectures
- Workshop/Conference
- Training in Industry supported labs
- Training on aptitude and HR skills
- Technical Quiz/Competitions
- Industrial visit/Industrial Training
- Mentor-Mentee
- Paper presentation Activities by students
- Massive Open Online Courses (MOOCs) access to Khan academy and NPTEL Lectures
- Online remote classes of Niche Technology through GOTO meeting platform.

Weak Students Development Program (WSDP)

- Extra classes are organized for weak students
- Peer Adoption
- Remedial classes

34. Participation in Institutional Social Responsibility (ISR) and Extension activities.

1. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. The school runs in the Institute's premises. Apart from academics these children are also imparted vocational training. At present, there are around fifty students in the age group of three to eleven years and the number keeps growing with time.

2. Self Defense Training

To prepare girl students of all departments of NIET, to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari Shakti is undertaken that teaches them various tactics of self defense.

3. Tree plantation

The primary purpose of this activity is to imbibe in the staff and students, the importance of a green and healthy surrounding in a rapidly growing concrete jungle. Through this venture, the students of the IT department hope to foster a sense of team spirit.

4. Project Swabhiman

NIET has become Academic Partner of Project Swabhiman: Employability & Entrepreneurship Development through skilling by SHIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.

5. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swaccha NIET abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. During this event faculty and students took initiative regarding cleanliness and its maintenance in the campus and near by places.

7. Holistic Activity

A talk on "Technical Education in the Light of Universal Values" organized by the Sahaj Yog group in the Institute. The staff and students of department were benefited by this lecture.

8. Healthy Living

- TCS Fit4life - Campus Challenge: NIET organized "TCS Fit4life Campus Challenge" in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated. Out of 6 prizes were won by students of NIET.

35. Strengths Weaknesses Opportunities Challenges (SWOC) analysis of the department and Future plans.

Strength:

- Experienced Intellectual Capital
- Cutting edge technologies
- Industry Aligned Training Program
- High Placement Percentage
- Support by NIET Technology Business Incubator on startups
- Memberships of Technical bodies

Weaknesses:

- Communication skills among rural based students
- Conventional University curriculum
- International student interaction
- Extension programs

Opportunities:

- Scope for new PG Program for IT
- Student and faculty exchange programs with foreign universities.
- Promotion of interdisciplinary research activities
- Revenue generation from Training on Cutting Edge Technologies
- Innovative ideas which in turn can be converted to commercialized product

Challenges

- Automation of IT Industry
- Technology change adaptation and up gradation of Intellectual Capital
- Increasing number of private universities

Future Plan:

- NBA Accreditation for the department
- Centre of excellence for Big Data & Analysis

3. Evaluative Report of the Department

1. Name of the department: **Electronics & Communication Engineering**

2. Year of Establishment: **2001**

3. Names of Programmes/ Courses offered:

| S. No. | Level | Name of the Program | Specialization | Shift | Intake | Duration | Fulltime/Part-time |
|---------------|--------------|----------------------------|-------------------------------|--------------|---------------|-----------------|---------------------------|
| 1 | UG | B.Tech. | ECE | First | 180 | 4 Years | Fulltime |
| 2 | UG | B.Tech | ECE | Second | 60 | 4 Years | Fulltime |
| 3 | PG | M.Tech. | VLSI Design | First | 18 | 2 Years | Fulltime |
| 4 | PG | M.Tech. | Telecommunication Engineering | First | 18 | 2 Years | Fulltime |

4. Names of Interdisciplinary courses and the departments/units involved:

| S. No. | Interdisciplinary Courses | Subject Code | Departments |
|---------------|--------------------------------------|---------------------|--------------------|
| 1. | Cyber Security | AUC 002 | CSE |
| 2. | Data Structure &Algorithm | NEC 401 | CSE |
| 3. | Industrial Sociology | NHU 302 | MBA |
| 4. | Industrial Psychology | NHU 301 | MBA |
| 5. | Engineering & Managerial Economics | NHU 501 | MBA |
| 6. | Industrial Management | NHU 601 | MBA |
| 7. | Human Values & Professional Ethics | AUC 001 | MBA |
| 8. | Mathematics | NAS 301 | Applied Science |
| 9. | Technical Writing | RAS 154 | Applied Science |
| 10. | Soft Computing | NOE 031 | CSE |
| 11. | Engineering Mathematics | RAS 103 | Applied Science |
| 12. | Engineering Physics | RAS 103 | Applied Science |
| 13. | Engineering Chemistry | RAS 102 | Applied Science |
| 14. | Basic Electrical Engineering | REE 101 | EN |
| 15. | Elements of Mechanical Engineering | RME 101 | ME |
| 16. | Professional Communication | RAS 104 | Applied Science |
| 17. | Computer System and Programming in C | RCS 10 | CSE |

5. Annual/ semester/ choice based credit system (programme wise): **Semester (CBCS)**

6. Participation of the department in the courses offered by other departments:

| S. No. | Subject | Subject Code | Department |
|---------------|-------------------------|---------------------|----------------------------|
| 1 | Electronics Engineering | REC 101/102 | EN, CS, IT, ME, CH, CE, BT |
| 2 | Non-Conventional Energy | NOE 081 | CE |

| | Resources | | |
|---|---|---------|---------|
| 3 | Switching Theory and Logic Design | NEC 304 | CSE, IT |
| 4 | Analog & Digital Communication. | NEC 702 | EN |
| 5 | Analog Integrated Electronics | EEC 509 | EN |
| 6 | Digital Signal Processing | NEC 011 | EN |
| 7 | Microprocessors | NEC 504 | EN |
| 8 | Electrical Measurements and Measuring Instruments | NEE 302 | CH,EN |
| 9 | Human Values and Professional Ethics | AUC 001 | CH |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| S. No. | Course | Industry | Number Of Students (last three years) |
|--------|---|--|---------------------------------------|
| 1 | Applied Robotics Control | European Centre of Mechatronics, Vaalser Str. 460, 52074 AACHEN, Germany | 7 |
| 2 | Microsoft Certification | Microsoft | 47 |
| 3 | Japanese's Language Training | JAPAN Foundation | 24 |
| 4 | Big Data and Analytics | IOTA Cell, Bengaluru | 27 |
| 5 | Cloud Computing Eligibility | IOTA Cell, Bengaluru | 34 |
| 6 | Embedded System & VLSI design | IOTA Cell, Bengaluru | 538 |
| 7 | Internet of Things using Raspberry Pi | IOTA Cell, Bengaluru | 36 |
| 8 | Mobile Applications Development on Android Platform | IOTA Cell, Bengaluru | 74 |

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | | 3 |
| Associate Professors | 49 | 2 |
| Assistant Professors | | 41 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./ Ph.D./ M.Phil.etc.,)

| S.No. | Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of M.Tech/ Ph.D. guided in last 4 years |
|-------|----------------------------|-------------------|---------------------|--------------------------------|----------------------------|---|
| 1. | Dr. Satyendra Sharma | Ph.D, | Professor | Wireless Communication | 35 | 9 |
| 2. | Dr. V.K.Pandey | Ph.D | Professor | Microwave Engineering | 25 | 12 |
| 3. | Dr. Sandeep Kumar | Ph.D | Professor | Telecommunication | 20 | NIL |
| 4. | Dr. Vineet Shekhar | Ph.D | Associate Professor | Control System | 18 | NIL |
| 5. | Dr. Laxman Singh | Ph.D | Associate Professor | Image Processing | 13 | NIL |
| 6. | Dr. Surya Deo Choudhary | Ph.D | Assistant Professor | Microwave Engineering | 5.5 | NIL |
| 7. | Rajan Singh | M.Tech, B.Tech | Assistant Professor | VLSI Design | 15 | 2 |
| 8. | Anshuman Singh | M.Tech, B.Tech | Assistant Professor | VLSI Design | 14 | 3 |
| 9. | Nidhi Sharma | M.Tech, B.Tech | Assistant Professor | VLSI Design | 14.5 | 3 |
| 10 | Sarabjeet Kaur | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 6.5 | NIL |
| 11 | Sonia Gupta | M.Tech, B.Tech | Assistant Professor | Telecommunication | 8 | NIL |
| 12 | Prabhakar Agarwal | M.Tech, BE | Assistant Professor | Telecommunication | 7.5 | 2 |
| 13 | Kanika Jindal | M.Tech, B.Tech | Assistant Professor | VLSI Design | 6 | 3 |
| 14 | Gitanjali Anand (on Leave) | M.Tech, B.Tech | Assistant Professor | Electronic Design & Technology | 4 | NIL |

| | | | | | | |
|----|-----------------------|-------------------|---------------------|-----------------------------|-----|-----|
| 15 | Ashutosh Kumar Singh | M.Tech, B.Tech | Assistant Professor | VLSI Design | 7 | NIL |
| 16 | Shiv Kumar Gahlot | M.Tech, B.Tech | Assistant Professor | Signal Processing | 2.5 | NIL |
| 17 | Amit Yadav | M.Tech, B.Tech | Assistant Professor | VLSI Design | 5.8 | NIL |
| 18 | Devendra Pratap Singh | M.Tech, B.Tech | Assistant Professor | Telecommunication | 5.8 | NIL |
| 19 | Jitendra Saroj | M.Tech, B.Tech | Assistant Professor | VLSI Design | 4.5 | NIL |
| 20 | Kamal Bhatia | M.Tech, B.Tech | Assistant Professor | VLSI Design | 2 | NIL |
| 21 | Dhanajay Singh | M.Tech, B.Tech | Assistant Professor | Telecommunication | 5 | NIL |
| 22 | Md Raza | M.Tech, B.Tech | Assistant Professor | VLSI Design | 5 | NIL |
| 23 | Priya Rajput | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 24 | Vinay Kumar | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 25 | Meenakshi Sharma | M.Tech, B.Tech | Assistant Professor | Instrumentation Engineering | 3.5 | NIL |
| 26 | Md Sajid | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 27 | Sushil Kumar | M.Tech, B.Tech | Assistant Professor | VLSI Design | 10 | NIL |
| 28 | Ragini Shukla | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 7.5 | NIL |
| 29 | Vidhi Sachdeva | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 2 | NIL |
| 30 | Jigyasa Singh | M.Tech, B.Tech | Assistant Professor | VLSI Design | 1 | NIL |
| 31 | Sakshi Parolia | M.Tech, B.Tech | Assistant Professor | VLSI Design | 1 | NIL |
| 32 | Khyati Khandpal | M.Tech, B.Tech | Assistant Professor | VLSI Design | 3.5 | NIL |

| | | | | | | |
|----|----------------------------|-------------------|---------------------|---------------------------------------|-----|-----|
| 33 | Himanshu Yadav | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 34 | Saurabh Katiyar | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 35 | Dolypona Das | M.Tech, B.Tech | Assistant Professor | Instrumentation & Control Engineering | 1 | NIL |
| 36 | Manish Kumar | M.Tech, B.Tech | Assistant Professor | VLSI Design | 2.5 | NIL |
| 37 | Monika Singh | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 4 | NIL |
| 38 | Richa Barnwal | M.Tech, B.Tech | Assistant Professor | VLSI Design | 1 | NIL |
| 39 | Priyanka Verma | M.Tech, B.Tech | Assistant Professor | VLSI Design | 3 | NIL |
| 40 | Nishu Bisnoi | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1.5 | NIL |
| 41 | Ausaf H. Tarique | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 3.5 | NIL |
| 42 | Ravi Pandey | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 1 | NIL |
| 43 | Hari Mohan Gaur (on leave) | M.Tech | Assistant Professor | VLSI Design | 8 | NIL |
| 44 | Anju Ashok | M.Tech, B.Tech | Assistant Professor | Communication Engineering | 01 | NIL |
| 45 | Sweta Agarwal (ML) | M.Tech | Assistant Professor | VLSI Design | 2.5 | NIL |
| 46 | Yogesh Verma (SL) | M.Tech | Assistant Professor | VLSI Design | 6 | NIL |

11. List of senior visiting faculty:

| S. No. | Name of Visiting Faculty | Affiliation | Experience (in yrs) |
|--------|--------------------------|---------------------------|---------------------|
| 1 | Prateek Chaturvedi | DRDO-Delhi | 12 |
| 2 | Atendra Mishra | Spice Retails, Noida | 12 |
| 3 | Arvind Kaushik | NXP Semiconductor, Noida | 16 |
| 4 | Sandeep Bhatnagar | Delsoft Tech., New Delhi | 15 |
| 5 | Abhishek Gupta | ALTTG Ghaziabad | 12 |
| 6 | Bharat Bhushan | LG Electronics- Gr. noida | 11 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **NIL**

13. Student–Teacher Ratio (programme wise): **UG-15:1, PG-12:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.:

| S. No. | Staff | Sanctioned | Filled |
|--------|----------------------|------------|--------|
| 1 | Technical Staff | 08 | 06 |
| 2 | Administrative Staff | 02 | 01 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

| S. No. | Qualification | Number |
|--------|---------------|--------|
| 1 | Ph.D. | 6 |
| 2 | M.Tech. | 40 |
| 3 | B.Tech. | NIL |

16. Number of faculty with ongoing projects from **a) National b) International** funding agencies and grants received:

| S. No. | Project Ongoing | Funding Agency | National/ International | Grant |
|--------|---|-----------------------------|-------------------------|--------------------------------------|
| 1 | Cluster Manager and BSS Support Engineer (ID-20056: date- 22/06/2015) | NSDC (TSSC); Govt. of India | National | Rs. 10k per student will be received |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre /facility recognized by the University: **Yes**

| S. No. | Research Center | Details |
|--------|----------------------------|--|
| 1 | AKTU Lucknow | AKTU/VCO/Cir/20167798 dated 14 Oct. 2016 |
| 2 | Pre Ph.D. coursework, AKTU | Ph.d/15/PHY/1997/6013 dated 23 Apr 2016 |

| Name of Facility | Recognition given by university |
|------------------|---------------------------------|
| Virtual Lab | IIT Delhi under MHRD |

19. Publications:

| No. of Publications Journals Conference | Citation Index | SNIP | SJR | Impact Factor | H index | Books/ Monograms |
|---|----------------|------|-----|---------------|---------|---------------------|
| 183 | 174 | - | - | 14.6 | 8 | - |

20. Areas of consultancy and income generated: Nil

21. Faculty as members in:

| S. No. | Name of Faculty | Member in |
|--------|------------------------|--|
| 1 | Dr. Satyendra Sharma | Technical Advisory Committee, Wipro |
| 2 | Dr. Satyendra Sharma | Reviewer Springer |
| 3 | Dr. V.K. Pandey | Editorial Board (NIET Journal of Engineering and Technology) |
| 4 | Dr. Satyendra Sharma, | Editorial Board (NIET Journal of Engineering and Technology) |
| 5 | Dr. Suryadev Chaudhary | Editorial Board (NIET Journal of Engineering and Technology) |
| 6 | Dr. Laxman Singh | Editorial Board (NIET Journal of Engineering and Technology) |

22. Student projects

| Level (UG/PG) | Projects | | | | | |
|------------------|----------|---------|---------|----------|---------|---------|
| | In House | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| UG | 93% | 95% | 95% | 7% | 5% | 5% |
| PG | 75% | 75% | 75% | 25% | 25% | 25% |

* Five projects of department are selected by Anveshana (under Govt. Scheme) in NCR region (Oct. 2016).

* GPS tracker, a project designed by second year student is approved by Delhi Government for developing a working prototype (Oct. 2016).

23. Awards / Recognitions received by faculty and students:

| S. No. | Name of Faculty | Name of Award | Year | Agency |
|--------|----------------------|-----------------------------|------|---------------------------|
| 1 | Dr. Satyendra Sharma | High Impact Teaching Skills | 2009 | Wipro |
| 2 | Dr. Satyendra Sharma | Rs 12000 for research paper | 2014 | NIET |
| 3 | Dr. Satyendra Sharma | Certified Trainer | 2015 | NSDC-TSSC, Govt. of India |

| | | | | |
|---|----------------------|---|------|---|
| 4 | Dr. Satyendra Sharma | Honored by National Teacher Association | 2016 | National Teacher Association, Lucknow, U.P. |
|---|----------------------|---|------|---|

| S. No. | Name of Student | Name of Award | Year | Agency |
|--------|---------------------------|----------------------------|------|---------------------|
| 1 | Priya Agarwal | Dr. Sarojini Agarwal Award | 2014 | NIET, Greater Noida |
| 2 | Amit Gupta | Dr. Sarojini Agarwal Award | 2015 | NIET, Greater Noida |
| 3 | Uman Agarwal | Dr. Sarojini Agarwal Award | 2015 | NIET, Greater Noida |
| 4 | Kumari Nidhi | Dr. Sarojini Agarwal Award | 2015 | NIET, Greater Noida |
| 5 | Nandini Tyagi | Spell Bee | 2014 | IIT Guwahati |
| 6 | Aman Srivastava and group | CDC award | 2015 | NIET, Greater Noida |
| 7 | Saurabh Shukla and group | CDC award | 2016 | NIET, Greater Noida |
| 8 | Ajay Pratap Singh | Dr. Sarojini Agarwal Award | 2016 | NIET, Greater Noida |
| 9 | Vandita Srivastava | Dr. Sarojini Agarwal Award | 2016 | NIET, Greater Noida |
| 10 | Abhishek Kumar | Dr. Sarojini Agarwal Award | 2016 | NIET, Greater Noida |

24. List of eminent academicians and scientists / visitors to the department:

| S. No | Name of Academician/ Scientist/ Visitor | Affiliation | Purpose | Year |
|-------|---|-----------------|-------------|------|
| 1 | Dr. Avinash Kumar (GBPU Pantnagar) | GBPU Pantnagar | Expert talk | 2013 |
| 2 | Dr. S D Joshi (IIT Delhi)) | IIT Delhi | FDP | 2013 |
| 3 | Dr. Brahmjit Singh(NIT Kurukshetra) | NIT Kurukshetra | FDP | 2014 |
| 4 | Dr. Satyakesh Dubey | NPL-New Delhi | Conference | 2014 |
| 5 | Mr. Bhairav Chandra (IIT Delhi) | IIT Delhi | Workshop | 2014 |

| | | | | |
|----|--------------------|--------------------------|-------------|------|
| 6 | Dr. A.K. Singh | NIT Kurukshetra | FDP | 2014 |
| 7 | Dr. Sanjeev Gupta | 3ST Technology-Noida | Expert talk | 2015 |
| 8 | Mr. Abhishek Gupta | BSNL, ALTTC-Gaziabad | Expert talk | 2015 |
| 9 | Mr. Vishal Gupta, | Samsung Noida | Expert talk | 2015 |
| 10 | Mr. Rajat Sikka | TCS, New Delhi | Expert talk | 2015 |
| 9 | Dr. Sanjeev Gupta | 3ST Technology-Noida | Expert talk | 2016 |
| 12 | Mr. Abhishek Gupta | BSNL, ALTTC-Gaziabad | Expert talk | 2016 |
| 13 | Ms. Narmada Sharda | IOTA Cell, Bengaluru | Expert talk | 2016 |
| 14 | Mr. Bandewaj | IOTA Cell, Bengaluru | Expert talk | 2016 |
| 15 | Mr. Abhinav | Cardea Lab, Delhi | Expert talk | 2016 |
| 16 | Mr. Daniel Hann | Advance Robotics Control | Expert talk | 2016 |

25. Seminars/ Conferences/ Workshops organized & the source of funding

| S. No. | Seminar/Conference /Workshop | National/ International | Date | Funding Agency |
|--------|---------------------------------|-------------------------|--|--------------------|
| 1 | ECIS-3 (Conference) | National | 16,17 March,2013 | IEI, ISTE |
| 2 | RIECE 2K14 (Conference) | National | 10,11 Oct,2014 | NIET, Grater Noida |
| 3 | MATLAB-Workshop | National | 9, 16, 23, Feb, 2013 | NIET, Grater Noida |
| 4 | VLSI Design-Workshop | National | 14, 15, Feb, 2015 | 3ST Technology, |
| 5 | Virtual Lab-Workshop | National | 12 Feb, 2015 | IIT Delhi |
| 6 | Embedded Systems-Workshop | National | 2-4 March, 2015 | Sofcon India |
| 7 | Webinar on Mobile Communication | National | 04 th -06 th May, 2016 | Dellsoft |
| 8 | 2G/3G Technology-Workshop | National | 23 rd -27 th May, 2016 | NITTR –Chandigarh |
| 9 | VLSI Design-Workshop | National | 01 st Oct,2016 | 3ST technology |
| 10 | Advance Robotics Control | International | 7 th Sep. 2016 | NIET, Grater Noida |

SEMINARS

| S.N. | Name of Expert | Name of Institute/industry | Topic delivered | Duration in hours | Total no of participant |
|------|---------------------|-----------------------------|--|-------------------|-------------------------|
| 1 | Ms. Narmada Sharda | IOTA Cell, Bengaluru | Embedded System | 72 | 125 |
| 2 | Mr. Vishal Gupta, | Samsung R&D, Noida | Personality Development | 04 | 80 |
| 3 | Mr. Bandewaj | IOTA Cell, Bengaluru | Mobile Application Development on Android Platform | 72 | 100 |
| 4 | Mr. Rajat Sikka | TCS, New Delhi | Recent trends in software industry | 04 | 92 |
| 4 | Major Ajit K. Singh | Army Headquarter-New-Delhi | Future Scope in Indian Army | 02 | 185 |
| 5 | Captain Ajay Sharma | Naval Headquarter-New-Delhi | Future Scope in Indian Navy | 02 | 165 |
| 6 | Wing. CDR Ganesh | Air Headquarter-New-Delhi | Future Scope in Indian Air Force | 02 | 135 |

26. Student profile programme/course wise:

| Name of the Course/programme (refer question no. 4) | | Applications received | Selected | Enrolled | | Pass percentage |
|---|-------------------|---|----------|----------|----|-----------------|
| | | | | M | F | |
| UG | Session 2016-2017 | By AKTU Lucknow (Formerly UPTU Lucknow) | 235 | 195 | 40 | - |
| | Session 2015-2016 | | 233 | 187 | 46 | |
| | Session 2014-2015 | | 162 | 131 | 31 | - |
| | Session 2013-2014 | | 201 | 175 | 26 | - |
| PG | Session 2015-2016 | | 07 | 04 | 03 | - |
| | Session 2014-2015 | | 09 | 06 | 03 | - |

*M=Male *F=Female

27. Diversity of Students

| Name of the Course/programme | | Applications received | %of students from the same state | %of students from other States | %of students from abroad |
|-------------------------------------|-------------------|--|---|---------------------------------------|---------------------------------|
| UG | Session 2015-2016 | By AKTU Lucknow (Formerly UPTU Lucknow) | 80 | 20 | - |
| | Session 2014-2015 | | 70 | 30 | - |
| | Session 2013-2014 | | 75 | 25 | - |
| PG | Session 2015-2016 | | 90 | 10 | - |
| | Session 2014-2015 | | 90 | 10 | - |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S. No. | Year | Exam Qualified | Number of Students |
|---------------|-------------|-----------------------|---------------------------|
| 1 | 2013 | GATE | 3 |
| 2 | 2014 | GATE | 5 |
| 3 | 2015 | GATE | 7 |
| 4 | 2016 | GATE | 11 |

29. Student progression

| Student progression | Against% enrolled | | |
|-----------------------------------|--------------------------|----------------|----------------|
| | 2010-14 | 2011-15 | 2012-16 |
| UG to PG | 5% | 10% | 7% |
| PG to M.Phil. | N/A | N/A | N/A |
| PG to Ph.D. | 2% | 1% | 10% |
| Ph.D to Post-Doctoral | Nil | Nil | Nil |
| Employed | 61% | 70% | 75% |
| Entrepreneurship/ Self-employment | 4% | 2% | 2% |

30. Details of Infrastructural facilities

a) Library:

- Central library consists of: 7498 volumes and 699 Titles
- Department library facilitates total volume: 347
- Automated Library Management System (OPAC) software is provided for personal assistance to each and every user while accessing the library books
- Department is facilitated with Wi-Fi, LAN and Reliance Jio hotspot for internet connectivity

- b) Class rooms with ICT: 12
- c) Laboratories: 21
- d) Tutorial Room: 03
- e) Seminar Hall: 01

31. Number of students receiving financial assistance from college, university, Government or other agencies:

| S No | Agency/College/University/Govt. | No. of Students | | |
|------|---------------------------------|-----------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare | 121 | 177 | 149 |

32. Details on student enrichment programmes (special lectures/workshops/ Seminar) with external experts:

| Special Lecture | Workshop | Seminar |
|--|---|---|
| Dr. Sneha Anand (IIT Delhi) (October, 2012) | MATLAB (9,16,23, Feb, 2013) | Amazon Web Services (AWS Database) (17 Nov, 2015) |
| Dr. Brahmjit Singh NIT Kurukshetra) (9-12 July, 2014) | VLSI Design (14,15,Feb, 2015) | Corporate Expectations from a Fresher (25 Sep., 2014) |
| Dr. S D Joshi (IIT Delhi) (15/11/2013) | Virtual Lab (12 Feb,2015) | AMDOCS (10 Sep., 2014) |
| | Embedded Systems (2-4 March, 2015) | TCS (24 Apr., 2014) |
| | 2G/3G, NITTR– Chandigarh (23 rd - 27 th May, 2016) | Cloud Computing (20 Aug., 2014) |
| | One-day workshop-3ST technology, Noida on VLSI design (01 st Oct,2016) | TCS connect session (8 Sep., 2014) |
| | Indian Prototype Vehicle (IPV) by Indian Air Force (21 Sep.,2015) | Windows 8 Webinar (6, 13, 20, 27 Feb., 2014) |
| | | India Air Force |

| | | |
|--|--|------------------------------|
| | | (21 Feb, 2016) |
| | | India Navy (27 Sep, 2016) |

33. Teaching methods adopted to improve student learning:

| CWQIP | TSDP | WSDP |
|---|---|-----------------------------|
| ICT Method for Teaching | Practical oriented and project based learning | Conduction of extra classes |
| Mentor-Mentee system to help at individual levels | Proper conduction of tutorial classes | Additional assignments |
| Massive Open Online Course (MOOC) | Technical symposiums | Individual attention |
| Learning through NPTEL | Guest lectures | Special mentoring |
| | Peer to Peer Learning | |

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

1. The Rainbow School

The Rainbow School provides education to the children of the economically weaker people in the vicinity of Greater Noida. Apart from academics these children are also imparted vocational training. NIET provides free education, books & Stationery, uniform and meals to needy students.

2. Self Defense Training

Special training is provided to the girls of the institute to defend themselves against crimes. This program is running in collaboration with NGO Aseem Nari Shakti that teaches them various tactics of self-defense.

3. Tree plantation

The primary purpose of this activity is to imbibe in the staff and students the importance of a green and healthy surrounding in a rapidly growing concrete jungle.

4. Project Swabhiman

NIET has become an academic partner of project Swabhiman: Employability & Entrepreneurship Development for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.

5. Adoption of a Village

NIET has adopted village Navada and familiarized villagers with the technology, a tribute to Dr APJ Abdul Kalam on his birthday.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. During this event faculty and students took initiative regarding cleanliness and its maintenance in the campus and nearby places.

7. Holistic Activity

A talk on “Technical Education in the Light of Universal Values”

organized by the Sahaj Yog group in the Institute

8. Healthy Living

- TCS Fit4life - Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated. More than 200 students and all the faculties of this department were active participants.

35. SWOC analysis of the department and Future plans:

Strengths:

- Quality intellectual capital
- Cutting edge Technology labs with industry collaboration
- Industry aligned training programs
- High placement percentage
- Supported by NIET TBI
- Better placement opportunities
- Large number of research publications by students and faculty members

Weakness:

- Soft skills of students from rural background
- Consultancy work

Opportunities:

- To be a part of Digital India campaign
- To be a part of Make in India campaign
- Production and commercialization of electronic products through NIET-TBI

Challenges:

- Updating faculty on latest technology
- Curriculum gap with respect to industry needs

Future Plans:

- To become NBA accredited
- Center of excellence in VLSI design and Telecommunication Engineering
- To start consultancy work with leading electronics industries
- To establish tie ups with national/international Universities/Institutes

3. Evaluative Report of the Department

1. Name of the department: **Mechanical Engineering**

2. Year of Establishment: **2001**

3. Name of Programmes /Course offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.): **B. Tech., M Tech.**

| S. No. | Level | Name of the Programme | Specialization | Shift | Total Intake | Duration | Fulltime / Part-time |
|--------|-------|-----------------------|--|-----------------|--------------|----------|----------------------|
| 1 | UG | B. Tech | Mechanical Engineering | 1 st | 180 | 4 Years | Fulltime |
| | | | | 2 nd | 60 | | |
| 2 | PG | M. Tech | Mechanical Engineering | 1 st | 24 | 2 Years | Fulltime |
| | | | Mechanical Engineering (Specialization: CAD) | | 18 | | |

4. Name of Interdisciplinary courses and the departments/units involved:

| S. No. | Subject | Subject Code | Department |
|--------|--------------------------------------|--------------|---------------------------------------|
| 1 | Engineering Mathematics-I | RAS103 | Applied Science & Humanities |
| 2 | Engineering Physics-I | RAS101 | Applied Science & Humanities |
| 3 | Basic Electrical Engineering | REE101 | Electrical & Electronics Engineering. |
| 4 | Professional Communication | RAS104 | Applied Science & Humanities |
| 5 | Computer System and Programming | RCS101 | Computer Science and Engineering |
| 6 | Basic Electronics | REC 101 | Electronics Engineering |
| 7 | Engineering Chemistry | RAS102 | Applied Science & Humanities |
| 8 | Engineering Physics-II Lab | RAS 151 | Applied Science & Humanities |
| 9 | Engineering Chemistry Lab | RAS 152 | Applied Science & Humanities |
| 10 | Basic Electrical Engineering-Lab | REE 151 | Electrical & Electronics Engineering |
| 11 | Professional Communication Lab | RAS 154 | Applied Science & Humanities |
| 12 | Computer Programming Lab | RCS 151 | Computer Science and Engineering |
| 13 | Engineering Mathematics III | NAS 301 | Applied Science & Humanities |
| 14 | Science Based Elective | NOE 031 | Applied Science & Humanities |
| 15 | Industrial Psychology | NHU 301 | Applied Science & Humanities |
| 16 | Industrial Sociology | NHU 302 | Applied Science & Humanities |
| 17 | Human Values and Professional Ethics | AUC 001 | Applied Science & Humanities |
| 18 | Cyber Security | AUC 002 | Computer Science and Engineering |
| 19 | Electrical Machine and Control | NEE 409 | Electrical & Electronics |

| | | | |
|----|------------------------------------|---------|--------------------------------------|
| | | | Engineering |
| 20 | Electrical Machine and Control Lab | NEE 459 | Electrical & Electronics Engineering |
| 21 | Entrepreneurship Development | NOE 071 | Master of Business Administration |

5. Annual/ semester/ choice based credit system (Programme wise): **Semester (CBCS)**

6. Participation of the department in the courses offered by the other departments:

| S. No. | Name of Course | Subject Code | Department |
|--------|---|--------------|-------------------------------|
| 1 | Elements of Mechanical Engineering | RME101 | EN, ECE, CSE, IT, CH, BT, CE. |
| 2 | Elements of Mechanical Engineering-Lab | RME151 | EN, ECE, CSE, IT, CH, BT, CE. |
| 3 | Computer Aided Engineering Graphics-Lab | RCE151 | EN, ECE, CSE, IT, CH, BT, CE. |
| 4 | Workshop Practice-Lab | RME152 | EN, ECE, CSE, IT, CH, BT, CE. |
| 5 | Thermal and Hydraulics | NME-309 | EN |
| 6 | Thermal and Hydraulics-Lab | NME-359 | EN |
| 7 | Manufacturing Technology | NME-402 | CH |
| 8 | Manufacturing Technology Lab | NME-452 | CH |
| 9 | Material Science | NOE-074 | CH |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

| S.No. | Course | Industry | Number of students benefited in last three year |
|-------|---------------------------------------|---|---|
| 1 | Autodesk AUTOCAD Certification Course | Autodesk, USA | 30 |
| 2 | 3D Printing and Prototyping | IOTA Cell, Bengaluru | 170 |
| 3 | PTC Creo Certification Course | PTC University, USA | 149 |
| 4 | Virtual Advanced Robotics Control Lab | Applied Robotics Center, Germany/ARC, Indo Euro Sync. | 30 |
| 5 | Japanese Language | Japan Foundation | 30 |
| 6 | German Language | Max Mueller Bhawan | 10 |

8. Details of course/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts:

| Post | Sanctioned | Filled |
|----------------------|-------------------|---------------|
| Professors | 57 | 06 |
| Associate Professors | | 01 |
| Asst. Professors | | 42 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./ Ph.D./ M.Phil., M. Tech)

FACULTY DETAILS

| S. No. | Name of Faculty | Qualification | Designation | Specialization | Experience in Years | No. of M. Tech/ Ph. D Students guided for the last 4 year |
|---------------|-------------------------------|----------------------|-------------------------|---|----------------------------|--|
| 1 | Dr. Ajay Kumar | Ph. D, M. Tech | Professor & Director | Production Engineering | 18 | 7 |
| 2 | Dr. Praveen Pachauri | Ph. D, M. Tech | Professor | Production Engineering | 17 | 8 |
| 3 | Dr. Chandan Kumar | Ph. D, M. Tech | Professor & Head | Machine Design | 15 | 2 |
| 4 | Dr. N. Rajesh Mathivanan | Ph.D, M. Tech | Professor | Production | 20 | 2 |
| 5 | Dr. S. L Verma | Ph. D, M. Tech | Professor | Production Engineering | 33 | 2 |
| 6 | Dr. Arvind Tiwari | Ph. D, M. Tech | Professor | Thermal Engineering | 14 | - |
| 7 | Dr. Sachin Tejyan | Ph. D, M. Tech | Assistant Professor | Manufacturing & Composite Materials | 04 | - |
| 8 | Dr. Harveer Singh Pali | Ph. D, M. Tech | Associate Professor | Thermal Engineering | 12 | 3 |
| 9 | Mr. Sandeep Chauhan | Ph. D*, M. Tech | Assistant Professor | Machine Design | 13 | 3 |
| 10 | Mr. Rakesh Singh | Ph. D*, M. Tech | Assistant Professor | CIM | 9 | 2 |
| 11 | Mr. Shashi Prakash Dwivedi | Ph. D*, M. Tech | Assistant Professor | CAD | 9 | 1 |
| 12 | Mr. Sanjay Kumar | M. Tech | Assistant Professor | CAD | 8 | -- |

| | | | | | | |
|----|---------------------------|-----------------|---------------------|-----------------------------|-----|----|
| 13 | Mr. Ashish Srivastava | Ph. D*, M. Tech | Assistant Professor | CAD | 9 | 1 |
| 14 | Mr. Shahzad Ali | Ph. D*, M. Tech | Assistant Professor | Design | 3 | -- |
| 15 | Mr. Ajay Kumar | M. Tech | Assistant Professor | Manufacturing | 3 | -- |
| 16 | Mr. Alqamah Sayeed | M. Tech | Assistant Professor | Atmosphere Ocean Technology | 1 | -- |
| 17 | Mr. Anant Prakash Agrawal | Ph. D*, M. Tech | Assistant Professor | CIM | 6 | -- |
| 18 | Mr. Azmal Hussain | M. Tech | Assistant Professor | Production Engineering | 1 | -- |
| 19 | Mr. Gaurav Singh | M. Tech | Assistant Professor | Manufacturing | 3.8 | -- |
| 20 | Mr. Prabhakar Singh | M. Tech | Assistant Professor | Design | 6.5 | -- |
| 21 | Mr. Prateek Gupta | M. Tech | Assistant Professor | CAD | 6.5 | -- |
| 22 | Mr. Tarun Goel | M. Tech | Assistant Professor | Thermal Engineering | 1 | -- |
| 23 | Mr. Vijay Bhutani | M. Tech | Assistant Professor | Thermal Engineering | 3 | -- |
| 24 | Mr. Vivek singh | M. Tech | Assistant Professor | Production Engineering | 8 | -- |
| 25 | Ms. Samar Sultan | M. Tech | Assistant Professor | CAD | 8 | -- |
| 26 | Mr. Nitesh Kumar | M. Tech | Assistant Professor | AMS | 1 | -- |
| 27 | Mr. Jitendra Kumar | M. Tech | Assistant Professor | Manufacturing & Automation | 4 | -- |
| 28 | Mr. Anshu Anand | M. Tech | Assistant Professor | AMS | 1 | -- |
| 29 | Mr. Yogesh Meena | M. Tech | Assistant Professor | CAD | 1 | -- |
| 30 | Mr. Atul Ranjan | M. Tech | Assistant Professor | Manufacturing | 1 | -- |
| 31 | Mr. Saurobh Poddar | M. Tech | Assistant Professor | Mechanical Engineering. | 1 | -- |
| 32 | Mr. Annant Dhawan | M. Tech | Assistant Professor | Production Engineering | 3 | -- |
| 33 | Ms. Shilpi Kumari | M. Tech | Assistant Professor | Thermal Engineering | 1 | -- |
| 34 | Ms. Archita Singh | M. Tech | Assistant Professor | Robotics | 1 | -- |
| 35 | Ms. Smriti Srivastav | M. Tech | Assistant Professor | Automobile | 1 | -- |
| 36 | Mr. Krishna Kumar Yadav | M. Tech | Assistant Professor | Hydro Power | 1 | -- |

| | | | | | | |
|----|----------------------------|---------|---------------------|------------------------|---|----|
| 37 | Mr. Shyamlal Sharma | M. Tech | Assistant Professor | Machine Design | 1 | -- |
| 38 | Mr. Faizan Haq | M. Tech | Assistant Professor | Thermal Engineering | 1 | -- |
| 39 | Mr. Ajeet Singh | M. Tech | Assistant Professor | Production Engineering | 1 | -- |
| 40 | Mr. Shiv Narayan Prajapati | M. Tech | Assistant Professor | CIM | 1 | -- |
| 41 | Mr. Rahul Kumar | M. Tech | Assistant Professor | Thermal Engineering | 1 | -- |
| 42 | Ms. Vandana Jha | M. Tech | Assistant Professor | Production Engineering | 1 | -- |
| 43 | Rahul Chaurasia | M. Tech | Assistant Professor | Material Science | 1 | -- |
| 44 | Abhishek Kumar | M. Tech | Assistant Professor | Manufacturing | 1 | -- |
| 45 | Mr. Anwar Ali | M. Tech | Assistant Professor | Manufacturing | 1 | -- |
| 46 | Mr. Sarthak Dixit | M. Tech | Assistant Professor | Design | 2 | -- |
| 47 | Mr. Arjit Saxena | M. Tech | Assistant Professor | Design | 2 | -- |
| 48 | Mr. Pankaj Kumar | M. Tech | Assistant Professor | Mechanical Engineering | 2 | -- |
| 49 | Mr. Ved Prakash | M. Tech | Assistant Professor | Design | 3 | -- |

11. List of senior visiting/ adjunct faculty: 12

| S.No. | Name of Visiting Faculty | Affiliation | Experience Years |
|-------|---------------------------|---------------------------------------|------------------|
| 1 | Mr. Ajay Kumar Agarwal | Volks Wagon | 20 |
| 2 | Mr. Amit Kumar | Havels India Ltd. | 14 |
| 3 | Mr. H.K.Sahejwani | Freelancer, Retd. Scientist | 37 |
| 4 | Mr. Brijesh Agarwal | Kunj Forging Pvt. Ltd. | 40 |
| 5 | Mr. D. K. Gupta | Advisor, MSME, Retd. Bharat Petroleum | 42 |
| 6 | Mr. Mahendra Kumar Sharma | Retd. Professor, ISM Dhanbad | 40 |
| 7 | Mr. Gaurav Gupta | Enertia System Power Pvt. Ltd. | 15 |
| 8 | Mr. Narendra Patel | Honda Cars Industry | 16 |
| 9 | Mr. Ram Ratan Singh | HPCL | 12 |
| 10 | Mr. Ravindra Kumar Verma | Suri Automobiles | 28 |
| 11 | Mr. Vishal Kumar Agarwal | Reliance Industry | 12 |

| | | | |
|----|-------------------|-------------|----|
| 12 | Mr. Santosh Kumar | Tata Motors | 12 |
|----|-------------------|-------------|----|

12. Percentage of lecture delivered and practical classes handed (programme wise) by temporary faculty: **Nil**

13. Student -Teacher Ratio (programme wise): **15:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

| S. No. | Staff | Sanctioned | Filled |
|--------|----------------------|------------|--------|
| 1 | Technical Staff | 13 | 13 |
| 2 | Administrative Staff | 04 | 04 |

15. Qualifications of teaching faculty with DSc. / D.Litt./ Ph.D/ M.Phil./ PG./ UG

| S. No. | Qualification | Number |
|--------|---------------|--------|
| 1 | Ph. D | 08 |
| 2 | M. Tech | 41 |
| 3 | B. Tech | Nil |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

| S. No. | Project Ongoing | Funding Agency | National/International | Grant |
|--------|---|---------------------|------------------------|---|
| 1 | PMKVY Skill Development Program 1. Automotive- Tool Room Operator Technician, 2. Automotive-AC Specialist | Government of India | National | Grant allocation per student Rs. 10000/- (Pending from PMKVY) |

17. Departments projects funded by DST-FIST; UGC, ICSSR, etc. and total grants received:

Grant of Rs 50,000/- from DST, Govt. of India, for International Conference Cutting Edge Technological Challenges in Mechanical Engineering (CETCME- 2017), 18th – 19th Febuary 2017.

18. Research Centre / facility recognized by the University:

| S. No. | Research Centre details |
|--------|---|
| 1 | University Research center for Mechanical Engineering, APJAKTU, Lucknow AKTU/VCO/cir/2016/8192, 14/10/2016 |
| 2 | Pre-Ph.D Course work centre, APJAKTU, Lucknow |

| S. No. | Name of Facility | Recognition |
|--------|---|--|
| 1 | Nodal Centre of Virtual Lab | IIT, Delhi |
| 2 | PTC Competence Centre | PTC University, USA |
| 3 | Virtual Advanced Robotics and Control Lab | Applied Robotics Center, Germany/ARC, Indo Euro Sync |
| 4 | Product Development and 3D Printing | In-house |

19. Publications: 126

- Publication per faculty: 2.57
- Number of papers published in peer reviewed journals (national/international) by faculty and students.

| No. of Publications | Citation Index | SNIP | SJR | Impact Factor | h-Index | Books/ Monograph |
|---------------------|----------------|------|-------|---------------|---------|------------------|
| 256 | 395 | 23.3 | 26.36 | 40.19 | 32 | 05 |

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|------------------------------------|---------------------|---------------------------------|-----------------------------|
| | | | |

| | | | |
|---|----------------------|---|---------------------|
| 1. Department of ME | TSSC | Skill Development under PMKVY | 750000.00 (awaited) |
| 2. Dr P. Pachauri, Dept of Mechanical Engg. | Armaan Industries | Fabrication of grippers | 10000.00 |
| 3. Prof P.Pachauri, Dept. of Mechanical Engg. | Chamunda Papers Mill | Installation and supervision of rollers | 100000.00 |
| 4. Prof P.Pachauri, Dept. of Mechanical Engg. | Armaan Industries | Design and development of sliding trays | 32000.00 |
| 5..Prof P.Pachauri, Dept. of Mechanical Engg. | Chamunda Papers Mill | Fabrication of rewinder mechanism | 65000.00 |

21. Faculty as members in

- a) National Committees- 01 (Member of BOS AKTU, Lucknow)
- b) International Committees- 10 Reviewers in International Journals
- c) Editorial Boards: 02

| S. No. | Name of Faculty | Member in | National/International/Editor Board/Professional Bodies |
|--------|--------------------------|---|---|
| 1 | Dr. Ajay Kumar | Reviewers' panel of International Journal | Fellow of Institution of Engineers, LMISTE, Editorial Board of NIET Journal of Engineering & Technology |
| 2 | Dr. P. Pachauri | Reviewers' panel of International Journal | LMISTE, PMAI, Editorial Board of NIET Journal of Engineering & Technology |
| 3 | Dr. Chandan Kumar | Reviewers' panel of International Journal | LMISTE, ISFT, IAENG |
| 4 | Dr. N. Rajesh Mathivanan | Reviewers' panel of International Journal | LMISTE, LMIWS, LMIET, Member FPS |
| 5 | Dr. S.L. Verma | Reviewers' panel of International Journal | LMISTE, AIE, IAENG, IRED |
| 6 | Dr. Sachin Tejyan | Reviewers' panel of International Journal | LMISTE, IAENG |
| 7 | Dr. Arvind Tiwari | Reviewers' panel of International Journal | LMISTE |
| 8 | Dr. H.S. Pali | Reviewers' panel of International Journal | SAE, ASME, ISFT |
| 9 | Mr. S.P. Dwivedi | Reviewers' panel of International Journal | - |
| 10 | Mr. Ashish Srivastav | Reviewers' panel of International Journal | LMISTE, MIE |
| 11 | Mr. S.L. Sharma | Reviewers' panel of International Journal | - |

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/ programs: **100%**

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry /other agencies:

| Level (UG/PG) | Projects | | | | | |
|------------------|--------------|---------|---------|--------------|---------|---------|
| | In House (%) | | | Industry [%] | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| UG | 100 | 100 | 100 | 2 | 3 | 3 |
| PG | 80 | 100 | 100 | 20 | -- | -- |

23. Awards/Recognitions received by faculty and students

| S. No. | Name of Faculty/student | Name of Award | Year | Agency |
|--------|-------------------------|--|------|---------------------------------|
| 1 | Dr. Ajay Kumar | Shikshak Samman | 2016 | Rashtriya Shishak Mahasangh, UP |
| 2 | Dr. P. Pachauri | Shikshak Samman | 2016 | Rashtriya Shishak Mahasangh, UP |
| 3 | Mr. Sanjay Kumar | PTC Certification | 2016 | PTC, USA |
| 4 | Mr. Ajay Kumar | PTC Certification | 2016 | PTC, USA |
| 5 | Mr. S. P Diwedi | Best teacher Award by NIET | 2016 | NIET, Gr. Noida |
| 6 | Mr. H. S Pali | Recognized for paper publication in SCI Journals | 2016 | NIET, Gr. Noida |
| 7 | Mr. S. P Diwedi | Recognized for paper publication in SCI Journals | 2016 | NIET, Gr. Noida |
| 8 | Mr. Sanjay Maurya | Recognized for paper publication in SCI Journals | 2015 | NIET, Gr. Noida |
| 9 | Mr. Prateek Gupta | Recognized for paper publication in SCI Journals | 2015 | NIET, Gr. Noida |
| 10 | Mr. S.P Diwedi | Recognized for paper publication in SCI Journals | 2015 | NIET, Gr. Noida |

| | | | | |
|----|-------------------------------------|--|------|--|
| 11 | Dr. Ajay Kumar | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 12 | Dr. Sudhir Kumar | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 13 | Mr. Sanjay Maurya | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 14 | Mr. Prateek Gupta | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 15 | Mr. S.P Diwedi | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 16 | Mr. Neeraj Sharma | Recognized for paper publication in SCI Journals | 2014 | NIET, Gr. Noida |
| 17 | Dr. Sudhir Kumar | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 18 | Mr. P. Pachauri | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 19 | Mr. H.S Pali | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 20 | Mr. S.P Diwedi | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 21 | Mr. Prateek Gupta | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 22 | Mr. Ashish Srivastava | Recognized for Best result | 2014 | NIET, Gr. Noida |
| 23 | Ajay Kumar and Dr. Sudhir Kumar | Best research paper award | 2013 | Indian Foundry Journal |
| 24 | Mr. P.Pachauri, Jai Narayan Mishra | Campus Innovation Awards 2012 Second Prize | 2012 | Employability Times and Boot Strap Today (BST) |
| 25 | Mr. Ajay Kumar and Dr. Sudhir Kumar | Campus Innovation Awards 2012 | 2012 | Employability Times and Boot Strap Today (BST) |

| | | | | |
|--|--|-------------|--|--|
| | | Third Prize | | |
|--|--|-------------|--|--|

Students

| S. No. | Name | Event | Year | Prize |
|--------|---------------------|--|------|----------------|
| 1 | Ankit Tripathi | SOLARIS, IGNUS, IIT Jodhpur | 2016 | First Prize |
| 2 | Mayank Pratap Singh | Robowar Contrivance, Sharda university | 2016 | Third Prize |
| 3 | Anuj Kumar Sharma | RC plane design, IIT Roorkee | 2015 | First prize |
| 4 | Ankur Pathak | RC plane design, IIT Roorkee | 2015 | First prize |
| 5 | Abhishek Kumar | RC plane design, IIT Roorkee | 2015 | First prize |
| 6 | Abhinav Kumar | RC plane design, IIT Roorkee | 2015 | First prize |
| 7 | Saurabh Kumar | RC plane design, IIT Roorkee | 2015 | First prize |
| 8 | Mr. Ankit Shrma | Tangelo Town JMI-Delhi | 2015 | Second prize |
| 9 | Prashant Kumar | Esy-a-15, Robosocce, IIT Delhi | 2015 | Second Prize |
| 10 | Prashant Kr. Sinha | Inovision Street Smart, IEC | 2015 | First Prize |
| 11 | Prashant Kr. Sinha | QUIZ, UCE | 2015 | First Prize |
| 12 | Suyash Kumar Pandey | Poetry, UCE | 2015 | First Prize |
| 13 | Gavrav Malik | Roborace, GNIOT | 2015 | First Prize |
| 14 | Mayank Pratap Singh | Roborace, Spandan, SLIT | 2015 | First Prize |
| 15 | Mayank Pratap Singh | Robowar, Spandan, SLIT | 2015 | Second Prize |
| 16 | Prashant Kr. Sinha | GQUASAR, General Quiz, GCET | 2015 | Second Prize |
| 17 | Mayank Pratap Singh | Robowar, Metacognition, GCET | 2015 | Second Prize |
| 18 | Pulkit Sharna | GQUASAR, Terrain, GCET | 2015 | Second Prize |
| 19 | Pulkit Sharna | GQUASAR, Trakker, GCET | 2015 | First Prize |
| 20 | Pulkit Sharma | Fest of India, Snapshot, NIU, | 2015 | Second Prize |
| 21 | Prashant Kr. Sinha | Fusion, QUIZ, GNIOT, | 2015 | First Position |
| 22 | Shubham Keshri | E-Bullience, Hydarulic Lift, | 2014 | Third Position |

| | | | | |
|----|--------------------|-------------------------------------|------|--------------|
| | | NIET, | | |
| 23 | Shubham | E Bullience, Quiz, NIET, | 2014 | Second prize |
| 24 | Arti Baisyo | E Bullience, Aero Swimmer, NIET, | 2014 | Second prize |
| 25 | Ayush Pal | E Bullience, Strain in Brain, NIET, | 2014 | Third Prize |
| 26 | Ravi Prakash Gupta | E Bullience, Bridge Making, NIET, | 2014 | Second Prize |
| 27 | Prashant Kumar | Star Quest, Techtrishna, AKGEC | 2014 | Third Prize |
| 29 | Amandeep Kishtoppa | Robosoccer, Techtrishna, AKGEC | 2014 | Second Prize |
| 30 | Amandeep Kishtoppa | Eluding Streak, Techtrishna, AKGEC | 2014 | Second Prize |
| 31 | Amandeep Kishtoppa | Star Quest, Techtrishna, AKGEC | 2014 | Third Prize |
| 32 | Asim Khan | Robo Rally, NIET, | 2013 | First Prize |
| 33 | Sonali Tyagi | Inovision Techfest, IEC | 2013 | Third Prize |

24. List of eminent academicians and scientists/ visitors to the department: 30

| S. No. | Name of Academician/ Scientist/visitor | Affiliation | Purpose | Year |
|--------|--|---------------------------|---|------|
| 1 | Dr. B. S. Rajput | Former VC, KU, Uttrakhand | Keynote lecture | 2017 |
| 2 | Dr. Atul Thakur | IIT Patna | Keynote lecture | |
| 3 | Dr. P. M. Pandey | IIT Delhi | Keynote lecture | |
| 4 | Dr. Siddhartha | NIT Hamirpur | Keynote lecture | |
| 5 | Dr. M. M. Hasan | JMI, New Delhi | Guest of Honor | |
| 6 | Dr. Moinuddin | Pro VC DTU | Guest of Honor | |
| 7 | Prof. G. Kannan | Denmark | Guest Lecture | |
| 8 | Mr. Ashish Baheti | MD, Vectus Group | NIET Town Hall | 2016 |
| 9 | Wing Commander Ganesh | Indian Air Force | Seminar on Scope in Indian Airforce | 2016 |
| 10 | Mr. Dalip Singh | President, AEE, Delhi | Expert lecture on Energy Audit and Management | 2016 |

| | | | | |
|----|-------------------------|---|--|------|
| 11 | Dr. Siddhartha | A.P, NIT Hamirpur | Interaction with Faculty | 2016 |
| 12 | Prof. D. Haan, | Germany | Expert Lecture on Advance Robotics | 2016 |
| 13 | Dr. R.K Mishra | GBU, Gr. Noida | MSMES-2016, STTP | 2016 |
| 14 | Dr. Ramji Lal | IIT Delhi | MSMES-2016, STTP | 2016 |
| 15 | Dr. Vikas Rastogi | DTU Delhi | MSMES-2016, STTP | 2016 |
| 16 | Dr. H.K Sahjwani | Free lancer | Workshop on Entrepreneurship Prospects in Solar Energy | 2016 |
| 17 | Dr. Sachin Maheshwari | NSIT-Delhi | CDC-Project Evaluation | 2016 |
| 18 | Er. Mitesh Kumar | Frounis India Ltd. | Workshop on Basics of Welding | 2016 |
| 19 | Capt. Ajay Sharma | Indian Navy | Seminar on Scope in Indian Navy | 2016 |
| 20 | Prof. N. Rajesh, | Banglore | Expert Lecture on Composite Materials | 2016 |
| 21 | Mr. Mukul Singhal (IAS) | Principal Secretary, Technical Education Government of U.P. | placement felicitation program | 2016 |
| 22 | Mr. Bhairab Patra, | Virtual Labs, IIT Delhi | Workshop, Virtual Lab. | 2015 |
| 23 | Mr. Gurudutt Sharma | Virtual Labs, IIT Delhi | Workshop, Virtual Lab. | 2015 |
| 24 | Mr. Sameer Rastogi, | CEO , India Juris , New Delhi | Workshop | 2015 |
| 25 | Maj. Ajeet | Indian Army | Seminar on Scope in Indian Army | 2015 |
| 26 | Prof. Pradeep Kumar | Vice-Chancellor, Delhi Technological University | CETCME-2015, International Conference. | 2015 |
| 27 | Dr. R. S. Nirjar | Former Vice-Chancellor, Gautam Buddha University, Greater Noida | CETCME-2015, International Conference. | 2015 |
| 28 | Dr M.M Hassan | Prof., JMI | UPTU Nominee | 2015 |
| 29 | Dr. R.S Waliya | DTU | CETCME-2015, International Conference. | 2015 |
| 30 | Dr. H.C Thakur | GBU-Gr. Noida | CETCME-2015, International | 2015 |
| 31 | Dr. A. K. Sharma | IIT Roorkee | Expert lecture on Processing of Green Composites | 2014 |
| 32 | Dr. H Singh | NIT Kurukshetra | Taguchi Technique of Optimization | 2014 |
| 33 | Dr. Akshay Dvivedi | IIT Roorkee | Expert lecture Micro – | 2014 |

| | | | | |
|----|----------------------------|--------------------------|--|------|
| | | | Machining processes | |
| 34 | Dr. J. P. Subranhmanyam | IIT Delhi | Expert lecture on Advances in IC Engine & Combustion | 2014 |
| 35 | Dr. P. K. Jain | IIT Roorkee | Expert lecture on Microwave Cladding | 2013 |
| 36 | Dr. Naveen Kumar | DTU, Delhi | Expert lecture on Biodiesel | 2013 |
| 37 | Shri. T. K. A. Nair, India | Advisor to P.M. of India | National Seminar | 2013 |

25. Seminars/ Conferences/ Workshops organized & the source of funding:

| S. No. | Seminar/Conferences/Workshops | Funding Agency | Date |
|--------|---|-------------------|--------------------------|
| 1 | International Conference CTCME-2017 | DST | 18/02/2017 to 19/02/2017 |
| 2 | Seminar , on Future Scope in Indian Air Force, | Air force | 27/09/2016 |
| 3 | Expert Lecture on Energy Audit & Management | AEE-Delhi | 23/09/2016 |
| 4 | Seminar for GATE ASPIRANTS | Engineer's Zone | 09/09/2016 |
| 5 | One week STTP on Modeling and Simulation for Mechanical Engineering Systems | ISTE/Institute | 06/06/2016 to 10/06/2016 |
| 6 | One day workshop on Internet of Things | PTC | 10/06/2016 |
| 7 | 2 Days Seminar on Entrepreneur Aspects on Solar Energy | Institute | 22/04/2016 & 23/04/2016 |
| 8 | One day Workshop on Basics of Welding | Fronius India Pvt | 15/04/2016 |
| 9 | Seminars on Entrepreneurship & IPR Awareness Program | Institute | 01/02/2016 |
| 10 | Seminar on Future Scope in Indian Navy, | Indian navy | 21 /02 2016 |
| 11 | 2 Days Workshop on Auto CAD | CETPA | 30/12/2016 & 31/12/2015 |
| 12 | Seminar ,Future Scope in Indian Army, | Indian Army | 14 /10/2015 |
| 13 | One day workshop on virtual Lab | IIT-D | 16/09/2015 |
| 14 | Workshop on Intellectual Property Rights | Institute | 25/07/2015 |
| 15 | 2 Weeks Workshop on Additive Manufacturing | Institute | 18/07/2015 to 29/07/2015 |
| 16 | An International Conference & Exhibition On “Cutting Edge Technological Challenges in Mechanical Engineering” | ISTE New Delhi | 21/03/2015 & 22/03/2015 |
| 17 | A one Day National Seminar on “3D printing” | IOTA Cell | 14/11/2014, |

| | | | |
|----|--|-----------------|-------------------------------|
| 18 | A Two Days Quality Improvement Program on “Advances in Mechanical Engineering” | Institute | 14/05/2015 & 15/05/2014 |
| 19 | A Two Days Quality Improvement Program on Latest Trends in Manufacturing | Institute | 07/01/2013 & 08/01/2013 |
| 20 | Seminar on Need of Entrepreneurial Revolution in emerging technologies in Current Global Scenario | SCI & Institute | 16/11/2013 |

- a) National: 18
- b) International conference: 02

[CETCME-2015 in association with ISTE
- March 21-22, 2015

International conference: CETCME-2017 Sponsored by DST, Govt. of India
- Feb.18-19, 2017,

26. Student profile programme/ course wise:

| Name of Course/ Programme | | Applications received for admission* | Selected | Enrolled | | Pass Percentage |
|--------------------------------------|-------------------|---|-----------------|-----------------|----------|----------------------------|
| | | | | M | F | |
| UG | Session 2016-2017 | By AKTU Lucknow (formerly UPTU Lucknow) | 224 | 221 | 03 | - |
| | Session 2015-2016 | | 225 | 222 | 03 | |
| | Session 2014-2015 | | 225 | 224 | 01 | - |
| | Session 2013-2014 | | 219 | 211 | 08 | - |
| PG | Session 2015-2016 | | 03 | 2 | 1 | - |
| | Session 2014-2015 | | 09 | 7 | 2 | - |

*Applications are received by the affiliating university for admission and the number of applications are not known for specific department/ institute.

27. Diversity of admitted students

| Name of Course/ Programme | | % of Students from same state | % of Students from other states | % of Student from abroad |
|--------------------------------------|-------------------|--|--|-------------------------------------|
| UG | Session 2015-2016 | 74 | 26 | - |
| | Session 2014-2015 | 76 | 24 | - |
| | Session 2013-2014 | 82 | 18 | - |
| PG | Session 2015-2016 | 100 | 00 | - |
| | Session 2014-2015 | 100 | 00 | - |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services, and Defense Services etc.?

| S. No | Session | Exam Qualified | Number of students |
|--------------|----------------|-----------------------|---------------------------|
| 1 | 2015-16 | GATE | 18 |

| | | | |
|---|---------|------|----|
| 2 | 2014-15 | GATE | 15 |
| 3 | 2013-14 | GATE | 04 |

29. Student Progression

| Student progression (%) | Against % enrolled | | |
|-----------------------------------|--------------------|---------|---------|
| | 2015-16 | 2014-15 | 2013-14 |
| UG to PG | 18 | 5 | 9 |
| PG to M.Phil. | NA | NA | NA |
| PG to Ph.D. | - | - | 3 |
| Ph.D to Post-Doctoral | NA | NA | NA |
| Employed | | | |
| Campus selection | 91 | 66 | 58 |
| Other than campus recruitment | | | |
| Entrepreneurship/ Self-employment | 2 | 6 | 2 |

30. Details of Infrastructural facilities

a) Institute Library:

Total No. of Titles: 556 Volume: 14707

Timings: 9.30 am to 5.00 pm

b) Internet facilities to staff and students: High speed internet connection of 110 Mbps and Reliance JioHotspot WiFi connectivity

c) Total number of class rooms: Class Room: 15 & Seminar Hall: 1

d) Laboratories: 17 Labs, Projector and White Marker Board in every lab

31. Number of students receiving financial assistance from college, university, government or other agencies :

| S.No. | Agency College/University/Govt. | No. of Students | | |
|-------|--|-----------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department –UP Government | 189 | 368 | 344 |
| 2 | Financial Assistance from Institute | 03 | 03 | 03 |

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

| Special Lecture | Workshop/QIP | Seminar | Conference |
|-----------------|--------------|---------|------------|
| 06 | 08 | 03 | 02 |

33. Teaching methods adopted to improve student learning:

Various activities and programmes are organized to improve learning of Students

Campus Wide Quality Improvement Program (CWQIP)

- Use of LCD Projectors to show videos and PPTs
- MOOCs is used (piazza.com, classcentral.com, futurelearn .com, edx.org)
- Use of NPTEL lectures
- Practical Based Learning
- Students advisory committee
- Project based Learning
- CDC activities

Total Students Development Programme (TSDP)

- Different activities are organized under this programme
- Guest/Expert Lectures
- Workshop/ Conferences
- Skill development programmers
- Training in Industry supported labs
- Training on Aptitude and HR Skills
- Technical Quiz/Competition
- Mentor-Mentee policy

Weak Students Development Programme (WSDP)

- Special Classes are organized for the Weak students
- Extra Classes are organized for the Weak students
- Peer adoption policy

34. Participation in Institutional Social Responsibility (ISR) and extension activities

The faculty members and students of the Department participate in various social activities

- Teaching of socially weaker section in Rainbow School
- Plantation of trees on every 15th August (Independence Day) and 17th October (Foundation Day)
- Plantation on 27th July 2016, APJ Abdul Kalam Birth anniversary
- Swachh NIET Abhiyaan on 01st October 2016
- Swachta Abhiyaan - **Swachh Bharat Ki Aur on 17th October 2015**
- Adoption of Village on 15th October 2015.
- TCS Fit For Life on 8th February, 2015
- One day self defense training programme for girls

- A talk on “Technical Education in the Light of Universal Values” on 05th October 2015
- Plantation by Green Gold Society In Collaboration With Sankalptaru (NGO) COGNIZANT on 10th October 2015
- Diabetic’s awareness camp on 18th October 2014

35. SWOC analysis of the department and Future plans

Strengths:

- Experienced faculty members
- Industry based laboratories (PTC Excellence Center, Advance Robotics Lab and 3D Printing Lab)
- Students’ Clubs
- Department is supported by leadership to organizing high level inter- institutional Tech-Fest
- Supported by NIET Technology Business Incubator for entrepreneurship development activity
- Approved University research center
- Approved center of PMKVY

Weakness:

- Dependency on confined syllabus and it cannot be modified as per need of the industry
- Research work is focused to limited areas
- Placements of students in core companies

Opportunities:

- To contribute in “MAKE IN INDIA” mission of Government of India
- Potential of Consultancy activities as cutting edge facilities in labs and software are available
- To develop eco-friendly products

Challenges:

- To promote the culture of filing patents
- Decline in job opportunities in core sector
- Intellectual property adapting to the latest technology

Future Plans:

- NBA accreditation
- Deputation and faculty- exchange program with renowned institutes from India and abroad
- Create Center for excellence in Mechatronics

3. Evaluative Report of the Departments

1. Name of the Department: **Department of Biotechnology**
2. Year of Establishment: **2012**
3. Names of Programmes/ Courses offered (UG,PG,M.Phil.,Ph.D., Integrated Masters; Integrated Ph.D., etc.):

| S. No. | Level | Name of the programme | Specialization | Shift | Intake | Duration | Full time/ Part time |
|---------------|--------------|------------------------------|-----------------------|--------------|---------------|-----------------|-----------------------------|
| 1 | UG | B.Tech. | Biotechnology | First | 60 | 4 years | Full time |

4. Names of Interdisciplinary courses and the departments/ units involved

| S. No. | Name of Interdisciplinary Courses | Subject code | Name of Departments |
|---------------|--|---------------------|--------------------------------|
| 1 | Introduction to Soft Computing (Neural Network, Fuzzy Logic and Genetic Algorithm) | NOE-031 | Computer Science & Engineering |
| 2 | Cyber Security | AUC-002 | Computer Science & Engineering |
| 3 | Fluid Mechanics & Solid Handling | NBT-302 | Chemical Engineering |
| 4 | Heat & Mass Transfer | NBT-402 | Chemical Engineering |
| 5 | Elementary Mathematics-III | NBT-301 | Applied Sciences & Humanities |
| 6 | Industrial Sociology | NHU-302 | MBA |
| 7 | Industrial Psychology | NHU-301 | MBA, Chemical Engineering |
| 8 | Engineering & Managerial Economics | NHU-501 | MBA, Chemical Engineering |
| 9 | Industrial Management | NHU-601 | MBA |
| 10 | Human Values & Professional Ethics | AUC-001 | Applied Sciences & Humanities |
| 11 | Quality Management | NOE-072 | MBA |
| 12 | Operation Research | NOE-073 | Applied Sciences & Humanities |

5. Annual/semester/ choice based credit system (programmewise):
Semester (Choice Based Credit System-CBCS)

6. Participation of the department in the courses offered by other departments

| S. No. | Name of Interdisciplinary courses | Name of the department |
|--------|---|------------------------|
| 1 | BT-102: Introduction of Bioscience (MTU Syllabus, in the year of 2013-14) | All B.Tech. branches |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| S. No. | Name of course | Name of industry | Number of students benefited in last three years |
|--------|----------------------|--|--|
| 1 | Technical Programmes | Simulanis Solutions Pvt. Ltd., New Delhi | 61 |

8. Details of courses/ programmes discontinued (if any) with reasons:

NIL

9. Number of teaching posts

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 12 | 02 |
| Associate Professors | | 00 |
| Assistant Professors | | 10 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.,

| S. No. | Name of Faculty | Qualification | Designation | Specialization | Teaching Exp. (in Years) | M.Tech./ Ph.D. Guided |
|--------|---------------------|--------------------|---------------------|--|--------------------------|----------------------------|
| 1 | Dr. Meenu Singh | M. Sc., Ph. D. | Professor & Head | Plant Molecular Biology | 14 | M.Tech. : 03 Ph.D. : 03 |
| 2 | Dr. Ravi Kant Singh | M.Tech, Ph. D. | Professor | Bioreactor Design, Bioprocess Engineering | 15 | M.Tech. : 12 Ph.D. : 03 |
| 3 | Mr. Ankit Kumar | B.Tech, M.Tech. | Assistant Professor | Bioseparation & DSP, Bioinformatics | 04 | NIL |
| 4 | Ms. Heena Pahwa | B.Tech, M.Tech. | Assistant Professor | Molecular Biology, Immunology | 02 | NIL |
| 5 | Ms. Vineeta Singh | B.Tech, M.Tech. | Assistant Professor | Fermentation Biotechnology | 03 | NIL |

| | | | | | | |
|----|----------------------|------------------|---------------------|-----------------------------------|----|--------------|
| 6 | Dr. Bharti Choudhary | M. Tech., Ph.D | Assistant Professor | Microbiology | 0 | NIL |
| 7 | Ms. Meenu Agarwal | B.Tech, M.Tech. | Assistant Professor | Biochemistry, Plant Biotechnology | 03 | NIL |
| 8 | Ms. Abhilasha Sharma | B.Tech, M.Tech. | Assistant Professor | Enzyme & Bioprocess Engineering | 01 | NIL |
| 9 | Ms. Smriti Kaushik | B.Tech, M.Tech. | Assistant Professor | Biochemical Engineering | 03 | M.Tech. : 03 |
| 10 | Ms. Latika Jaiswal | M.Tech. , Ph.D.* | Assistant Professor | Animal Biotechnology | 01 | NIL |
| 11 | Ms. Avni Agrawal | B.Tech, M.Tech. | Assistant Professor | Biochemical Engineering | 02 | NIL |
| 12 | Dr. Md. Zeeshan Nazm | M.Sc., Ph.D | Assistant Professor | Cancer Genetics | 0 | NIL |

11. List of senior visiting faculty : **04 (Four)**

| S. No. | Name of visiting Faculty | Affiliation with Designation | Experiences |
|--------|--------------------------|--|-------------|
| 1 | Dr. Tripti Bhatnagar | Managing Director, Codon Biotech Pvt. Ltd, Noida | 15 Years |
| 2 | Sri. R.P. Yadav | Patent & Trademark Attorney, SR4IPR Partner, Delhi | 28 Years |
| 3 | Dr. Virendra Tiwari | Head, Toxicology Divison, Dabur Research Foundation, Ghaziabad | 16 Years |
| 4 | Mr. Vijay Pratap Singh | Head (HR & Admin), Ayurved Ltd., Kaushambi, Ghaziabad | 14 Years |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **NIL**

13. Student-Teacher Ratio (programme wise): **15:01**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

| S. No. | Nature of staff | Sanctioned | Filled |
|--------|----------------------|------------|--------|
| 1 | Technical Staff | 02 | 02 |
| 2 | Administrative Staff | 01 | 01 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| S. No. | Highest Qualification | Number of Faculty |
|--------|-----------------------|-------------------|
| 1 | Ph. D. | 04 |
| 2 | M.Tech. | 08 |
| 3 | B.Tech. | 00 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**

18. Research Centre /facility recognized by the University -

- Various virtual labs in collaboration with IIT Delhi under the scheme of MHRD, Govt. of India.
- Clinical Research & Bioinformatics lab in association with Simulanis Solutions Pvt. Ltd., New Delhi.

19. Publications: Nil

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|------------------------------------|---------------------|---------------------------------------|-----------------------------|
| 1. Dr. Ravikant Singh | Sangal Paper Ltd | Decolorization of paper mill effluent | 93000.00 |
| 2. Dr. Ravikant Singh | Sangal Paper Ltd | Decolorization of paper mill effluent | 80000.00 |

21. Faculty as members in

| S. No. | Name of Faculty | Member in National Committee | Member in International Committee | Member in Professional Bodies |
|--------|---------------------|---|---|--|
| 1 | Dr. Ravi Kant Singh | 1. Member, Board of Studies of Biotechnology at UPTU, Lucknow 2. Approved supervisor in Biotechnology at UPTU, Lucknow 3. Member, Editorial Board, Biological | Member of Advisory Board in World Research Journal of Biotechnology | 1. Life Member, Association of Biotechnology and Pharmacy, India 2. Life Member, Association of Microbiologist of India, India 3. Life Member, The |

| | | | | |
|---|-----------------|------------------|--|---|
| | | Insights Journal | | Indian Society of Human Genetics |
| 2 | Mr. Ankit Kumar | | | Life Member, Indian Immunology Society, India |

22. Student projects

- a) Percentage of students who have done in-house projects including interdepartmental/ programme

| Percentage of students who have done in-house projects | | | |
|--|---------|---------|---------|
| Course | 2013-14 | 2014-15 | 2015-16 |
| B.Tech. | NA | NA | 83 |

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies

| Percentage of students who have done projects outside the institute | | | |
|---|---------|---------|---------|
| Course | 2013-14 | 2014-15 | 2015-16 |
| B.Tech. | NA | NA | 17 |

23. Awards/ Recognitions received by faculty and students.

a. Faculty:

| S. No | Activity | Organization | Faculty Name | Date |
|-------|--|---|---------------------|----------------------|
| 1 | Workshop on Clinical Research & Bioinformatics | Simulanis Solutions Pvt Ltd., New Delhi | Mr. Ankit Kumar | 15-07-15 to 26-07-15 |
| 2 | Workshop on Clinical Research & Bioinformatics | Simulanis Solutions Pvt Ltd., New Delhi | Ms. Meenu Agarwal | 15-07-15 to 26-07-15 |
| 3 | Workshop on Clinical Research & Bioinformatics | Simulanis Solutions Pvt Ltd., New Delhi | Dr. Ravi Kant Singh | 15-07-15 to 26-07-15 |
| 4 | Workshop on Communication Skills through ICT | NITTR, Chandigarh | Ms. Smita Shukla | 20-7-15 to 24-07-15 |
| 5 | Workshop on Communication Skills through ICT | NITTR, Chandigarh | Ms. Vineeta Singh | 20-7-15 to 24-07-15 |
| 6 | FDP on Intellectual Property Rights | India Juris, New Delhi | Dr. Ravi Kant Singh | 25-07-15 |
| 7 | FDP on Intellectual Property Rights | India Juris, New Delhi | Ms. Vineeta Singh | 25-07-15 |

| | | | | |
|----|-------------------------------------|------------------------|----------------------|--------------------------|
| 8 | FDP on Intellectual Property Rights | India Juris, New Delhi | Mr. Ankit Kumar | 25-07-15 |
| 9 | FDP on Intellectual Property Rights | India Juris, New Delhi | Ms. Meenu Agarwal | 25-07-15 |
| 10 | FDP on Intellectual Property Rights | India Juris, New Delhi | Ms. Smita Shukla | 25-07-15 |
| 11 | Workshop on SAS & Clinical Research | MonkFox, Hyderabad | Ms. Heena Pahwa | 06-06-2016 to 16-06-2016 |
| 12 | Workshop on SAS & Clinical Research | MonkFox, Hyderabad | Ms. Vineeta Singh | 06-06-2016 to 16-06-2016 |
| 13 | Workshop on Internet Of Things | PTC | Dr. Ravi Kant Singh | 10-06-16 |
| 14 | Workshop on Virtual Lab | IIT, Delhi | Dr. Ravi Kant Singh | 23-08-16 |
| 15 | Workshop on Virtual Lab | IIT, Delhi | Mr. Ankit Kumar | 23-08-16 |
| 16 | Workshop on Virtual Lab | IIT, Delhi | Ms. Heena Pahwa | 23-08-16 |
| 17 | Workshop on Virtual Lab | IIT, Delhi | Ms. Vineeta Singh | 23-08-16 |
| 18 | Workshop on Virtual Lab | IIT, Delhi | Ms. Smita Shukla | 23-08-16 |
| 19 | Workshop on Virtual Lab | IIT, Delhi | Ms. Meenu Agarwal | 23-08-16 |
| 20 | Workshop on Virtual Lab | IIT, Delhi | Ms. Abhilasha Sharma | 23-08-16 |

b. Students:

| S. No. | Name of Student | Name of Award | Year | Agency |
|--------|-------------------|---|------|---------------------|
| 1 | Ms. Divyani Pal | Dr. O.P. Agarwal Award Branch wise Topper | 2014 | NIET, Greater Noida |
| 2 | Ms. Divyani Pal | Dr. O.P. Agarwal Award Branch wise Topper | 2015 | NIET, Greater Noida |
| 3 | Ms. Srishti Gupta | Dr. O.P. Agarwal Award Branch wise Topper | 2015 | NIET, Greater Noida |
| 4 | Ms. Divyani Pal | Dr. Sarojini Agarwal Award Branch wise Topper | 2016 | NIET, Greater Noida |
| 5 | Ms. Srishti Gupta | Dr. O.P. Agarwal Award | 2016 | NIET, Greater |

| | | | | |
|---|--------------|---|------|-------------------------------------|
| 6 | Ms. Ruby Bam | Branch wise Topper Dr. Sarojini Agarwal Award Branch wise Topper | 2016 | Noida NIET, Greater Noida |
|---|--------------|---|------|-------------------------------------|

24. List of eminent academicians and scientists / visitors to the department:

| S. No. | Name of Academicians/Scientists/Visitors with designation | Affiliation | Purpose | Year |
|--------|--|---|---------------------------------|------|
| 1 | Mr. Mayank Bhardwaj | Rapture Biotech, Noida | Guest Lecture | 2013 |
| 2 | Mr. Vivek Sharma | Environmental Resources Management (ERM), Gurgaon | Guest Lecture | 2014 |
| 3 | Dr. Tripti Bhatnagar, Managing Director | Codon Biotech. Pvt. Ltd, Noida | Industry-Institute Interactions | 2015 |
| 4 | Dr. Rajesh Kumar Thapa, Sr. Scientist | Ranbaxy Laboratories Ltd., Gurgaon | Summer Training | 2015 |
| 5 | Sri. R.P. Yadav, Patent & Trademark Attorney | SR4IPR Partner, Delhi | Guest Lecture | 2015 |
| 6 | Mr. Vishal Sharma, Managing Director | ENVIRTA Solution Pvt. Ltd., Noida | Guest Lecture | 2015 |
| 7 | Dr. B.N. Mishra, Professor & Head, Department of Biotechnology | IET, Lucknow | Curriculum Development Workshop | 2016 |
| 8 | Dr. Chaiti Ganguly, Director | CET, IILM, Greater Noida | Curriculum Development Workshop | 2016 |
| 9 | Dr. Virendra Tiwari, Head, Toxicology Division | Dabur Research Foundation, Ghaziabad | Seminar | 2016 |
| 10 | Dr. Faiz Abuzar, Account Manager | Thomson Reuters, Noida | Guest Lecture | 2016 |
| 11 | Dr. Namrata Gill | Dr. Reddy's Laboratories Ltd., Gurgaon | Guest Lecture | 2016 |

25. Seminars/ Conferences/ Workshops organized & the source of funding:

| S. No. | Name of Seminar/ Conference/ Workshop | National/ International | Date | Funding agency |
|--------|---------------------------------------|-------------------------|-------------------|---------------------|
| 1 | Seminar on soft skills | National | September 8, 2014 | NIET, Greater Noida |

| | | | | |
|---|--|----------|-------------------|---|
| 2 | FDP on Communication Skills through ICT | National | July 20-24, 2015 | NITTR, Chandigarh |
| 3 | Workshop on Bioinformatics & Clinical Research | National | July 15-26, 2015 | Simulanis Solutions Pvt. Ltd., Delhi |
| 4 | Workshop on Clinical Research & SAS | National | June 06-16, 2016 | MonkFox, Hyderabad |
| 5 | Workshop on Virtual Lab | National | August 23, 2016 | IIT, Delhi |
| 6 | Workshop on Curriculum Development for B.Tech. Biotechnology | National | April 21-22, 2016 | Dr. APJ Abdul Kalam Technical University, Lucknow |

26. Student profile programme/course wise:

| | Name of Course/ Programme | Applications received for admission* | Selected | Enrolled | | Pass Percentage |
|----|------------------------------|---|----------|----------|----|--------------------|
| | | | | M | F | |
| UG | Session 2016-2017 | By AKTU Lucknow (formerly UPTU Lucknow) | 60 | 40 | 20 | - |
| | Session 2015-2016 | | 48 | 29 | 19 | - |
| | Session 2014-2015 | | 43 | 13 | 30 | - |
| | Session 2013-2014 | | 31 | 9 | 22 | - |

*M=Male *F=Female

27. Diversity of Students

| | Name of Course/ Programme | % of Students from same state | % of Students from other states | % of Student from abroad |
|----|------------------------------|----------------------------------|------------------------------------|-----------------------------|
| UG | Session 2015-2016 | 80 | 20 | NIL |
| | Session 2014-2015 | 88 | 12 | NIL |
| | Session 2013-2014 | 93 | 07 | NIL |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S. No. | Year (Session) | Examination Qualified | No. of students qualified |
|--------|----------------|-----------------------|------------------------------|
| 1 | 2015-16 | GATE | 02 |
| 2 | 2014-15 | | NA |
| 3 | 2013-14 | | NA |

29. Student progression in last three years

| Student progression (%) | Against % Enrolled | | |
|----------------------------------|--------------------|---------|---------|
| | 2015-16 | 2014-15 | 2013-14 |
| UG to PG | 10 | NA | NA |
| PG to M.Phil. | NA | NA | NA |
| PG to Ph.D. | NA | NA | NA |
| Ph.D to Post-Doctoral | NA | NA | NA |
| Employed | | | |
| a. Campus Selection | 86 | NA | NA |
| b. Other than campus recruitment | NIL | NA | NA |
| Entrepreneurship/Self-employment | NIL | NA | NA |

30. Details of Infrastructural facilities

a. Library:

b. Library:

Central Library has 79 Titles, 1600 Volume of books

Department also has its own library having more than 100 books

b) Internet facilities for staff and students

Internet facility is provided to all Staff members and students through Campus wi-fi, Reliance Jio hotspot and a leased line of 110 Mbps.

c) Total number of class rooms

B.Tech. – 03 class rooms equipped with multimedia projector.

d) Students' laboratories

Number of Labs: 10

31. Number of students receiving financial assistance from college, university, Government or other agencies

| S. No. | Agencies | Number of Students | | |
|--------|--|--------------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department, Govt. of Uttar Pradesh | 12 | 13 | 07 |

32. Details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts

| S. No. | Students Enrichment Programmes (Lectures/Workshop/Seminar/Industrial Visit) | Activity Detail | Session (Year) |
|--------|---|--|----------------|
| 1 | Guest Lecture | Careers at Indian Air Force delivered by Wing Commander AMS Joseph, Jt. Director | 2016-17 |
| 2 | Industrial Visit | Barclays, Noida | 2016-17 |
| 3 | MOU | MOU signed with Codon Biotech. Pvt. Ltd, Noida | 2016-17 |
| 4 | MOU | MOU signed with Institute For Industrial Research & Toxicology, Ghaziabad | 2016-17 |
| 5 | Industrial Visit | At Industrial Research & Toxicology, Ghaziabad | 2016-17 |
| 6 | Industrial Visit | At Mother Dairy, Patparganj, Delhi | 2016-17 |
| 7 | Tie-Ups | NIET tied up with Mersion School | 2015-16 |
| 8 | Seminar | Short term courses with foreign universities | 2015-16 |
| 9 | Seminar | Career in field of Stem Cell Technology, by Life cell International Pvt Ltd, New Delhi | 2015-16 |
| 10 | Industrial Visit | At Mother Dairy, Patparganj, Delhi | 2015-16 |
| 11 | Seminar | Campus Commune Connect Session by TCS | 2015-16 |
| 12 | Workshop | Skill development Programme in association with MonkFox, Bangalore | 2015-16 |
| 13 | Workshop | Skill development Programme in association with Simulanis Solution Pvt. Ltd., New Delhi. | 2014-15 |
| 14 | Industrial visit | Organized an industrial visit at Yakult Danone India Pvt. Ltd., Sonipat | 2013-14 |
| 15 | Seminar | Seminar on soft skills by Mr. Raman Batra | 2013-14 |

33. Teaching methods adopted to improve student learning: Various activities and programmes are organized to improve teaching learning process

(A). Campus Wide Quality Improvement Programme (CWQIP)

- Use of LCD Projectors to show videos and PPTs
- Use of NPTEL lectures
- Practical Based Learning
- Students advisory committee
- Project based Learning
- CDC activities

(B). Total Students Development Programme (TSDP)

Different activities are organized under this programme

- Guest/Expert Lectures
- Workshop/Conferences
- Skill development programs

- Training in Industry supported labs
- Training on Aptitude and HR Skills
- Technical Quiz/Competition
- Mentor-Mentee policy

(C). Weak Student Development Programme (WSDP)

- Remedial Classes
- Peer adoption policy

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Following activities were carried out in college campus with respect to social and healthy living of human beings.

2. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationery, and Uniform & Mid-day Meals to needy people of our society.

3. Self Defense Training

To prepare girl students of our department to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari Shakti is undertaken that teaches them various tactics of self defense.

4. Tree plantation

The primary purpose of this activity is to imbibe among the staff and students of our department, the importance of a green and healthy surrounding in a rapidly growing concrete jungle.

5. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday. Students of the department actively participated various educational drive and awareness camps.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET Abhiyan on 1st October 2016 on the concept of Swachh Bharat Abhiyan. During this event faculty and students of our department took initiative regarding cleanliness and its maintenance in the campus and nearby places.

7. Holistic Activity

A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog group in the department.

8. Healthy Living

- Health Awareness Campaign against Diabetes.
- TCS Fit4life-Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated.

35. SWOC analysis of the department and Future plans

Strengths

- Quality intellectual capital
- High record of placements
- Well equipped laboratories
- Industrial tie-ups and MOUs
- Department provides industry oriented training

Weaknesses

- Curriculum gap
- Industry experienced faculties are less in number
- Less number of Consultancy and extension activities
- No International academic tie-up's at department level

Opportunities

- To take ethical permission for conducting research on animal sample
- Student exchange programmes with premier institutions and industries in India are possible
- Active Academic Tie up and collaboration with foreign universities for new generation courses
- To be a part of medical science with the knowledge of Bioinformatics & Clinical Research

Challenges

- Curriculum gap with industry needs
- Updating faculty members on latest technologies

Future Plans

- To get NBA Accreditation
- To achieve “Centre of Excellence” in Fermentation Technology.
- To get funded projects from Government funding agencies like DST, DBT, AICTE, etc.

3. Evaluative Report of the Departments

1. Name of the department : **Chemical Engineering**
2. Year of Establishment : **2008**
3. Names of Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):

| S. No. | Level | Name of the programme | Specialization | Shift | Intake | Duration | Full time/part time |
|--------|-------|-----------------------|----------------------|-------|--------|----------|---------------------|
| 1 | UG | B.Tech. | Chemical Engineering | First | 60 | 4 years | Full time |

4. Names of Interdisciplinary courses and the departments/ units involved

| S. No. | Name of Interdisciplinary Courses | Subject code | Name of Departments |
|--------|--|--------------|-----------------------------------|
| 1 | Electrical Measurement & Measuring Instruments | NEE-302 | Electronics & Communications Engg |
| 2 | Cyber Security | AUC-002 | Computer Science & Engineering |
| 3 | Manufacturing Science & Technology | NME-402 | Mechanical Engineering |
| 4 | Engineering Mathematics-III | NAS-301 | Applied Sciences & Humanities |
| 5 | Industrial Sociology | NHU-302 | MBA |
| 6 | Industrial Psychology | NHU-301 | MBA |
| 7 | Engineering & Managerial Economics | NHU-501 | MBA |
| 8 | Industrial Management | NHU-601 | MBA |
| 9 | Human Values & Professional Ethics | AUC-001 | Applied Sciences & Humanities |
| 10 | Quality Management | NOE-072 | MBA |
| 11 | Operation Research | NOE-073 | Applied Sciences & Humanities |
| 12 | Material Science | NOE-074 | Mechanical Engineering |

5. Annual/ semester/ choice based credit system (programme wise)
Semester (Choice Based Credit System-CBCS)

6. Participation of the department in the courses offered by other departments

| S. No. | Name of Interdisciplinary courses | Subject Code | Name of the Department |
|--------|-----------------------------------|--------------|------------------------|
| 1 | Fluid Flow & Solid Handling | NBT-302 | Biotechnology |
| 2 | Heat & Mass Transfer | NBT-402 | Biotechnology |
| 3 | Environmental & Ecology | BOP-355 | Pharmacy |
| 4 | Environmental & Ecology | PHARM-366 | Pharmacy |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| S. No. | Name of course | Name of industry | Number of students benefited in last three years |
|--------|----------------------|--|--|
| 1 | Technical Programmes | Simulanis Solutions Pvt. Ltd., New Delhi | 90 |

8. Details of courses/ programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts

| | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 12 | 01 |
| Associate Professors | | 0 |
| Assistant Professors | | 09 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D./M.Phil.Etc.,)

| S. No. | Name of Faculty | Qualification | Designation | Specialization | Teaching Exp. (in Years) | M.Tech./ Ph.D. guided |
|--------|-----------------------|-----------------|---------------------|-------------------------------|--------------------------|-----------------------|
| 1 | Dr. Pardeep Garg | M.Tech. & Ph.D. | Professor | Heat Transfer | 10 | M.Tech.: 03 |
| 2 | Ms. Monika Srivastava | B.Tech. M.Tech. | Assistant Professor | Chemical Reaction Engineering | 08 | NIL |
| 3 | Mr. Krishanu Saha | B.Tech. M.Tech. | Assistant Professor | Process Modeling & Simulation | 06 | NIL |
| 4 | Mr. Saurabh Yadav | B.Tech. M.Tech. | Assistant Professor | Fluid Mechanics | 02 | NIL |

| | | | | | | |
|----|-----------------------|--------------------|---------------------|------------------------------|----|-----|
| 5 | Ms. Niharika Dutt | B.Tech. M.Tech. | Assistant Professor | Mass Transfer Operation | 02 | NIL |
| 6 | Ms. Priyanka Agarwal | B.Tech. M.Tech. | Assistant Professor | Process Calculation | 01 | NIL |
| 7 | Mr. Rahul Garg | B.Tech. M.Tech. | Assistant Professor | Transport Phenomenon | 02 | NIL |
| 8 | Mr. Chetan Kumar Garg | B.Tech. M.Tech. | Assistant Professor | Environmental Engineering | 02 | NIL |
| 9 | Ms. Roopa Gera | B.Tech. M.Tech. | Assistant Professor | Heat Transfer | 03 | NIL |
| 10 | Mr. Vaibhav Kumar | B.Tech. M.Tech. | Assistant Professor | Computational fluid dynamics | 01 | NIL |

11. List of senior visiting/ adjunct faculty : **02 (TWO)**

| S. No. | Name of visiting Faculty | Affiliation with Designation | Experiences |
|--------|--------------------------|--|-------------|
| 1 | Mr. Raman Talwar | Chief Executive Officer (CEO), Simulanis Solutions Private Limited, New Delhi, India | 10 Years |
| 2 | Mr. Manish Kumar | Senior Engineering-Process, Samsung Engineering, Sector 142, Noida, Uttar Pradesh 201305 | 13 Years |

12. Percentage of lectures delivered and practical classes handled (programmewise) by temporary faculty : **NIL**

13. Student-Teacher Ratio (programme wise) : **15:01**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

| S. No. | Nature of staff | Sanctioned | Filled |
|--------|----------------------|------------|--------|
| 1 | Technical Staff | 01 | 01 |
| 2 | Administrative Staff | 01 | 01 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D./ MPhil/ PG.

| S. No. | Highest Qualification | Number of Faculty |
|--------|-----------------------|-------------------|
| 1 | Ph. D. | 01 |
| 2 | M.Tech. | 09 |
| 3 | B.Tech. | 00 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received- **NIL**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received- **NIL**
18. Research Centre/ facility recognized by the University-
 - Various virtual labs in collaboration with IIT Delhi under the scheme of MHRD, Govt. of India
 - Process modelling & Simulation laboratory in association Simulanis Solution Pvt. Ltd., Delhi.
19. Publications:

| S. No. | Name of Faculty | No. of Publication | Citation index | SNIP | SJR | IF | H index | Books/ Monograph |
|--------|-------------------|--------------------|----------------|------|------|------|---------|------------------|
| 1 | Ms. Niharika Dutt | 01 | 00 | 0.65 | 0.19 | 0.35 | 00 | 00 |

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|--|--|---------------------------------|-----------------------------|
| Ms. Monika Srivastav, Dept. of Chemical Engg. | Sarvottam Institute of Technology and Management | Lab support | 10000.00/ year |

21. Faculty as members in National Committee/International Committee/ Professional Bodies: **NIL**

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/ programme

| Percentage of students who have done in-house projects | | | | | |
|--|---------|---------|---------|---------|---------|
| Course | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| B.Tech. | 100 | 100 | 100 | 100 | 100 |

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies- **NIL**

23. Awards/ Recognitions received by faculty and students.

| S.No | Activity | Organization | Faculty Name | Session |
|------|--|---|-----------------------|-----------|
| 1 | Best Faculty award | NIET, Greater Noida | Ms. Monika Srivastava | 2013-14 |
| 2 | Best Faculty award | NIET, Greater Noida | Ms. Roopa Gera | 2013-14 |
| 3 | QIP: Symposium on Paints | The society for surface protective coatings India, Mumbai | Mr. Rahul Garg | 2014-15 |
| 4 | Technical Training on Modelling & Simulation of Refinery Process | Simulanis Solutions Pvt Ltd., New Delhi | Mr. Saurabh Yadav | 2014-15 |
| 5 | FDP on Intellectual Property Rights | India Juris, New Delhi | Mr. Monika Srivastava | 2014-15 |
| 6 | FDP on Intellectual Property Rights | India Juris, New Delhi | Ms. Priyanka | 2014-15 |
| 7 | FDP on Intellectual Property Rights | India Juris, New Delhi | Mr. Rahul Garg | 2014-15 |
| 8 | FDP on Intellectual Property Rights | India Juris, New Delhi | Ms. Niharika Dutt | 2014-15 |
| 9 | FDP on Intellectual Property Rights | India Juris, New Delhi | Mr. Krishanu Saha | 2014-15 |
| 10 | Technical Training on Modelling & Simulation | Simulanis Solutions Pvt Ltd., New Delhi | Mr. Krishanu Saha | 2014-15 |
| 11 | International Conference | CHEMCON 2014 | Mr. Saurabh Yadav | 2014-2015 |
| 12 | Technical Training on Modelling & Simulation | Simulanis Solutions Pvt Ltd., New Delhi | Mr. Rahul Garg | 2015-16 |
| 13 | Technical Training on Modelling & Simulation | Simulanis Solutions Pvt Ltd., New Delhi | Mr. Saurabh Yadav | 2015-16 |
| 14 | Workshop on Internet of things | PTC | Ms. Niharika Dutt | 2015-16 |
| 15 | Workshop on Communication skills on ICT | NITTTR, Chandigarh | Ms. Niharika Dutt | 2015-16 |

b. Students:

| S. No. | Name of Student | Name of Award | Year | Agency |
|--------|------------------|-------------------------------------|------|---|
| 1 | Ms. Shweta Singh | 13th rank in University | 2014 | UPTU, Lucknow |
| 2 | Mr. Ram Kumar | National award in sports | 2015 | Jaipuria Institute of Management, Ghaziabad |
| 3 | Amit Kumar Singh | 19th rank in University | 2015 | AKTU, Lucknow |
| 4 | Ms. Khushboo | Topper (Dr. OP Agarwal Award) | 2015 | NIET, Greater Noida |
| 5 | Kritika Gautam | Topper (Dr. OP Agarwal Award) | 2015 | NIET, Greater Noida |
| 6 | Deepak Kumar | Topper (Dr. Sarojini Agarwal Award) | 2016 | NIET, Greater Noida |

24. List of eminent academicians and scientists / visitors to the department

| S. No. | Name of Academicians/Scientists/Visitors with designation | Affiliation | Purpose | Year |
|--------|---|---|---------------|---------|
| 1 | Mr. Dhirendra Dubey | Lead Process design Engineer (General Manager Core Process Engineering), Reliance Industries Limited, Core Process Engineering Group, Navi Mumbai | Guest Lecture | 2013-14 |
| 2 | Mr. Raman Talwar | Chief Executive Officer (CEO), Simulanis Solutions Private Limited, New Delhi, India | Workshop | 2014-15 |
| 3 | Mr. Neeraj Chauhan | Process Engineer, Simulanis Solutions Private Limited, New Delhi, India | Workshop | 2014-15 |
| 4 | Mr. Raman Talwar | Chief Executive Officer (CEO), Simulanis Solutions Private Limited, New Delhi, India | Workshop | 2015-16 |
| 5 | Mr. Manish Kumar | Senior Process Engineering, Bechtel India Pvt. Ltd., Sector 20, Gurgaon, Haryana 122015 | Guest Lecture | 2015-16 |

25. Seminars/ Conferences/ Workshops organized & the source of funding

| S. No. | Name of Seminar/Conference/ Workshop | National/ International | Date | Funding agency |
|--------|---|-------------------------|------------------|-------------------|
| 1 | FDP on Communication Skills through ICT | National | July 20-24, 2015 | NITTR, Chandigarh |

| | | | | |
|---|---|----------|------------------|--------------------------------------|
| 2 | Workshop on process Modeling & Simulation | National | July 15-26, 2015 | Simulanis Solutions Pvt. Ltd., Delhi |
| 3 | Workshop on process Modeling & Simulation | National | June 06-16, 2016 | Simulanis Solutions Pvt. Ltd., Delhi |
| 4 | Workshop on Virtual Lab | National | August 23, 2016 | IIT Delhi |

26. Student profile programme/ course wise:

| Name of Course/ Programme | Applications received for admission* | Selected | Enrolled | | Pass Percentage |
|------------------------------|--|--|----------|----|--------------------|
| | | | M | F | |
| UG | Session 2016-2017 | By AKTU Lucknow (formerly UPTU Lucknow) | 25 | 20 | 05 |
| | Session 2015-2016 | | 40 | 37 | 03 |
| | Session 2014-2015 | | 27 | 20 | 07 |
| | Session 2013-2014 | | 23 | 21 | 02 |

*M=Male *F=Female

27. Diversity of Students

| Name of Course/ Programme | | % of Students from same state | % of Students from other states | % of Student from abroad |
|------------------------------|-------------------|----------------------------------|------------------------------------|-----------------------------|
| UG | Session 2015-2016 | 80 | 20 | NIL |
| | Session 2014-2015 | 72 | 28 | NIL |
| | Session 2013-2014 | 67 | 33 | NIL |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S. No. | Year (Session) | Examination Qualified | No. of students qualified |
|-----------|----------------|--------------------------|------------------------------|
| 1 | 2015-16 | GATE | 00 |
| 2 | 2014-15 | GATE | 04 |
| 3 | 2013-14 | GATE | 02 |
| 4 | 2014-15 | Govt. services | 01 |
| 5 | 2014-15 | PSU | 01 |

29. Student progression in last three years

| Student progression | Against % Enrolled | | |
|-----------------------|--------------------|---------|---------|
| | 2015-16 | 2014-15 | 2013-14 |
| UG to PG | 7.5 | 6.4 | NIL |
| PG to M.Phil. | NA | NA | NA |
| PG to Ph.D. | NA | NA | NA |
| Ph.D to Post-Doctoral | NA | NA | NA |

| Employed | | | |
|-----------------------------------|----|----|----|
| c. Campus Selection | 53 | 39 | 36 |
| d. Other than campus recruitment | 10 | 8 | 8 |
| Entrepreneurship/ Self-employment | 01 | 00 | 00 |

30. Details of Infrastructural facilities

c) Library:

Central Library has 59 Titles, 776 Volume of books

Department also has its own library having more than 100 books

b) Internet facilities for staff and students

Internet facility is provided to all Staff members and students through Campus wifi, Reliance Jio hotspot and a leased line of 110 Mbps.

c) Total number of class rooms

B.Tech. – 03 class rooms equipped with multimedia projector.

d) Students' laboratories

Number of Labs: 06

31. Number of students receiving financial assistance from college, university, Government or other agencies -

| S. No. | Agencies | Number of Students | | |
|-------------------|---|---------------------------|----------------|----------------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department, Govt. of Uttar Pradesh | 28 | 29 | 10 |

32. Details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts

| S. No. | Students Enrichment Programmes (Lectures/Worksh op/Seminar/Indust rial Visit) | Activity Detail | Session (Year) |
|-------------------|--|---|---------------------------|
| 1 | Seminar | Application of Process Engineering & Basics of Process Design in Industry delivered by Mr. Dhirendra Dubey, Senior Process Engineer | 2013-14 |
| 2 | Seminar | Seminar on Soft Skills by Mr. Raman Batra, EVP, NIET, Greater Noida | 2013-14 |
| 3 | Workshop | Skill development Programme organized by PFS, NIET Greater Noida in association with Simulanis Solution Pvt. Ltd., New Delhi. | 2014-15 |
| 4 | Guest lecture | Process & Plant Design Industries | 2014-15 |

| | | | |
|----|------------------|---|---------|
| 5 | Tie-Ups | NIET, Greater Noida tied up with “Mersion Programme” | 2015-16 |
| 6 | Seminar | Short term courses with foreign universities | 2015-16 |
| 7 | Seminar | Campus Commune Connect Session by TCS | 2015-16 |
| 8 | Workshop | Skill development Programme organized by PFS, NIET Greater Noida in association with Simulanis Solution Pvt. Ltd., New Delhi. | 2015-16 |
| 9 | Guest Lecture | Careers at Indian Air Force delivered by Wing Commander AMS Joseph, Lt. Director | 2016-17 |
| 10 | Industrial Visit | Barclays, Noida | 2016-17 |
| 11 | Lecture | India Navy | 2016-17 |

33. Teaching methods adopted to improve student learning:

Various activities and programmes are organized

a) Campus Wide Quality Improvement Program(CWQIP)

- Use of LCD Projectors to show videos and PPTs
- Use of NPTEL lectures
- Practical Based Learning
- Students advisory committee
- Project based Learning
- CDC activities

b) Total Students Development Programme (TSDP)

Different activities are organized under this programme

- Guest/Expert Lectures
- Workshop/ Conferences
- Skill development programs
- Training in Industry supported labs
- Training on Aptitude and HR Skills
- Technical Quiz /Competition
- Mentor-Mentee policy

c) Weak Student Development Programme (WSDP)

- Remedial Classes
- Peer adoption policy

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Following activities were carried out in college campus with respect to social and healthy living of human beings.

1. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationery, and Uniform & Mid-day Meals to needy people of our society.

2. Self Defense Training

To prepare girl students of our department to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO

Aseem Nari Shakti is undertaken that teaches them various tactics of self defense.

3. Tree plantation

The primary purpose of this activity is to imbibe among the staff and students of our department, the importance of a green and healthy surrounding in a rapidly growing concrete jungle.

4. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday. Students of the department actively participated various educational drive and awareness camps.

5. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET Abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. During this event faculty and students of our department took initiative regarding cleanliness and its maintenance in the campus and nearby places.

6. Holistic Activity

A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog group in the department.

7. Healthy Living

Health Awareness Campaign against Diabetes.

TCS Fit4life-Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated.

35. SWOC analysis of the department and Future plans

Strengths

- Quality intellectual capital
- Well equipped laboratories
- Industrial tie-ups & MOU's
- Department provides industrial oriented programs
- Academic tie-ups with leading chemical industries like BNB Coating India Ltd, Greater Noida, Envirta Sustainable Solution India Pvt. Ltd, Noida and Simulanis Solutions Pvt. Ltd., Delhi

Weaknesses

- Curriculum gap
- Less number of consultancy & extension activities
- Faculties with industrial experience are less in number
- No International academic tie-up's at departmental level

Opportunities

- Student exchange programmes with premier institutions and industries in India are possible

- Active Academic Tie up and collaboration with foreign universities for new generation courses

Challenges

- Curriculum gap with industry needs
- Updating faculty members on latest technologies
- Unpredictable and declining quality of students may exert pressure on the colleges

Future Plans

- To get NBA Accreditation
- To achieve “Centre of Excellence” in Paint Technology
- Ensuring placement for all eligible students and achieve 100% placement
- To get funded projects from Government funding agencies like DST, DBT, AICTE, etc.

3. Evaluative Report of the Departments

1. Name of the department: **Electrical & Electronics Engineering**
2. Year of Establishment: **2003**
3. Names of Programmes/ Courses offered (UG,PG,M.Phil.,Ph.D.,Integrated Masters; Integrated Ph.D.,etc.)

| S. No. | Level UG/PG | Name of the Program | Specialization | Shift | Intake | Duration | Full Time/ Part Time |
|--------|-------------|---------------------|--------------------------------------|----------|--------|----------|----------------------|
| 1 | UG | B.Tech | Electrical & Electronics Engineering | I shift | 180 | 4yrs | Full Time |
| 2 | UG | B.Tech | Electrical & Electronics Engineering | II shift | 60 | 4yrs | Full Time |
| 3 | PG | M.Tech | Power Electronics | I | 18 | 2yrs | Full Time |

4. Names of Interdisciplinary courses and the departments/ units involved

| S. No. | Name of Subjects | Subject Code | Name of the Department |
|--------|--|-------------------|--------------------------------|
| 1. | Mathematics | NAS-401 | Applied Science & Humanities |
| 2. | Industrial Psychology | NHU-401 | MBA |
| 3. | Thermal and Hydraulic Machines | NME-309 | Mechanical Engg. |
| 4. | Industrial Sociology | NHU-302 | MBA |
| 5. | Engineering Managerial Economics | NHU-501 | MBA |
| 6. | Industrial Management | NHU-601 | MBA |
| 7. | Soft Computing | NOE-031 | CSE |
| 8. | Cyber Security | AUC-002 | CSE |
| 9. | Human Values & Professional Ethics | AUC-001 | Applied Science & Humanities |
| 10. | OOPS & C++ | NCS-039 | CSE |
| 11. | Engineering Maths –I / Engineering Maths -II | RAS-103 / RAS-203 | Applied Science and Humanities |
| 12. | Engineering Physics – I / Engineering Physics – II | RAS-101 / RAS-201 | Applied Science and Humanities |
| 13. | Elements of Mechanical Engg. | RME-101 / RME-201 | Mechanical Engg. |
| 14. | Professional Communication | RAS-204 | Applied Science and Humanities |
| 15. | Computer System and Programming in C | RCS-101 | CSE |

| | | | |
|-----|-----------------------|-------------------|--------------------------------|
| 16. | Basic Electronics | REC-101 / REC-201 | ECE |
| 17. | Engineering Chemistry | RAS-102 / RAS-202 | Applied Science and Humanities |

5. Annual/semester/ choice based credit system (programme wise)

Semester Based Credit System (CBCS)

6. Participation of the department in the courses offered by other departments

| S.No. | Name of Subject | Subject Code | Name of the Department |
|-------|-------------------------------------|--------------|------------------------|
| 1. | Electrical Engineering | NEE-101/201 | All B.Tech Branches |
| 2 | Electrical M/C & Automatic Controls | NEE-309 | ME Dept. |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

| S. No. | Course | Industry | Number of students benefitted (last 3 years) |
|--------|--|----------------------|--|
| 1 | Electrical Transmission and Distribution | NPTI, Faridabad | 72 |
| 2 | Advanced Embedded System | IOTA Cell, Bengaluru | 36 |
| 3 | Japanese Language Training | Japan Foundation | 17 |

8. Details of courses/ programmes discontinued (if any) with reasons: **NIL**

9. Number of Teaching posts

| Teaching posts | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | | 01 |
| Associate Professors | | 0 |
| Asst. Professors | 47 | 26 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M. Phil. etc.,)

| S.No | Name of Faculty | Highest Qualification | Designation | Specialization | No. of Years of Experience | No. of M.Tech/PhD guided in last 4 years |
|------|-------------------|-----------------------|---------------------|--|----------------------------|--|
| 1 | Dr. S. Gairola | Ph.D | Prof. & HOD | Power Electronics Machines & Drives | 25 | 02 M.Tech |
| 2 | Anjali Gupta | Ph.D (P) | Assistant Professor | Power Systems | 10 | - |
| 3 | Rishi Singhal | M.Tech | Assistant Professor | VLSI Design | 9 | - |
| 4 | Anurag Verma | Ph.D (P) | Assistant Professor | Power Systems | 13 | 01 M.Tech |
| 5 | Ratna Raju Ravela | M.Tech | Assistant Professor | Power & Industrial Drives | 4 | |
| 6 | Anil Kumar Jha | M.Tech | Assistant Professor | Control Systems | 8 | - |
| 7 | Mohammed Ahmad | M.Tech(P) | Assistant Professor | Power System & Drives | 3.5 | - |
| 8 | Kishore Kumar | M.Tech | Assistant Professor | Control Systems | 7.5 | - |
| 9 | Dharmendra Kumar | M.Tech | Assistant Professor | Power Systems | 7 | - |
| 10 | Sudhanshu Kumar | M.Tech | Assistant Professor | Electronics & Communications | 5 | - |
| 11 | Ragini Malviya | M.Tech | Assistant Professor | Control & Instrumentation | 10 | - |
| 12 | Ashish Agarwal | M.Tech | Assistant Professor | Industrial System & Drives | 3 | - |
| 13 | Sitaram Jana | M.Tech | Assistant Professor | Power System Management | 4 | - |
| 14 | Vandana (on ML) | M.Tech | Assistant Professor | Power System | 1.5 | - |
| 15 | Amit Kr Tripathi | M.Tech | Assistant Professor | VLSI Design | 12 | - |
| 16 | Vikas Singh | M.Tech | Assistant Professor | Power Systems | 9 | - |
| 17 | Mohd. Ehtesham | M.Tech | Assistant Professor | Control Systems | 4 | - |
| 18 | Ajay Singh | M.Tech | Assistant Professor | Power Systems | 4 | - |

| | | | | | | |
|----|----------------------|---------|---------------------|---------------------------|-----|---|
| 19 | Ranjit Singh | M.Tech | Assistant Professor | Power Electronics | 2 | - |
| 20 | Monika Kharb (on ML) | M.Tech | Assistant Professor | Power Systems | 1 | - |
| 21 | Neha Jain | M.Tech. | Assistant Professor | Control System | 3 | - |
| 22 | Neha Sahu | M.Tech. | Assistant Professor | Inst. And Control | 4.5 | - |
| 23 | Rohit Gupta | M.Tech. | Assistant Professor | Control System | 4 | - |
| 24 | Himanshu | M.Tech. | Assistant Professor | Power System | 4 | - |
| 25 | Manoj Kumar | M.Tech. | Assistant Professor | Control & Instrumentation | 5 | - |
| 26 | M. Hari | M.Tech. | Assistant Professor | Power Electronics | - | - |
| 27 | Abhishek Yadav | M.Tech. | Assistant Professor | Power Electronics | - | - |

(P) – Pursuing

11. List of visiting/ adjunct faculty

| S.No | Name of Faculty | Designation | Affiliation | Experience (years) |
|------|-----------------|--------------|-----------------------------|--------------------|
| 1 | Bhupendra Kumar | Manager | HCL Technologies, NOIDA | 9 |
| 2 | Sunil Kumar | Founder | Online Edu Company, Kota | 5 |
| 3 | Manoj Sharma | Executive | ST Microelectronics | 18 |
| 4 | R Sasikanth | Board Member | Startup Noida | 25 |
| 5 | Vijay Rastogi | Director | Sisoft Technologies Pvt Ltd | 25 |
| 6 | Pankaj Thathi | DGM | Dangote Industries Limited | 20 |
| 7 | Kesar Hafeez | M.D. | Engineer's Zone, New Delhi | 20 |
| 8 | Arvind Ranjan | Engr. | Intercall Limited, Mumbai | 19 |
| 9 | Gaurav Gupta | Director | Enertia Sun Power Pvt. Ltd. | 5 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**

13. Student-Teacher Ratio (programme wise)

| | |
|--------|--------|
| B.Tech | 18.5:1 |
| M.Tech | 12:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

| S. No. | Staff | Sanctioned | Filled |
|--------|----------------------|------------|--------|
| 1 | Technical Staff | 7 | 7 |
| 2 | Administrative Staff | 2 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Refer Table 10 for names

| S.No. | Highest Qualification | Number |
|-------|-----------------------|--------|
| 1 | Ph.D, | 01 |
| 2. | M.Tech, | 27 |
| 3 | B.Tech | NIL |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

a) National

| S.No. | Ongoing Project | Funding Agency | National/ International |
|-------|--|-----------------------------|-------------------------|
| 1 | Roof-top Solar Power Plant Design at MSY Medical College Meerut and NIET, G. Noida | Enertia Sun Power Pvt. Ltd. | National |

b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre /facility recognized by the University: **NIL**

19. Publications:

| No. of Publications | Citation Index of Dept Faculty | SNIP | SJR | Impact Factor | h-index | i10 index | Books/ Monographs |
|---------------------|--------------------------------|-------|-----|---------------|---------|-----------|-------------------|
| 58 | 406 | 1.701 | - | 28 | 9 | 9 | 04 |

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|---|---------------------------|---------------------------------------|-----------------------------|
| 1. Dr. Sanjay Gairola, Dept. of Electrical & Electronics Engg | Sangal Paper Ltd | Electrical Energy Audit of Paper Mill | 40000.00 |
| 2. Dr Sanjay Gairola, Dept. of Electrical & Electronics Engg | Enertia Sun Power Pvt Ltd | Roof-top Solar Power Plant Design | 80000.00 |

| | | | |
|-----------------------|---------------------------|--|----------|
| 3. Dr. Sanjay Gairola | Enertia Sun Power Pvt Ltd | Design of Roof-Top Solar Power Plant for MSY Medial College Lalpur, Meerut | 50000.00 |
|-----------------------|---------------------------|--|----------|

21. Faculty as members in

| S. No. | Name of Faculty | Member in | National/International/Editorial Board, Professional Bodies |
|--------|-----------------|--|---|
| 1 | Dr. S. Gairola | Editor in Chief | NIET Journal of Engineering & Technology |
| 2 | A. K. Tripathi | Editing Team Member | NIET Journal of Engineering & Technology |
| 3 | Sudhanshu Kumar | Editing Team Member | NIET Journal of Engineering & Technology |
| 4 | Dr. S. Gairola | BOS member of AKTU, Electrical Engineering | Board of Studies, AKTU, Lucknow |
| 5 | Dr. S. Gairola | Reviewer Committee | Reviewer for IEEE Journal, (International Journal of Industrial Electronics, Power Electronics) |

22. Student projects

| Level (UG/ PG) | Percentage of students who have done project | | | | | |
|----------------------|--|---------|---------|----------|---------|---------|
| | In-House | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| UG | 100% | 100% | 100% | 5.7 | 4.5 | 4.8 |
| PG | 100% | 100% | 100% | Nil | Nil | Nil |

23. Awards / Recognitions received by faculty and students

| S. No. | Name of Faculty/Student | Name of Award | Year | Agency |
|--------|-------------------------|---|------|--------------------------------------|
| 1 | Dr. S. Gairola | Certificate of appreciation from Rashtriya Shikshak Mahasangh, UP | 2016 | Rashtriya Shikshak Mahasangh, UP |
| 2 | Dr. S. Gairola | Best Teacher Award | 2011 | NIET, Greater Noida |
| 3 | Dr. S. Gairola | Innovative Research Award | 2009 | Indian National Academy of Engineers |
| 4 | Disha Dwivedi, | Shri Chandra Sen Agarwal Award-2016 | 2016 | NIET, Greater Noida |
| 5 | Himanshu Prajapati, | Shri Chandra Sen Agarwal Award-2016 | 2016 | NIET, Greater Noida |

| | | | | |
|---|----------------------|-------------------------------------|------|---------------------|
| 6 | Vikas Patel | Shri Chandra Sen Agarwal Award-2016 | 2015 | NIET, Greater Noida |
| 7 | Aditya Kumar Jaiswal | Shri Chandra Sen Agarwal Award-2016 | 2015 | NIET, Greater Noida |

24. List of eminent academicians and scientists / visitors to the department

| S. No. | Name of Academicians / Scientists / Visitors | Affiliation | Purpose | Year |
|--------|--|-------------------------------------|---------------|--|
| 1 | Dr. S. D. Joshi | IIT Delhi | Guest Lecture | 15 Nov. 2013 |
| 2 | Mr. Hardeep Singh Gill | Spectrum Infogain Services, Noida | Workshop | Held on 29 Sep. 2014, 10 Oct. 2014, 11 Oct. 2014 |
| 3 | Mr. Atul Rajput | CETPA Infotech Pvt. Ltd., Gr. Noida | Workshop | 13 Feb., 2015 |
| 4 | Mr. Piyush Upadhyay | SOFCON India Pvt.Ltd. | Workshop | 2 – 4 March, 2015 |
| 5 | Prof. G. Bhuvaneswari | IIT Delhi | Guest Lecture | 28 Feb., 2014. |
| 6 | Prof. Zaheeruddin | Jamia Millia Islamia | FDP | 24 Dec., 2014 |
| 7 | Ms. Vatsala Sharma, Mr. Mahendra Singh | NPTI, Faridabad | Guest Lecture | 19 -21 August, 2016 |
| 8 | Anoop Kr. Pandey, Jitendra Kumar | DesignTech Systems Ltd. | Workshop | 17 Sept., 2016 |
| 9 | Ms. Ritula Thakur | NITTTR, Chandigarh | STC | 02 - 06 May, 2016 |
| 10 | Ms. Shimi | NITTTR, Chandigarh | STC | 11 -15 Jan, 2016 |

25. Seminars/ Conferences/ Workshops organized & the source of funding

| S. No. | Seminars/Conferences/ Workshops | International / National/ Institutional | Date | Funding Agency |
|--------|--|---|---------------------------|--------------------|
| 1 | Embedded Systems Workshop | Institutional | 16 June and 15 July, 2016 | NIET |
| 2 | Three day workshop on Electrical Transmission and Distribution by National Power Training Institute (NPTI) | National | 19 -21 August, 2016 | NIET |
| 3 | ICT based Short Term Course on MATLAB and its Hardware Interface | National | 11 -15 Jan, 2016 | NITTTR, Chandigarh |
| 4 | ICT based Short Term Course on Embedded C Programming of Microcontrollers | National | 02- 06May, 2016 | NITTTR, Chandigarh |

26. Student profile programme/course wise:

| Name of Course / Programme | | Applications received for admission* | Selected | Enrolled | | Pass percentage |
|----------------------------|-----------------|---|----------|----------|----|-----------------|
| | | | | M | F | |
| UG | Session 2016-17 | By AKTU Lucknow (formerly UPTU Lucknow) | 173 | 156 | 17 | - |
| | Session 2015-16 | | 210 | 189 | 21 | - |
| | Session 2014-15 | | 110 | 97 | 13 | - |
| | Session 2013-14 | | 139 | 131 | 8 | - |
| PG | Session 2015-16 | | 0 | 0 | 0 | - |
| | Session 2014-15 | | 4 | 2 | 2 | - |

*Applications are received by the affiliating University for admission and the number of applications are not known for specific department / institute.

27. Diversity of admitted students

| Name of Course / Programme | | % of students from the same state | % of students from other States | % of students from abroad |
|----------------------------|-----------------|-----------------------------------|---------------------------------|---------------------------|
| UG | Session 2015-16 | 58.26 % | 41.37 % | 0 |
| | Session 2014-15 | 60.9 % | 39.1 % | 0 |
| | Session 2013-14 | 57.1 % | 42.85 % | 0 |
| PG | Session 2015-16 | 3 students | 1 student | 0 |
| | Session 2014-15 | 4 students | NIL | 0 |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S.No | Year (Session) | Exam Qualified NET, SLET, GATE, Civil services, Defense services, GMAT | No. of Students Qualified |
|------|----------------|---|--|
| 1 | 2015-16 | GATE | 5 |
| | 2014-15 | | 6 |
| | 2013-14 | | 7 |
| 2 | 2013-14 | Defense services | University Entry Scheme – 6 01 Indian Navy 01 Indian Air Force 01 Indian Army University Entry Scheme – 16 |
| | 2014-15 | | |
| | 2015-16 | | University Entry Scheme – 17 |

29. Student progression

| Student progression (%) | Against % enrolled | | |
|-----------------------------------|--------------------|---------|---------|
| | 2013-14 | 2014-15 | 2015-16 |
| UG to PG | 02 | 03 | 02 |
| PG to M.Phil. | - | - | - |
| PG to Ph.D. | - | - | - |
| Ph.D. to Post-Doctoral | - | - | - |
| Employed | | | |
| •Campus selection | 50 | 63 | 49 |
| •Other than campus recruitment | - | - | - |
| Entrepreneurship/ Self-employment | 01 | - | - |

30. Details of Infrastructural facilities

- a) **Central Library** has 498 Titles and 6914 volume of books
- b) **Internet facilities** for staff and students
 Staff - Internet facility is provided to all Staff members through Campus WiFi Reliance Jio hotspot and Lease line of 110 mbps
 Students - Campus wide Wi-Fi connectivity
- c) **Total number of class rooms**
 EN – 12 Class Rooms with Multimedia Projector in each class room
- d) **Class rooms with ICT facility**
 1. Dept. Seminar hall is equipped with Audio & Visual facility
 2. All Student Class rooms have provision of Multimedia Projector Facility
- e) **Student Laboratories:** 8 Electrical Engg. Labs
 2 Labs having 15 computers each

All labs are CCTV covered and equipped with Air conditioners, Multimedia Projectors and white marker boards. These labs are used for Advanced Networking Lab, programming Lab, Operating Systems Lab, RDBMS Lab, Graphics Lab, Project Lab, Web Technology Lab, Programming Lab, PC Lab.

31. Number of students receiving financial assistance from college, university, Government or other agencies

| S. No. | Agency/College/Univ/Govt | No. of Students | | |
|--------|-------------------------------|-----------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department | 102 | 163 | 456 |
| 2 | Scholarship / GATE Fellowship | 4 | 4 | 0 |
| 3 | Financial Assistance by NIET | 6 | 0 | 0 |

32. Details on student enrichment programmes (special lectures/ workshops/ seminar) with external experts:

| S. No. | Seminars/Conferences/Workshops | Date |
|--------|--|--|
| 1 | A Seminar on Variable Frequency Induction Motor Drives | 28 Feb. 2014 |
| 2 | A Workshop on MATLAB & genetic algorithms for electrical engineers | 5 April, 2014 |
| 3 | Training on Embedded systems | 16 June and 15 July, 2011 |
| 4 | A Seminar on Signals and Systems and Random Processes | 15 Nov., 2013 |
| 5 | One day workshop on PLC / SCADA by Spectrum Infogain Services | 29 Sep. 2014, 10 Oct. 2014, 11 Oct. 2014 |
| 6 | Three day workshop on Electrical Transmission and Distribution by National Power Training Institute (NPTI) | 19-21 August, 2016 |
| 7 | One day workshop on MATLAB Technologies by DesignTech Systems Ltd. | 17 Sep., 2016 |

33. Teaching methods adopted to improve student learning

Various activities and programmes are organized for improving student learning, as follows:

- **Campus Wide Quality Improvement Program (CWQIP)**

- Use of LCD Projectors to show videos and PPTs.
- MOOCs is used
- Use of NPTEL lectures
- Practical Based Learning
- Students advisory committee
- Project based Learning
- CDC activities
- ICT based learning is practiced

- **Total Students Development Programme (TSDP)**

Different activities are organized under this programme

- Guest/Expert Lectures
- Workshop/Conferences
- Skill development programs
- Training on Industry supported labs
- Training on Aptitude and HR Skills
- Technical Quiz/Competition
- Mentor-Mentee policy
- Paper presentation activities by students
- Topics taught beyond syllabus

- **Weak Student Development Programme (WSDP)**
 - Special Classes are organized for the Weak students
 - Extra Classes are organized for the Weak students
 - Peer adoption policy
 - Besides Blackboard and chalk teaching, audio visual aids are extensively used
 - All the faculty members additionally teach through power point presentations and videos.
- 34. Participation in Institutional Social Responsibility (ISR) and Extension activities:
The department members have participated in:
 1. **The Rainbow School**
The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationary, Uniform & Mid-day Meals to needy people of our society.
 2. **Self Defense Training**
To prepare girl students of NIET, to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari Shakti is undertaken that teaches them various tactics of self defense.
 3. **Tree Plantation**
The primary purpose of this activity is to imbibe in the staff and students, the importance of a green and healthy surrounding in a rapidly growing concrete jungle.
 4. **Project Swabhiman**
NIET has become Academic Partner of Project Swabhiman: Employability & Entrepreneurship Development through skilling by SHIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.
 5. **Adoption of a Village**
NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday. The department students are playing active role in educating its people.
 6. **Swachh NIET Abhiyan**
The green gold society of NIET has organized a swachh NIET abhiyan on 1st October 2016 on the concept of Swachh Bharat Abhiyan. During this event faculty and students took initiative regarding cleanliness and its maintenance in the campus and near by places.
 7. **Holistic Activity**
A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog group in the Institute.
 8. **Healthy Living**

TCS Fit4life - Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5 KM marathon where more than 3000 students across the engineering colleges in Delhi/NCR along with faculty members and TCS employees participated.

35. SWOC analysis of the department and Future plans

Strength

- Well qualified and experienced faculty members; having good academic exposure
- Quality research work being undertaken by the faculty members pursuing their Ph.D
- Research Papers are regularly published by faculty and students
- Quality projects are undertaken by students of B. Tech and M. Tech

Weakness

- Curriculum Gap in university syllabus and industrial needs
- Consultancy and extension activities
- The availability of Faculty with industrial exposure is scarce
- Placements of students in core sector are declining and need special attention

Opportunities

- Student's projects / internship are to be encouraged in industries from 2nd year
- Innovation in teaching – learning process is possible through the involvement of industrial experts
- Skill development modules are being planned in collaboration with external agencies
- Students' participation in club activities, intercollegiate competitions

Challenges

- The attractive employment opportunities for students is lacking in core sector
- Private Universities in Neighbourhood
- Rapid changes in technology are leading to ever increasing gap between available academic curriculum & industrial requirements

Future Plans

- The department is planning for National Board of Accreditation
- Non-renewable energy resources based consultancy projects are planned with NIET-TBI
- Preparing the students for GATE

3. Evaluative Report of the Departments

1. Name of the Department: **Civil Engineering**
2. Year of Establishment: **2008**
3. Names of Programmes/ Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)

| S.N. | Level (UG/PG) | Name of the Programme | Specialization | Shift | Intake | Duration | Full Time / Part Time |
|------|---------------|-----------------------|----------------|-------|--------|----------|-----------------------|
| 1 | UG | B. Tech. | Civil Engg. | Ist | 180 | 4 year | Full Time |

4. Names of Interdisciplinary courses and the departments/ units involved

| S.N. | Name of Course | Subject Code | Department |
|------|--------------------------------------|--------------|-----------------------------------|
| 1 | Engg. Mathematics-I | RAS-103 | Applied Science |
| 2 | Basic Electronics | REC-101 | Electronics & Communication Engg. |
| 3 | Engg. Chemistry | RAS-202 | Applied Science |
| 4 | Basic Electrical Engg. | REE-101 | Electrical and Electronics Engg. |
| 5 | Engg. Physics-I | RAS-101 | Applied Science |
| 6 | Engg. Mathematics-II | RAS-203 | Applied Science |
| 7 | Professional Communication | RAS-204 | English |
| 8 | Computer System and Programming in C | RCS-101 | Computer Science Engg. |
| 9 | Engg. Physics-II | RAS-201 | Applied Science |
| 10 | Element of Mechanical Engg. | RME-201 | Mechanical Engg |
| 11 | Engg. Physics Lab | RAS-151 | Applied Science |
| 12 | Basic Electrical Engg Lab | REE-151 | Electrical and Electronics Engg. |
| 13 | Professional Communication Lab | RAS-154 | English |
| 14 | Workshop Practice | RME-152 | Mechanical Engg |
| 15 | Engg. Chemistry Lab | RAS-252 | Applied Science |
| 16 | Elements of Mechanical Engg Lab | RME-251 | Mechanical Engg |
| 17 | Computer Programming Lab | RCS-251 | Computer Science Engg. |
| 18 | Computer Aided Engg. Graphics | RCE-251 | Mechanical Engg |
| 19 | CBSNT Lab | NCE-455 | Applied Science |
| 20 | Industrial Sociology | NHU-302 | MBA |
| 21 | Mathematics III | NAS-401 | Applied Science |
| 22 | Industrial Psychology | NHU-401 | MBA |
| 23 | Human Values & Professional Ethics | AUC-001 | Mechanical Engg. |
| 24 | Cyber Security | AUC-002 | Computer Science |
| 25 | Introduction to Soft Computing | NOE-301 | Computer Science |
| 26 | Engineering & Managerial | EHU-501 | MBA |

| | | | |
|----|-----------------------------------|----------|-------------------------------------|
| | Economics | | |
| 27 | Industrial Management | EHU-601 | MBA |
| 28 | Entrepreneurship Development | EOE-071 | MBA |
| 29 | Non-conventional Energy Resources | EOE- 082 | Electronics and Communication Engg. |

5. Annual/ semester/choice based credit system (programme wise):

Semester (Choice Based Credit System)

6. Participation of the department in the courses offered by other departments

| S.N. | Subject | Subject Code | Department |
|------|---------|--------------|------------|
| 1 | Nil | Nil | Nil |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| S.N. | Year | Name of Course | Name of Industry | No. of Student Benefitted in Last 03 Years |
|------|---------|--|----------------------|--|
| 1 | 2014-15 | 3D Printing and Prototyping | IOTA Cell, Bengaluru | 42 |
| 2 | 2015-16 | Application of Software in Civil Engineering | NIET , Greater Noida | 50 |

8. Details of courses/ programmes discontinued (if any) with reasons: **Nil**

9. Number of teaching posts

| Teaching Posts | Sanctioned | Filled |
|----------------------|------------|--------|
| Professors | 36 | 02 |
| Associate Professors | | 00 |
| Asst. Professors | | 16 |
| Total | | 18 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./ Ph.D. / M. Phil. etc.)

| S.N. | Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M. Tech. students guided in the last 4 years |
|------|------------------------|---------------|------------------------------|----------------------------|----------------------------|--|
| 1 | Dr. Pande B.B Lal | Ph.D. | Professor & Director General | Water Resource Engineering | 55 | Phd= 06 M.Tech=14 |
| 2 | Dr. Prashant Mukherjee | Ph.D. | Professor & Head | Geotechnical Engineering | 12 | M.Tech =6 |
| 3 | Mr. Nitesh Kr. Verma | M.Tech. | Assistant Professor | Hydraulics | 2 | Nil |
| 4 | Mr. Umar Shahab Karimi | M.Tech. | Assistant Professor | Earthquake Engineering | 1 | Nil |
| 5 | Mrs. Sonali Agarwal | M.Tech. | Assistant Professor | Environmental Engineering | 3 | Nil |
| 6 | Mr. Rajesh Meena | M.Tech. | Assistant Professor | Environmental Engineering | 1 | Nil |
| 7 | Mahd Zia | M.Tech. | Assistant Professor | Environmental Engineering | 7 | Nil |
| 8 | Ms. Swati Verma | M.Tech. | Assistant Professor | Environmental Engineering | 1 | Nil |
| 9 | Mr. Lokesh Kachchhawa | M.Tech. | Assistant Professor | Environmental Engineering | 1 | Nil |
| 10 | Mr. Gaurav Tripathi | M.Tech. | Assistant Professor | Water Resource Engineering | 2 | Nil |

| | | | | | | |
|----|-----------------------|---------|---------------------|---|---|-----|
| 11 | Mr. Geetesh Malhotra | M.Tech. | Assistant Professor | Structural Engineering | 1 | Nil |
| 12 | Mr. Salman Hafeez | M.Tech. | Assistant Professor | Transportation Engineering | 2 | Nil |
| 13 | Mr. Ashok Kumar Singh | M.Tech. | Assistant Professor | Transportation Engineering and Planning | 1 | Nil |
| 14 | Mr. Manvendra Singh | B.Tech. | Assistant Professor | Civil Engineering | 5 | Nil |
| 15 | Mr. Madnesh Kr. Dubey | B.Tech. | Assistant Professor | Civil Engineering | 2 | Nil |
| 16 | Mr. Deepak Nayak | B.Tech. | Assistant Professor | Civil Engineering | 3 | Nil |
| 17 | Mr. Siddharth Jain | B.Tech. | Assistant Professor | Civil Engineering | 2 | Nil |
| 18 | Mr. Nikhil Prakash | B.Tech. | Assistant Professor | Civil Engineering | 1 | Nil |

11. List of senior visiting/ adjunct faculty: **11**

| S.N. | Name of Visiting Faculty | Affiliation | Experience |
|------|--------------------------|--|------------|
| 1 | Mr. B. R. Sharma | Geeta Sharma Associates, Noida | 36 |
| 2 | Mr. Pravin K Ujjain | AR Inside, New Delhi | 21 |
| 3 | Mr. Ajay Kumar | AAVHI Group, Lucknow | 21 |
| 4 | Mr. Arun Amber | Freelance Consultant , New Delhi | 20 |
| 5 | Dr. Sushil Kumar | President, Claivalex, New Delhi | 18 |
| 6 | Mr. Manish Kumar | MSV International Inc. | 16 |
| 7 | Mr. C.B Raman | M/S Mspark Futuristic & Associate | 15 |
| 8 | Mr. Santosh Kumar | Petrofac Engineering Services (India) Pvt Ltd. | 15 |
| 9 | Mr. Mohd Khalid | CBRE South Asia Pvt | 10 |
| 10 | Mr. Samar Varshney | Piramal Fund Management Pvt Ltd | 9 |
| 11 | Mr. Rohit Kumar Soni | APEX ENVIROTECH PROJECTS, New Delhi | 6 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**

13. Student-Teacher Ratio (programme wise): **20: 1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| S.N. | Staff | Sanctioned | Filled |
|------|----------------------|------------|--------|
| 1 | Technical | 05 | 04 |
| 2 | Administrative Staff | 02 | 02 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG: As Point No.10

| S.N. | Qualification | Numbers |
|------|---------------|---------|
| 1 | Ph. D. | 02 |
| 2 | M. Tech. | 11 |
| 3 | B. Tech. | 05 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| S.N. | Project Ongoing | Funding Agency | National/International |
|------|-----------------|----------------|------------------------|
| 1 | Nil | Nil | Nil |

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received: **Nil**

18. Research Centre/ facility recognized by the University/ Facility recognized by the University

| S.N. | Research Centre | Details |
|------|-----------------|---------|
| 1 | Nil | Nil |

| | Facility | Recognition given by university |
|---|---|---------------------------------|
| 1 | Virtual Lab in collaboration with IIT Delhi | under MHRD Scheme |
| 2 | PTC Competence Centre | PTC University, USA |

19. Publications:

| No. of Publication s | Citation Index | SNIP | SJR | Impact Factor | h-index | Books/ Monograms |
|----------------------|----------------|-------|-------|---------------|---------|------------------|
| 01 | 294 | 1.667 | 1.743 | 3.882 | 10 | 01/Nil |

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|---|---------------------|---------------------------------|-----------------------------|
| 1. Department of Civil Engg. | MSY Medical College | Water testing | 120000.00 |
| 2. Lokesh Kachchwa | Bigdrop | Bigdrop | 30000.00 |
| 3. Dr N.R. Chandak, Dept of Civil Engg. | MSY Medical College | Design of structure | 900000.00 |

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards....

| S.N . | Name of Faculty | Member in | National/International/Editorial Board/Professional Bodies |
|-------|------------------------|---|--|
| 1 | Dr. Prashant Mukherjee | American Society of Civil Engineering | Associate Member |
| 2 | Dr. Prashant Mukherjee | Institution of Public Health Engineers, India | Member |
| 3 | Dr. Prashant Mukherjee | International Association of Hydrological Science, UK | Member |

22. Student Projects:

| Level (UG/PG) | Projects | | | | | |
|---------------|----------|---------|---------|----------|---------|---------|
| | In-house | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| UG | 100% | 100% | 100% | Nil | Nil | Nil |

22. Awards / Recognitions received by faculty and students :

(List of students who won the prizes in National Competitions)

| S.N. | Name of | Name of Award | Year | Agency |
|------|----------------|-------------------|---------|---|
| 1 | Prashant Bhatt | Accurate Biz Quiz | 2013-14 | Accurate Group of Institutions, Gr. Noida |
| 2 | Sharoof Ahmed | Bridge Making | 2013-14 | IIMT, Gr. Noida |
| 3 | Prashant Bhatt | Shield Quiz | 2013-14 | IEEE, New Delhi |
| 4 | Sharoof Ahmed | Bridge Making | 2013-14 | NIET, Gr. Noida |

| | | | | |
|----|---------------------------------|--------------------|---------|---|
| 5 | Md. Amaan | Dr. OP Agarwal | 2013-14 | NIET, Gr. Noida |
| 6 | Md. Amaan | Quiz | 2014-15 | United Group of Institutions, Gr. Noida |
| 7 | Md. Amaan | Street Smart | 2014-15 | IEC Group of Institutions, Gr. Noida |
| 8 | Md. Amaan | Tech-Nirman | 2014-15 | IIMT, Gr. Noida |
| 9 | Sharoof Ahmed Md. Juned | Bridge Building | 2014-15 | GNIOT Group of Institutions, Gr. Noida |
| 10 | Anshuman | Dirt Robo Race | 2014-15 | NIET, Gr. Noida |
| 11 | Anshuman | Town Planning | 2014-15 | NIET, Gr. Noida |
| 12 | Anshuman Singh | Rock city | 2015-16 | NIET, Gr. Noida |
| | | Aero modeling | | NIET, Gr. Noida |
| | | Modal exhibition | | NIET, Gr. Noida |
| | | Cricket | | NIET, Gr. Noida |
| | | Paper Presentation | | NIET, Gr. Noida |
| 13 | Mohd. Amaan | Quiz | 2015-16 | Jamia Millia Islamia University, Delhi GNIOT, Greater Noida Sharda University, Galgotia College, IEC, Greater Noida |
| 14 | Akshay Bhatia | Boxing(62 kg) | 2015-16 | Self Defense Society of India (Regd.) New Delhi (National event) |
| 15 | Ankit Gupta | Bridge making | 2015-16 | NIET , Greater Noida |
| | | Bridge making | | Jamia Millia Islamia |
| 16 | Ashish Choudhary | Bridge making | 2015-16 | NIET , Greater Noida |
| | | Bridge making | | Jamia Millia Islamia |
| 17 | Anmol Rastogi and Avinash Yadav | Anveshan | 2015-16 | Agastya International Foundation New Delhi |
| 18 | Nihal Ahmed | Volley ball | 2015-16 | Jaipuria Institute, Sec. |
| 19 | Pravendra Singh | Cricket | 2015-16 | IMS Ghaziabad |
| 20 | Pravendra Singh Grawel | Cricket | 2015-16 | Galgotia, Gr. Noida |

| S.N. | Name of Acad./ Scientist/ Visitor/ Affiliation | Purpose | Year |
|------|--|---------------|------|
| 1 | Dr. Sarvesh Swarup | Guest Lecture | 2013 |
| 2 | Prof. Mehtab Alam | Guest Lecture | 2014 |
| 3 | Dr. Sarvesh Swarup | Guest Lecture | 2015 |

| | | | |
|---|-------------------|---------------|------|
| 4 | Prof. Mehtab Alam | Guest Lecture | 2016 |
|---|-------------------|---------------|------|

24. List of eminent academicians and scientists / visitors to the department:

25. Seminars/ Conferences/ Workshops organized & the source of funding

| S.N . | Seminar/ Conference/ Workshop | National / International | Date | Funding Agency |
|-------|--|--------------------------|-------------------------------|-------------------|
| 1 | Amrapali Training and Development (workshop) | National | 21 Sept. 2015 to 16 Oct. 2015 | Amrapali, Noida |
| 2 | Construction of Flexible Pavement (workshop) | National | 09 May to 13 May 2016 | NITTTR Chandigarh |

26. Student profile programme/ course wise:

| Name of the Course/ Programme (Refer No. 4) | Applications Received for Admission | Selected | Enroll | | Pass % |
|---|-------------------------------------|--|--------|-----|--------|
| | | | *M | *F | |
| UG | Session 2016-17 | By AKTU Lucknow (formerly UPTU Lucknow) ¹ | 157 | 153 | 4 |
| | Session 2015-16 | | 232 | 224 | 8 |
| | Session 2014-15 | | 186 | 178 | 8 |
| | Session 2013-14 | | 180 | 169 | 11 |

*M=Male *F=Female

¹ Applications are received by the affiliating university for admission and the numbers of applications are not known for specific department/institute.

27. Diversity of admitted Student

| Name of the Course/programme (Refer No. 4) | % of Students Same State | % of Student from Other States | % of Student from abroad |
|--|--------------------------|--------------------------------|--------------------------|
| UG | Session 2015-16 | 78 | 22 |
| | Session 2014-15 | 76 | 24 |
| | Session 2013-14 | 80 | 20 |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| S.N. | Year (Session) | Exam Qualified (GATE/NET/Civil Services / Defense Services/GMAT) | No. of Students Qualified |
|------|----------------|--|---------------------------|
| 1 | 2013-14 | GATE | 03 |
| 2 | 2014-15 | GATE | 05 |

| | | | |
|---|---------|------|----|
| 3 | 2015-16 | GATE | 05 |
|---|---------|------|----|

29. Student progression

| Student Progression | Against % Enrolled | | |
|--------------------------------|---------------------------|----------------|----------------|
| | 2015-16 | 2014-15 | 2013-14 |
| UG to PG | 06 | 05 | 08 |
| PG to M.Phil. | NA | NA | NA |
| PG to Ph.D. | NA | NA | NA |
| Ph.D to Post-Doctoral | NA | NA | NA |
| Employed | | | |
| •Campus selection | 12 | 24 | 19 |
| •Other than campus recruitment | 12 | 13 | 16 |
| Entrepreneurship/Self- | 2 | 4 | 3 |

30. Details of infrastructural facilities

a) Library-

(i) **Central Library - 01**

Books of Civil Engineering: Titles: **142** Volumes: **7583**
Journals: 18

(ii) **Departmental Library - 01**

Books of Civil Engineering: Titles: **100** Volumes: **150**

b) Internet facilities is provide to all staff members and student through campus Wi-Fi, Relience Jio hot spot and leased line of 110 mbps.

c) Class rooms with ICT facility- **09**

d) Laboratories

Odd Semester- **05**

Even Semester- **05**

31. Number of students receiving financial assistance from college, university, Government or other agencies:

| S.N. | Year | No of Students Received Scholarship from Social Welfare Department | Financial Assistance by NIET |
|-------------|-------------|---|-------------------------------------|
| 1 | 2013-2014 | 162 | 02 |
| 2 | 2014-2015 | 173 | 03 |
| 3 | 2015-2016 | 125 | 03 |

32. Details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts

| Special Lectures | Workshops | Seminar | Conference |
|-------------------------|------------------|----------------|-------------------|
|-------------------------|------------------|----------------|-------------------|

| | | | |
|--|---|-----|-----|
| Project Management, Hoover Dam of USA, by Dr. Sarvesh Swarup on 17 Sept. 2013 | Amrapali Training and Development, 21 Sept. 2015 to 16 Oct. 2015 | Nil | Nil |
| Careers opportunities in real estate, construction and infrastructure, RICS, Amity University, Noida, on 26 Sept. 2016 | Construction of Flexible Pavement by NITTTR Chandigarh, during 09 May to 13 May 2016 | Nil | Nil |
| Townhall Meeting by Dr. Ashish Baheti, MD, Vectus Industries Ltd. on 09 Nov. 2016 | Use of Software in Civil Engineering, by NIET, Civil Engg. Dept. during 06 June to 11 June 2016 | Nil | Nil |

33. Teaching methods adopted to improve student learning

(a) Campus Wide Quality Improvement Program (CWQIP)

- Use of LCD Projectors to show videos and PPTs.
- Use of NPTEL lectures
- Practical based learning
- Students advisory committee
- Project based Learning
- CDC activities

(b) Total Students Development Programme (TSDP)

- Different activities are organized under this programme
- Guest/Expert lectures
- Workshop / Conferences
- Skill development programmers
- Training in industry supported labs
- Training on aptitude and HR skills
- Technical quiz /Competition
- Mentor-Mentee policy
- Site visit

(c) Weak Student Development Programme (WSDP)

- Remedial classes was organized for the weak students
- Peer adoption policy

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

(a) Tree Plantation:

Green Gold Club (student club) was actively involved in plantation in the campus and outside the campus on 10th October 2015, 27th July 2016 and also on 15th August and 17th October (Founders day) in every year.

(b) Adoption of a Village:

The NIET college has adopted **Navada Village** to impart training to unskilled masons of the village. On occasion of birth anniversary of former president Dr. APJ Abdul Kalam, a seminar was organized on **Enhancing the Life of Rural**

People dated 15th October 2015.

(c) The Rainbow School:

Rainbow school provides education and vocational training to children of weaker construction worker. NIET provides free education, books; stationary, uniform and mid-day meal.

(d) Marathon:

TCS Fit4life organized a five km marathon in Greater Noida on 8th February 2015. In this event 3000 students had participated. The venue partner for the event was NIET Gr. Noida. Out of six prizes four were won by student of NIET.

(e) Self Defense Training:

A Training was organized with collaboration with NGO ASEEM NAARI SHAKTI, to prepare girls student of NIET, to fight against crime. It was a course to focus on the holistic development and training of various tactics of self-defense.

(f) Project Swabhiman:

NIET has become academic partner of “Project Swabhiman: employability, entrepreneurship development through skilling” launched by SIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.

(g) Swachh NIET Abhiyan:

College organized “SWACHH BHARAT KI AUR” and “SAFAI ABHIYAN” on 17th October 2015 and 1st October 2016 respectively through “NUKKAD NATAK”. During this event faculty and students took initiative regarding cleanliness and its maintenance in the campus and nearby places.

(h) Diabetes Campaign

College is also arranging diabetes campaign regularly.

(i) Sahaj Yoga

On 5th October 2015, A Seminar was organized by “SAHAJ YOG GROUP” on technical education and light of universal values.

35. SWOC analysis of the department and Future plans

Strength of Department:

- Experienced faculty members with Doctoral and Post Graduate qualification.
- Well-equipped laboratories
- Training program organized on latest software

Weaknesses of Department:

- Week retention ratio of faculty members due to availability of jobs in Government and Public sectors.

Opportunities:

- Contribution of technical domain through affordable housing scheme by Government of India.
- Research and consultancy

Challenges:

- Decline in infrastructure sector
- Competition posed by private university

Future Plan:

- To go for NBA Accreditation
- Centre of excellence in the field of Structural Design.

3. Evaluative Report of the Departments

1. Name of the department: **Master of Business Administration (MBA)**

2. Year of establishment: **2004**

3. Name of Programmes/ Courses offered:

| S No | Level | Name of the Program | Specialization | Shift | Intake | Duration | Full Time/ Part Time |
|-------------|--------------|----------------------------|---|--------------|---------------|-----------------|-----------------------------|
| 1 | PG | MBA | Marketing, Finance, HR, IT, IB, Rural Development | First | 180 | 2 years | Full time |

4. Name of Interdisciplinary courses and the departments/units involved:

Participation of other departments in MBA:

| S No | Name of Course | Subject Code | Departments |
|-------------|--------------------------------------|---------------------|--------------------|
| 1 | Cyber Security | AUC002 | MCA |
| 2 | Database Management Systems | NMBA IT 01 | CSE |
| 3 | System Analysis & Design | NMBA IT 02 | CSE |
| 4 | Data Communication & Networks | NMBA IT 03 | CSE |
| 5 | Computer Applications & MIS | RMB 108 | CSE |
| 6 | Business Statistics | RMB 104 | Mathematics |
| 7 | Quantitative Techniques for Managers | RMB 207 | Mathematics |

5. Annual / semester/choice based credit system (programme wise): **Semester (CBCS)**

6. Participation of the department in the courses offered by other departments: **Yes**

Participation of MBA in other departments:

| S No | Subject | Subject Code | Department |
|-------------|-------------------------------------|---------------------|---|
| 1 | Accounting and Financial Management | RCA 102 | MCA |
| 2 | Industrial Sociology | NHU 302 | B. Tech. (ME, ECE, EN, CSE, IT, Biotech, Civil, CH) |
| 3 | Industrial Psychology | NHU 301 | B. Tech. (ME, ECE, EN, CSE, IT, Biotech, Civil, CH) |
| 4 | Engineering Economics | NHU 501 | B. Tech. (ME, ECE, EN, CSE, IT, Biotech, Civil, CH) |

| | | | |
|---|------------------------------------|---------|--|
| 5 | Industrial Management | NHU 601 | B. Tech. (ME, ECE, EN, CSE, IT, Biotech, Civil, CH) |
| 6 | Human Values & Professional Ethics | AUC 001 | B. Tech. (ME, ECE, EN, CSE, IT, Biotech, Civil, CH), MCA |
| 7 | Entrepreneurship Development | EOE 071 | B.Tech. (ME, CE) |
| 8 | Total Quality Management | NOE 072 | B.Tech. (BT) |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:

| S No | Course | Industry | Number of Students benefitted in last 3 years |
|------|--------|--|---|
| 1 | MBA | KPMG (Six Sigma Green Belt) | 30 |
| 2 | MBA | ICICI Direct Centre for Financial learning | 60 |

8. Details of courses/programmes discontinued (if any) with reasons: **NIL**

9. Number of teaching posts

| Teaching Posts | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 24 | 1 |
| Associate Professor | | 1 |
| Assistant Professor | | 17 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. Etc.

| S No | Name of Faculty | Qualification | Designation | Specialization | Teaching Exp. | No of PhD Guided in last 4 years |
|------|-------------------|---|---------------------|------------------------|---------------|----------------------------------|
| 1 | Dr Dileep Singh | PhD, MMS, B.Tech (Prod Engg) | Professor & HOD | Marketing & Operations | 16 Years | NIL |
| 2 | Dr Gaurav Agarwal | PhD, ICSI, PGPM, UGC-NET, M.Com, B.Com | Associate Professor | Accounting and Finance | 14 Years | 1 |
| 3 | Ms Ekta Singh | M.Com, MBA, PhD (Pursuing) | Assistant Professor | Accounting and Finance | 13 Years | NIL |
| 4 | Mr Vijit Mittal | B.Com (Eco Hons), PGDMM, MBA, CFA, AMFI, LLB (Pursuing) | Assistant Professor | Accounting and Finance | 11 Years | NIL |

| | | | | | | |
|----|-------------------------|----------------------------|---------------------|----------------------------|----------|-----|
| 5 | Mr Mayank Kumar Pandey | B.Com, MBA, PhD (Pursuing) | Assistant Professor | Marketing | 9 Years | NIL |
| 6 | Mr Harsh Awasthi | MBA, UGC-NET, BCom | Assistant Professor | Accounting and Finance | 11 Years | NIL |
| 7 | Mr Imran Ali | MBA, PGDM | Assistant Professor | Marketing | 9 Years | NIL |
| 8 | Mr Gouri Shankar Sharma | MBA, UGC-NET, BBA | Assistant Professor | HRM | 6 Years | NIL |
| 9 | Ms Swity Bhadana | MBA, BCA | Assistant Professor | HRM & Marketing Management | 2 Years | NIL |
| 10 | Ms Smita Barik | MBA, BTech | Assistant Professor | HRM & Finance | 3 Years | NIL |
| 11 | Ms Pavitra Satsangi | MBA, BTech | Assistant Professor | HRM | 4 Years | NIL |
| 12 | Ms Pooja Tyagi | MBA, MA, M.Com, B.Com, | Assistant Professor | Marketing & Finance | 5 Years | NIL |
| 13 | Ms Aarti Chawla Kansal | PGDM | Assistant Professor | Marketing | 8 Years | NIL |
| 14 | Ms. Preeti Nagar | MBA | Assistant Professor | HRM | 2 Years | NIL |
| 15 | Mr Amit Yadav | PGDM | Assistant Professor | Sales & Marketing | 6 Years | NIL |
| 16 | Mr Manoj Kumar | MBA | Assistant Professor | HRM & Marketing Management | 5 Year | NIL |
| 17 | Mr Vinod Kumar | PGDM | Assistant Professor | HRM | 8 Years | NIL |
| 18 | Ms Srishti Srivastav | PGDM | Assistant Professor | HRM | 6 Years | NIL |
| 19 | Ms Archana Raghav | MBA | Assistant Professor | HRM | 9 Years | NIL |

11. List of senior visiting/ adjunct faculty: **5**

| S No | Name of visiting Faculty | Affiliation | Experience |
|------|--------------------------|-------------------------------------|------------|
| 1 | Mr Amit Moja | Aviva Life Insurance Ltd | 18 |
| 2 | Prof. Usta M Amin | Jamia Millia Islamia | 31 |
| 3 | Mr. Amit Verma | Container Corporation of India Ltd. | 13 |
| 4 | Mr Vijay Pratap Singh | Dabur Ltd. | 14 |
| 5 | Mr Sanjay Arora | Groz Beckert | 25 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **NIL**

13. Student-Teacher Ratio (programme wise): **15:1**

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

| S No | Staff | Sanctioned | Filled |
|------|---------------|------------|--------|
| 1 | Support Staff | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| S No | Qualification | Number |
|------|---------------|--------|
| 1 | Ph D | 2 |

16. Number of faculty with ongoing projects:

| S No | Project Ongoing | Funding Agency | National / International |
|------|--|-----------------------------|--------------------------|
| 1 | Feasibility Study of Solar Energy Utilization at MSY Medical College, Meerut & NIET, Greater Noida | Enertia Sun Power Pvt. Ltd. | National |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **NIL**

18. Research Centre/facility recognized by the University:

| S No | Research Centre/Facility | Details |
|------|--------------------------|---|
| 1 | Pre-PhD Coursework | To conduct Pre-PhD Coursework offered by University (AKTU, Lucknow) |

19. Publications:

Many of the faculty members have actively participated in various national and international conferences. Their research works are published in various national & international journals.

| S No | No. of Publication | Av. Citation index | SNIP | SJR | IF | H index | Books/ Monograph |
|------|--------------------|--------------------|------|-----|----|---------|------------------|
| 1 | 21 | - | - | - | - | - | - |

20. Areas of consultancy and income generated: The details of consultancy is as follows:

| Name of faculty (Chief Consultant) | Client Organization | Title of Consultancy of project | Amount received (in Rupees) |
|---|---------------------------|---|-----------------------------|
| 1. Dr Dileep Singh, Dept of Management Studies | Enertia Sun Power Pvt Ltd | Feasibility Study of Solar Energy Utilization | 150000.00 |

21. Faculty as members in National/International/Editorial Board/ Professional Bodies

| S No | Name of Faculty | Member in National/International/Editorial Board/ Professional Bodies |
|------|-----------------|---|
| 1 | Dr Dileep Singh | Life Membership of Indian Society for Technical Education (ISTE) |

| | | |
|---|------------------------|---|
| | | Editor-NIET Journal of Management |
| 2 | Dr Gaurav Aggarwal | Member of Institute of Company Secretaries of India |
| | | Co-Editor-NIET Journal of Management |
| 3 | Mr Mayank Kumar Pandey | Assistant Editor-NIET Journal of Management |

20. Student projects

| Level UG/PG | Projects | | | | | |
|----------------|----------|---------|---------|----------|---------|---------|
| | In-House | | | Industry | | |
| | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| PG | 100% | 100% | 100% | NIL | NIL | NIL |

23. Awards / Recognitions received by faculty and students: **Yes**

(a) Awards / Recognitions received by faculty

Our Faculty is awarded with Cash Prize for producing results (from 95% to 100%) in end semester examination. The following data shows the details of faculty achievements for the past 4 years.

| S No | Name of Faculty | Designation | Details of Awards/ Certificate Received | Year | Agency |
|------|-------------------------|-------------|---|------|--|
| 1 | Dr Dileep Singh | Prof & Head | Best Faculty Award | 2014 | NIET. Gr. Noida |
| | | | Six Sigma Green Belt Training | 2013 | KPMG |
| 2 | Dr Gaurav Aggarwal | Asso. Prof. | UGC- NET | 2014 | UGC |
| | | | ICSI June | 2013 | ICSI |
| | | | Stock Market Pro | 2016 | ICICI Direct Centre for Financial Learning |
| 3 | Mr Harsh Awasthi | Asst.Prof | Best Faculty Award | 2014 | NIET, Gr. Noida |
| | | | UGC-NET | 2012 | UGC |
| | | | Six Sigma Green Belt Training | 2013 | KPMG |
| | | | Stock Market Pro | 2016 | ICICI Direct Centre for Financial Learning |
| 4 | Mr Imran Ali | Asst.Prof. | Best Faculty Award | 2014 | NIET, Gr. Noida |
| 5 | Mr Gouri Shankar Sharma | Asst.Prof. | UGC-NET | 2012 | UGC |
| 6 | Mr Vijit Mittal | Asst.Prof. | Six Sigma Green Belt Training | 2013 | KPMG |

(b) Awards/ Recognitions received by students

Many of the students have participated in various certificate courses such as Six Sigma Green Belt Training by KPMG and Stock Market Pro certification by ICICI Direct Centre for Financial Learning at NIET and got certified.

| S No | Number of Students | Name of Award | Year | Agency |
|------|--------------------|-------------------------------|------|--|
| 1 | 30 | Six Sigma Green Belt Training | 2014 | KPMG |
| 2 | 30 | Stock Market Pro | 2015 | ICICI Direct Centre for Financial Learning |
| 3 | 30 | Stock Market Pro | 2016 | ICICI Direct Centre for Financial Learning |

- Students got cash awards from the Institution for holding Top ten position at university level and top three position at college level:
 - Rank within top 10 in University: Rs. 50,000/-
 - Year wise Topper of MBA : Rs. 10,000/-

Student Award List Academic Performance

| S No | Session | Year | Roll. No. | Name of Student | Award | Amount |
|------|-----------|----------------------|------------|-------------------|--------------------------|--------------|
| 1 | 2015-2016 | 2 ND Year | 1413370064 | Mr Sugam Porwal | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 2 | | 2 ND Year | 1413370069 | Ms Tressy | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 3 | | 1 ST Year | 1513370068 | Ms Paridhi khera | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 4 | 2014-2015 | 2 ND Year | 1313370127 | Ms Supriya Kesri | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 5 | | 1 ST Year | 1413370069 | Tressy | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 6 | 2013-2014 | 2 ND Year | 1213370087 | Ms Prachi | Sri Dayanand Gupta Award | Rs. 10,000/- |
| 7 | | 1 ST Year | 1313370124 | Ms Sugandha Tayal | Sri Dayanand Gupta Award | Rs. 10,000/- |

24. List of eminent academicians and scientists/visitors to the department:

| S. No. | Name of academicians/scientists/visitors | Affiliation | Purpose | Year |
|--------|--|-------------------------|--------------|------|
| 1 | Mr Sameer Sikka | iAugmentor Labs Pvt Ltd | TEDx Meet up | 2016 |
| 2 | Mr Rajeev Parashar | AON Hewitt | TEDx Meet up | 2016 |
| 3 | Mr Kapil Gupta | OMlogics | TEDx Meet up | 2016 |
| 4 | Mr Gaurav Gupta | TED | TEDx Meet up | 2016 |
| 5 | Mr Pratik Marwah | iAugmentor Labs Pvt Ltd | TEDx Meet up | 2016 |
| 6 | Ms Namrata Gill Tyagi | Dr Reddy's Laboratories | Mentoring | 2016 |

| | | | | |
|----|-----------------------------|---|-------------------------|------|
| | | Ltd | | |
| 7 | Dr Rihan Khan Suri | Jamia Milia Islamia (Central University) | Mentoring | 2016 |
| 8 | Mr Sanjay Arora | Groz Beckert, German MNC | Mentoring | 2016 |
| 9 | Mr Yashasvi Goel | YL'S Academy | Workshop | 2016 |
| 10 | Ms Vidhu Chaudhary | Global Talent Track | Workshop | 2016 |
| 11 | Mr Sumit Garg | Shivalik Co-operative Bank Pvt Ltd | Expert lecture | 2016 |
| 12 | Dr Kanhya Singh | FORE School of Management | Guest lecture | 2015 |
| 13 | Dr D K Sharma | S S Associates | Motivational Lecture | 2015 |
| 14 | Prof U M Amin | Jamia Milia Islamia (Central University) | Guest Lecture | 2015 |
| 15 | Mr Vikas Kumar | Moti Lal Oswal Asset Management Co. Ltd | Expert Lecture | 2014 |
| 16 | Mr Prashant Verma | Advait Foundation | Holistic Development | 2014 |
| 17 | Dr Peeush Ranjan Agarwal | VBS Purvanchal University | Guest lecture | 2014 |

25. Seminars/ Conferences/Workshops organized & the source of funding.

| S No | Seminar/ Conference/Workshop | National/ International | Date | Funding Agency |
|-----------------|---|------------------------------------|-------------|---------------------------|
| 1 | VPG Stores Pvt. Ltd. (Workshop) | National | 08/01/2016 | NIET, Gr Noida |
| 2 | ICICI Prudential Life Insurance (Workshop) | National | 03/02/2016 | NIET, Gr Noida |
| 3 | ICICI Securities (Workshop) | National | 09/02/2016 | NIET, Gr Noida |
| 4 | Kotak Mahindra (Seminar) | National | 12/02/2016 | NIET, Gr Noida |
| 5 | Aditya Birla Group-Retail (Conference) | National | 18/02/2016 | NIET, Gr Noida |
| 6 | Motherson Molds & Diecasting Limited (Seminar) | National | 28/02/2016 | NIET, Gr Noida |
| 7 | Hinduja Leyland Finance Services Ltd (Workshop) | National | 15/03/2016 | NIET, Gr Noida |
| 8 | Shriram Transport Finance Company Limited (Workshop) | National | 17/03/2016 | NIET, Gr Noida |
| 9 | GROFERS.COM (Seminar) | National | 02/06/2016 | NIET, Gr |

| | | | | |
|----|---|----------|------------|----------------|
| | | | | Noida |
| 10 | Toluna India (Workshop) | National | 07/06/2016 | NIET, Gr Noida |
| 11 | Info Edge (I) Ltd. (Seminar) | National | 13/10/2015 | NIET, Gr Noida |
| 12 | Genpact (Seminar) | National | 21/10/2015 | NIET, Gr Noida |
| 13 | Religare (Workshop) | National | 19/11/2015 | NIET, Gr Noida |
| 14 | Lifecell International Pvt Ltd. (Workshop) | National | 25/11/2015 | NIET, Gr Noida |
| 15 | Airtel (Seminar) | National | 08/05/2015 | NIET, Gr Noida |
| 16 | Motherson Moulds & Diecasting Ltd (Seminar) | National | 26/04/2015 | NIET, Gr Noida |
| 17 | Axis Bank (Workshop) | National | 16/03/2015 | NIET, Gr Noida |
| 18 | Gyansha Infotech (Seminar) | National | 12/03/2015 | NIET, Gr Noida |
| 19 | ICICI Securities (Workshop) | National | 20/02/2015 | NIET, Gr Noida |
| 20 | VIP INDUSTRIES LIMITED (Conference) | National | 10/02/2015 | NIET, Gr Noida |
| 21 | Vodafone (Workshop) | National | 24/11/2014 | NIET, Gr Noida |
| 22 | ICICI Prudential Life Insurance (Seminar) | National | 20/11/2014 | NIET, Gr Noida |
| 23 | Policy Bazar (Workshop) | National | 13/11/2014 | NIET, Gr Noida |
| 24 | Black Rock (Workshop) | National | 07/11/2014 | NIET, Gr Noida |
| 25 | Genpact (Seminar) | National | 05/11/2014 | NIET, Gr Noida |
| 26 | Fidelity (Workshop) | National | 18/10/2014 | NIET, Gr Noida |
| 27 | Info Edge(I) Ltd (jeevansathi.com) | National | 13/10/2014 | NIET, Gr |

| | | | | |
|----|-------------------------------|----------|------------|----------------|
| | (Conference) | | | Noida |
| 28 | 99acres.com (Seminar) | National | 09/10/2014 | NIET, Gr Noida |
| 29 | Kotak Mahindra Bank (Seminar) | National | 02/05/2014 | NIET, Gr Noida |
| 30 | HDFC Bank (Workshop) | National | 20/02/2014 | NIET, Gr Noida |

26. Student profile programme/course wise:

| Name of Course/ Programme (MBA) | Application Received for admission* | Selected | Enrolled Male | Enrolled Female | Pass Percentage |
|------------------------------------|---|----------|------------------|--------------------|--------------------|
| 2016-2017 | By AKTU Lucknow (Formerly UPTU Lucknow) | 82 | 51 | 31 | - |
| 2015-2016 | | 115 | 66 | 49 | - |
| 2014-2015 | | 71 | 41 | 30 | - |
| 2013-2014 | | 125 | 101 | 24 | - |

*Applications are received by the affiliating university for admission and the number of application are not known for specific department/institute.

27. Diversity of Students: Shown Department wise:

| Name of Programme: MBA | % of Students from same state | % of Students from other state | % of Students from abroad |
|------------------------------|----------------------------------|-----------------------------------|------------------------------|
| 2015-2016 | 70 | 30 | NIL |
| 2014-2015 | 70 | 30 | NIL |
| 2013-2014 | 92 | 8 | NIL |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

| S No | Year (Session) | Exam Qualified | No. of Students Qualified |
|------|----------------|---------------------|---------------------------|
| 1 | 2013-14 | NET/SLET/GATE/Civil | |
| 2 | 2014-15 | Services/Defense | |
| 3 | 2015-16 | Services/GMAT | NIL |

29. Student progression:

| Student Progression | Against Percentage Enrolled | 2013-14 | 2014-15 | 2015-16 |
|----------------------------------|--------------------------------|---------|---------|---------|
| UG to PG | NA | NA | NA | NA |
| PG to M.Phil | NIL | NIL | NIL | NIL |
| PG to Ph.D. | NIL | NIL | NIL | NIL |
| Ph. D. To Post Doctoral | NIL | NIL | NIL | NIL |
| Employed | | | | |
| Campus Selection | 85% | 89% | 96% | |
| other than Campus Recruitment | 9% | 3-4% | 2-3% | |
| Entrepreneurship/Self Employment | NIL | 7.0 | NIL | |

30. Details of Infrastructural facilities

(a). Library

Department has its own library for students and faculty members for their reference having:

- No. of Books: 10109
- No. of Titles: 1382
- No. of Management Subscription Journal: 36
- No. of Magazine/ Newspaper: 14
- Flipboard
- ScoopWoop
- Inshortmobile
- AppAccess

(b) Internet facilities for staff and students

- 110 Mbps lease line
- Wi-fi & Reliance Jio Hotspot

c) Total number of class rooms

- 5 Class Rooms with multimedia Projector.

d) Class rooms with ICT facility

Department uses centralized facilities of Seminar hall and computer lab as per requirement.

e) Group Discussion Room

31. Number of students receiving financial assistance from college, university, government or other agencies:

| S No | Agency/ College/ University/ Government | No. of Students | | |
|-------------|--|------------------------|----------------|----------------|
| | | 2013-14 | 2014-15 | 2015-16 |
| 1 | Social Welfare Department | 26 | 41 | 45 |
| 2 | College | 1 | 83 | 10 |
| 3 | University Funds | NIL | NIL | NIL |

32. Details on student enrichment programmes (special lectures / workshops / seminar):

List of eminent academicians and scientists/visitors to the department:

| S No | Name | Organization | Topic | Date |
|-------------|-----------------------|-----------------------------|-------------------------------------|-------------|
| 1 | Mr Yashasvi Goel | YL'S Academy | Workshop on Personality Development | 01/10/2016 |
| 2 | Ms Vidhu Chaudhary | Global Talent Track | Workshop on Personality Development | 01/10/2016 |
| 3 | Ms Namrata Gill Tyagi | Dr Reddy's Laboratories Ltd | Accelerated Mentorship Program | 29/09/2016 |
| 4 | Dr Rihan Khan Suri | Green Circle Eduvision Ltd | Accelerated Mentorship Program | 29/09/2016 |
| 5 | Mr Sanjay Arora | Groz Beckert | Accelerated Mentorship Program | 29/09/2016 |

| | | | | |
|----|--------------------------|--|---|------------|
| 6 | Mr Sumit Garg | Shivalik Co-operative Bank Pvt Ltd | General HR Practices & Interview Skills | 09/09/2016 |
| 7 | Mr Deepak Jindal | Freelancer | Life Skills | 18/11/2015 |
| 8 | Mr Aditya Kalra | InfoEdge (I) Ltd | Modern HR Practices | 20/10/2015 |
| 9 | Dr. Hari Krishna Maram | Imperial College Banglore | India@2025 | 19/10/2015 |
| 10 | Mr Aseem Kumar | Motherson Moulds & Diecasting Ltd | Opportunities for Freshers | 29/04/2015 |
| 11 | Dr Kanhya Singh | FORE School of Management | Banking Reforms in India | 12/04/2015 |
| 12 | Dr D K Sharma | S S Associates | Light the Fire in your Heart | 13/02/2015 |
| 13 | Mr Prashant Verma | Advait Foundation | Employability Skills | 06/11/2014 |
| 14 | Prof U M Amin | Jamia Millia Islamia, New Delhi | Holistic Marketing | 22/08/2014 |
| 15 | Dr Peeush Ranjan Agarwal | VBS Purvanchal University | FDI in Retail in India | 05/04/2014 |
| 16 | Ms Vineeta | LifeCell International Pvt Ltd | Marketing the Medical Service-Stemcell | 20/02/2014 |
| 17 | Mr Vikas Kumar | Moti Lal Oswal Asset Management Co.Ltd | Mutual Fund Industry in India | 16/02/2014 |

33. Teaching methods adopted to improve student learning:

1. Campus Wide Quality Improvement Program (CWQIP):

Department extends the required infrastructure and facilities to enhance the quality of the students and strengthening the teaching learning process. These facilities include:

- Projector in each classroom
- White boards
- LAN connectivity
- Wi-fi connectivity
- Group Discussion Room
- Audio visual teaching
- NPTEL online classes

2. Total Student Development Program (TSDP):

For the holistic development of the MBA students under TSDP various activities are organized, which are following:

- **Guest Lectures:** Department regularly organizes guest lectures to enrich the learning of students. Industry experts and eminent academicians regularly visit for guest

lectures in the department.

- **Industry Visits:** To boost up the practical exposure, students go for the industrial visits. These industrial visits are arranged in various companies representing different industries like FMCG, Automobile, Retail industries etc.
- **Accelerated Mentorship Program:** Department has tied-up with eminent industry persons to escalate the level and scale of selected MBA students to create new benchmark in training & placement. Industry mentors regularly visit the department and conduct the training sessions.
- **Technical Mock Interviews:** Students are given exposure and trained through mock interviews by industry mentors and department faculty members to get them ready for the placement activities and making them more employable.
- **Beyond the Syllabus Topics Taught:** Faculty members teach the advanced topics in their concerned subjects which are not included in the university syllabus but are important to be taught in changing industry requirements.
- **KPMG Six Sigma Greenbelt Training:** Department has taken a step forward towards quality certifications that would help to get the students employed in the process based companies where quality management and maintenance becomes crucial. In past 30 students & 3 faculty members were trained for the Six-Sigma Green Belt certification by KPMG. This program is fully sponsored by NIET.
- **ICICI Direct Stock Market Pro Certification:** Students are certified in the finance domain by ICICI Direct against the ICICI Direct Stock Market Pro certification. This certification includes extensive lecture delivery and practical sessions by the ICICI Direct people, then examined and certificates are issued.
- In year 2015, 30 students and in year 2016, 30 students and 2 faculty members were awarded the ICICI Direct Stock Market Pro certification.
- **Co-curricular Activities:** Regular conduction of the co-curricular activities for the holistic development of the students are organized such as:
 - Case-study competition,
 - Panel discussion,
 - Presentation competition,
 - Research paper presentation,
 - Business-quiz,
 - Ad-mad show.

Students from other departments are also invited to participate in these co-curricular activities.

- **Mentor-Mentee Program:** Under Mentor-Mentee Program student are divided in groups and adopted by the faculty members, the mentors. Mentors help and support their mentees to overcome their difficulties during their studies.
- **Student Progress Report (SPR):** Every mentor prepares a SPR of each of its mentee containing the personal information, academic details such as sessional and end term examination marks, attendance etc.

3. Weak Student Development Program (WSDP):

For upgrading the weak students, identified on the basis of performance in the Sessional marks, department organizes extra classes in the evening. Apart from this mentors also take extra concern for the weak students and also counsel them.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationery, and Uniform & Mid-day Meals to needy people of our society. Department helps to explore the needy students under Rainbow School.

2. Self Defense Training

To prepare girl students of NIET, to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari Shakti is undertaken that teaches them various tactics of self defense. Department encourages the female students to undergo these training classes.

3. Tree plantation

The primary purpose of this activity is to imbibe in the staff and students, the importance of a green and healthy surrounding in a rapidly growing concrete jungle. Faculty & students of MBA department actively participate in this social cause and plant the trees at NIET campus as well as on outdoor places.

4. Project Swabhiman

NIET has become Academic Partner of Project Swabhiman: Employability & Entrepreneurship Development through skilling by SHIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training. MBA Students are motivated to take active part in these life skill & vocational training sessions.

5. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday. Students along with faculty members visit the village for concerned issue.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. During this event department faculty members and students took initiative regarding cleanliness and its maintenance in the campus and nearby places.

7. Holistic Activity

A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog Group in the Institute

8. Healthy Living

- TCS Fit4life - Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where more than 3000 students across the engineering & management colleges in Delhi/NCR along with faculty members and TCS employees participated.
- Many students of MBA department have participated in health awareness program and TCS Fit4life - Campus Challenge.

9. NIET Town Hall

MBA department organizes Town Halls to make the students aware of the latest trends going on in the industry. The Eminent people from the industry visit NIET and share their experiences regarding their career and the social & business life. This facilitates the students that how real leaders come out and they learn by sharing their experience.

- On 9th June, 2016, Mr Narendra Chadel, Head-Talent Acquisition, TCS, North Region visited NIET for town hall.
- On 9th November, 2016, Mr Ashish Baheti MD of Vectus Industries Limited visited NIET for town hall.

35. SWOC analysis of the department and Future plans

Strengths

- Quality Intellectual Capital
- Industry Tie-ups / Certifications from ICICI and KPMG
- Bi-annual NIET Journal of Management
- High Percentage of placement
- Androgogy Methodology in Teaching Learning Process

Weakness

- Difficulty in coping-up for the students who come from various streams such commerce, science, arts and engineering
- Internship on the basis of core specialization
- Lack of sponsored projects and consultancy

Opportunities

- International placement on Electronic Business Domain
- Developing fresh ideas for innovation through NIET-TBI (NIET Technology Business Incubator)

Challenges

- To find out industry experienced faculty members
- Curriculum Gap
- Drastic changes in management theories such as from unorganized retail to organized online retail

Future plans

- NBA accreditation
- To have funded research projects
- Centre of excellence in Business Analytics

3. Evaluative Report of the Department

1. Name of The Department : **Master of Computer Applications (MCA)**

2. Year of Establishment : **2006**

3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : - PG

| S. No. | Level | Name of Program | Specialization | Shift | Intake | Duration | Full Time /Part Time |
|---------------|--------------|------------------------|-----------------------|--------------|---------------|-----------------|-----------------------------|
| 1 | PG | MCA | - | First | 60 | 3 Years | Full Time |

4. Interdisciplinary Courses and Departments Involved–

| S. No. | Subject | Subjects Code | Department |
|---------------|--------------------------------------|----------------------|-------------------|
| 1 | Professional Communication | NAS-104/RCA-105 | English |
| 2 | Financial Accounting and Management | NMCA-112/RCA-102 | MBA |
| 3 | Professional Communication Lab | NAS-154/RCA-151 | English |
| 4 | Environment and Ecology | NAS-205 | Biotech |
| 5 | Human Values and Professional Ethics | AUC-001 | MBA |

5. Annual/ Semester/Choice Based Credit System: **Semester (CBCS)**

6. Participation of the Department in the Courses Offered by other Departments –

| S. No. | Name Of Course | Subjects Code | Department |
|---------------|-------------------------------------|----------------------|-------------------|
| 1 | Computer Graphics and Animation | NCS-403 | CSE |
| 2 | Computer Graphics and Animation Lab | NCS-453 | CSE |

| | | | |
|----|--|---------------------|------------------------|
| 3 | Introduction to Automata Theory and Formal Languages | NCS-402 | CSE |
| 4 | Design and Analysis of Algorithms | NCS-501 | CSE |
| 5 | Computer Graphics and Animation | NCS-403 | IT |
| 6 | Computer Graphics and Animation Lab | NCS-453 | IT |
| 7 | Operating Systems | NCS-401 | IT |
| 8 | Operating Systems Lab | NCS-451 | IT |
| 9 | Computer Organization | NEC-409 | IT |
| 10 | Computer System & C Programming | RCS-101/ NCS-101 | B Tech (First Year) |
| 11 | Cyber Security | AUC-002 | MBA |
| 12 | Management Information System | NMBA-018 | MBA |
| 13 | Computer Fundamentals& C Programming | BOP-115 | B.PHARM |
| 14 | Computer Fundamentals& C Programming Lab | BOP-115P | B.PHARM |
| 15 | Cyber Security | AUC-002 | ECE |
| 16 | Cyber Security | AUC-002 | EN |
| 17 | DBMS | NCS-502 | EN |
| 18 | Computer Networks | NEC-702 | EN |
| 19 | Cyber Security | AUC-002 | CH |
| 20 | Cyber Security | AUC-002 | CE |

7. Courses in Collaboration with Other Universities, Industries, Foreign Institutions, Etc.:

| S. No. | Name of Course | Name of Industry | Number of students benefitted in last three years |
|--------|--|----------------------|---|
| 1 | Big Data and Analytics | IOTA Cell, Bengaluru | 7 |
| 2 | Cloud Computing | IOTA Cell, Bengaluru | 10 |
| 3 | Mobile Application Development on Android Platform | IOTA Cell, Bengaluru | 12 |
| 4 | CISCO LAB | CISCO | 30 |

8. Details of Courses/ Programmes Discontinued (If Any) with Reasons: **Nil**

9. Number of Teaching Posts Sanctioned and Filled (Professors/ Associate Professors/ Asst. Professors

| | Sanctioned | Filled |
|---------------------|-------------------|---------------|
| Professor | 12 | 0 |
| AssociateProfessors | | 1 |
| Asst. Professors | | 9 |

10. Faculty Profile With Name, Qualification, Designation, Specialization
Ph.D./ M.Phil./ M.Tech/ MCA, Etc.)

| S. No | Name | Designation | Qualification | Specialization | No. of Years of Experience | No. of M.Tech /Ph.D. Students Guided in the last 4 years |
|-------|-------------------------|---------------------|------------------|------------------|----------------------------|--|
| 1 | Mr. Ritesh Rastogi | Associate Professor | M.Tech, MCA | S/W Engineering | 15 | M.Tech-15 |
| 2 | Mr. Rajeev Kumar | Assistant Professor | Phd*,M.Tech, MCA | OS, Biologically | 11 | M.Tech-1 |
| 3 | Mr. Santosh Kumar Gupta | Assistant Professor | M.Tech, MCA | DBMS,DM W | 10 | Nil |
| 4 | Mr. Deepak Kumar Tyagi | Assistant Professor | M.Tech, MCA | S/W Engg | 8 | Nil |
| 5 | Mr. Shivnath Gupta | Assistant Professor | M.Tech, MCA | S/W Engg | 7 | Nil |
| 6 | Mr. Mohit Chaudhary | Assistant Professor | M.Tech, MCA | Java,C | 6 | Nil |
| 7 | Mr. Hirdesh Sharma | Assistant Professor | M.Tech, MCA | DAA | 7 | Nil |
| 8 | Mr. Vijay Kumar Tiwari | Assistant Professor | M.Tech, MCA | Network Security | 7 | Nil |
| 9 | Mr. Sudarshan | Assistant Professor | M.Tech, MCA | S/W Engg | 6 | Nil |
| 10 | Mr Amardeep | Assistant Professor | MCA | S/W Engg | 5 | Nil |

11. List of Senior Visiting/ adjunct Faculty:

| S.No | Name Of Visiting Faculty | Affiliation | Experience |
|------|--------------------------|---------------------|------------|
| 1 | Mr. Sachin Gupta | Trivia Biz Solution | 15 Years |
| 2 | Mr. Abhishek Jain | Samsung Electronics | 12.5 Years |

12. Percentage of Classes Taken By Temporary Faculty Programme-wise Information: **Nil**

13. Student Teacher Ratio: **15:1**

14. Number of Academic Support Staff (Technical) and Administrative staff:
Sanctioned and Filled

| Sl.No. | Designation | Sanctioned | Filled |
|-----------------------------------|----------------------|------------|--------|
| Administrative Staff | | | |
| 1 | Department Assistant | 1 | 1 |
| 2 | Attendant | 1 | 1 |
| Academic Support Staff(Technical) | | | |
| 1 | Lab Technician | 2 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG

| S.No | Qualification | Number |
|------|---------------|--------|
| 1 | Ph.D. | 0 |
| 2 | M.Tech | 9 |
| 3 | MCA | 10 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**

17. Departmental Projects Funded By DST, FIST, DBT, ICSSR Etc.; Total Grants Received:

Nil

18. Research Facility/ Centre/ Virtual Labs with:

| S. No. | Name of Facility | Recognition |
|--------|--------------------------------|--------------------------|
| 1 | Virtual Lab | IIT Delhi |
| 2 | Microsoft Innovation Lab | Microsoft Corporation |
| 3 | Mobile Application Development | In-house |
| 4 | IOS Development Center | Apple University Program |

| | | |
|---|---|---------------------|
| 5 | Cloud Computing Research and Training Lab | Amazon Web Services |
| 6 | Cisco Networking Lab | Cisco |
| 7 | Internet of Things(IoT) Using Raspberry Pi | In-house |
| 8 | Big Data & Analytics Innovation Lab | In-house |

19. Publications:

A) Number of Papers Published in Peer Reviewed Journals
(National / International)

International/National- --- List of International/ National Journals:

| No. of Publications | Citation Index | SNIP | SIR | Impact Factor | H-Index | Books/ Monograph |
|---------------------|----------------|------|-----|---------------|---------|------------------|
| 43 | 2 | - | - | 3.923 | 1 | Nil |

20. Areas of Consultancy and Income Generated -Nil

21. Faculty as Members in

| S.No | Name of Faculty | Member In | National/International/Editor Board/Professional Body |
|------|--------------------|--|---|
| 1 | Mr. Ritesh Rastogi | ISTE International Association of Engineers | National International |

22. Student Projects

Percentage of Students who have done In-House Projects Including Inter-Departmental/Percentage of Students Doing Projects in Collaboration with Industries / Institutes:

| Level PG | Projects | | | | | |
|-----------------|------------------------|---------|---------|----------------------|---------|---------|
| | In House(Mini Project) | | | Industry(Final Year) | | |
| | 2011-14 | 2012-15 | 2013-16 | 2011-14 | 2012-15 | 2013-16 |
| | 100 % | 100 % | 100 % | 100 % | 100 % | 100 % |

23. Awards / Recognitions Received at the National and International Level by faculty and students:

| S.No | Name of Faculty/Students | Name Of Award | Agency |
|------|--------------------------|---------------------------|-----------------|
| 1 | Manisha | Fakir Chand Award | NIET, Gr .Noida |
| 2 | Shekhar Mittal | Fakir Chand Award | NIET, Gr. Noida |
| 3 | Jyoti Kumari | Fakir Chand Award | NIET, Gr. Noida |
| 4 | Ankita Mishra | Fakir Chand Award | NIET, Gr. Noida |
| 5 | Mr. Ritesh Rastogi | Best Faculty Award | NIET, Gr. Noida |
| | | Longest Association Award | NIET, Gr. Noida |
| 6 | Mr. Rajeev Kumar | Best Faculty Award | NIET, Gr. Noida |
| 7 | Mr Mohit Choudhary | Best Faculty Award | NIET, Gr. Noida |
| 8 | Mr Santosh Gupta | Best Faculty Award | NIET, Gr. Noida |

24. List of Eminent Academicians and Scientists/ Visitors to the Department:

| S.No | Name of Acad/Scient/Visitor | Affiliation | Purpose | Year |
|------|-----------------------------|---|---|-----------|
| 1 | Dr. Bharat Bhargava | Department of Computer Science, Purude University, Indiana, USA | End To End Security and Privacy in Distributed System and Cloud Computing | 2012-2013 |
| 2 | Dr. Manohar Lal | Ex. Director, School of Computer & Information Science, IGNOU | Advances in Artificial Intelligence | 2012-2013 |
| 3 | Prof. D.K. Mehta | Jodhpur University | Expert Lecture on E-Governance | 2013-2014 |
| 4 | Mr Vishal Gupta | Samsung (R& D) | Corporate | 2014-2015 |

| | | | Expectations from Fresher's | |
|---|------------------------|---|--|-----------|
| 5 | Dr. B S Rajput | Ex. V C Kumaun University | Quantum Computing | 2014-2015 |
| 6 | Dr Meng Chow Kang | Director of Information Security, CISCO | Cyber Security Challenges: Cisco's Approach Before, During and After An Attack | 2015-2016 |
| 7 | Mr. Pankaj Bhardwaj | TCS | Emerging Technologies | 2015-2016 |
| 8 | Mr.Mukul Singhal (IAS) | Principal Secretary, Technical Education Government of U.P. | Placement Felicitation Program | 2015-2016 |

25. Seminars/ Conferences/ Workshops Organized and the Source of funding (National / International) with Details of Outstanding Participants, If Any

| S. No. | Name of The Seminar /Conference/ Workshop Organized | National/ International | Date | Funding Agency |
|--------|--|-------------------------|----------------|-------------------------------------|
| 1 | National Conference On Emerging Technologies In Computer Science (ETCS – 12), 20–21 Oct'12.Niet Gr. Noida | National | 20–21 Oct 2012 | The Institution of Engineers, Delhi |
| 2 | Workshop on Unix/ Linux Operating System | National | 18 Aug 2013 | NIET, Gr Noida |
| 3 | Seminar on need of Entrepreneurial Revolution in emerging Technologies in global scenario | National | 16 Nov 2013 | CSI and NIET, Gr Noida |
| 4 | Digitization, Opportunities For Professionals And Organizations At Noida Institute Of Engineering & Technology, Greater Noida (Uttar Pradesh). | National | 06 Dec 2014 | CSI |

| | | | | |
|----|--|----------|-------------------|-------------------------------------|
| 5 | Faculty Development Program on Intellectual Property Right | National | 25 Jul 2015 | NIET, Gr Noida |
| 6 | "Need of Entrepreneurial Revolution in Emerging Technologies in the Current Global Scenario" at Noida Institute of Engineering & Technology, Greater Noida | National | 2-3 May 2015 | NIET, Gr Noida |
| 7 | Workshop on CISCO Networking | National | 27Jul-8Aug 2015 | Amity University and NIET, Gr Noida |
| 8 | Workshop on CISCO Networking | National | 16-31May 2016 | Amity University and NIET, Gr Noida |
| 9 | ICT Based short term course on Embedded C Programming of Micro | National | 2-6 May 2016 | NITTTR Chandigarh |
| 10 | Workshop on Digital Marketing | National | 6-15 Jun 2016 | NIET, Gr. Noida |
| 11 | Workshop on Web Technology | National | 6-15 Jun 2016 | NIET, Gr Noida |
| 12 | Workshop on Human Values and Ethics | National | 17-24 Jun 2016 | AKTU and NIET, Gr Noida |
| 13 | Short Term Course On Open Source Technologies | National | 28 Aug-2 Sep 2016 | NITTTR Chandigarh |
| 14 | Python 101 Workshop | National | 19 Oct 2016 | NIET, Gr Noida |

26. Student Profile Course-Wise:

| Name of Course/ Programme | | Applications Received For Admission* | Selected | Enrolled | | Pass Percentage |
|---------------------------|-------------------|--|----------|----------|---|-----------------|
| | | | | M | F | |
| PG | Session 2016-2017 | By AKTU Lucknow (Formerly UPTU Lucknow) | 13 | 9 | 4 | - |
| | Session 2015-2016 | | 48 | 41 | 7 | - |
| | Session 2014-2015 | | 41 | 38 | 3 | - |
| | Session 2013-2014 | | 53 | 47 | 6 | - |

*Applications are received by the affiliating University for admission and the number of applications are not known for specific Department/ Institute.

27. Diversity of Students

| Name of Course/ Programme | | % of Students from Same State | % of Students from Other States | % of Student from Abroad |
|------------------------------|-------------------|----------------------------------|------------------------------------|-----------------------------------|
| PG | Session 2015-2016 | 80 | 20 | Nil |
| | Session 2014-2015 | 83 | 17 | Nil |
| | Session 2013-2014 | 78 | 22 | Nil |

28. How Many Students Have Cleared Civil Services, Defense Services, NETSLET, GATE and Any Other Competitive Examinations: **Nil**

29. Student Progression

| Student Progression | Percentage Against Enrolled |
|---------------------|-----------------------------|
| PG to M.Phil | Nil |
| PG to Ph.D | Nil |

| Student Progression | Percentage Against Enrolled | | |
|---------------------------------|-----------------------------|---------|---------|
| | 2011-14 | 2012-15 | 2013-16 |
| Ph.D. To Post-Doctoral | NA | NA | NA |
| Employed | | | |
| • Campus Selection | 38 | 20 | 40 |
| • Other Than Campus Recruitment | 12 | 8 | 3 |
| Entrepreneurs | 1.18 | NIL | NIL |

30. Details of Infrastructural facilities

- a) **Central Library** has 400 Titles and 2000 volume of books and Twelve Journals
Department also has its own library having more than 100 books
- b) **Internet facilities** for staff and students
Staff - Internet facility is provided to all Staff members through Campus Wi-Fi
Reliance Jio hotspot and Lease line of 110 mbps
Students - Campus wide Wi-Fi connectivity
- c) **Total number of class rooms**
MCA – 6 Class Rooms with Multimedia Projector in each class room.
- d) **Class rooms with ICT facility**
 1. Dept. Seminar hall (shared) equipped with Audio & Visual facility.

2. All Student Class rooms have provision of Multimedia Projector Facility
- e) **Student Laboratories:** As per curriculum the department has following labs.

ODD SEMESTER LABS

- Professional Communication Lab
- Programming Lab
- Database Management System Lab
- Internet and Java Programming Lab
- Computer Network Lab
- Software Engineering Based Project Lab

EVEN SEMESTER LAB

- Computer Based Numerical Statistical Lab
- Data Structure Lab
- Mini Project Lab
- Web Tech Lab

The department has two labs of 60 computers each. Both the labs are CCTV covered and equipped with air conditioners, multimedia projectors and white boards.

31. Number of Students Receiving Financial Assistance from College, University, Government or Other Agencies:

| S.No | Agency (College/Univ/Govt.) | No. of Students | | |
|-------------|--|------------------------|------------------|------------------|
| | | 2013-2014 | 2014-2015 | 2015-2016 |
| 1 | Social Welfare Department | 15 | 48 | 01 |
| 2 | University | Nil | Nil | Nil |
| 3 | Financial Assistance By NIET | 11 | 27 | 07 |

32. Given details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts.

| Sl. No . . | Title of the Special Lecture/ Workshop / Seminar Organized | Details of the External Expert | Session |
|---------------------------|---|---|----------------|
| 1 | Technovision 2K12 | Prof. S.K. Kak | 2012-13 |
| 2 | Workshop on Android | Team From Ducat | 2012-13 |
| 3 | Workshop on Networking | Team From Cisco | 2012-13 |

| | | | |
|----|--|--|---------|
| 4 | Expert Lecture on E-Governance | Prof. D.K. Mehta, Jodhpur University | 2013-14 |
| 5 | Two Days Workshop on PHP and Mysql | Mr. Azeem Khan | 2013-14 |
| 6 | Workshop on Networking | Team From ITCONS | 2013-14 |
| 7 | Workshop on Software Testing | Mr. Saqub Azam | 2013-14 |
| 8 | Workshop on Software Testing | Ms. Srishti Mahovia | 2014-15 |
| 9 | Workshop on Android | Mr. Yatin | 2014-15 |
| 10 | Seminar on Digitization, Opportunities for Professionals and Organizations | Mr Anuj Agarwal, Prof. M.N. Hoda, Prof. R.K Vyas | 2014-15 |
| 11 | CISCO Workshop | Mr.Santosh Gupta Mr. Vimal Padaliya | 2014-15 |
| 12 | Decoder Master | Dr Rajdev Tiwari | 2015-16 |
| 13 | Debug | Dr Rajdev Tiwari | 2015-16 |
| 14 | Wits Worm | Dr Rajdev Tiwari | 2015-16 |
| 15 | Workshop on Android | Md. Aslam | 2015-16 |
| 16 | Workshop on Japanese Language | Ms. Anjali Bhakuni | 2015-16 |
| 17 | Soft Skills | PFS | 2015-16 |
| 18 | Aptitude | PFS | 2015-16 |
| 19 | Technical Workshop | PFS | 2015-16 |
| 20 | Cisco Workshop | Mr Santosh Gupta Mr. Vimal Padaliya | 2015-16 |
| 21 | Digital Marketing | Mr. Amit, Road to Naukri.Com | 2015-16 |
| 22 | Web Tech | Mr. Amit, Road to Naukri.Com | 2015-16 |
| 23 | Workshop on Python | Mr. Shashank Kumar | 2015-16 |

33. Teaching methods adopted to improve student learning

Various Activities and Programmes are organized to enhance student learning

Campus Wide Quality Improvement Program (CWQIP)

- Use of Multimedia Projectors
- Massive Open Online Courses (MOOCs)
- Use of NPTEL Lectures
- Practical Based Learning
- Creative Design Cell (CDC) Activities
- ICT based learning is practiced
- Faculty members carry their Course Files to the classroom and maintain student attendance and topics covered in their registers and also on the ERP (www.nietcampus.com) provided by the Institute
- Regular assignments are distributed and tests are conducted by the faculty members

Total Students Development Program (TSDP)

- Guest/Experts Lectures
- Workshop/Conference
- Training in Industry supported labs
- Training on aptitude and HR skills
- Technical Quiz/Competitions
- Industrial visit/Industrial Training
- Mentor-Mentee program
- Paper presentation Activities by students

Weak Students Development Program (WSDP)

- Special classes are organized for the weak students
- Extra classes are organized for weak students
- Peer Adoption
- Remedial classes are conducted regularly for weaker students under “Weak Student Development Program” (WSDP)

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

1. The Rainbow School

The Rainbow School provides education to the children of the construction workers in the vicinity. Apart from academics these children are also imparted vocational training. NIET provides Free Education, Books & Stationery, uniform & Mid-day Meals to needy people of our society.

2. Self Defense Training

To prepare girl students of NIET, to fight against crimes, a course focusing on the holistic development and training, in collaboration with NGO Aseem Nari

Shakti is undertaken to teach them various tactics of self defense.

3. Tree Plantation

The primary purpose of this activity is to imbibe in the staff and students, the importance of a green and healthy surrounding in a rapidly growing concrete jungle.

4. Project Swabhiman

NIET has become Academic Partner of Project Swabhiman: Employability & Entrepreneurship Development through skilling by SHIKHAR organization for social development. It focuses on enhancing the employability skills of youth by imparting education, life skills and vocational training.

5. Adoption of a Village

NIET adopted village Navada and familiarized villagers to technology, a tribute to Dr APJ Abdul Kalam on his birthday.

6. Swachh NIET Abhiyan

The green gold society of NIET has organized a swachh NIET abhiyan on 1st October 2016 in the concept of Swachh Bharat Abhiyan. In this faculty and students took initiative regarding cleanliness and its maintenance in the campus and nearby places.

7. Holistic Activity

A talk on “Technical Education in the Light of Universal Values” organized by the Sahaj Yog group in the Institute

8. Healthy Living

- TCS Fit4life - Campus Challenge: NIET organized “TCS Fit4life Campus Challenge” in association with TCS. TCS Fit4life Campus Challenge was a 5KM marathon where 3000 approx participant took part.

35. SWOC analysis of the department and Future plans:

Strength:

- Intellectual Capital
- Cutting edge Technologies and labs
- Regular training programs for faculty and students

Weakness:

- Diversity of students from different Graduation Program
- Less industry Recognition program
- Decline in industry requirement due to automation
- Communication skills among rural based students

Opportunities:

- Participation in digital India Campaign
- Project development and communication
- Creating successful companies/entrepreneur with the help of NIET Technology Business Incubator

Challenges:

- Integrated program like BCA with MCA
- Upcoming private Universities

Future Plan:

- Centre of Excellence on Emerging Technologies
- Manpower Deployment in Smart City Project of Govt. of India
- Strengthen Industry Institute and EDC Cell

3. Evaluative Report of the Department

1. Name of the Department: **Applied Sciences and Humanities**
2. Year of Establishment: **2001**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **Engaged in B.Tech, B.Pharm., MBA, MCA, M.Tech and M.Pharm for Physics, Chemistry, Mathematics, Environmental Engg, English, Humanities etc**
4. Names of Interdisciplinary courses and the departments/units involved: **NA**
5. Annual/ semester/choice based credit system (programme wise) – **SEMESTER WISE (CBCS)**
6. Participation of the department in the courses offered by other departments **NIL**

| S.No. | Name of Course | Subject Code | Department |
|--------------|----------------------------|---------------------|-------------------------------------|
| 1 | Engg. Mathematics – I/II | RAS-103/203 | CS, EC, IT, EN, ME, CH, BT, CE |
| 2 | Engg. Physics – I / II | RAS-101/201 | CS, EC, IT, EN, ME, CH, BT, CE |
| 3 | Engg. Chemistry | RAS-102/202 | CS, EC, IT, EN, ME, CH, BT, CE |
| 4 | Professional Communication | RAS-104/204 | CS, EC, IT, EN, ME, CH, BT, CE, MCA |
| 5 | Engg. Mathematics - III | NAS-301 | CS, EC, IT, EN, ME, CH, BT, CE |
| 6 | Discrete Mathematics | RCA103 | MCA |
| 7 | Environment & Ecology | RCA105 | MCA |

7. Courses in collaboration with other universities, industries, foreign institutions, etc. **NIL**
8. Details of courses/ programmes discontinued (if any) with reasons **N/A**
9. Number of teaching posts

| | Sanctioned | Filled |
|----------------------|-------------------|---------------|
| Professors | 57 | 06 |
| Associate Professors | | 03 |
| Assistant Professors | | 43 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt.

/Ph.D. / M. Phil. etc.,)

Department of Physics

| S.N. | Name | Qualification | Designation | Specialization | Exp (Yrs.) | No. of Ph.D. Guided |
|------|----------------------|----------------|---------------------|-------------------|------------|---------------------|
| 1 | Dr. Rajesh Kumar | Ph.D. | Professor & Head | Nuclear Physics | 17 | NIL |
| 2 | Mr. Ashish Pathak | M.Sc, M.Phil | Assistant Prof. | Superconductivity | 15 | NIL |
| 3 | Dr. Sweta Vishnoi | M. Phil, Ph.D. | Assistant Prof. | Material Science | 7 | NIL |
| 4 | Mr. Naresh Kumar Pal | M.Sc. | Assistant Prof. | Physics | 14 | NIL |
| 5 | Ms. Renu Saini | M.Sc., B.Ed. | Assistant Prof. | Physics | 5 | NIL |
| 6 | Ms. Astha Khandelwal | M.Sc. | Assistant Prof. | Applied Physics | NIL | NIL |
| 7 | Ms. Vandana Tyagi | M.Sc. B.Ed | Assistant Professor | Physics | 15 | NIL |
| 8 | Dr. Sanjeev Varshney | Ph.D | Associate Professor | Physics | 8 | NIL |
| 9 | Ms. Vandana Panthri | M.Sc. | Assistant Prof. | Physics | 6 | NIL |
| 10 | Ms. Ishu Bansal | M.Sc. | Assistant Prof. | Physics | 7 | NIL |
| 11 | Mr. Vaibhav Kumar | M.Sc., M.Phil | Assistant Prof. | Physics | 7 | NIL |
| 12 | Ms. Rajani Dwivedi | M.Sc. | Assistant Prof. | Physics | 17 | NIL |

Department of Chemistry

| S.N. | Name | Qualification | Designation | Specialization | Exp (Yrs.) | No. of Ph.D. Guided |
|------|------|---------------|-------------|----------------|------------|---------------------|
| | | | | | | |

| | | | | | | |
|----|------------------------|-------------|---------------------|---------------------|----|-----|
| 1 | Dr. K.P. Singh | Ph.D | Professor & HOD | Inorganic Chemistry | 19 | NIL |
| 2 | Dr. Pavan Prakash Giri | Ph.D. | Professor | Chemistry | 17 | NIL |
| 3 | Dr. Manish Kaushik | M.Sc. | Asstt. Professor | Organic Chemistry | 11 | NIL |
| 4 | Dr. Monika Chauhan | Ph.D. | Asstt. Professor | Chemistry | 06 | NIL |
| 5 | Ms. Amrita Kaushik | M.Sc. | Asstt. Professor | Organic Chemistry | 09 | NIL |
| 6 | Dr. Yogesh Aggarwal | Ph.D | Assistant Prof. | Organic Chemistry | 15 | NIL |
| 7 | Dr. Sujeet Kumar | Ph.D | Assistant Prof. | Microbiology | 09 | NIL |
| 8 | Mrs. Upma Singh | M.Sc., M.Ed | Assistant Professor | Organic Chemistry | 20 | NIL |
| 9 | Ms. Meenakshi Singh | M.Sc., B.Ed | Assitant Professor | Organic Chemistry | 8 | NIL |
| 10 | Mr. Anand Mohan | M.Sc. | Assistant Professor | Chemistry | 8 | NIL |
| 11 | Mr. Vinod Mittal | M.Sc. | Assistant Professor | Chemistry | 5 | NIL |

Department of Mathematics

| S.N. | Name | Qualification | Designation | Specialization | Exp (Yrs.) | No. of Ph.D Guided |
|------|--------------------------|-------------------------|---------------------|---------------------|------------|--------------------|
| 1 | Dr. Anjana Rani Gupta | M. Sc, Ph.D | Professor & HOD | Applied Mathematics | 17 | NIL |
| 2 | Dr. Meenakshi Yadav | M. phil, Ph.D | Professor | Numerical Analysis | 18 | NIL |
| 3 | Mr. Rajnish Kumar Pandey | M. Tech., Ph.D pursuing | Assistant Professor | Applied Mathematics | 13 | NIL |
| 4 | Mr. Harendra Singhal | M. Sc., M.Phil | Associate Professor | Pure Mathematics | 14 | NIL |
| 5 | Mr. B.N. | M. Phil., | Assistant | Wavelet | 13 | NIL |

| | | | | | | |
|----|--|----------------------|---------------------|--------------------------------------|----|-----|
| | Tripathi | Ph.D pursuing | Professor | Theory | | |
| 6 | Mr. Manoj Kumar Yadav | M. Sc. | Assistant Professor | Applied Mathematics | 10 | NIL |
| 7 | Dr. Rajesh Kumar Chaubey | M. Sc., M.Phil. Ph.D | Asstt. Professor | Wavelet Theory | 12 | NIL |
| 8 | Mr .Sudhanshu Agarwal | M. Sc. | Asstt. Professor | Applied Mathematics | 8 | NIL |
| 9 | Mr Raman Chauhan | M. Sc. | Asstt. Professor | Applied Mathematics | 2 | NIL |
| 10 | Ms. Shivani Agarwal | M. Sc. | Asstt. Professor | Applied Mathematics | 2 | NIL |
| 11 | Dr. Kavita Sinha | Ph.D | Assistant Professor | Mathematics | 9 | NIL |
| 12 | Ms. Nidhi Sharma | M.Sc, M.Phil | Assistant Prof | Mathematics | 7 | NIL |
| 13 | Dr. Pritee Agarwal | Ph.D | Assistant Prof | Mathematics | 8 | NIL |
| 14 | Mr. Ramu Dubey (SL) | M.Sc. | Assistant Professro | Mathematics | 7 | NIL |
| 15 | Mr. Bhupesh Dutt Sharma (SL) | M.Sc | Assistant Professor | Mathematics | 6 | NIL |
| 16 | Dr Chetan Swarup (Deputation in Saudi Arbia) | M. Sc., Ph.D | Assistant Professor | Operational Research | 8 | NIL |
| 17 | Mr. Saurabh Gupta | M. Sc. | Asstt. Professor | Simulation and Modeling optimization | 7 | NIL |
| 18 | Mr. Chandan Singh Jatwal | M.Sc. | Assistant Professor | Statistics | 15 | NIL |
| 19 | Mr. Vinod Kumar Bansal | M.Sc., B.Ed | Assitant Professor | Mathematics | 16 | NIL |
| 20 | Mrs. Mithlesh Gupta | MA, B.Ed | Assistant Professor | Mathematics | 14 | NIL |
| 21 | Mrs. Arti Malik | M.Phil | Assistant Professor | Mathematics | 12 | NIL |

Department of English

| S.N. | Name | Qualification | Designation | Specialization | Exp (Yrs.) | No. of Ph.D. Guided |
|------|------------------------|--------------------|------------------|---|------------|---------------------|
| 1 | Dr Ghazala Naaz | Ph.D. | Professor & Head | Indian Writing in English & Linguistics | 24 | NIL |
| 2 | Ms Pooja Tyagi | M.A. | Assistant Prof. | Functional English | 13 | NIL |
| 3 | Dr Bindunath Jha | Ph.D. | Assistant Prof. | Linguistics | 08 | NIL |
| 4 | Dr Vipin Kumar | Ph.D. | Asstt. Professor | Indian English Fiction & Phonetics | 09 | NIL |
| 5 | Dr. Ritu Sorayan | Ph.D | Associate Prof. | Linguistics | 8 | NIL |
| 6 | Ms. Priyanka Singh | M.A, Ph.D pursuing | Assistant Prof | Linguistics | 5 | NIL |
| 7 | Mr. Abhishek Sen Gutpa | M.A | Assistant Prof. | Literature | 6 | NIL |
| 8 | Ms. Divyangana Verma | M.A. | Assistant Prof | Literature | 4 | NIL |

11. List of senior visiting faculty-**NIL**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty- **NIL**
13. Student -Teacher Ratio (programme wise) : **25:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.

| YEAR | TECNICAL STAFF | SANCTIONED | FILLED |
|-----------|----------------|------------|--------|
| 2016-2017 | 03 | 03 | 03 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| S.No. | Qualification | Number |
|-------|---------------|--------|
| 1. | Ph.D. | 16 |
| 2. | M.Phil. | 7 |

| | | |
|----|---------|----|
| 3. | M.Tech. | 1 |
| 4. | P.G. | 26 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received- **NIL**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received- **NIL**
18. Research Centre /facility recognized by the University- **NIL**

19. Publications: (Last four Years)

| S. No. | Name of Faculty | No. of Publications | | | Citation Index | Impact factor | Books/ Chapter in Books |
|--------|--------------------|-----------------------|------------------|-----------------------------------|----------------|---------------|-------------------------|
| | | International Journal | National Journal | Conference/ Symposium Proceedings | | | |
| 1 | Dr. Rajesh Kumar | 03 | 01 | 08 | - | | 01 |
| 2 | Dr. Sweta Vishnoi | 04 | 01 | 01 | - | 0.902 | |
| 3 | Ms. Amrita Kaushik | 04 | - | - | - | - | |
| 4 | Dr. Vipin Kumar | 01 | - | - | - | - | 01 |
| 5 | Dr Bindunath Jha | 01 | | | | | |

20. Areas of consultancy and income generated-**NIL**

21. Faculty as members in

| S. No. | Name of Faculty | Editorial board |
|--------|-----------------------|-----------------|
| 1 | Dr. Rajesh Kumar | NIET Journal |
| 2 | Dr. Anjana Rani Gupta | NIET Journal |
| 3 | Dr. Gazala Naaz | NIET Journal |

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme-**NIL**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies-**NIL**

23. Awards / Recognitions received by faculty and students.

| S.No. | Year | Name of Student | Award |
|-------|-----------|--------------------------------------|------------------------|
| 1 | 2012-2013 | BHAVNA KHATRI | Dr O. P. Agarwal Award |
| 2 | 2013-2014 | NITIN KUMAR ARYA | Dr O. P. Agarwal Award |
| 3 | 2014-2015 | HARIKESH YADAV (CE) | Dr O. P. Agarwal Award |
| 4 | 2015-2016 | SHWETA MALIK (CSE) & AAYUSHMAAN (ME) | Dr O. P. Agarwal Award |

24. List of eminent academicians and scientists / visitors to the department **NIL**

25. Seminars/ Conferences/Workshops organized & the source of funding **03**

| S. N. | Name of The Programme | Date | Convener |
|-------|--|----------------------|------------------|
| 1 | A two-Day Faculty Development Programme on Speaking Skills (FDP) | 18-19 December, 2012 | Dept. of English |
| 2 | A two-Day Workshop on Communication Skills (SDP) | 13-14 May, 2014 | Dept. of English |
| 3 | ICT based programme on Communication skills | July 20 – 24, 2015 | Dept. of English |

26. Student profile programme/course wise:

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|-----|-----------------|
| | | | *M | *F | |
| B.Tech(2016-17) | -- | 1254 | 1079 | 175 | - |

*M = Male *F = Female

27. Diversity of Students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| B.Tech (2016-17) | 54.70% | 45.30% | NIL |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **N/A**

29. Student progression

| Student progression | Against % enrolled |
|--|---------------------------|
| UG to PG | N/A |
| PG to M.Phil. | N/A |
| PG to Ph.D. | N/A |
| Ph.D. to Post-Doctoral | N/A |
| Employed • Campus selection • Other than campus recruitment | N/A |
| Entrepreneurship/Self-employment | N/A |

30. Details of Infrastructural facilities
- c. **Institute Library:**
Total No. of Title: 4558 **Volume:** 14707
Timings: 9:30am to 5:00pm
- d. **Internet facilities for Staff & Students:** High speed internet connection of 110Mbps and Reliance JIO HOT SPOT
Wi-Fi connectivity
- e. **Class rooms with ICT facility:** 22
f. **Laboratories:** 03
31. Number of students receiving financial assistance from college, university, Government or other agencies- N/A
32. Details on student enrichment programmes (special lectures/ workshops/ Seminar) with external experts N/A
33. **Teaching methods adopted to improve student learning**
Various activities and programmes are recognized to improve learning of students.
- **Campus Wide Quality Improvement Program (CWQIP)**
 - Use of LCD Projectors to show videos and PPT's
 - MOOCs is used (piazza.com, classcentral.com, futurelearn.com, edx.org)
 - Use of NPTL lectures
 - Practical based learning
 - Project based learning
 - **Total Student Development Program (TSDP)**
 - Guest/Expert Lectures
 - Workshop/conferences
 - Skill Development program

- Training in Industry supported labs
 - Technical Quiz competition
 - Mentor-Mentee policy
- **Weak Student Development Program (WSDP)**
 - Special Classes are organized for the weak students
 - Extra Classes are organized for Weak students
 - Peer adoption policy
34. Participation in Institutional Social Responsibility (ISR) and Extension activities.
The faculty members and students of the Department participate in various social activities
- Teaching of socially weaker students in Rainbow School
 - Plantation of trees on every 15th August (Independence Day) and 17th October (Foundation Day)
 - Plantation on 27th July 2016, APJ Abdul Kalam Birth anniversary
 - Swachch NIET Abhiyaan on 1st October 2016
 - Swachta Abhiyaan – **Swachh Bharat ki Aur** on 17th October 2015
 - Adoption of village on 15th October 2015
 - TCS Fit For Life on 8th February 2015
 - One day self defense training programme for girls
 - A talk on “Technical Education in the Light of Universal Values” on 05th October 2015.
 - Plantation by Green Gold Society in Collaboration with Sankalptaru (NGO) COGNIZANT on 10th October 2015.
 - Diabetic’s awareness camp on 18th October 2014.

35. SWOC analysis of the department and Future plans

Strengths

- More than 35% of faculty members are Ph.D. in the Department of Applied Sciences.
- Additional topics, beyond syllabus are covered by the teachers.
- The faculties are given full academic freedom.
- Incentives and rewards are given for research paper publications in national and international journals.
- State-of-the art chemistry and Physics labs that are used for research work.
- Advanced Mathematics training lab in collaboration with Khan Academy.

Weaknesses

- Industry department Interaction needs to be strengthened further.
- Faculties with industrial experience are less in number.
- Communication skill of students needs to be improved.
- Tutorial classes need to be given more emphasized.

Opportunities

- The interdisciplinary research in niche areas is the need of the day, which gives opportunity in all areas.
- Developing advanced labs for research in the areas of nuclear research and water research.
- Developing state-of-the art mathematical modeling and simulation lab.

Challenges

- Existing professional courses in sciences are losing demand in the market because of weak curriculum.
- Decline in the interest of the students toward research in sciences.
- Governmental agencies giving more thrust to technological and management skills than scientific temperament.
- Decline in funds for research in science over years.
- Quality of students that are enrolled in the department.

Future plan

- To develop strong basic knowledge in Sciences and Humanities subjects that can be used in core subjects and real world situation.
- To develop the research environment to students and faculty to meet the current and future challenges of technological development.
- To encourage faculty members to organized/ attend conferences/workshops and publish the research papers in SCI Indexed Journal.
- To develop center of excellence for research.

Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that **Noida Institute of Engineering & Technology** (Name of the institution) fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body [such as UGC, NCTE, AICTE, MCI, DCI, BCI, etc.] and
3. The affiliation and recognition [if applicable] is valid as on date.

In case the affiliation / recognition is conditional, then a detailed enclosure with regard to compliance of conditions by the institution will be sent.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.

Date: 10-04-2017
Place: Greater Noida

Principal/Head of the Institution
(Name and Signature with Office seal)

Director
Noida Institute of Engineering & Technology
19, Knowledge Park-II, Greater Noida-201306