



The LNM Institute of  
Information Technology

## **The LNM Institute of Information Technology (DEEMED TO BE UNIVERSITY)**

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### **NAAC ACCREDITATION 2015-16**

#### **Self-Study Report (NAAC SSR)**



*For Submission to:*  
**National Assessment and Accreditation Council  
Bengaluru**

**February, 2016**

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## Executive Summary:

### Then and Now:

With "Internet of Things", Information Technology is pervading into almost all areas of business, science & technology, government and social media. The fields of computer science, electronics, mechanical, aero etc. are all coming together to offer IT enabled products and services to the society. Realizing the need for highly-skilled IT professionals, the Government of Rajasthan and the Lakshmi & Usha Mittal (LUM) Foundation jointly established The LNM Institute of Information Technology (The LNMIIT) in 2002 as a Public-Private-Partnership (PPP) venture, under the Chairmanship of the well-known industrialist and philanthropist, Mr. Lakshmi N. Mittal. This is a not-for-profit institute and it solely depends on the resource generation from student tuition fees.

The LNMIIT is a fully residential campus for the students, and partly residential for faculty and a few emergency non-teaching staff. It is spread over 100-acres (404686 meter<sup>2</sup>) of land on the outskirts of Jaipur city of Rajasthan, the pink city of India (about 10 km away from Jaipur-Agra National Highway). The institute started its academic operations, as an autonomous institute, in 2003 with a batch of 29 students and was granted the 'Deemed-to-be University' status in 2006 under section - 3 of UGC Act 1956 in 'de-novo' category. The campus presently houses around 1250 undergraduate and about 50 postgraduate students. Although, the focus areas of teaching and research at the institute are in the broad field of Information Technology (IT), it has expanded its academic horizons with the changing industrial and economic focus at the state and national level.

### Vision and Mission:

The vision and the guiding principle for the institute had been to establish a world-class platform for creation of knowledge through quality research and dissemination through technologically enabled teaching-learning pedagogy in the field of science, technology, engineering, arts and management. The endeavor of the institute had been to achieve these through the state-of-the-art undergraduate programs and postgraduate programs in IT & ITES as well as in core disciplines with emphasis on core fundamentals and their application, establishment of centers of excellence for research, creation of intellectual property through innovations and quality research publications, nurturing and instillation of core values of excellence, integrity teamwork, ethics and environmental concerns as well as leadership and entrepreneurial qualities.

### Governance and Administration:

Various administrative and statutory bodies, as indicated by the regulatory authorities are in place for the fair and smooth functioning of the administration. Governing Council (GC) is the apex governing body of the institute and its membership extends from leading academics to industry experts and ex-officio members from the government of Rajasthan. The GC takes all policy decisions. Academic Council (AC) and its sub-committees plan and administer the academic issues. Two nominated students represent the student community in the AC and its sub-committees.

### Degree Programs:

The institute, presently, offers four-year undergraduate program (B. Tech.) in CSE, ECE, Mechatronics, ME, CCE and five-year B. Tech.-M. Tech. (dual degree) program in CSE, ECE and CCE. M. Tech. programs are offered with specializations in Data Analytics and Software Engineering in CSE, and in Mobile Communications in ECE. Apart from this, Ph. D. programs are also offered in the disciplines of CSE, ECE, CCE, Mechatronics, Mechanical, Physics, Mathematics, and HSS. The institute has plans to start a two-year M.Sc. program in Mathematics (Department of Mathematics) and Materials Science (Department of Physics).

### Faculty:

Faculty is the backbone of the institute. The process of selection is open and transparent in which subject experts with relevant specialization from various IITs, IISc, NITs and similar high quality institutions assist the Director in the selection process. The institute is continuously raising the bar and PhD is becoming a new norm for faculty induction into the institute. Faculty is with strong IIT, IISc, foreign university or equivalent background and grooming, or with extensive industry experience. Currently about 80% of faculty members are with PhDs and others are in various stages in PhD programs. With diverse specializations as well as rich experience in industry and academic, the institute is marching towards excellence in UG/PG teaching and research. Regular faculty development programs are arranged with resource persons from allied industries and renowned academic institutes.

**Merit-based Student Admissions:**

The institute admits students from all parts of India as well as abroad, based on their performance in national-level examinations like AIEEE / IIT-JEE (Main), SAT Score for foreign applicants in undergraduate (UG) admissions and GATE / NET for postgraduate (PG) admissions. All admissions are merit-based and there is no admission quota/capitation fee of any kind. Merit and Merit-cum-means scholarships are available for deserving students.

At least 50% of students who have graduated so far have been from the State of Rajasthan. Approximately two-thirds of students admitted in 2015 are from the State of Rajasthan. This is a significant and direct contribution made by the institute toward improving technical education among the youth in the State of Rajasthan.

Approximately 30% of currently-enrolled students are girls, which is a fact that the institute is justifiably proud of - highly-secure fully residential campus, gender sensitivity deeply ingrained in institute's value system, etc.

**Student Research and Internship:**

Both UG and PG student research is encouraged by allowing them free access to necessary infrastructure and lab facilities and with faculty mentorship. Students are provided part-funding support as travel grant based on the recommendations of the internal committee to ensure research quality. To inculcate such student centric activity, research forum is formed where periodically intramural and extramural lectures are arranged. Apart from it, there are various activity clubs and flagship LUSIP - summer internship program that have become a big draw for students from other parts of the country.

During this short time-period of twelve years, the institute has also organized several national and international conferences and workshops benefitting both students as well as the faculty.

With flexibility in academic program, high performing students can avail full 8<sup>th</sup> semester internship facility to work in an industry or in other academic institution. Though currently small in numbers, this initiative is well appreciated by everyone. Such facilitation is through offering summer term courses and allowing the student a limited course overload in higher semesters. Credit transfer is permitted on case-by-case basis if student wishes to spend full semester at some other academic institute of repute.

**Training and Placement:**

The institute has held nine degree-awarding convocations so far. The graduates of the institute are gainfully engaged not only in India but the world over.

In-spite of somewhat unfavorable ecosystem due to competition and economic conditions, the placement scenario is good. In most of the years, around 85% of students who have registered and are qualified to appear for the placement interviews find a place with decent salary package in good industries. Quite a few students opt for higher studies in technology or management and some of them venture out as entrepreneurs and provide jobs to others. During the first decade, nearly 1000 students graduated from the institute. It is estimated that about 100 opted for higher studies including PhD program.

To enhance employability, institute organizes soft-skill as well as technical skill development programs, mock interviews, guidance by the alumni of the institute etc. With value addition courses such as Big Data and Analytics and Mobile-Cloud Computing by IBM, Active Directory and Computer Networks from Microsoft, SAP etc., students have options for better placement. Full semester internship in variety of industries such as Amazon, E-vive, Microsoft GTSC, Xerox, Samsung etc. is a win-win situation for the industry and students. This is a growing trend indicating the utility of this proactive action.

The institute has formal MOU as well as informal understanding with industries such as Microsoft, IBM, SAP etc. and academic institutions such as NTU Singapore, Joseph Fourier, France, Kristianstad, Sweden etc. Such arrangement facilitates easy transactions amongst faculty and students for research exchange, collaborative research etc.

**Infrastructure:**

All the classrooms in the institute are AV enabled. A few large size classrooms have augmented Wi-Fi for better learning ambiance. One large size classroom is also a smart classroom and another virtual classroom enabling DTH link for video conferencing. There is HD video recording facility to tape live lectures for video archives.

Apart from conventional UG and PG laboratories as necessary component of academic activities, the institute has established a handful of co-branded laboratories of National Instruments, Texas Instruments, IBM, Microsoft, ARM etc. In addition, High Performance Computing platform, NVIDIA and GPU computing servers and relevant software are made available for UG, PG students both for classroom work as well as for research and project purposes. State of the art hardware and software improves productivity significantly. All the infrastructure is periodically upgraded keeping with changing requirements.

**Facilities:**

Gymnasium, Children's Park and Faculty–Staff Club take care of physical and social well-being of the campus population. In the shopping center, there are units to take care of basic necessities. The institute operates three buses on contract basis to fulfill transportation requirements of the students, faculty and staff, to and from the city. In recent times, skeleton city transport service has also been started for students as well as the rural population in the neighborhood.

The institute has about 3 km jogging track. Vegetable garden and planting trees annually help keep the campus green. There is a Bio-Gas plant which helps in managing the kitchen waste.

With induction of solar photovoltaic electricity power generation, rooftop rainwater harvesting, solid and liquid waste management, the institute wishes to set up an example to make it as a smart campus of tomorrow.

**Co- and Extra- Curricular Activities:**

Being a fully residential campus for the students, various cultural, regional and religious activities are organized throughout the year.

Technical, sports and cultural festivals during the academic year are organized by the student community that attracts large crowd. Besides, they participate and win handsome awards in similar programs of other institutes. Holistic growth of students is the main goal in these activities. Students participate in national level competitions such as Tata Crucible Quiz program and similar business entrepreneurship programs. There have been a few winners at top level as well. IEEE, CSI and ASME student chapters engage them in variety of activities throughout the year and facilitate them to participate in national and international events and win accolades.

**Corporate Social Responsibility:**

As a part of CSR, Resident Medical Officer of the institute offers his services to help and advice villagers around the campus. Highly subsidized OPD with routine drug dispensation and conducting periodic health camps for the villagers in and around the campus are the activities that are carried out by the medical unit of the institute and Nirog Club. Student Club "Sankalp" runs education and awareness programs for mess workers and villagers as well as the distribution of clothes and books to the needy people in surrounding villages.

**"Make in India," "Resurgent Rajasthan" and the Way Forward:**

Taking a cue from the planning of DMIC corridor and Rajasthan States' Industrial Policy move towards manufacturing, the institute embarked on B Tech programs in Mechanical-Mechatronics Engineering in 2013 and Mechanical Engineering in 2015. These initiatives will be further strengthened to tap the bundle of employment opportunities that will be unleashed in both IT & ITES as well as in the manufacturing sector by the Govt. of India's policy of "Make in India" and Rajasthan State's "Resurgent Rajasthan" initiative.

For more comprehensive information on the institute, please visit our web-site [www.lnmiit.ac.in](http://www.lnmiit.ac.in).

**Section - B**  
**PREPARATION OF SELF-STUDY REPORT**

**Profile of the University**

**1. Name and Address of the University:**

<b>Name:</b>	<b>The LNM Institute of Information Technology</b>		
<b>Address:</b>	Gram - Rupa Ki Nangal, Post – Sumel, Via – Jamdoli, Jaipur		
<b>City:</b> Jaipur	<b>Pin:</b> 302031	<b>State:</b> Rajasthan	
<b>Website:</b> <a href="http://www.lnmiit.ac.in">www.lnmiit.ac.in</a>			

**2. For communication:**

<b>Designation</b>	<b>Name</b>	<b>Telephone with STD code</b>	<b>Mobile</b>	<b>Fax</b>	<b>E-mail ID</b>
Vice Chancellor / Director	Prof. S. S. Gokhale	O: 0141-519-1752 R: 0141-519-1801	9828673277	0141-268-9016	director@lnmiit.ac.in
Pro Vice Chancellor	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Deputy Registrar and Registrar (In-charge)	Col. MJS Pathania	O: 0141-519-1711 R: 0141-519-1801	9414049629	0141-518-9214	registrar@lnmiit.ac.in
Steering Committee	Prof. Ravi Gorthi	O: 0141-519-1741 Ext. - 434	7597167508	0141-518-9214	rgorthi@lnmiit.ac.in
	Prof. Raghuvir Tomar	O: 0141-519-1741 Ext. - 422	9001708555	0141-518-9214	rtomar@lnmiit.ac.in

**3. Status of the University:**

State University

State Private University

Central University

University under Section 3 of UGC (Deemed University)



Institution of National Importance

Any other (Please specify)

**4. Type of University:**

Unitary

Affiliating

**5. Source of funding:**

Central Government

State Government

Self-financing

Any other (please specify)

**6. (a)** Date of establishment of the university: **03/02/2006**
**(b)** Prior to the establishment of the university, was it a/an

i. PG Centre

Yes

No

ii. Affiliated College

Yes

No

iii. Constituent College

Yes

No

iv. Autonomous College

Yes

No

v. Any other (please specify)

**If yes, give the date of establishment.**
**14/09/2002**
**7. Date of recognition as a university by UGC or any other national agency:**

<b>Under Section</b>		<b>DD</b>	<b>MM</b>	<b>YYYY</b>	<b>Remarks</b>
i.	2f of UGC *				
ii.	12B of UGC *				
iii.	3 of UGC #	03	02	2006	Deemed-to-be-University (under De-novo-category)
iv.	Any other ^ (specify)				

\* Enclose certificate of recognition.

See Annexure 1

# enclose notification of MHRD and UGC for all courses / programs / campus / campuses.

Not Applicable

^ Enclose certificate of recognition by any other national agency / agencies, if any.

Not Applicable

**8. Has the university been recognized**
**(a).** By UGC as a University with Potential for Excellence?

Yes



If yes, date of recognition \_\_\_\_\_ (dd/mm/yyyy)

**(b).** For its performance by any other governmental agency?

Yes



If yes, Name of agency: \_\_\_\_\_ Not Applicable \_\_\_\_\_ and

date of recognition: \_\_\_\_\_ Not Applicable \_\_\_\_\_ (dd/mm/yyyy)

**9. Does the university have off-campus centers?**

 Yes 

 No 

If yes, date of establishment Not Applicable (dd/mm/yyyy)

date of recognition: Not Applicable (dd/mm/yyyy)

**10. Does the university have off-shore campuses?**

 Yes 

 No 

If yes, date of establishment Not Applicable (dd/mm/yyyy)

date of recognition: Not Applicable (dd/mm/yyyy)

**11. Location of the campus and area:**

	<b>Location *</b>	<b>Campus area in acres</b>	<b>Built up area in sq. mts.</b>
Main campus area	Jaipur – Rural	100 (404686 meter <sup>2</sup> )	63560 sq. mts.
Other campuses in the country	Not Applicable	Not Applicable	Not Applicable
Campuses abroad	Not Applicable	Not Applicable	Not Applicable

(\* Urban, Semi-Urban, Rural, Tribal, Hilly Area, Any other (please specify))

If the university has more than one campus, it may submit a consolidated self-study report reflecting the activities of all the campuses.

**12. Provide information on the following: In case of multi-campus University, please provide campus-wise information.**

 **Auditorium / seminar complex with infrastructural facilities** - Yes

 **Sports facilities:**

- (i) Playground – Yes (Football and Cricket grounds)
- (ii) Swimming pool – No
- (iii) Gymnasium - Yes

 **Any other (please specify):**

Students Activity Centre (SAC), Volleyball, Basketball and Tennis Courts, Indoor Sports Courts (Badminton, Squash), Physiotherapy Centre.

 **Hostel:**

▪ **Boys' Hostel**

- (i) Number of hostels – 03
- (ii) Number of inmates – 1076 (Capacity)
- (iii) Facilities-Furnished, Single and Double Occupancy Rooms, Air Cooling with LAN Connectivity.

▪ **Girls' Hostel**

- (i) Number of hostels – 01
- (ii) Number of inmates – 311 (Capacity)
- (iii) Facilities-Furnished, Single and Double Occupancy Rooms, Air Cooling with LAN Connectivity.

▪ **Working women's Hostels** – No separate hostel exist. However working women are staying in Guest Rooms of Girl's Hostel.

- (i) Number of hostels – Not Applicable
- (ii) Number of inmates – 6 working women
- (iii) Facilities – Guest room with attached bathroom

- ⊕ **Residential facilities for faculty and non-teaching staff** – Faculty & Staff Quarters
- ⊕ **Cafeteria** – Yes
- ⊕ **Health Centre –Nature of facilities available – inpatient, outpatient, ambulance, emergency care facility, etc.**  
On-campus Medical Clinic with Resident Medical Officer and male & female nursing staff, 24x7 outpatient and emergency care, institute ambulance, physiotherapy unit, and visiting medical specialists including yoga instructor etc.
- ⊕ **Facilities like Banking, Post Office, Book Shops, etc.**  
SBI ATM, ICICI ATM, Stationery Shop, Courier Facility
- ⊕ **Transport facilities to cater to the needs of the students and staff:**  
3 Buses – trips all day long to and from city.
- ⊕ **Facilities for persons with disabilities:**  
Ramps to enter academic area, Lifts in hostels, Ground-floor accommodation in hostels, Provision for elevator in academic areas.
- ⊕ **Animal House** – No
- ⊕ **Incinerator for laboratories** – Not required
- ⊕ **Power House** – Backup generators for electricity
- ⊕ **Waste management facility:**  
Yes; Also: Sewage Treatment Plant – installed and maintained by the institute, Biogas plant.

**13. Number of institutions affiliated to the university –**

Type of colleges	Total	Permanent	Temporary
Arts, Science and Commerce	Not applicable	Not applicable	Not applicable
Law	Not applicable	Not applicable	Not applicable
Medicine	Not applicable	Not applicable	Not applicable
Engineering	Not applicable	Not applicable	Not applicable
Education	Not applicable	Not applicable	Not applicable
Management	Not applicable	Not applicable	Not applicable
Others (specify and provide details)	Not Applicable		

**14. Does the University Act provide for conferment of autonomy (as recognized by the UGC) to its affiliated institutions? If yes, give the number of autonomous colleges under the jurisdiction of the University.**

Yes

No

Number

**15. Furnish the following information:**

Particulars		Number	Number of Students
a.	University Departments	7	UG - 1170 (Total) PG – 61 (Total)
	Undergraduate Departments	4	
	Postgraduate Departments	7	
	Research centers on the campus	0	
b.	Constituent colleges	Not Applicable	Not Applicable
c.	Affiliated colleges	Not Applicable	Not Applicable
d.	Colleges under 2 (f)	Not Applicable	Not Applicable
e.	Colleges under 2 (f) and 12 (b)	Not Applicable	Not Applicable
f.	NAAC accredited colleges	Not Applicable	Not Applicable

Particulars		Number	Number of Students
g.	Colleges with Potential for Excellence (UGC)	Not Applicable	Not Applicable
h.	Autonomous Colleges	Not Applicable	Not Applicable
i.	Colleges with Postgraduate Department	Not Applicable	Not Applicable
j.	Colleges with Research Departments	Not Applicable	Not Applicable
k.	University recognized Research Institutes / Centers	Not Applicable	Not Applicable

**16. Does the university confirm to the specification of Degrees as enlisted by the UGC?**

Yes

No

**If the university uses any other nomenclatures, please specify.**

The University does not use any other nomenclatures. However, Degree in Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Mechanical Engineering and Mechatronics Engineering are as per AICTE norms. The Degree in Communication and Computer Engineering (CCE) was approved by UGC in 2005 (AICTE nomenclature is Computer and Communication Engineering).

**17. Academic programs offered by the university departments at present, under the following categories: (Enclose the list of academic programs offered)**

Programs	Number
UG	5
PG (M.Sc, M.Tech)	2 + 2
Integrated Masters	3 (Dual Degree)
M. Phil.	
Ph.D.	8
Integrated Ph.D.	
Certificate	
Diploma	
PG Diploma	
Any other (please specify)	
<b>Total</b>	<b>20</b>

**18. Number of working days during the last academic year.**

220 academic working days in 2014-15.

**19. Number of teaching days during the past four academic years.**

(2014-15)	(2013-14)	(2012-13)	(2011-12)
160	152	149	171

('Teaching days' means days on which classes were engaged. Examination days are not to be included)

**20. Does the university have a department of teacher Education?**

Yes

No

**If yes,**

(a). Year of establishment \_\_\_\_\_ Not Applicable (dd/mm/yyyy)

(b). NCTE recognition details (if applicable) Notification No.: \_\_\_\_\_ Not Applicable \_\_\_\_\_ Date: \_\_\_\_\_ Not Applicable \_\_\_\_\_ (dd/mm/yyyy)

(c). Is the department opting for assessment and accreditation separately?

Yes

No

**21. Does the university have a teaching department of Physical Education?**

Yes 

No 
**If yes,**

(a). Year of establishment Not Applicable (dd/mm/yyyy)

(b). NCTE recognition details (if applicable) Notification No.: Not Applicable  
Date: Not Applicable (dd/mm/yyyy)

(c). Is the department opting for assessment and accreditation separately?

Yes 

No 
**22. In the case of Private and Deemed Universities, please indicate whether professional programs are being offered?**

Yes 

No 

If yes, please enclose approval / recognition details issued by the statutory body governing the program.

**23. Has the university been reviewed by any regulatory authority? If so, furnish a copy of the report and action taken thereupon.**

UGC in 2009. See Annexure 2

**24. Number of positions in the University.**

Positions	Teaching faculty			Non-teaching Staff	Technical Staff
	Professor	Associate Professor	Assistant Professor		
Sanctioned by the UGC / University / State Government	7	14	42	0	0
Recruited	7	11	39	27	15
Yet to recruit	0	0	0	0	0
Number of persons	0	0	0	0	0
Working on contract basis	0	0	0	0	0

**25. Qualification of the teaching staff.**

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							
D.Sc. /D. Litt.	0	0	0	0	0	0	0
Ph.D.	7	0	9	2	20	8	46
M.Phil.	0	0	0	0	0	0	0
PG (M.Tech.)	0	0	0	0	10	1	11
<b>Temporary teachers (Visiting Full time)</b>							
Ph.D.	0	0	1	0	0	2	3
M.Phil.	0	0	0	0	0	1	1
PG	0	0	0	0	3	1	4
<b>Part-time teachers (Visiting Part-time and Visiting Industry Teachers)</b>							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0

**26. Emeritus, Adjunct and Visiting Professors.**

	Emeritus	Adjunct	Visiting
Number	2	0	8

**27. Chairs instituted by the university:** None

	Chairs
School / Department	None

**28. Students enrolled in the university departments during the current academic year, with the following details:**

Students	UG	PG	Integrated Masters	M.Phil.	Ph.D.	Integrated Ph.D.	D.Litt. / D.Sc.	Certificate	Diploma	PG Diploma
	*M F*	*M F*	*M F*	*M F*	*M F*	*M F*	*M F*	*M F*	*M F*	*M F*
From the state where the university is located	590 M 184 F	10 M 21 F	-	-	01 M 00 F	-	-	-	-	-
From other states of India	393 M 100 F	10 M 07 F	-	-	10 M 02 F	-	-	-	-	-
NRI students	01 M 00 F	-	-	-	-	-	-	-	-	-
Foreign students	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	984 M 284 F	20 M 28 F	-	-	11 M 02 F	-	-	-	-	-

(\*M – Male, \*F – Female)

**29. 'Unit cost' of education**

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled) (As of December 2014)

(a) **Including the salary component** = Rs. 1.69 Lakh per annum

(b) **Excluding the salary component** = Rs. 1.09 Lakh per annum

**30. Academic Staff College – Not Applicable**

Year of establishment \_\_\_\_\_

Number of programs conducted (with duration) \*UGC Orientation

- UGC Refresher
- University's own programs

**31. Does the university offer Distance Education Programs (DEP)?**

Yes

No

If yes, indicate the number of programs offered. Are they recognized by the Distance Education Council?

**32. Does the university have a provision for external registration of students?**

	Yes	No
UG		✓
PG	✓	

**If yes, how many students avail of this provision annually?**

2 students (in Ph.D. program are registered currently in external category)

**33. Is the university applying for Accreditation or Re-Assessment? If Accreditation, Name the cycle.**

Accreditation: Cycle 1  Cycle 2  Cycle 3  Cycle 4   
 Re-Assessment:

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

Not Applicable

Cycle 1: \_\_\_\_\_ (dd/mm/yyyy), Accreditation outcome/Result \_\_\_\_\_

Cycle 2: \_\_\_\_\_ (dd/mm/yyyy), Accreditation outcome/Result \_\_\_\_\_

Cycle 3: \_\_\_\_\_ (dd/mm/yyyy), Accreditation outcome/Result \_\_\_\_\_

Cycle 4: \_\_\_\_\_ (dd/mm/yyyy), Accreditation outcome/Result \_\_\_\_\_

\* Kindly enclose copy of accreditation certificate(s) and peer team report(s)

**35. Does the university provide the list of accredited institutions under its jurisdiction on its website? Provide details of the number of accredited affiliated / constituent / autonomous colleges under the university.** Not Applicable

**36. Date of establishment of Internal Quality Assurance Cell (IQAC) and dates of submission of Annual Quality Assurance Reports (AQAR).**

**IQAC:** 21/03/2015

**AQAR:** Not submitted yet. However, the dates of the Two IQAC meetings held so far are given below -

- (i) 07/04/2015
- (ii) 21/05/2015

Quality measures are taken in a decentralized model. Formally, the institute has a cell called Quality Assurance in Research (QARC) - which scrutinizes each and every research output in its various stages (proposal, methodology, publishing, presentation). This ensures Quality so far as research output is concerned. As far as Teaching is concerned, the institute already conducts Academic Audits. Further, a Quality Assurance in Teaching Cell (QATC) does exist. For quality assurance in administration and infrastructure, there is a meeting every month chaired by the Director with Heads of Sections and heads of departments wherein all issues including those pertaining to Quality and Reliability are discussed and addressed on as is basis.

**37. Any other relevant data, the university would like to include (not exceeding one page.)**

- (a) Our faculty is educated at premier institutes in India and outside India and some have long Industry experience. More than 70% have a Ph.D. degree and all the others are or will be pursuing Ph.D.
- (b) Our recruiters include prestigious Companies and Organizations like Tata Consulting Services (TCS), Sapient, Samsung, Mindtree, Capgemini, Amazon, Microsoft, DeShaw, Ericsson, Patni Computers, Tech-Mahindra, Future First, and Indian Army.
- (c) We have a thriving PG program, with more than 50 students currently pursuing Masters and Doctorate programs in various Departments.
- (d) We involve students extensively at various levels of decision-making processes. There are student representatives in Academic Council (AC) and in various standing committees of Academic Council like UG Committee (AC-UGC), PG Committee (AC- PGC), Students' Affairs Committee (AC-SAC), Library Committee (AC-LC), Hall Management Committee (AC-HMC), etc.
- (e) Faculty members extensively and collectively take part at various levels of decision-making processes.

- (f) Faculty selection process is fully transparent. The selection committees include eminent external experts. A very rigorous faculty selection is one of our key strengths. The pay packages offered to faculty are better than or comparable to those in other similar premier Institutions in the country.
- (g) Annual performance review is carried out for all faculty members and non-teaching staff.
- (h) Student feedback on all courses is collected at the end of each semester (including the summer semester), and is carefully analyzed.
- (i) We offer a large number of elective courses to students, besides the core courses.
- (j) The number of HSS courses (which enrich the outlook of a student) is high in our institute, compared to the same in the traditional University system. For example, we have courses on Engineering Ethics, Business and Soft Skills, English Literature, Organizational Behavior: Human Psychology at Work, and many more.
- (k) Students have their own Students' Gymkhana with Students' Senate, Convener, President, Cultural Secretary, Science and Technology Secretary, Sports Secretary, Senators and student representatives from each batch. Student representatives are elected through election every year, under the guidance of a faculty member. There also exist a large number of hobby clubs under Student Gymkhana to help students practice and develop their extra- curricular skills.
- (l) Academic, Co-Curricular, Extracurricular.
- (m) Women's Cell or Committee for Prevention of Sexual Harassment
- (n) Anti-Ragging; Counseling Cell

## 2. Criteria - wise Inputs

### Criterion I: CURRICULAR ASPECTS

#### **1.1 Curriculum Design and Development**

##### **1.1.1 How is the institutional vision and mission reflected in the academic programs of the university?**

We offer state-of-the-art undergraduate and post graduate programs with emphasis on strong fundamentals. Each department articulates its vision and mission based on institute vision & mission. Each department then sets its program educational objective (PEO) and program outcomes (PO). Curriculum of each program is designed keeping PEO & PO in context. Curriculum includes semester-wise list of core and elective courses. For each course, the course outcomes (CO) are defined.

The institute offers PG programs to enhance research directed towards solving real world problems. Core values of excellence, integrity, teamwork, professional ethics and teamwork are nurtured through various co-curricular and extracurricular activities.

#### **Institute Vision:**

To establish world class platform for creation of knowledge through quality research and its dissemination through technologically enabled teaching – learning pedagogy in the field of science, technology, engineering, arts and management. To become a catalyst in the societal and national development, by ensuring continuous interaction with industry and other academic and research institutions in India and abroad.

#### **Institute Mission:**

- (i) To offer state of the art undergraduate programs in IT & ITES as well as core disciplines with emphasis on strong fundamentals.
- (ii) To establish centers of excellence in emerging areas to provide significant breakthrough required to solve real world problems.
- (iii) To make The LNMIIT as the most preferred institute for higher education across the country.
- (iv) To create intellectual property through innovations, quality research publications and patents.
- (v) To instill core values of excellence, integrity, teamwork, professional ethics and environmental concerns.
- (vi) To foster and nurture leadership and entrepreneurial qualities and lifelong learning amongst students, research scholars, faculty and staff of The LNMIIT.

#### **Institute Objectives:**

- (i) To start innovative PG programs in humanities & social science, basic science, engineering and technology
- (ii) To focus on PhD in all disciplines
- (iii) To participate in e-governance and similar projects of the state of Rajasthan
- (iv) To enhance participation in ITRA projects of MIT
- (v) To optimize use of critical resources by multitasking
- (vi) To establish vibrant and strong alumni network
- (v) To organize regular conferences to enhance networking and brand equity
- (vi) To emphasize on knowledge and skill development at all levels
- (vii) To build sizable corpus through smart savings, donations from philanthropic organizations and alumni contributions towards meeting specific objectives

##### **1.1.2 Does the university follow a systematic process in the design and development of the curriculum?**

**If yes, give details of the process (need assessment, feedback, etc.).**

Academic Council (AC) regularly debates curriculum development challenges based on feedback from internal/external stakeholders, make suitable decisions, and monitor progress in implementing the decisions. Curriculum is designed in a way that ensures Course outcomes align well with the Program outcomes. Keeping this in view, focus areas are identified and courses are created with COs that contribute to PEOs and POs. Vision, Mission of each department entails broad learning objectives as well as adherence to the POs and PEOs of a particular program. End of the semester feedback flow chart is analyzed to see what percentage of POs have been successfully met through the course. This course feedback is further analyzed by Program Class Committee to take corrective measures and is then referred to AC\_UGC and AC for future direction.

**1.1.3 How are the following aspects ensured through curriculum design and development?**
 **Employability:**

- (a) By analyzing feedback from alumni, and placement companies.
- (b) Industry-collaborated courses from IBM, Microsoft, etc. are offered to enhance employability of a student.
- (c) Courses on communication skills and soft skills are offered to bridge the gap between industry-academics and make the student employable by industry.

 **Innovation:**

- (a) Through B.Tech Projects, Summer Internships (LUSIP), and PG thesis.
- (b) LUSIP, the flagship program of summer internship at LNMIIT for its own students as well as outside students, is an important feature of curriculum.
- (c) UG students are encouraged to write research papers and a token amount is provided to the student according to institutional guidelines to facilitate participation in conferences.
- (d) A large number of electives in categories of program, science, open and HSS are offered which facilitate learning at the frontiers of knowledge thereby encouraging innovation.
- (e) Also through wide engagement of students in faculty research/projects and hands on training in the labs.

 **Research:**

- (a) Through PG program. A component of research is there in M.Tech program. Ph.D. program is pure research which is offered by all departments.
- (b) Seed money for research is provided to all faculty members.
- (c) Assistance and encouragement to students to present research papers boosts up research environment.
- (d) Research Forum has been formed to look into issues central to research.
- (e) Industry Expert Talks are organized to expose the students to latest trends in industry.
- (f) A policy has been formulated in the last Academic Council meeting to offer credited mini projects in students' area of interest under faculty mentorship.

**1.1.4 To what extent does the university use the guidelines of the regulatory bodies for developing and/or restructuring the curricula? Has the university been instrumental in leading any curricular reform which has created a national impact?**

To the best possible extent, we comply by UGC guidelines for designing curricula for our programs. We also comply by UGC notifications. We periodically review and update our curricula in response to directives from regulatory bodies. Being an IT institute, we also respond to recommendations from NASSCOM, ACM, IBM and similar bodies, to incorporate courses such as Parallel Architecture, OOPS Java, Value Education and Professional Ethics, Technical Writing and Research Methodology, Environment and Ecology. Two of our CSE faculty recently attended National level curriculum design conference hosted by ACM and the department implemented some of the suggestions in revision of the curriculum keeping in mind future trends and industry needs. We haven't been instrumental in any particular academic reform of national impact as yet. However, the institute has been awarded the third best private university and ranked twenty sixth in the top fifty engineering institutes in the country according to a survey conducted by EDU-RAND on 700 engineering institutes in the country.

**1.1.5 Does the university interact with industry, research bodies and the civil society in the curriculum revision process? If so, how has the university benefitted through interactions with the stakeholders?**

Yes. The institute has taken an active approach in collaborating with premier industry partners such as Texas Instruments, IBM, Microsoft, HCL, etc. to ensure that we bridge the gap between industry best practices and curricula components. We also take inputs from other reputed universities in reviewing and updating our curricula through Board of Studies (for example, the curriculum is reviewed by eminent professors from NUS Singapore, BITS Pilani, IITs and industry champion like IBM).

The benefits are in the form of curriculum being comprehensive in both the theoretical and practical industry-oriented aspects, leading to better potential for students to excel in higher studies, competitive exams and career in professional organizations.

**1.1.6 Give details of how the university facilitates the introduction of new programs of studies in its affiliated colleges.**

Not Applicable. The university does not have any affiliated colleges.

**1.1.7 Does the university encourage its colleges to provide additional skill-oriented programs relevant to regional needs? Cite instances (not applicable for unitary universities).**

Not Applicable. The university does not have any affiliated colleges.

## 1.2 Academic Flexibility

**1.2.1 Furnish the inventory for the following:**

⊕ **Programs taught on campus:**

- (1) B.Tech in CSE, ECE, CCE, Mechatronics, ME
- (2) B.Tech (Hons.) in CSE, ECE and CCE
- (3) B.Tech – M.Tech Dual Degree in CSE, ECE and CCE
- (4) M.S. (by Research) in CSE, ECE and CCE
- (5) M.Tech in CSE and ECE
- (6) Ph.D. in CSE, ECE, CCE, Mechatronics, ME, HSS, Physics and Mathematics

⊕ **Overseas programs offered on campus:** Nil

⊕ **Programs available for colleges to choose from:**

Not Applicable. The university does not have any affiliated colleges.

**1.2.2 Give details on the following provisions with reference to academic flexibility:**

**(a) Core / Elective options:**

The curriculum is composed of a mix of Core and Elective courses. Elective courses are offered in Science, Humanities, Open and Program categories.

**(b) Enrichment courses:**

HSS courses, Program electives, Technical Talks, Short-term courses in collaboration with industry, e.g. TI, NI, etc.

⊕ **Industry-collaborated courses:**

**IBM courses:**

Fundamentals of Big Data with Hadoop using InfoSphere BigInsight

Fundamental Concepts of Mobile/Hybrid Application Development (including HTML5, dojo, Android)

Foundations in Business Analytics Using Cognos Insight

Learning Business Intelligence Using IBM Cognos

Essentials of Performance Management and Data Modeling using IBM Cognos TM1

Advanced Course on RDBMS - Programming using DB2

Essentials of Big Data Programming using IBM InfoSphere Big Insight

**Microsoft courses:**

Active Directory

Computer Networks

**(c) Courses offered in modular form:**

Some courses by academic design are modular in nature; e.g. Principles of Engineering Science with modules from Mechanical Engineering, and Electrical Sciences, Elective Courses including Big Data and Analytics are also offered as a stack of modular courses.

**(d) Credit accumulation and transfer facility:**

Semester exchange programs with IITs and IIITs and foreign universities

**(e) Lateral and vertical mobility within and across programs, courses and disciplines.**

Branch changes are permitted as per eligibility rules, cross-departmental and audit courses availability, vertical mobility converting from B. Tech to Dual degree as per eligibility rules.

**1.2.3 Does the university have an explicit policy and strategy for attracting international students?**

Yes, admission via the DASA scheme (Direct Admission to Students from Abroad) for Foreign Nationals/PIOs/NRIs) based on SAT-II scores.

**1.2.4 Have any courses been developed targeting international students? If so, how successful have they been? If 'no', explain the impediments.**

No. So far we've had only one international student. Once we have a larger target population, this issue will be revisited. Currently our focus is on Indian students. Should we change this, we will be revising our strategy.

**1.2.5 Does the university facilitate dual degree and twinning programs? If yes, give details.**

Yes. Dual-degree programs are available in the following disciplines: Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Communication and Computer Engineering (CCE). Currently we are working on collaboration with IIIT Delhi for a B.Tech.-M.Tech Dual degree (3+2) program.

**1.2.6 Does the university offer self-financing programs? If yes, list them and indicate if policies regarding admission, fee structure, teacher qualification and salary are at par with the aided programs?**  
 Yes. Currently the business model for the institute is in self-financing mode; primarily through the tuition fee collection from the students. Broadly, policies for student admissions, faculty recruitment, purchases etc. are in compliance with CFTI.

**1.2.7 Does the university provide the flexibility of bringing together the conventional face-to-face mode and the distance mode of education and allow students to choose and combine the courses they are interested in? If 'yes,' give operational details. All the courses offered by LNMIIT are face to face mode.**

All the courses offered by LNMIIT are face to face mode. The institute does not offer any courses in a distance mode to any other college. However, through the QEEE program which is an initiative of MHRD instructions are imparted for a small part of a few courses to our students by IIT faculty in a distance mode. For example, Prof. Aditya Jagannathan from IIT Kanpur took 12 lectures on Wireless Communication in remote mode.

**1.2.8 Has the university adopted the Choice Based Credit System (CBCS)? If yes, for how many programs? What efforts have been made by the university to encourage the introduction of CBCS in its affiliated colleges?**

Yes. The university has adopted CBCS for all programs. We don't have any affiliated colleges.

**1.2.9 What percentage of programs offered by the university follow:**

- ⊕ Annual system – Nil
- ⊕ Semester system - 100% (including courses offered in summer term)
- ⊕ Trimester system - Nil

**1.2.10 How does the university promote inter-disciplinary programs? Name a few programs and comment on their outcome.**

Through choosing appropriate areas of teaching and research. Communication and Computer Engineering (CCE) B. Tech program has produced more than 300 graduates so far, and almost all are gainfully employed. Mechatronics Engineering program has been started in 2013 with inter-disciplinary focus.

S. No.	Program	Disciplines
1	B.Tech, B.Tech (Hons.) and B.Tech-M.Tech Dual Degree in CCE	Communication, Computer Science and Electronics Engineering
2	B.Tech in Mechatronics	Mechanical, Electronics and Computer Science and Engineering

### 1.3 Curriculum Enrichment

**1.3.1 How often is the curriculum of the university reviewed and upgraded for making it socially relevant and/or job oriented / knowledge intensive and meeting the emerging needs of students and other stakeholders?**

As and when required by analyzing the feedback given by stakeholders. For example,

- (a) Courses like TWRM and VEE are offered to make it socially relevant.
- (b) Job oriented courses like Active Directory and Computer Networking are offered.
- (c) Knowledge intensive courses like Essentials of Big Data Programming using IBM InfoSphere BigInsight, Advanced course on RDBMS - Programming using DB2, Essentials of Performance Management and Data Modeling using IBM Cognos are offered.

**1.3.2 During the last four years, how many new programs at UG and PG levels were introduced? Give details.**

**Inter-disciplinary programs:**

- ✚ B. Tech and Ph.D. in Mechatronics Engineering - 2013
- ✚ B.Tech and Ph.D. in Mechanical Engineering (ME) - 2015
- ✚ M.Sc (Mathematics) – 2015
- ✚ M.Sc (Physics) shall be introduced from 2016.

**New programs introduced in emerging areas:**

- ✚ M. Tech in CSE with specialization either in Data Analytics or in Software Engineering – 2013
- ✚ M. Tech in ECE with specialization in Mobile Communication

**1.3.3 What are the strategies adopted for the revision of the existing programs? What percentage of courses underwent a syllabus revision?**

Stakeholder feedback is adopted for the revision of the existing programs, i.e., proactive solicitation of feedback viz. graduate survey, alumni survey, end-of-course survey, placement cell feedback, industry feedback and collaboration. Academic audit is carried out annually. All courses are periodically reviewed. Typically syllabus of elective courses are revised based on feedback received. About 25% of courses have undergone syllabus revision.

**1.3.4 What are the value-added courses offered by the university and how does the university ensure that all students have access to them?**

Most elective courses are designed with value addition as a key ingredient and students get a fair chance to opt them. Industry-collaborated courses (viz. those in collaboration with IBM, Microsoft, HCL, SAP) help bring in practical aspects of technical education.

**Some of the courses offered by IBM are the following:**

- (i) Essentials of Big Data Programming using IBM InfoSphere Big Insight
- (ii) Advanced course on RDBMS - Programming using DB2
- (iii) Essentials of Performance Management and Data Modeling using IBM Cognos TM1

**Some of the courses offered by Microsoft are the following:**

- (i) Active Directory
- (ii) Computer Networks

**1.3.5 Has the university introduced any higher order skill development programs in consonance with the national requirements as outlined by the National Skills Development Corporation and other agencies?**

Yes. The institute offers courses to enhance higher order skills. The lab component of each technical course takes care of skill development. Additionally training on effective use of tools like MATLAB, ANSYS, SOLIDWORKS, LABVIEW, IBM COGNOS, VHDL, DB2, ADS, SAP-ABAP, and ENGINE DIAGNOSTICS is offered.

## 1.4 Feedback System

### 1.4.1 Does the university have a formal mechanism to obtain feedback from students regarding the curriculum and how is it made use of?

Yes, Class committees of each year in a program comprising faculty and student representatives looks into the curricular aspects and issues on teaching and evaluation of a course. Such feedback is used for regular updating of the curriculum and for improving teaching standards and practices. In addition, faculty counselling by the Director and Heads of Departments also improves preparation and delivery of the course. The institute has a formal mechanism of inviting feedback from students on the courses taught and periodic review and modifications, if deemed fit, are deliberated and incorporated at the Academic Council meetings. A close analysis of "end of course survey" at the end of the semester also leads to improvement in all aspects of teaching learning.

### 1.4.2 Does the university elicit feedback on the curriculum from national and international faculty? If yes, specify a few methods such as conducting webinars, workshops, online discussions, etc. and its impact.

Yes, the institute formally elicits feedback on the curriculum and specific courses from eminent faculty from both national and international universities. Academic audits are conducted with inputs from faculty from premier institutes and industry. Methods include review of curriculum and course file (including course contents, question papers, sample answer sheets, etc.). Faculty act on the feedback leading to revision in course content and curriculum restructuring which is discussed and approved in AC.

### 1.4.3 Specify the mechanism through which affiliated institutions give feedback on curriculum enrichment and the extent to which it is made use of.

Not Applicable

### 1.4.4 What are the quality sustenance and quality enhancement measures undertaken by the university in ensuring the effective development of the curricula?

IQAC defines formal procedures for quality sustenance. Feedback from all stakeholders and curricular structure of peer institutions is analyzed before designing or restructuring curricula. A new course/changes to existing courses are discussed at the departmental level and its course information form is circulated to the faculty for feedback. Then it is submitted to AC-UGC/AC-PGC for review/recommendation to AC. In this way quality of new courses and changes to existing courses are carefully scrutinized before deploying.

### **Any other information regarding Curricular Aspects which the University would like to include.**

#### **Class-Committees:**

In every semester, the program coordinator (HoD) of B. Tech Program constitutes a class committee for II, III and IV year. This committee comprises a chairperson who is not associated in active teaching of the particular batch, concerned faculty members and students. The class committee for I year is formed at the institute level by the Dean Academics.

#### **Constitution of the class committee:**

- (i) The program coordinator nominates a faculty as chairperson of a particular class committee provided the faculty is not teaching any course to the class in that semester. The chairperson convenes all meetings of the class committee.
- (ii) Course instructors of the lecture/lab courses teaching that class and nominated by the program coordinator.
- (iii) Two student representatives nominated by the chairperson.

**Responsibilities of the class committee:**

The class committee meets periodically to review the academic procedures or to address an academic query. However, it meets at least thrice in a semester to perform the following designated tasks:

- (i) At the beginning of the semester (to discuss issues concerning curriculum, syllabi, text books and reference materials, conduct of the classes, grading and evaluation format)
- (ii) After the mid-term examination (to review the progress of the class)
- (iii) After the end-term examination to review the grading pattern followed in each course and to finalize the grades (students do not participate in this meeting). The meeting is conducted before the last day of grade submission.

**PG Programs** have department-wise class committees. They follow the same guidelines in terms of constitution and function as the B.Tech Program class committees. AC-PGC initiates the process at the beginning of each semester.

For diverse participation from all stakeholders, **Academic Council** has representation from the industry, the academia and the student body.

The institute promotes a **Semester Exchange Program** with other reputed institutes and universities in India and abroad.

## **Criterion II:** **TEACHING-LEARNING AND EVALUATION**

### **2.1 Student Enrolment and Profile**

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

The university ensures publicity and transparency in the admission process. Admissions Committee duly constituted uses electronic and print medium such as newspaper and magazines as well as web resources. Admission announcements are through open advertisement and on the institute website. Criteria for admissions are transparently stated in the advertisement, admissions website as well as in the Admissions brochure. Admissions are strictly based on merit which is the combined score of PCM in JEE main examination or AIEEE ranking prior to 2013. The institute has adopted online counseling process since 2015 admissions as is prevalent in CFTIs.

**2.1.2 Explain in detail the process of admission put in place by the university. List the criteria for admission: (e.g.: (i) merit, (ii) merit with entrance test, (iii) merit, entrance test and interview, (iv) common entrance test conducted by state agencies and national agencies (v) other criteria followed by the university (please specify).**

Undergraduate admissions are based on minimum eligibility criteria in the qualifying school examinations, and candidate's score in national/international-level qualifying examinations like IIT-JEE, Rajasthan Board of Secondary Education (RBSE) and SAT-II.

Postgraduate admissions are based on minimum eligibility criteria for the graduate degree and national/international-level examinations like Graduate Aptitude Test for Engineering (GATE), Graduate Record Examination (GRE), etc., as well as institute's own written test/interview mechanisms.

**2.1.3 Provide details of admission process in the affiliated colleges and the university's role in monitoring the same.**

Not Applicable

**2.1.4 Does the university have a mechanism to review its admission process and student profile annually? If yes, what is the outcome of such an analysis and how has it contributed to the improvement of the process?**

Yes. A report by the out-going Admission Committee is submitted to Director, including recommendations for future. Based on these recommendations, the admission criteria and admission strategy have been modified over the years. Student profiles are compiled and correlated against performance at the state board level and at the JEE-Main leading to revision of admission criteria.

**2.1.5 What are the strategies adopted to increase / improve access for students belonging to the following categories:**

- (a) **SC/ST** - Not Applicable
- (b) **OBC** -Not Applicable
- (c) **Women** – The institute ensures highly secure and fully residential campus for girls. Gender sensitization is ensured through generating awareness on specific issues related to girls. The girls students are encouraged by providing Merit based financial assistance on a criteria which is more liberal compared to male students. As a consequence of it, nearly 30% are girls students who and they perform consistently well in their academic program.
- (d) **Persons with varied disabilities**-Ramps for accessing the academic area and hostel rooms with necessary facilities.
- (e) **Economically weaker sections** – The institute facilitate Bank Loan assistance to students. Recently merits cum means scholarships have been initiated to attract students from economically weaker sections of society. Under this category, a portion of tuition fee waiver is recommended to be given to students belonging to economically weaker or BPL categories.
- (f) **Outstanding achievers in sports and other extracurricular activities** - Not applicable

**2.1.6 Number of students admitted in university departments in the last four academic years:**

Being a private, self-financed deemed-to-be university, no category-wise admission are required. The table below shows the number of male/female students admitted to the institute in the last four years.

Categories	Year 1 (Y15)		Year 2 (Y14)		Year 3 (Y13)		Year 4 (Y12)	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>SC</b>								
<b>ST</b>								
<b>OBC</b>								
<b>General</b>	259	61	267	70	250	75	208	72
<b>Others</b>								

**2.1.7 Has the university conducted any analysis of demand ratio for the various programs of the university departments and affiliated colleges? If so, highlight the significant trends explaining the reasons for increase / decrease.**

Year	Programs	No. of Applications	No. of students admitted	Demand Ratio
<b>2012</b>	UG + Integrated Masters	Not Available	280	Unable to calculate
	PG	762	15	2.09%
	Ph.D.	17	01	5.88%
<b>2013</b>	UG + Integrated Masters	Not Available	328	Unable to calculate
	PG	340	29	8.52%
	Ph.D.	21	01	4.76%
<b>2014</b>	UG + Integrated Masters	6634	336	5.06%
	PG	60	19	31.66%
	Ph.D.	35	07	20.00%
<b>2015</b>	UG + Integrated Masters	6402	323	5.04%
	PG	Not Available	09	Unable to calculate
	Ph.D.	Not Available	04	Unable to calculate

**Details of data analysis:**

- (1) Quality of incoming students is assured by setting up the cut-off mark of the last admitted student which would be higher than the cut off marks (PCM marks) of JEE Advanced qualifying marks. In 2015 admissions, the JEE Main cut off for JEE Advanced was 105. The last admitted student at LNMIIT had the JEE score of 109.
- (2) The students' admission are decided by the infrastructure available on the Campus, especially the seats in the hostels. Since The LNMIIT is a self-financing institute, the income realized through tuition fee is an important factor to decide the total number of students to be admitted in each programme. Due consideration is given to the expansion plan of our institute for the next 3-5 years.
- (3) The trend analysis is done by analyzing the admissions to the neighborhood institutions as well as similar institutions like IIIT-Delhi, IIIT-Hyderabad DAIICT-Gandhi Nagar etc. Considering the vacant seats in the colleges under RTU, the admissions for the first year B. Tech programme in The LNMIIT are very good.

**2.1.8 Were any programs discontinued / staggered by the university in last four years? If yes, please specify the reasons.**

In the last four years, the institute has discontinued the following programs:

- (1) B.Tech. (Hons.) in CSE, CCE, ECE: The reason is that these programs were not preferred by students.
- (2) M.S. (By Research) in CSE, CCE, ECE: The reason is that there were not adequate number of candidates applying for these programs.

## 2.2 Catering to Student Diversity

### 2.2.1 Does the university organize orientation / induction program for freshers? If yes, give details such as the duration, issues covered, experts involved and mechanism for using the feedback in subsequent years.

Yes. Formally designed 3 day orientation program is held every academic year in the first week of the session. The institute has a special Counseling Cell which facilitates induction for freshers in a seamless manner. There is also a formal Mentoring system under which students are assigned in batches to individual faculty members assisted by senior students. Issues covered in the Orientation session include the following:

- (a) How to handle transition from high-school to University
- (b) How to live a fully-residential campus life
- (c) Health and fitness related challenges
- (d) Academic Structures and Rules
- (e) Ethics and Code of Conduct
- (f) City Tour

### 2.2.2 Does the university have a mechanism through which the "differential requirements of the student population" are analyzed after admission and before the commencement of classes? If so, how are the key issues identified and addressed?

A formal process is carried out to evaluate academic background. It is done by administering a Screening Test in Physics, Mathematics and English to identify gaps in basic skills. This test is administered in the first week of the academic session before the commencement of classes, and subsequently voluntary remedial classes to improve performance are held over the semester to address issues regarding differential requirements. However, for helping the disadvantaged students identified later on, summer courses are offered.

### 2.2.3 Does the university offer bridge / remedial / add-on courses? If yes, how are they structured into the time table? Give details of the courses offered, department-wise/faculty-wise?

Yes. The university offers repeat courses in the summer semester for grade improvement, clearing backlog and pursuing fast-track option. The time-table does not need re-structuring. A student, who wants to improve his grade D and below, has the option to register for such courses. The following courses were offered in the summer semester of 2015: Mathematics I by Mathematics Deptt., (23 Students), Electronics I by ECE Deptt., (23 Students), Computer Programming by CSE Deptt., (20 Students), Computer Graphics by CSE Deptt., (23 Students), Data Structures by CSE Deptt., (17 Students), Green Communication and Networking by ECE Deptt., (36 Students), Mathematics III by Mathematics Deptt., (45 Students), Physics II by Physics Deptt., (42 Students), System Level Design and Modeling by ECE Deptt., (18 Students), Indian Economic Environment by HSS Deptt., (52 Students).

### 2.2.4 Has the university conducted any study on the academic growth of students from disadvantaged sections of society, economically disadvantaged, physically handicapped, slow learners, etc.? If yes, what are the main findings?

Academically weaker students (slow learners) are given ample chances to learn at their own pace during tutorials (conducted on weekly basis). They are also encouraged to meet Instructors outside the classroom/lab to receive individualized assistance. If necessary, they are allowed to take up to 12 semesters to complete the UG degree requirements as per the UGC guidelines. They can credit courses during the summer term depending upon the availability of the courses. At a formal level, the Academic Office advises students with very low CGPA at the end of the first year. It also sends an update/warning letter to such students' parents. After receiving so many prompts from the administration, the student becomes more cautious towards academics. However, no formal study of this kind has been conducted for other categories mentioned above under disadvantaged sections.

### 2.2.5 How does the university identify and respond to the learning needs of advanced learners?

The students are given more challenging problems in which they identify the areas where supplementary learning is to be facilitated. Students are also encouraged to take up mini projects/LUSIP during the semester-breaks, and indulge in R&D activities often leading to high-quality research publications. Similarly students are also given the flexibility to opt a fast track course plan to complete most of their credit requirements in 7 semesters, and spend one full semester for internship in another institute or in Industry in India and abroad. Performing students are assigned responsibility as Teaching Assistant for junior classes and laboratories.

## 2.3 Teaching-Learning Process

### 2.3.1 How does the university plan and organize the teaching, learning and evaluation schedules (academic calendar, teaching plan, evaluation blue print, etc.)?

The institute has a well-publicized Academic Calendar. Each regular semester is approximately of 14-weeks excluding examinations. The institute follows a continuous evaluation system for the academic performance through:

- (i) Announced examination (Mid-Term and End-Term Exams)
- (ii) Assignment and Project work
- (iii) Announced and Surprise Quizzes

Every faculty member announces the evaluation criteria and grading policy in the course information sheet, which is disclosed to all students at the beginning of the semester.

### 2.3.2 Does the university provide course outlines and course schedules prior to the commencement of the academic session? If yes, how is the effectiveness of the process ensured?

Yes. The Course Instructors prepare course outlines and course schedules prior to the commencement of the academic session. At the time of online registration, each student can see the list of courses and the course content and this helps them in selecting the right courses. In most of the courses, instructors form course groups on Moodle or other learning management system to disseminate relevant information to students. In addition to discussion in the classroom, there are discussions in the course groups too. The effectiveness of the process is ensured by making it mandatory (for all instructors) to follow strict guidelines in this regard. The answer books for all examinations are shown to students.

### 2.3.3 Does the university face any challenges in completing the curriculum within the stipulated time frame and calendar? If yes, elaborate on the challenges encountered and the institutional measures to overcome these.

Since everything is done in a planned manner ahead of time, the university does not face any challenge in completing the curriculum within the stipulated time frame. Regularity in conducting the classes is the norm and is strictly followed by all faculty members.

### 2.3.4 How is learning made student-centric? Give a list of participatory learning activities adopted by the faculty that contribute to holistic development and improved student learning, besides facilitating life-long learning and knowledge management.

The participatory learning activities include individual projects, group projects, term papers, tutorials and hands on training in the labs. There is a discussion hour given to each course, where students can contact the faculty and discuss course topics or problems. There is also a provision of tutorial classes for core courses. Many courses entail individual or group seminars/presentations which improve oral communication skills. An outcome based education system is adopted which ensures student-centric learning. Choice-based elective courses are offered to facilitate students to opt for a stream in his/her interest area(s). These measures, among others, help make the overall learning process student-centric. Curiosity and inquisitiveness are nurtured which facilitates life-long learning.

### 2.3.5 What is the university's policy on inviting experts / people of eminence to deliver lectures and/or organize seminars for students?

The institute encourages faculty to invite experts/people of eminence to deliver lectures as part of LNMIIT Research Forum, Seminar Series, Workshops, Symposia, etc. The experts are invited based on the recommendation of HoD and Dean. These initiatives keep the faculty and students abreast with significant developments in emerging areas. The institute organizes seminars throughout the year.

### 2.3.6 Does the university formally encourage blended learning by using e-learning resources?

Yes, e-learning resources form a part of almost all the courses. It is mentioned in the course information forms which are shared with the students at the time of registration. The institute has procured a large number of relevant NPTEL videos and made the same available to students and faculty on the intranet.

**2.3.7 What are the technologies and facilities such as virtual laboratories, e-learning, open educational resources and mobile education used by the faculty for effective teaching?**

MOODLE, NPTEL videos, QEEE lectures (MHRD program), MIT OCW, Coursera, edX etc. Students are encouraged to use Virtual Labs (VLABS) of MHRD and other open source ware programs such as Mozilla, KDE.

**2.3.8 Is there any designated group among the faculty to monitor the trends and issues regarding developments in Open Source Community and integrate its benefits in the university's educational processes?**

We have understood and appreciated the benefits of Open Source learning and with the induction of two renowned faculty members in CSE department; we have initiated its implementation in the university's educational processes. We encourage students to participate in Open Source activities such as the Mozilla community, KDE.

**2.3.9 What steps has the university taken to orient traditional classrooms into 24x7 learning places?**

The whole academic area is Wi-Fi enabled. Students are given projects and assignments which require 24x7 accesses to laboratories. Moodle learning management systems and locally-hosted NPTEL modules are available. Initiatives such as Google Classrooms facilitate students to interact among themselves and with faculty at all times. Students have 24x7 online accesses to library subscriptions of IEEE, Science Direct, Prola, JSTOR, ProjectMuse, ACM Digital library and ASME. The library is open to student use from 9:00 AM to 11:00 PM on all days.

**2.3.10 Is there a provision for the services of counsellors / mentors/ advisors for each class or group of students for academic, personal and psycho-social guidance? If yes, give details of the process and the number of students who have benefitted.**

Yes, faculty mentors are allocated a batch of students (10-20) for counseling and mentoring on academic and psycho-social matters for the first year students. Faculty members create a free and friendly atmosphere in their interactions with students. Faculty mentors organize periodic meetings and they are provided with an imprest cash of Rs.1000 to arrange tea/snacks for the students. Additionally, one senior student is also attached as a 'buddy' to each group of students. The process starts with the orientation session in the first week of the academic session, and continues throughout the year.

Ombudspersons, Deans, Chief Warden, Wardens, HoDs, RMO (and individual faculty members) offer informal/formal guidance and advice to students of all years on academics, personal and psycho-social matters.

**2.3.11 Were any innovative teaching approaches / methods / practices adopted / put to use by the faculty during the last four years? If yes, did they improve learning? What were the methods used to evaluate the impact of such practices? What are the efforts made by the institution in giving the faculty due recognition for innovation in teaching?**

Yes, E-notes, open-notes exam, open-book exam, term paper, sync between theory lectures and lab experiments, guest lectures, etc. are some of the innovative methods adopted by faculty to improve teaching learning process. Diarizing of daily lectures and Flipped-Class by a few faculty also helps make students regular to the class. Group projects and presentations in most of the courses help teach team work and public speaking skills. Average total marks scored by the batch in a given course, and student feedback on the course is an indication of the impact made by such practices. Annual performance review takes cognizance of such innovative efforts made by the faculty.

**2.3.12 How does the university create a culture of instilling and nurturing creativity and scientific temper among the learners?**

Through rigorous faculty selection, through merit-based UG/PG admissions, and through almost round-the-clock access to classrooms, laboratories, and other facilities including the library. Innovation Club, E-Cell, Phoenix, IUPC contests, Robotics Club, Astronomy Club, Student Chapters of IEEE, CSI, ASME and SAE nurture creativity and scientific temper. QEEE program help reinforce skills through quality enhancement in engineering education. QAR cell (Quality Assurance in Research) imposes a thorough review process towards improvement in quality and adherence to international standards in research output/publications. Quality Assurance in

Teaching is ensured through regular interactions with student representatives through class committees. Distinguished Talks by eminent professors and industry experts also contribute towards the same. Some elective courses are especially tailored toward creative aspects of learning, for e.g. Robotics and Industrial automation, System simulation and Process optimization. Students are involved with faculty to contribute in various ongoing sponsored projects. BTP projects are a mandatory component of the curriculum.

**2.3.13 Does the university consider student projects mandatory in the learning program? If yes, for how many programs have they been (percentage of total) made mandatory?**

Yes; BTP projects are made mandatory in the learning program. Students have a flexibility to opt from a list of BTPs offered by all the departments. Students earn nearly 5% of the total credits through B.Tech projects.

 **Number of projects executed within the university apart from regular courses:**

Nearly all the UG projects are done in house except ones mentioned below.

 **Names of external institutions associated with the University for Student Project Work:**

IIT Mandi, NTU, MNIT Jaipur.

 **Role of faculty in facilitating such projects:**

As project supervisors as well as co-supervisors. Even for students doing projects with external institutions, one LNMIIT faculty is assigned as local co-supervisor. Role of the supervisor includes mentoring as well as ensuring access to resources and compliance with the thesis / report writing format and norms.

**2.3.14 Does the university have a well-qualified pool of human resource to meet the requirements of the curriculum? If there is a shortfall, how is it supplemented?**

Yes, we have adequate and well-qualified pool of human resource to meet the requirements of the curriculum. Visiting appointments are made as and when required.

**2.3.15 How are the faculty enabled to prepare computer-aided teaching/ learning materials? What are the facilities available in the university for such efforts?**

State-of-the-art ICT enabled classrooms, individual desktop computers / laptops to all faculty members, 24x7 internet access (including Wi-Fi), smart boards in classrooms, etc. are routinely available to everyone. Moodle and other learning management systems are used as teaching aids and web-based interface for learning activities. State-of-the-art laboratories and computer labs supplement theoretical learning for practical learning.

**2.3.16 Does the university have a mechanism for the evaluation of teachers by the students / alumni? If yes, how is the evaluation feedback used to improve the quality of the teaching-learning process?**

Yes. At the end of each semester the students anonymously evaluate a teacher on several parameters such as course relevance, course outcome attainment, completion of course on time, communication skills of the instructor and knowledge gained through the course. The improvement is achieved through sharing the student feedback with the faculty member (s) concerned, and if necessary, requesting him/her to submit an action plan for improvement in future offerings of the course. Director/HOD offers advice and provides guidance on improvement to concerned faculty members. The institute also regularly solicits feedback from alumni on curriculum and course relevance / usefulness. Periodically Director seeks alumni opinion on specific academic matters.

## 2.4 Teacher Quality

**2.4.1 How does the university plan and manage its human resources to meet the changing requirements of the curriculum?**

The process of faculty recruitment by periodically identifying key areas of focus for each department and subsequent hiring of new, qualified faculty is the core human resource policy of the institute.

Faculty selection is open and transparent through advertisement as well as search cum selection process. Professors and faculty members from IITs, IISc and similar institutions assist the Director in the selection process. Talent management and knowledge up-gradation is done through participation in FDPs, conferences, seminars, workshops, etc. at national and international levels. In addition, lectures by external industry/academia experts (online/physical) also provide opportunities for faculty to meet changing requirements of curriculum. Faculty member is also encouraged and permitted to take up short term internships at renowned academic institution as well as industry. The institute has the facility for sabbaticals for the faculty members.

**2.4.2 Furnish details of the faculty**

<b>Highest Qualification</b>	<b>Professors</b>		<b>Associate Professors</b>		<b>Assistant Professors</b>		<b>Total</b>
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							
D.Sc. / D.Litt.	0	0	0	0	0	0	0
Ph.D.	7	0	9	2	20	8	46
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	10	1	11
<b>Temporary teachers</b>							
Ph.D.	0	0	1	0	0	2	3
M.Phil.	0	0	0	0	0	1	1
PG	0	0	0	0	3	1	4
<b>Part-time teachers</b>							
Ph.D.	0	0	0	0	0	0	0
M.Phil.	0	0	0	0	0	0	0
PG	0	0	0	0	0	0	0

**2.4.3 Does the university encourage diversity in its faculty recruitment? Provide the following details (department / school-wise). Yes**

<b>Department / School</b>	<b>% of faculty from the same university</b>	<b>% of faculty from other universities within the state</b>	<b>% of faculty from universities outside the state</b>	<b>% of faculty from other countries</b>
CSE	19%	19%	62%	0%
ECE	0%	0%	100%	0%
Mechatronics	0%	25%	75%	0%
Physics	0%	0%	100%	0%
Mathematics	0%	0%	100%	0%
HSS	0%	67%	33%	0%

**2.4.4 How does the university ensure that qualified faculty are appointed for new programs / emerging areas of study (Bio-technology, Bio-informatics, Material Science, Nanotechnology, Comparative Media Studies, Diaspora Studies, Forensic Computing, Educational Leadership, etc.)? How many faculty members were appointed to teach new programs during the last four years?**

Through a regular selection process as explained in 2.4.2 after assessment of existing and projected areas of specialization. Number of faculty members hired in the last four years for new programs/emerging areas of study include 1 for Material Science, 1 for Nanotechnology, 1 for Diaspora Studies and 5 for Big Data and Analytics and 4 for Mobile and Cloud Computing, 3 for Image Processing, 3 for Cognitive Radio, 1 for Green Sensor Network, 3 for VLSI and Embedded Systems, 3 for Computer Aided Design and Manufacturing, 2 for Robotics and Mechatronics.

**2.4.5 How many Emeritus / Adjunct Faculty / Visiting Professors are on the rolls of the university?**

- ✚ Emeritus – 2
- ✚ Adjunct faculty - Nil
- ✚ Visiting faculty - 8

**2.4.6 What policies/systems are in place to academically recharge and rejuvenate teachers (e.g. providing research grants, study leave, nomination to national/international conferences/ seminars, in-service training, organizing national/international conferences etc.)?**

An annual research grant of Rs. 1 lakh to all faculty members, Special Academic Leave for pursuing higher study, financial support to all faculty members to attend two national / one international conference is provided every year. Computing facilities like Desk top, Laptop and Printer are given to each faculty member. Internships are facilitated at reputed institutes or R&D organizations. Periodic FDPs on frontiers of knowledge are organized by the institute. Provision for 1-year sabbatical exists for long serving faculty members. The institute also allows and sponsors membership to professional societies like ACM, ASME, IEEE, etc.

**2.4.7 How many faculty received awards / recognitions for excellence in teaching at the state, national and international level during the last four years?**

Two (Prof. S.K. Gupta, Best Teacher Award, IIT Kanpur 2011; Prof. R. Tomar, IETE Fellowship 2010)

**2.4.8 How many faculty underwent staff development programs during the last four years (add any other program if necessary)?**

Academic Staff Development Programs	Number of faculty
Refresher course	5
HRD Programs	8
Orientation programs	2
Staff training conducted by the university	7
Staff training conducted by other instructor	8
Summer/ Winter schools, workshops etc.	7

**2.4.9 What percentage of the faculty have**

- ✚ **Been invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies?**  
Approximately 10%
- ✚ **Participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies?**  
Nearly 100%
- ✚ **Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies?**  
Nearly 100%
- ✚ **Teaching experience in other universities / national institutions and other institutions?**  
Nearly 75% (in the total experience of our faculty members)
- ✚ **Industrial engagement?**  
About 10%
- ✚ **International experience in teaching?**  
About 5%

**2.4.10 How often does the university organize academic development programs (e.g.: curriculum development, teaching-learning methods, examination reforms, content / knowledge management, etc.) for its faculty aimed at enriching the teaching-learning process?**

- (1) Curriculum development – Faculty has participated in programs organized by other universities.
- (2) Teaching-learning methods- regular workshops spread throughout the year
- (3) Examination Reforms- Regularly reviewed at administrative level
- (4) Content/Knowledge Management – Continuous practice, at various levels (Department > AC-UGC/AC- PG> AC)

**2.4.11 Does the university have a mechanism to encourage**

- ✚ **Mobility of faculty between universities for teaching?**  
Yes, institute facilitates on case-by-case basis.
- ✚ **Faculty exchange programs with national and international bodies?**  
No formal program exist however, a faculty is permitted to take up assignment as and when required.

**If yes, how have these schemes helped in enriching the quality of the faculty? - Yes**

- ✚ Dr. Amit Neogi spent one year at IIT Jodhpur as a visiting faculty. This enabled networking between two institutes on a long term basis.
- ✚ Professor Raghuvir Tomar taught as a part-time visiting faculty (2009-2010) at IIIT-DM Jabalpur. IIIT-DM benefitted from Professor Tomar's two decades of Industry experience.
- ✚ Dr. Abhishek Sharma of ECE is assisting Shiv Nadar University, Noida in setting up VLSI Lab in 2015-16.

## 2.5 Evaluation Process and Reforms

### 2.5.1 How does the university ensure that all the stakeholders are aware of the evaluation processes that are in place?

- (a) By making UG and PG Manuals available on the institute website,
- (b) By showing answer books to students,
- (c) Through announcement of evaluation criteria and grading policy in the Course Information Form (CIF) which is shared with all students during registration,
- (d) Through regular meetings of class-committees where gaps are analyzed and efforts are made to bridge them,
- (e) Information or intimation to respective parents of academically-deficient students.

### 2.5.2 What are the important examination reforms initiated by the university and to what extent have they been implemented in the university departments and affiliated colleges? Cite a few examples which have positively impacted the examination management system.

- (a) The slot wise time table and announcement of examination time table along with it before beginning of the new semester ensures conflict free time management for examinations.
  - (b) A list of do's and don'ts during examination is circulated to students well ahead of time.
  - (c) A flying squad with AR Academic as the coordinator is constituted which looks into all aspects of conduct of examination.
  - (d) A student using unfair means is identified and is referred to AC-UGC / AC-PGC for necessary action, which ensures probity in examination system.
- All these initiatives, which have been fully implemented, have improved overall examination management system.

### 2.5.3 What is the average time taken by the University for Declaration of examination results? In case of delay, what measures have been taken to address them? Indicate the mode / media adopted by the University for the Publication of examination results e.g. website, SMS, email, etc.).

Grades are expected to be submitted within one week of the last examination. In case of delays, reminders are sent to instructors by the Director. No severe deviation has been observed in this regard. Official grades are published on the internal Management Information System (MIS).

### 2.5.4 How does the university ensure transparency in the evaluation process? What are the rigorous features introduced by the university to ensure confidentiality?

In the institute every teacher is fully responsible for the course he/she teaches (syllabi, course delivery, framing of question paper, evaluation, determining grades). There is no Controller of Examination and Examination Cell. Transparency is ensured in the evaluation process by sticking to the announced evaluation criteria, by showing evaluated answer books to students on designated days announced by the concerned instructors.

Faculty members are encouraged to put up Model Answer Sheets in e-mode or otherwise.

Confidentiality is ensured at various levels. The question paper is typed and printed by the instructor himself/herself. The answer sheets are checked by the instructor and marks entered on MIS to minimize error. The grades are kept confidential until announced to the whole class.

### 2.5.5 Does the university have an integrated examination platform for the following processes?

- ⊕ Pre-examination processes – Time table generation, OMR, student list generation, invigilators, squads, attendance sheet, online payment gateway, etc.
- Yes, as explained above
- ⊕ Examination process – Examination material management, logistics, etc.
- Yes, the responsibility is handled by the Academic Session
- ⊕ Post-examination process – Attendance capture, OMR- based exam result, auto processing, generic result processing, certification, etc.

Yes. Student identification through ID card by the invigilator, attendance sheets signed by the student as well as invigilator and forwarded to the respective instructor.

Since the institute does not entertain OMR based examination, queries pertaining to that are not applicable.

**2.5.6 Has the university introduced any reforms in its Ph.D. evaluation process?**

A few reforms have been introduced in line with the UGC stipulations. The existing practice is as outlined below: Course Work with minimum CGPA of 7.0/10 > Semester-wise review by DRC > Comprehensive Exam > State-of-the-art Seminar > Open Seminar > Thesis Submission > Thesis Review by Thesis Examination Board (consisting of at least 3 external examiners) > Viva-voce Defense Examination.

**2.5.7 Has the university created any provision for including the name of the college in the degree certificate?**

Not Applicable since we do not have any affiliated colleges. However, degrees are awarded by the institute (University) bear all relevant identifications such as water mark, barcode and multi colored printing.

**2.5.8 What is the mechanism for redressal of grievances with reference to examinations?**

Evaluated Answer Books are shown to students within a stipulated time period, and grievances are addressed immediately.

**2.5.9 What efforts have been made by the university to streamline the operations at the Office of the Controller of Examinations? Mention any significant efforts which have improved the process and functioning of the examination division/section.**

Not Applicable, because each faculty is in-charge of his/her examinations.

## 2.6 Student Performance and Learning Outcomes

**2.6.1 Has the university articulated its Graduate Attributes? If so, how does it facilitate and monitor its implementation and outcome?**

The outcomes based education and accreditation is relatively recent phenomena in India. As such the Graduate Attributes would be with a prospective effect rather than retrospective effect.

The institute has articulated a set of Graduate Attributes as per norms of NBA. Based on the Graduate Attributes Program Outcomes of B.Tech in ECE, CSE, CCE and Mechatronics are formulated. The implementation is in progress. The Board of Studies, Class Committee and Academic Council have begun to facilitate and monitor the progress.

**2.6.2 Does the university have clearly stated learning outcomes for its academic programs? If yes, give details on how the students and staff are made aware of these?**

Yes. Most of the faculty members participated in workshops organized for the said purpose. The students are being familiarized with the course and program outcomes in the classroom as well as through student e-groups. It is proposed to publicize relevant portions on the institute website.

**2.6.3 How are the university's teaching, learning and assessment strategies structured to facilitate the achievement of the intended learning outcomes?**

Strategies are being evolved through consultation and discussions in committees such as the Class Committee, AC-PGC, AC-UGC, BOS / DAC, AC, etc. The Director who is the chief executive officer in academic and administrative matters communicates with faculty members as well as students on the common issues such as attendance, quality of teaching, testing methods, etc.

Learning is structured through proper conduct of classes according to the given time table. Assessment is structured through proper conduct of examinations and evaluation as direct assessment and feedback / survey as indirect assessment.

**2.6.4 How does the university collect and analyze data on student learning outcomes and use it to overcome the barriers to learning?**

The university has specific survey mechanisms to collect data from stakeholders on learning outcomes. There are separate surveys for alumni, graduate survey, course survey, and employer survey. Apart from formal surveys, if specific issues are brought out which prove to be impediment in T-L process, senior faculty members or the Director intervenes and resolve.

**2.6.5 What are the new technologies deployed by the university in enhancing student learning and evaluation and how does it seek to meet fresh/ future challenges?**

Multi-media facilities (Smart board, Virtual classroom, Google classroom, Moodle, Virtual lab), NPTEL lectures, QEEE lectures, National Instruments Lab, Texas Instrument, HPC, fresh / future challenges are met through constant interactions with peer institutions and national/international policy-setters. Students also learn in a peer group through social media.

**Any other information regarding Teaching, Learning and Evaluation which the university would like to include.**

Flexibility in choice of the courses taken by the students, availability of classrooms, library and laboratories for 16 hours a day, access to the teachers during the week days as well as weekends has homogenized the T-L experience.

Faculty members are encouraged to float a new course of their choice as an elective after following a due process and this widens the learning horizon.

The grading format in terms of seminars, assignments, term paper, presentation etc. is left to the teacher other than mid and end semester examinations.

## **Criterion III:** **RESEARCH, CONSULTANCY AND EXTENSION**

### **3.1 Promotion of Research**

**3.1.1 Does the university have a Research Committee to monitor and address issues related to research? If yes, what is its composition? Mention a few recommendations which have been implemented and their impact.**

Quality Assurance in Research Committee (QARC) oversees and ensures quality of research conducted by faculty and PG/UG students. In addition to this, this function is also very effectively served by the Academic Council (AC) and its sub-committee Academic Council Post Graduate Committee (AC-PGC). The AC is chaired by the Director of the institute. The AC has all Professors and HoDs, External experts (academic / industry), Student members and Faculty nominated by the AC Chairman as members, as internal/external nominees by the Director. All the remaining faculty members are invitees.

The AC-PGC Chairperson is Dean R&D / Senior Faculty Member nominated by the Director. The AC-PGC also has Faculty Members (at least one from each Department) and student representatives.

A few recommendations made by QARC which have been implemented with impact:

- ⊕ Focus on reputed conferences and journals for publication and presentation of their research.
- ⊕ The committee guides and advises individual researchers- both faculty members as well as students on continuous improvement in quality of research and presentation.
- ⊕ Impact has been seen in terms of significant increase in journal publications by LNMIIT faculty (and students).

**3.1.2 What is the policy of the university to promote research in its affiliated / constituent colleges?**

The institute does not have any affiliated colleges and hence not applicable.

**3.1.3 What are the proactive mechanisms adopted by the university to facilitate the smooth implementation of research schemes/ projects?**

**⊕ Advancing funds for sanctioned projects -**

On a case-by-case basis, projects sanctioned by reputed agencies are given financial support from the institute (in advance of actual receipts from the funding agencies).

**⊕ Providing seed money -**

Annual Research Grant to each faculty member from the institute (for implementing and conducting original academic research work, for conducting/attending conferences, workshops, symposia, support for research publication, membership for professional societies, etc.)

**⊕ Simplification of procedures related to sanctions / purchases to be made by the investigators -**

All the purchases under the projects are as per the procedures stipulated in procurement manual of the institute. Since the projects are time bound in nature, PCC (purchase cum condemnation committee) meets on an emergent basis if required.

**⊕ Autonomy to the principal investigator/coordinator for utilizing overhead charges -**

This is subject to conditions imposed by the funding agencies.

**⊕ Timely release of grants – Yes**

**⊕ Timely auditing -** Yes, conducted by the Finance Office for each funded projects.

**⊕ Submission of utilization certificate to the funding authorities –**

Yes, this is furnished after every financial year for the duration of the project.

**⊕ Other information -**

Encouragement and Support from the institute to apply for research projects from external funding agencies such as DST, ICSSR, UGC, ISRO, NRB, etc.

Round the clock access is to labs and workspaces.

**3.1.4 How is interdisciplinary research promoted?**

**⊕ Between/among different departments / schools of the university**

(a) Joint Research proposals by more than one Departments (ECE and MME)

(b) Joint Patent Applications (ECE-MME: Physics-ME)

- (c) Emphasizing focus on interdisciplinary areas of research  
(d) Students and faculty are encouraged to do interdisciplinary research projects

 **Collaboration with national / international institutes / industries.**

- (a) Joint research proposals with other institutes (ITRA).
- (b) Joint research collaboration for students projects (IIT Gandhinagar, IIT Mandi, IIIT Hyderabad, IIT Madras, NATEL Engineering Co, USA)
- (c) Collaboration with industry (e.g. IBM, Texas Instruments, Microsoft, National Instruments) to set up co-branded research labs.
- (d) Industry internship with ArcelorMittal Kazakhstan, Microsoft India, Amazon, Samsung, Xerox etc.

**3.1.5 Give details of workshops / training programs / sensitization programs conducted by the university to promote a research culture on campus.**

S. No.	Title of the event	Duration	Distinguished Speakers / Participants
1	Research Forum	Friday of a week	Mr. Amrendra Dasari, Ex. Head, BEL India Pune, Dr. Srinivas Padmanabhu, AVP, Infosys Research Labs, Bangalore & President, ACM-India Prof. Parmeshwar P. Iyer, Principal Research Scientist & Head, Placement & Industrial Liaison, IISc Bangalore
2	Workshop on Research Proposal Writing	October 17, 2015	Dr. N. Bolloju, Professor LNMIIT Jaipur
3	Workshop on Modeling, Simulation and Computational Techniques	January 15-17, 2015	Prof. R.K. Shevgaonkar, Director, IIT Delhi Prof. Peter Cochrane, University of Bristol, UK
4	International Workshop on Emerging Trends in Information Technology (ETIT-2014)	February 14-15, 2014	Prof. Philippe Dogredil, Business School, Geneva, Switzerland Prof. Ravi Gorthi, LNMIIT, Jaipur Dr. Kaushik Dutta, NUS, Singapore
5	XXII IEEE Quarterly Meet	January 19, 2014	Prof. Damyanti Gupta, University of Rajasthan
6	Workshop on elliptic equations: variational formulations and numerics (EEVFN) 2013	December 9-20, 2013	Prof. Amiya K. Pani, IIT Bombay
7	National Workshop on Computer Vision and Image Processing	September 8-9, 2012	Dr. Anil Tiwari, LNMIIT, Jaipur
8	Workshop on Antennas and RF Systems	March 24-25, 2012	Dr. D. C. Pandey, LRDE, DRDO, Bangalore Prof. S. K. Koul, IIT Delhi Prof. R. Gangopadhyay, LNMIIT, Jaipur Prof. R. Tomar, LNMIIT, Jaipur
9	Workshop on Next Generation W3C Web Technologies (jointly organized by W3C and LNMIIT)	February 13, 2012	Dr. Somnath Chandra, Deputy Country Manager-W3C, India Dr. Shyamal Das, IIT Kharagpur
10	DAE-BRNS High Energy Physics Symposium	December 13-18, 2010	Prof. Sudhir Raniwala, University of Rajasthan
11	XIII International Workshop on Advanced Computing and Analysis Techniques in Physics Research	February 22-27, 2010	Prof. Dheeraj Sanghi, formerly with LNMIIT currently IIT Kanpur
12	Workshop on Nano-magnetism	February 06, 2010	Prof. Dheeraj Sanghi, formerly with LNMIIT currently IIT Kanpur
13	National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)	January 15-17, 2010	Dr. A.K. Tiwari, formerly with LNMIIT currently at IIT Jodhpur

S. No.	Title of the event	Duration	Distinguished Speakers / Participants
14	Workshop on COMMUNICATION: Its Varied Forms	November 14, 2009	Prof. R.P. Bhatnagar, University of Rajasthan
15	Workshop on Nonlinear Dynamics and Chaos	October 10, 2009	Prof. M.D. Shrimali, formerly with LNMIIT, currently at Central University, Ajmer
16	Workshop on Matlab and Simulink	July 17-24, 2009	Dr. Amit Neogi
17	Workshop on Green Chemistry	April 25, 2009	Prof. R.P. Bhatnagar, University of Rajasthan
18	Workshop on Recent Trends Condensed Matter Physics	March 21, 2009	Dr. Arti Kashyap, formerly with LNMIIT, currently at IIT Mandi
19	International Conference on Translation Studies: Theory and Practice	December 29-31, 2008	Prof. R.P. Bhatnagar of the University of Rajasthan
20	Wireless and Personal Media Communication Conference (WPM)	December 03-06, 2007	Prof. Ramjee Prasad of Finland
21	International Conference on Mathematical Modeling and Computer Simulation	December 12-15, 2006	Prof. Vaidhya of IISc, Bangalore

**3.1.6 How does the university facilitate researchers of eminence to visit the campus as adjunct professors? What is the impact of such efforts on the research activities of the university?**

The university constantly takes initiatives to identify and invite researchers of eminence for visits to campus. This has direct/indirect positive impact on faculty/student bent of mind, and also often results in collaboration opportunities, internships, and even placement opportunities for LNMIIT graduates.

The institute approaches the recently retired faculty from institutes of national importance and invite them to assist the LNMIIT. The institute provides all the facilities that are available to the permanent faculty members along with campus residential and office accommodation, along with commensurate financial compensation. There are a few distinguished professors in various departments who primarily assist the institute in mentoring the young faculty, networking with the funding agencies, designing new programs, etc.

**3.1.7 What percentage of the total budget is earmarked for research? Give details of heads of expenditure, financial allocation and actual utilization (rupees in lakhs).**

	2011-12		2012-13		2013-14			2014-15		
	(Actual Expenditure)	% of total Expenditure (approx.)	Actual Expenditure	% of total Expenditure (approx.)	Budgeted	actual till 14.1.14	% of total Expenditure (approx.)	Budgeted	actual till 03.2.16	% of total Expenditure (approx.)
Research Expenditure	17.64		10.73		18.00	18.40		40.00	25.37	
Research/ Lab equipment	2.27		30.34		30.00	27.96		239.67	180.00	
Others	1.11		1.65		0.88	0.91		3.13	4.57	
<b>Total Rs.</b>	<b>21.02</b>	<b>2.1%</b>	<b>42.72</b>	<b>3.4%</b>	<b>48.88</b>	<b>47.27</b>	<b>4.5%</b>	<b>282.80</b>	<b>209.94</b>	<b>9.00%</b>

**3.1.8 In its budget, does the university earmark fund for promoting research in its affiliated colleges? If yes, provide details.**

Not Applicable

**3.1.9 Does the university encourage research by awarding Post-Doctoral Fellowships/Research Associateships? If yes, provide details like number of students registered, funding by the university and other sources.**

Yes. So far, one postdoctoral fellow in Physics was involved. RA-ships are available based on requirement.

**3.1.10 What percentage of faculty have utilized the sabbatical leave for pursuit of higher research in premier institutions within the country and abroad? How does the university monitor the output of these scholars?**

There is a facility for the sabbatical leave. Since the institute is relatively young with young faculty members, nobody has opted so far for sabbatical leave. However, the institute supports leave for higher studies (doctoral / post-doctoral research assignment etc.). The output is measured in terms of research publications and improved academic quality in general.

**3.1.11 Provide details of national and international conferences organized by the university highlighting the names of eminent scientists/scholars who participated in these events.**

S. No.	Title of the event	Duration	Distinguished Speakers / Participants
1	Workshop on Modeling, Simulation and Computational Techniques	January 15-17, 2015	Prof. R.K. Shevgaonkar, Director, IIT Delhi Prof. Peter Cochrane, University of Bristol, UK
2	International Workshop on Emerging Trends in Information Technology (ETIT-2014)	February 14-15, 2014	Prof. Philippe Dogredil, Business School, Geneva, Switzerland Prof. Ravi Gorthi, LNMIIT, Jaipur Dr. Kaushik Dutta, NUS, Singapore
3	XXII IEEE Quarterly Meet	January 19, 2014	Prof. Damyanti Gupta, University of Rajasthan
4	Workshop on elliptic equations: variational formulations and numerics (EEVFN) 2013	December 9-20, 2013	Prof. Amiya K. Pani, IIT Bombay
5	National Workshop on Computer Vision and Image Processing	September 8-9, 2012	Dr. Anil Tiwari, LNMIIT, Jaipur
6	Workshop on Antennas and RF Systems	March 24-25, 2012	Dr. D. C. Pandey, LRDE, DRDO, Bangalore Prof. S. K. Koul, IIT Delhi Prof. R. Gangopadhyay, LNMIIT, Jaipur Prof. R. Tomar, LNMIIT, Jaipur
7	Workshop on Next Generation W3C Web Technologies (jointly organized by W3C and LNMIIT)	February 13, 2012	Dr. Somnath Chandra, Deputy Country Manager-W3C, India Dr. Shyamal Das, IIT Kharagpur
8	DAE-BRNS High Energy Physics Symposium	December 13-18, 2010	Prof. Sudhir Raniwala, University of Rajasthan
9	XIII International Workshop on Advanced Computing and Analysis Techniques in Physics Research	February 22-27, 2010	Prof. Dheeraj Sanghi, formerly with LNMIIT currently IIT Kanpur
10	Workshop on Nano-magnetism	February 06, 2010	Prof. Dheeraj Sanghi, formerly with LNMIIT currently IIT Kanpur
11	National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG)	January 15-17, 2010	Dr. A.K. Tiwari, formerly with LNMIIT currently at IIT Jodhpur
12	Workshop on COMMUNICATION: Its Varied Forms	November 14, 2009	Prof. R.P. Bhatnagar, University of Rajasthan
13	Workshop on Nonlinear Dynamics and Chaos	October 10, 2009	Prof. M.D. Shrimali, formerly with LNMIIT, currently at Central University, Ajmer
14	Workshop on Matlab and Simulink	July 17-24, 2009	
15	Workshop on Green Chemistry	April 25, 2009	Prof. R.P. Bhatnagar, University of Rajasthan

S. No.	Title of the event	Duration	Distinguished Speakers / Participants
16	Workshop on Recent Trends Condensed Matter Physics	March 21, 2009	Dr. Arti Kashyap, formerly with LNMIIT, currently at IIT Mandi
17	International Conference on Translation Studies: Theory and Practice	December 29-31, 2008	Prof. R.P. Bhatnagar of the University of Rajasthan
18	Wireless and Personal Media Communication Conference (WPM)	December 03-06, 2007	Prof. Ramjee Prasad of Finland
19	International Conference on Mathematical Modeling and Computer Simulation	December 12-15, 2006	Prof. Vaidhya of IISc, Bangalore

### 3.2 Resource Mobilization for Research

#### 3.2.1 What are the financial provisions made in the university budget for supporting students' research projects?

Research project needs are financially supported on a case-by-case basis. For attending conferences, partial financial support is available not exceeding Rs. 35,000 per year per UG student and Rs. 60,000 per year per PG student.

#### 3.2.2 Has the university taken any special efforts to encourage its faculty to file for patents? If so, how many have been registered and accepted?

Yes, the institute encourages and financially supports the filing of patents. As of now, 08 patents have been filed by Somnath Biswas.

#### 3.2.3 Provide the following details of ongoing research projects of faculty:

- (a) University Awarded Projects: Nil
- (b) Major Projects awarded by other agencies are listed below -

S. No.	Principal Investigator	Total Grant Received	Name of the Project	Funding Agency and Duration of the Project
1	Dr. Somnath Biswas	Rs. 9 lakh	Detection of biomolecular interactions with TMR based sensing using magnetic nanotags	UGC-DAE (2014-17)
2	Dr. Narendra Kumar	Rs. 8 lakh	Tracing the Faultlines of Ethnic Conflict in the Postcolonial Indian Subcontinent: Narrative as a Socio-Political Discourse	ICSSR (2014-16)
3	Prof. Anupam Singh and Dr. Anjishnu Sarkar	Rs. 12 lakh	Non-equilibrium dynamics of quantum fields with applications to dark energy and inflation (Prof. Anupam Singh and Dr. Anjishnu Sarkar)	DST (2013-16)
4	Prof. Ranjan Gangopadhyay	Rs. 102.96 lakh	ITRA- Mobile Broadband Service Support over Cognitive Radio Network	MCIT (2013-2016)
5	Dr. Somnath Biswas	Rs. 13.56 lakh	Development of high hydrostatic pressure metal forms for hydrogen storage	DST (2013-2016)
6	Dr. Subhayan Biswas	Rs. 11 lakh	Development of Solar Cells Utilizing Quantum Dot sensitized Titanium Oxide Nanotube	CSIR (2013-2016)
7	Dr. Akhlaq Husain	Rs. 11 lakh	Least square non-conforming h-p Spectral Element Methods for three dimensional elliptic problems on non-linear smooth domains using parallel computers	DST (2013-2016)

**3.2.4 Does the university have any projects sponsored by the industry / corporate houses? If yes, give details such as the name of the project, funding agency and grants received.** - No

**3.2.5 How many departments of the university have been recognized for their research activities by national / international agencies (UGC-SAP, CAS; Department with Potential for Excellence; DST-FIST; DBT, ICSSR, ICHR, ICPR, etc.) and what is the quantum of assistance received? Mention any two significant outcomes or breakthroughs achieved by this recognition.**

One funded project from ICSSR has been received by Dr. Narendra Kumar, Deptt. Of HSS, LNMIIT, Jaipur. The assistance received is Rs. 8 Lakh for a period of 2 year (July 2014 to July 2016). The area of research is Nationalism and Post-Colonial Studies and the first research paper has been already published at the reputed conference in India in 2015.

### 3.2.6 List details of –

<b>(a). Research projects completed and grants received during the last four years (funded by National/International agencies).</b>				
<b>Project</b>	<b>Project Title</b>	<b>Principal Investigator</b>	<b>Total Grant</b>	<b>Duration</b>
DST Fast Track Project for Young Scientists	Information Processing with Chaotic Neural Networks	Dr. Manish Dev Shrimali	Rs. 10,87,200/-	April 2009- September 2012
DST-DAAD Project Based Personnel Exchange Program	Synchronization of neuronal networks depending on input signals		Rs. 4,41,000/-	July 2011- June 2013
DST Nano Mission	Computational Nano-engineering of Nanostructures	Dr. Arti Kashyap	Rs. 14,10,000/-	Sept. 2009- Feb. 2013
<b>(b). Inter-institutional collaborative projects and grants received</b>				
All India collaboration	ITRA	Prof. R. Gangopadhyay	INR 102.96 lakh	Three years
International - Nil				

## 3.3 Research Facilities

**3.3.1 What efforts have been made by the university to improve its infrastructure requirements to facilitate research? What strategies have been evolved to meet the needs of researchers in emerging disciplines?**

- ✚ Augmentation of research funding to various departments, existing laboratories and development of new laboratories.
- ✚ Participation in National Knowledge Network (NKN) set up by the Ministry of Human Resources Development (MHRD).
- ✚ Advanced Video Conferencing and Digital Classroom facilities.
- ✚ High-end Infrastructure like HPC (High Performance Computing) - 140 computing cores on 7 Nodes.
- ✚ GPU Server (NVIDIA / K4200 Cards, Multi-Core 2744).
- ✚ Industry-collaborated Labs like Texas Instruments Lab for Microprocessors and Embedded Systems, National Instruments Lab (LabView), IBM Software Lab. IBM India gave a suite of research cum academic software tools in the areas of Big Data and Analytics, Mobile-Cloud Computing, Agilent Advanced Design System (ADS) computing tool.
- ✚ LNMIIT has upgraded the earlier version of MATLAB tools with Campus-wide MATLAB 2015 package.
- ✚ LNMIIT library facilitates access to IEEE, ACM and similar digital libraries for research purposes.

To meet the needs of research in emerging disciplines, the institute has initiated setting up of industry-collaborated laboratories which provide both cutting-edge tools and technical expertise in emerging areas such as Big Data Analytics (using IBM proprietary tools), Cloud Computing, etc. Another facet of institute's strategy is to organize workshops and conferences on a regular basis. The institute also hosts eminent faculty from premier institutes to open channels of collaborated or individual research. LNMIIT offers annual grants to faculty members and students (UG & PG) to present their research papers at national and international conferences.

**3.3.2 Does the university have an Information Resource Centre to cater to the needs of researchers? If yes, provide details of the facility.**

Yes, The institute Library serves as a common information resource center. LNMIIT (under LUSIP program) has developed a web portal to store, search research papers by its faculty and students. See Criterion IV

**3.3.3 Does the university have a University Science Instrumentation Centre (USIC)? If yes, have the facilities been made available to research scholars? What is the funding allotted to USIC?**

The institute makes its Science Instrumentation facilities available to all students and faculty members. E.g. Physics department has a specialized Instrumentation Centre for Material Science Research. See point no. 3.3.5

**3.3.4 Does the university provide residential facilities (with computer and internet facilities) for research scholars, post-doctoral fellows, research associates, summer fellows of various academies and visiting scientists (national/international)?**

Yes. LNMIIT has been providing all the above facilities since inception.

**3.3.5 Does the university have a specialized research center / workstation on-campus and off-campus to address the special challenges of research programs?**

LNMIIT has created Materials Synthesis Division, Advanced Instrumentation Division, Cognitive Radio Research Facility, IBM-LNMIIT Lab, TI-LNMIIT Lab as specialized research centers. All of these can be accessed on campus and a few can be accessed off-campus.

**3.3.6 Does the university have centers of national and international recognition/repute? Give a brief description of how these facilities are made use of by researchers from other laboratories.**

No.

### 3.4 Research Publications and Awards

**3.4.1 Does the university publish any research journal(s)? If yes, indicate the composition of the editorial board, editorial policies and state whether it/they is/are listed in any international database.**

No.

**3.4.2 Give details of publications by the faculty:**

See evaluative reports of the various departments

Item	ECE	CSE	MME	PHYSICS	MATH	HSS	Total	Comments
PAPERS IN NAT/INT J	26	76	18	50	52	15	237	Based on the last five years' available record of the existing faculty
PAPERS IN NAT/INT C	107	59	51	NA	NA	51	268	Based on the last five years' available record of the existing faculty
Monographs	1	1	0	0	0	0	2	Based on the lifelong record of the existing faculty
Book Chapters	4	2	1	2	0	11	20	Based on the lifelong record of the existing faculty
Books	1	0	3	0	0	13	17	Based on the lifelong record of the existing faculty
CITATION INDEX	0-96	0-584	NA	NA	NA	NA	0-584	Based on the last five years' available record of the existing faculty
SNIP	NA	1.4 – 1.8	NA	NA	NA	NA	1.4 – 1.8	Based on the last five years' available record of the existing faculty

SIR	NA	1.2 – 1.5	NA	NA	NA	NA	1.2 – 1.5	Based on the last five years' available record of the existing faculty
Impact Factor	0.64- 9.03	1.4 – 2.0	NA	1 – 4.5	0.522 – 2.806	NA	0.522 – 9.03	Based on the last five years' available record of the existing faculty
h-index	0-4	0-9	0-2	NA	NA	NA	0-9	Based on the last five years' available record of the existing faculty

**3.4.3 Give details of -**

- ❖ **Faculty serving on the editorial boards of national and international journals -**  
Prof. Raghuvir Tomar, Reviewer, ELECTRONICS LETTERS (United Kingdom)
- ❖ **Faculty serving as members of steering committees of international conferences recognized by reputed organizations / societies**  
Prof. Ranjan Gangopadhyay, Prof. Ravi Gorthi, Prof. V. Raghvendra

**3.4.4 Provide details of -**

- ❖ **research awards received by the faculty and students -** Nil
- ❖ **national and international recognition received by the faculty from reputed professional bodies and agencies -**

Prof. Raghuvir Tomar was awarded the life-long fellowship of the Institution of Electronics and Telecommunication Engineers (IETE), India in 2011.

Prof. Vishwanath Sinha became a fellow of Institute of Electrical and Electronics Engineers, USA in 2011.

Prof. Amit Srivastava won the society of defense technologist award (SODET), Gold category in 2011-12

**3.4.5 Indicate the average number of successful M.Phil. and Ph.D. scholars guided per faculty during the last four years. Does the university participate in *Shodhganga* by depositing the Ph.D.**

This institute does not award M.Phil. Degrees. The institute awards M.S. (Masters in Science by Research) and Ph.D. Number of Ph.Ds awarded so far is four (One in Electronics and Communication Engineering, Two in Physics and One in HSS).

***Shodhganga - No***

**3.4.6 What is the official policy of the university to check malpractices and plagiarism in research? Mention the number of plagiarism cases reported and action taken.**

We depend on the journal/conference/thesis-review mechanisms in place within the institute and without. The institute aims to follow UGC guidelines on malpractices and plagiarism in research. On an internal level, there is a strong framework of checks and review. Open-source software like Viper is utilized. A Plagiarism Detection Software from TurnItIn.com has also been ordered.

No violations have been reported.

**3.4.7 Does the university promote interdisciplinary research? If yes, how many interdepartmental / interdisciplinary research projects have been undertaken and mention the number of departments involved in such endeavours?**

Please See 3.1.4

**3.4.8 Has the university instituted any research awards? If yes, list the awards.**

- ❖ Incentive scheme exists for quality publications, patents etc.
- ❖ Faculty receives funding and leave support for external engagements.
- ❖ Flexibility in academic and administrative responsibilities.

**3.4.9 What are the incentives given to the faculty for receiving state, national and international recognition for research contributions?**

Web-site publicity of the accomplishment, higher financial rewards in annual performance review.

### 3.5 Consultancy

**3.5.1 What is the official policy of the University for Structured Consultancy? List a few important consultancies undertaken by the university during the last four years.**

Encouragement to take up sponsored research and consultancy projects. There is no limit on earnings through consultancy projects, however, a charge of 30% of the total consultation fee may be payable to the institute, if institute facilities are used. MME Department has received consultancy worth INR 1,16,821.00 in 2013-14 from Nihon Weld Industrial Welding Corporation, Philippines.

**3.5.2 Does the university have a university-industry cell? If yes, what is its scope and range of activities?**

Industry collaboration is actively pursued by the institute through various channels. Scope includes setting up of co-branded laboratories, joint research, internships, involvement of industry experts in pedagogy etc.

**3.5.3 What is the mode of publicizing the expertise of the University for Consultancy Services? Which are the departments from whom consultancy has been sought?**

Through institute website and individual channels. MME Department has received consultancy worth INR 1,16,821.00 in 2013-14 from Nihon Weld Industrial Welding Corporation, Philippines.

**3.5.4 How does the university utilize the expertise of its faculty with regard to consultancy services?**

The expertise is utilized in carrying out institutional development as is done in a welding project in the MME department. In future such expertise will be utilized in setting up incubation center and startup companies in tune with "Make-In-India" initiative of the Govt. of India.

**3.5.5 List the broad areas of consultancy services provided by the university and the revenue generated during the last four years.**

MME Department has received consultancy worth INR 1,16,821.00 in 2013-14 from Nihon Weld Industrial Welding Corporation, Philippines.

### 3.6 Extension Activities and Institutional Social Responsibility (ISR)

**3.6.1 How does the university sensitize its faculty and students on its Institutional Social Responsibilities? List the social outreach programmes which have created an impact on students' campus experience during the last four years.**

There exists a club named Sankalp under students' Gymkhana which is involved in various social service activities in and around the campus throughout the year. Some of the activities are listed below:

- (a) MWEP: Mess workers education program, year 2010, 2011 and 2012. The members of Sankalp made syllabus comprising of basic subjects, Health issues and other day to day information (like railway ticket booking, bank account, opening voter id card, making them aware of government policies, Knowledge of English, practical Computer knowledge etc) They used to take regular classes in the evening and sometimes showed them good movies. They also play with them to increase the interaction.
- (b) In the last 15 August 2013, Students (and also faculty) served food in lunch with their own hands to the underprivileged mess workers who are working for the students and faculty throughout the year. The students did it to show their gratitude to the mess workers.
- (c) Construction Workers Education Program.-They used to teach children of construction workers and distributed stationary items needed for learning.
- (d) Sweet Distribution and Stationary items distribution to Construction workers on 15th Aug, 26th January, Diwali and other occasion.
- (e) Visit to HLF –Visited Human life foundation which is a trust (like NGO) working on poor slum children. Financial assistance was also given by us (faculty member from LNMIIT is also involved).
- (f) Visit to Surman sansthan: Visited Surman sansthan (an NGO working on orphanage children), distributed sweets and spent time with them. They were also called in Vivacity and other college activities.
- (g) Few members of Sankalp also went to nearby villages to teach girls' children and motivated them for women empowerment.
- (h) Cloth Distribution in winter or in other occasion in city to roadside beggars. Clothes are being collected from campus community from students, staff and faculty members.

- (i) Few NGOs visited our college during vivacity and many of our students worked as volunteer during their camp in vivacity.
- (j) Visited NGOs and trusts like Old age home (for example Indian Council of Social Welfare, Mother Teresa home etc), Orphanage (SOS Balagram) and distributed money and eatables, stationeries and spend time with them.
- (k) Campus tour for school students, giving them an overview of campus life. (Keshav Vidhyapeeth)
- (l) Cleanliness campaign in our institute is being organized on 15 August and 26 January every year to inculcate social responsibility among students.
- (m) Alignment with Swatchh Bharat Abhiyaan by implementing a Clean Campus Drive.

**3.6.2 How does the university promote university-neighborhood network and student engagement, contributing to the holistic development of students and sustained community development?**

Every Week on Friday Sankalp members gather together for a study circle in Student Activity center. The study circle starts with meditation followed by readings from writings of eminent people and saints. The importance of social service, character and moral values are discussed. Sankalp also organizes inspirational lectures on moral issues time to time by calling eminent persons from the society.

A Rural Hackathon is also organized every year, where students visit a nearby village to understand and study societal, entrepreneurial and community problems and offer solutions.

**3.6.3 How does the university promote the participation of the students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International programmes?**

Not applicable, the institute hasn't yet formulated NSS, NCC or YRC programs.

**3.6.4 Give details of social surveys, research or extension work, if any, undertaken by the university to ensure social justice and empower the underprivileged and the most vulnerable sections of society?**

No formal social survey or research has been conducted in this regard. The efforts toward social justice and empowerment are from the glance of community participation than of any formal survey or research.

**3.6.5 Does the university have a mechanism to track the students' involvement in various social movements / activities which promote citizenship roles?**

The students who were involved in teaching villagers and mess workers were issued certificates by the University. In 2012, 68 such certificates were issued.

**3.6.6 Bearing in mind the objectives and expected outcomes of the extension activities organized by the university, how did they complement students' academic learning experience? Specify the values inculcated and skills learnt.**

The students who were involved in teaching underprivileged sections of society get a wider perspective of the society, and also improve their teaching skills, ethics, and morals. This significantly helps in academic learning experience.

**3.6.7 How does the university ensure the involvement of the community in its outreach activities and contribute to community development? Give details of the initiatives of the university which have encouraged community participation in its activities.**

Neighboring schools are invited to the institute's Foundation Day. Desktop computers were distributed to schools on Foundation Day in 2014. External dignitaries and media are also invited and participate in large numbers. Apart from this, faculty members also reach out to local schools to deliver special lectures and career counseling.

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

### 3.7 Collaboration

**3.7.1 How has the university's collaboration with other agencies impacted the visibility, identity and diversity of activities on campus? To what extent has the university benefitted academically and financially because of collaborations?**

- (i) IIT-Patna (academic and research interaction)
- (ii) Ministry of Information and Communication, Government of India (academic interaction)
- (iii) IIT-Kharagpur (academic and research interaction)
- (iv) Scuola Superiore Sant'Anna, Pisa, Italy (academic interaction)
- (v) NATEL Engineering Co., California, U.S.A. (RF Circuit Design)

Impact: Joint research is one direct result from these (and such) collaborations. As another consequence, few students have gone to partner institutes like IIT Patna, Sant'Anna- Pisa, etc. for carrying out part of their research work.

**3.7.2 Mention specific examples of how these linkages promote**

- ✚ **Curriculum development:** Advanced research techniques become part of curriculum at various stages of education
- ✚ **Internship:** Quite a few students get Internship offers because of these linkages
- ✚ **On-the-job training:** No
- ✚ **Faculty exchange and development:** Yes (e.g. Mr. Sunil Kumar)
- ✚ **Research:** A joint research proposal has been submitted with Scuola Superiore Sant Anna (Italy) to the Italian Government Publications Ten joint research publications have appeared over the last ten years between LNMIIT and NATEL Engineering Co., Inc., California, U.S.A.
- ✚ **Consultancy:** Nil
- ✚ **Extension:** Nil
- ✚ **Student placement:** Nil
- ✚ **Any other (please specify):** None

**3.7.3 Has the university signed any MoUs with institutions of national/international importance/other universities/ industries/corporate houses etc.? If yes, how have they enhanced the research and development activities of the university?**

S. No.	Name of the Organization	MoU signed on	Valid Till	Academic / Industry
1	National Ilan University, Taiwan	31.12.2015	For 5 years	Academic (Exchange of students/faculty, Exchange of documentation and research material Coordination in joint or collaborative research projects etc.)
2	A.N. Nesmeyanov Institute of Organoelement Compounds of Russian Academy of Sciences, Moscow	15.12.2015	-	Joint Research Project
3	IBM, Bangalore	First P.O dated 26.08.2014* (No date written in the MOU)	For 5 years	Industry
4	TPC Committee and Research Publishing Services thro' its subsidiary C&M Consultants, Singapore ("Publisher-PCO)	19.09.2015		Industry – For conducting Conference – proposed dates 21-24, 2016

S. No.	Name of the Organization	MoU signed on	Valid Till	Academic / Industry
5	Microsoft India (R&D) Private Ltd., Bangalore	20.08.2015	19.08.2016	Industry – Conducting Technical Talks & Providing/Training Microsoft Platform based curriculum for Students/Faculty
6	Collabera Technologies Private Limited, Vadodara, Gujarat	20.10.2015	Open – Will remain in force until & unless terminated by either party by prior notice	Industry – Training for students, assistance in placements, industrial visit, assistance in paid internships/live projects etc.
7	SAP, Bangalore	12.10.2015	3 years	Industry
8	Endeavor Careers Pvt. Ltd., Ahmedabad	20.12.2014	January, 2016	Industry – Career Options/Counselling and Guidance/Training for competitive exams etc.
9	Kristianstad University, Sweden	13.01.2015	3 years	Academy – Student Exchange Program
10	University of L'Aquila, Italy	16.01.2014	4 years	Academy – Student Exchange
11	Lomonosov Moscow State University, Russia	15.08.2013	3 years	Academy Student/Faculty/Scholars/Staff Exchange, Research collaboration
12	Karaganda State Industrial University, Temirtau, Kazakhstan	27.05.2013	-	Academy – Student Exchange
13	Scuola Superiore S. Anna, Pisa	28.10.2008	-	Academy – Preparation of a Technology and Scientific cooperation program
14	University of Nebraska-Lincoln, USA	30.11.2010	5 years	Student Exchange
15	Aalborg University of Denmark	15.08.2007	2012	Joint Research

**3.7.4 Have the university-industry interactions resulted in the establishment / creation of highly specialized laboratories / facilities?**

Yes. Texas Instruments Lab for Microprocessors and Embedded System, National Instruments Lab, IBM Software Technologies Lab.

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

- (a) Rs. 1 lakh (Annual) Research Grant is given by the institute to all Faculty Members
- (b) Regular visits by leading researchers from within the country as well as from abroad are arranged by the institute.
- (c) The institute encourages its faculty members to organize National/International Conferences by providing financial assistance. Participation by faculty members in the conduct of major national and international conferences is encouraged.
- (d) Participation by senior faculty members in DST committees, in AICTE committees, in Faculty Development Programs conducted by other institutes, and in Governing Bodies of other Organizations/Institutions is actively encouraged by the institute.

## **Criterion IV:** **INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

#### **4.1.1 How does the university plan and ensure adequate availability of physical infrastructure and ensure its optimal utilization?**

Our institute has been keeping pace with the changing needs and requirements to meet its academic growth. To keep pace with the needs and requirements, additional infrastructure is being added from time to time. The physical infrastructure of the institute is very well endowed to meet the needs of more than 1200 students. The infrastructure has been augmented over the years in response to growing needs. The residential accommodation and the hostels have near 100% occupancy. The classrooms are optimally utilized by mirroring the time table and spreading the class hours from 8:00 am in the morning until 6:00 pm in the afternoon. The classes are spread across to minimize crowding in the mess while offering a more efficient use of the mess. The laboratory hours are planned so that different and small groups of students get hands on experience. The students get ample time on the sports fields also.

#### **4.1.2 Does the university have a policy for the creation and enhancement of infrastructure in order to promote a good teaching-learning environment? If yes, mention a few recent initiatives.**

Yes, Good and modern infrastructure definitely facilitates the better teaching learning process. Project management and maintenance committee (PMMC), an arm of GC, looks at the infrastructure requirement and acquire what is needed. As per the policy, the institute has already developed good infrastructure such as IT labs, Internet with Broadband/Wi-Fi connection within the college campus, Smart classroom with 1 Gbps connectivity with National Knowledge Network, Library with reading room, well equipped laboratories, Canteen, Transport facility, Playground, Boys & Girls in campus hostel. The institution has also planned to provide separate modern infrastructure for research activities.

As a practice, at the time of annual budget preparation, the Director solicits from HODs and HOSs the proposals and requirements for creation of new infrastructure or up-gradation of existing facilities. Apart from this, the HODs and HOSs meet monthly and Deans meet every week with the Director to discuss operational and policy matters.

Initiatives include smart classroom, MIS system, Mechanical-Mechatronics building with state-of-the-art laboratories and a workshop. TI and NI labs are recent examples of infrastructure expansion and up-gradation.

#### **The details of the facilities available with the institution are as under:**

##### **(a) Curricular and co-curricular activities –**

Classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, specialized facilities and equipment for teaching, learning and research etc. The institute is endowed with excellent physical infrastructural facilities to support the teaching-learning process. The main campus is spread over 100 acres (404686 meter<sup>2</sup>) of land. A master plan has been prepared for the campus. Our institute has spacious seminar/conference halls, adequate number of classrooms, well equipped laboratories, chambers for the faculty and discussion room to facilitate the academic programs. The Central Library with adequate space, large number of books and journals, Internet, and other support facilities is located at the central place. The infrastructure involves spacious AV media and Wi-Fi enabled classrooms, proper lighting and ventilation, seating arrangement with proper visibility for both students and teachers. The institute has hostel facility for girls and boys. It has a cafeteria to serve food and refreshments to staff, students and guests.

It has facilities for High Performance Computing, IBM Lab, TI Lab and NI Lab.

##### **(b) For curricular and co-curricular activities:**

- (i) Class rooms:** Our institute has spacious AV and Wi-Fi media enabled class rooms with seating capacity of 200 and 100 students with proper lighting, ventilation and podium.
- (ii) Technology Enabled learning facility:** The institute has ICT Classrooms where the provision of OHPs, Multimedia learning, Wi-Fi connectivity and internet access is given.

**(iii) Seminar Hall:** The institute does not have separate seminar hall(s). Being AV and Wi-Fi enabled, any class room can be converted into seminar hall depending on anticipated / expected audience. Additionally there is a video conferencing in a room with a seating capacity of about 25. These facilities are regularly used for conducting institute, state, national and international level seminars. Students are encouraged for active involvement in paper presentations, group discussions.

**(iv) Tutorial rooms:** Any available class room is used for conducting tutorials / remedial classes as the facilities in the academic area are available from 7:00 AM to 10:00 PM on all days including holidays.

**(v) Laboratories/Workshops:** The institute has well equipped laboratories, each of them equipped with state of the art laboratory equipment. These labs are also utilized for students to do their projects.

**(vi) Specialized Facilities and equipment available for teaching, learning and research:** To promote teaching and learning we have facilities like LCD projectors, OHP's and also audio visual equipment through which Skype sessions and remote workshops can be conducted.

**(c) Extracurricular activities –**

The institute encourages and provides facilities for students to participate in outdoor games like football, volleyball, basketball and cricket, and indoor games like chess, carom, squash, table tennis, and badminton. The institute also has a team which actively undertakes social welfare activities like blood donation, clothes and books distribution to the needy. The institute has an Outdoor Sports Ground for sports activities and a Health Center to meet the diagnostic and medical treatment of students and staff.

- ❖ **Sports:** The institute has always created a niche for itself in the field of sports. The institute has since long, been participating in various inter university, regional and national level tournaments. In sports, our institute provides facilities for both indoor and outdoor games to the students.
- ❖ **Outdoor Games:** A spacious playground is available for outdoor games like cricket, volleyball and football.
- ❖ **Indoor Games:** Facilities for the indoor games like Badminton, Table Tennis, Chess, Carom, etc., are provided to students in the campus.

**4.1.3 How does the university create a conducive physical ambience for the faculty in terms of adequate research laboratories, computing facilities and allied services?**

HPC, TI, NI Labs, Physics Labs, MME Labs, Dedicated Research Labs and specialized research equipment/software (e.g. VNA- Vector Network Analyzer, Spectrum Analyzer, Advanced Design System from Agilent, etc.) are the hallmarks of the university to augment research. A research grant of Rs. 1.0 lakh is allocated to each faculty member per year. The grant can also be utilized to buy equipment, books and software, instruments etc. The institute also provides desktop, laptop and printer to each faculty member. The library also hosts a common bulk printing facility to be utilized for academic purposes by faculty.

- ❖ Video-conferencing facility is provided for conducting remote vivas and academic interactions.
- ❖ Smart classrooms, with networked I/O facilities and connected classrooms, dedicated IT personnel to help Faculty deliver a lecture using multimedia enhances teaching and learning.
- ❖ Tea Lounge in the academic area acts as a recreational space as well as a hub of intellectual discussion.

**4.1.4 Has the university provided all departments with facilities like office room, common room and separate rest rooms for women students and staff?**

Being a lean-organization, not every department has common rooms. However common facilities like meeting rooms and conference rooms and VC rooms are utilized by all departments for effective purposes. Washrooms and restrooms- separate for gents and ladies- are available on each floor in every building. Board-room and tea-room are common to all.

**4.1.5 How does the university ensure that the infrastructure facilities are disabled-friendly?**

The institute has ramps and lifts for differently-abled persons.

#### **4.1.6 How does the university cater to the requirements of residential students? Give details of –**

The campus is fully residential. Details are provided as below:

- ⊕ **Capacity of the hostels and occupancy (to be given separately for men and women):**

**Girl's hostel: 01**

- (i) Single bedrooms: 126
- (ii) Double bedrooms: 124
- (iii) Guest Rooms: 02
- (iv) Sick Rooms: 02
- (v) Common Rooms: 06
- (vi) Capacity of girl's hostel: 374

**Boy's hostel: 03**

- (i) Single bedrooms: 316
- (ii) Double bedrooms: 327
- (iii) Guest Rooms: 08
- (iv) Sick Rooms: 02
- (v) Common Rooms: 11
- (vi) Capacity of boy's hostel: 970

- ⊕ **Recreational facilities in hostel/s like gymnasium, yoga centre, etc.**

Yes, like gymnasium, yoga and martial arts facility, TV rooms, table-tennis tables, badminton courts, reading room, etc.

- ⊕ **Broadband connectivity / Wi-Fi facility in hostels.**

Yes, Broadband/ Wi-Fi facility is available in hostels.

#### **4.1.7 Does the university offer medical facilities for its students and teaching and non-teaching staff living on campus?**

Yes, institute offer medical facilities for its students, teaching, and non-teaching staff living on campus round-the-clock doctor, round-the-clock nurse, Emergency care, round-the-clock ambulance service, routine Medicare, tie-up with a nearby hospital for immediate referral/treatment. The institute also has its physiotherapy centre. Specialist doctors visit the campus on regular basis. Time-to-time health camps, vaccination programs, blood donation camps are also organized. As a policy, the institute provides facilities like medical insurance and cash-less treatment for students, staff and faculty members.

#### **4.1.8 What special facilities are available on campus to promote students' interest in sports and cultural events/activities?**

Yes, there are various facilities available on campus to promote students' interest in sports and cultural events/activities. These are -

- ⊕ **Sports:** Sports complex, playground, Table Tennis Tables, Squash and Badminton Courts, Basketball courts, Squash Court etc. Sports trainers are available for students, including one full-time PTI.
- ⊕ **Co-curricular activities:** Students Activities Centre, Music Centre, Dance Room, Robotics Club, Sankalp Room (Students' Social Responsibility Club).
- ⊕ **Students have** their own Students' Gymkhana with Students' Senate, Convener, President, Cultural Secretary, Games Secretary, Senators and student representatives from each batch. Student representatives are elected through election every year, under the guidance of a faculty member. There also exist a large number of hobby clubs under Student Gymkhana to help students practice and develop their extra- curricular skills.
- ⊕ **Cultural events/activities:** Vivacity (Cultural festival), Plinth (techno-management festival), Desportivos (Sports festival)

## 4.2 Library as a Learning Resource

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

Yes, the Library is managed under the supervision of an Advisory Committee called the Library Committee (AC-LC). Any decision regarding library matters is finally taken by the Library Committee.

#### **Library Advisory Committee:**

- (i) Dr. K. K. Khatri (Chairman)
- (ii) Dr. Narendra Kumar
- (iii) Dr. Soumitra Debnath
- (iv) Dr. Manish Singh
- (v) Dr. Akhlaq Hussain
- (vi) Mr. Mukesh Jadon
- (vii) Mrs. Shweta Pandey (Assistant Librarian)
- (viii) Student Member

#### **Major responsibilities of the committee are as follows:**

The Library Advisory committee helps library to formulate development plans, policy and recommends facilities. The committee gives guidelines for the procurement of books, e-journals, hardware and software necessary for the library. Recently decisions carried by committee are:

- (i) Renovation of the Library
- (ii) Implementation of RFID
- (iii) Committee plays an important role in increasing the no. of online databases, e-books, print journals, magazines, books and other resources to provide the better services to the library users.
- (iv) Previous year's question bank in the digital library
- (v) Adequate manpower to manage the library and
- (vi) Help in streamlining of the library collection procedures and services.

All decisions relating to the purchase of the books / journals and e-resources from the library budget are taken by the committee.

### 4.2.2 Provide details of the following:

#### Total area of the library (in sq. mts.):

- (a) Library existing – 535.903 meter<sup>2</sup>
- (b) Library extension – 689 meter<sup>2</sup>

#### Total seating capacity: 180 users at a time

#### Working hours:

- (a) Monday to Saturday – 09:00 AM to 11:00 PM
- (b) Sundays and Holidays – 10:00 AM to 08:00 PM
- (c) During Examinations – 09:00 AM to 12:00 Midnight

#### Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources):

- (a) Reading Carrels - The library has 08 number of small reading carrels that provide exclusive and undisturbed spaces for serious reading of library users.
- (b) Lounge area for browsing - There is a lounge area of 91 square meter approx. for those users who wish to read the technical journals or literary magazines or news-papers.
- (c) Relaxed Reading Capacity - The library has seating capacity of 180 seats to accommodate users for comfortable reading.

#### Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection:

- (a) IT Zone for accessing E-Resources: The library has made available IT Zones (with LAN connectivity and Wi-Fi access) with a good number of computers for users to access e-resources seamlessly.
- (b) Clear and prominent display of floor plan; adequate sign boards; fire alarm; access to differently-abled users and mode of access to collection:
- (c) Clear and prominent display of floor plan: The floor plan is prominently displayed on the notice board in the lobby area as well as on the library portal.
- (d) Adequate sign boards: The library has adequate signage to guide users to the respective service points and resources for their easy access.

- (e) Fire alarm: The library has XXX number of fire extinguisher devices at appropriate places to meet emergency situations.
- (f) Access to differently-abled users and mode of access to collection: The library has a smooth entrance and inside they can move around anywhere in the ground-floor without any hindrances. As of now, we do not have an appropriate provision for differently-abled persons to reach the first-floor.

#### 4.2.3 Give details of the library holdings:

a.	Print (books, back volumes and theses)	16000
	▪ Back Volumes	Nil
	▪ Ph.D. (Thesis & MS)	60
b.	Average number of books added during the last three years	1000
c.	Non Print (Microfiche, AV): CD/DVD	1440
	▪ Books	895
	▪ Magazines	545
d.	Electronic	
	▪ e-books	111
	▪ e-journals	Journals are accessed by subscribed database (08)
e.	Special collections	
	▪ Integrated books (text books + reference books)	3500
	▪ Standards	Nil
	▪ Patents	Nil
f.	Question Banks	The libraries maintain Question papers both in print and digital forms for last 2-3 years
g.	Periodicals	51

#### 4.2.4 What tools does the library deploy to provide access to the collection?

OPAC (Online Public Access Catalogue)	It can be accessed through intranet URL
Electronic Resource Management package for e-journals	We subscribe to Online databases providing access to e-journals. The access of these database is based on the IP addresses. The users can access these databases from anywhere in the campus including Library, Hostel, Staff quarters, Faculty Chambers, etc.
Federated searching tools to search articles in multiple databases	No direct access from the Publishers platform.
Library Website	Library has own page to provide access to various services as well as Databases, E- Books, Online Public Access Catalogue (OPAC), e-Journals, Institutional repositories etc. besides giving detailed information about the library, Rules and regulations, timings and the necessary contact details.
In-house / remote access to e-publications	The institutional repositories include Papers presented in conferences like slide presentations, Institute publications, reports, etc.

#### 4.2.5 To what extent is ICT deployed in the library? Give details with regard to:

- ❖ **Library automation** – Library is well equipped with RFID technology and all in-house activities operated by software "LibMan". Recently library has introduced RFID security check point system through the software LibMan.
- ❖ **Total number of computers for general access** – 14 Computers
- ❖ **Total numbers of printers for general access** - 02 printers and 02 scanner
- ❖ **Internet band-width speed** - 100 Mbps
- ❖ **Institutional Repository** - Repository is built on open sources software platform for archiving of Institutional capital asset e.g.: Faculty publications, Thesis, dissertations, BTP report of students.

- ⊕ **Content management system for e-learning** - Development on CMS on OSS is under process
- ⊕ **Participation in resource sharing networks/consortia (like INFLIBNET)** -  
Library has the membership of DELNET and also initiated the institutional membership of IIT Gandhinagar and planning to extend the participation and membership from few other reputed institutes and research organizations in the coming years

#### **4.2.6 Provide details (per month) with regard to:**

Average number of walk-ins	6750
Average number of books issued/returned	2976
Ratio of library books to students enrolled	5:1
Average number of books added during the last four years	1000
Average number of login to OPAC (per month)	3856
Average number of login to e-resources	1516
Average number of e-resources downloaded/printed	2829
Number of IT (Information Technology) literacy trainings organized	02

#### **4.2.7 Give details of specialized services provided by the library with regard to: -**

- (1) **Manuscripts:** No
- (2) **Reference:** Library has separate section of Reference resources which include subject and general reference collection.
- (3) **Reprography/Scanning:** The Library provides photocopy and scanning services on subsidized rates to both the students and faculty. Strictly adhering to the copyright laws.
- (4) **Inter-library Loan Service:** The members of the library can avail Inter Library Loan (ILL) services to obtain the material that are not available. Library has the membership of DELNET and Institutional membership of IIT Gandhinagar and also planning to extend this service by having membership from several other reputed associations and institutions.
- (5) **Information Deployment and Notification:** Information is usually sent through mail. Notification of several useful information is also put on notice board which is timely updated. The Members receive e-mail intimations when they borrow, return or reserve the books. Also when the books are overdue, they receive reminders. Library notifications are sent through e-mail.
- (6) **OPACs:** This service is provided to all users for accessing the database of books and other resources. The accessibility is made available within campus. Many useful features like reservation, borrower history and loan items etc are also made available through OPAC to users.
- (7) **Internet Access:** Library is fully automated with Wi-Fi. There is separate section "Digital library" that has been provided with Internet accessibility.
- (8) **Downloads:** Download facility is offered on subscribed e-resources, syllabus, e-mail data, search material from google.com.
- (9) **Printouts:** Printout services are also offered to students as and when demanded.
- (10) **Reading list/ Bibliography compilation:** This service is managed by Library Automation Software. Through new arrivals of books and periodicals we are making users aware of it. Every month a list of new arrivals is sent to all Faculty, students and Research Scholars.
- (11) **Institutional Repository:** Library has the internal repository in which faculty publications, students BTP reports and Questions papers are stored. The Digital Library is built on open source software i.e D Space.
- (12) **In-house/remote access to e-resources:** Yes, The libraries provide IP & Wi-Fi enabled access.
- (13) **User Orientation:** Library conduct User orientation course for new users to make them acquainted about library's resources and services from time to time. Beginning of every academic session, the newly admitted students are given orientation. Training on using different databases are also conducted. Besides this, we also organize, database training sessions for the benefit of Faculty and students.
- (14) **Assistance in searching Databases:** Through reference service library staff facilitates this service from time to time.
- (15) **INFLIBNET/ IUC facilities:** Library has the participation of INFLIBNET consortia for the subscription of resources and the other offered services.

**4.2.8 Provide details of the annual library budget and the amount spent for purchasing new books and journals.**

<b>Holdings</b>	<b>Total Cost</b>	<b>Total Number</b>
<b>2010-2011</b>		
Books	665538	1494
Print Journals +Magazines	31580	24
E-Journals/E- resources	1008480	05
<b>2011-2012</b>		
Books	444129	1285
Print Journals +Magazines	63750	29
E-Journals/E- resources	1131558	05
<b>2012-2013</b>		
Books	718712	1331
Print Journals +Magazines	47812	28
E-Journals/E- resources	1259567	05
<b>2013-2014</b>		
Books	973660	1030
Print Journals +Magazines	92435	42
Institutional Membership	16500	01 (Delnet)
E-Journals/E- resources	1951594	07
<b>2014-2015</b>		
Books	642143	548
Periodical +Magazines (Print)	76698	45
Institutional Membership	36500	02 (Delnet & IIT Gandhinagar)
E-Journals/E- resources	1814684	07
<b>2015-2016</b>		
Books	581347	600
Periodical +Magazines (Print)	97316	51
Institutional Membership	21500	02 (Delnet & IIT Gandhinagar)
E-Journals/E- resources	3930335	08

**4.2.9 What initiatives has the university taken to make the library a 'happening place' on campus?**

- Library had facilitated user orientation programs to new students about library resources and services offered.
- Book exhibitions on campus are organized from time to time to facilitate faculty members to select the useful books needed for teaching and research.
- Library has also initiated few attractive services for their users like – Research highlights in various engineering and its allied areas and News Alerts service on higher education.

**4.2.10 What are the strategies used by the library to collect feedback from its users? How is the feedback analyzed and used for the improvement of the library services?**

Yes, Library takes feedback from students from time to time. Library also entertains students' suggestions through the "Suggestion Register" kept at the entrance gate and through e-mail. Complaints and suggestions are addressed timely. Interactive session of library advisory committee with student members of library committee is organized to get feedback for improvement of library services. The valuable suggestions given by their users are analyzed by the library committee and incorporated into action plan and implemented from time to time to upgrade the library services and make it more user-friendly.

**4.2.11 List the efforts made towards the infrastructural development of the library in the last four years.**

- (a) **Library Extension:** Extension of library building to "secure" and "serious learning" environment providing a good "Reference Book" section. "General technical book section" and a large reading space and few sound proof cubicles.

- (b) **Library Automation:** Library has been shifted to new software using library automation software "LibMan" and OPAC is made available to students, faculties and staff. RFID security is also deployed with the software.
- (c) **Internet/digital library Facility:** A digital library service has been established using open source software "DSPACE" to facilitate access of digital resources.
- (d) **Reference/ Reserve books:** Separate section for reference and text book has been made in the extension building.
- (e) **Photocopy:** A photocopier cum printing machine installed to provide photocopy/printing facilities to the students.
- (f) **Archive Section of Journals:** Library has an archive of back issues of journals and magazines. It is frequently used by students and faculties for their research purpose.
- (g) **BTP Reports section:** Library also have the students' report and thesis section.

### 4.3 IT Infrastructure

#### 4.3.1 Does the university have a comprehensive IT policy with regard to:

- ✚ IT Service Management - Yes
- ✚ Information Security - Yes
- ✚ Network Security - Yes
- ✚ Risk Management - Yes
- ✚ Software Asset Management - Yes
- ✚ Open Source Resources - Yes
- ✚ Green Computing - Yes

#### 4.3.2 Give details of the university's computing facilities i.e., hardware and software.

- ✚ **Number of systems with individual configurations** - Desktops 393, Laptops 51, Printers 80
- ✚ **Computer-student-ratio** - 1:3 approximately
- ✚ **Dedicated computing facilities:**

In addition to departmental computing facility, the institute has a central computing facility which has dedicated laboratories with desk tops and dedicated compute servers. These facilities can be used by faculty, students and departments. These facilities are created with a view to meet the academic computing needs of the user community.

- ✚ **LAN facility:**

All the administrative sections and academic departments on the campus are connected through the campus wide network. The entire network has been set up using standard fiber optic backbone technology for long haul links and cat V/VI structured copper cabling within the building. The unlimited twenty four hours internet connectivity is available through Two Leased line one from BSNL 1Gbps (National Knowledge Network) and other one is MTS 50Mbps. All the departments connected through LAN to access the Internet services.

- ✚ **Proprietary-software:**

- (i) MICROSOFT WINDOWS (Volume License)
- (ii) ESET ENDPOINT ANTIVIRUS
- (iii) ISE XILINX
- (iv) MATLAB
- (v) GLOBARENA
- (vi) MODEL SIM/MICROWIND
- (vii) SOLID STAT WORK
- (viii) ADVANCED DESIGN SYSTEM (ADS)
- (ix) Ansys-Fluent

- (x) MSc ADMS
- (xi) Robo Analyzer
- (xii) Auto Desk
- (xiii) Lab View
- (xiv) VI Rail

**Open Source:** Linux, Acrobat Reader, WinRAR, Firefox, Open Office

 **Number of nodes/ computers with internet facility** - 444 (desktops 393, laptops 51)

 **Any other (please specify):** Open-Source Resources: LINUX (FEDORA/UBUNTU/CENT OS), ACROBAT READER, WIN RAR, FIREFOX, OPEN OFFICE

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

The entire institute including the hostels is connected on high-speed LAN. Academic area is fully Wi-Fi equipped. Plans are afoot for full Wi-Fi access in the entire campus in the second-phase of Wi-Fi campus project.

#### **4.3.4 Give details on access to on-line teaching and learning resources and other knowledge and information database/packages provided to the staff and students for quality teaching, learning and research.**

QEEE, NPTEL videos, YouTube educational content, Online Webinar

#### **4.3.5 What are the new technologies deployed by the university in enhancing student learning and evaluation during the last four years and how do they meet new / future challenges?**

See 4.3.3 and 4.3.4

#### **4.3.6 What are the IT facilities available to individual teachers for effective teaching and quality research?**

Desktop Computer with Printer, and all software tools needed for effective teaching and quality research.

#### **4.3.7 Give details of ICT- enabled classrooms/ learning spaces available within the university? How are they utilized for enhancing the quality of teaching and learning?**

Smart Board, helps faculty in improving presentations in the classroom.

#### **4.3.8 How are the faculty assisted in preparing computer- aided teaching-learning materials? What are the facilities available in the university for such initiatives?**

Software tools and Smart Board are available.

#### **4.3.9 How are the computers and their accessories maintained?**

For maintaining the computers and accessories, institute has given AMC to WIPRO. WIPRO team (three members) and one member from institute are enduring the maintenance and administration activity in campus.

#### **4.3.10 Does the university avail of the National Knowledge Network connectivity? If so, what are the services availed of?**

Yes, 1 Gbps leased line from BSNL.

#### **4.3.11 Does the university avail of web resources such as Wikipedia, dictionary and other education enhancing resources? What are its policies in this regard?**

Yes. The policy is to provide unrestricted access to such resources.

#### **4.3.12 Provide details on the provision made in the annual budget for the update, deployment and maintenance of computers in the university.**

As and when request is made by the faculty, students and other stakeholders.

#### **4.3.13 What plans have been envisioned for the gradual transfer of teaching and learning from closed university information network to open environment?**

Computing servers like HPC, GPU are opened for use by outsiders. Lecture notes and course materials for many courses are posted on Google sites open to everyone in the world.

## 4.4 Maintenance of Campus Facilities

### 4.4.1 Does the university have an estate office / designated officer for overseeing the maintenance of buildings, class-rooms and laboratories? If yes, mention a few campus specific initiatives undertaken to improve the physical ambience.

Yes, the institute has an estate office. The institute has 100 acre (404686 meter<sup>2</sup>) green and clean campus that gives it a very serene and majestic look. The building and the open area ratio is ideal which makes it very healthy and livable place. The seismic zone factor towards the construction of our campus is in place and all our buildings are protected against such calamity. We also have adequate provision against fire hazard.

For the maintenance of buildings, class-rooms and laboratories, most of the services are outsourced and are carried out under the supervision of regular employees of the institute to ensure that the faculty and students get the best and are focused on their primary task of teaching and learning. The following services are outsourced:

- House Keeping
- Gardening
- Transport
- Security
- Student messes.

### 4.4.2 How is the infrastructure facilities, services and equipment maintained? Give details.

The institute has clearly demarcated places for the sensitive equipment like electricity generators, water purifiers, chemicals and scientific instruments. The laboratory staff keeps a strict vigil regarding the maintenance and upkeep of the scientific instruments and Chemicals. Their repair or replacement or another required upkeep is fully undertaken in their supervision. Similarly, the institute electrician and civil maintenance staff are responsible for the upkeep of all the facilities and their maintenance. To consider the needs of the students and the staff members towards maintenance of the infrastructure and equipment and to procure new equipment to augment the laboratory facilities, budget is allocated. These allocations are generally made yearly and are utilized periodically.

### To provide an uninterrupted maintenance, following AMC's is in place

- Water cooler
- R.O.
- Ducts
- A.C.

## **Criterion - V:** **STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

**5.1.1 Does the university have a system for student support and mentoring? If yes, what are its structural and functional characteristics?**

The institute is fully residential for the students and partially for faculty/staff. This facilitates formal and informal, academic and extra-academic support and mentorship at all times.

**Following are the formal support systems:**

- |                            |                              |  |
|----------------------------|------------------------------|--|
| <b>(a)</b> Counseling Cell | <b>(b)</b> Anti-Ragging Cell | <b>(c)</b> Committee for Prevention of Sexual Harassment |
| <b>(d)</b> Class Committee | <b>(e)</b> Alumni cell       | <b>(f)</b> Student Gymkhana                              |
|                            |                              | <b>(g)</b> Medical Centre                                |

Besides counseling cell which enable the first year students to socially culturally and academically adjust to the new environment; comprises of faculty members and senior students. It engages newly admitted students (UD and PG) in familiarizing with the existing infrastructure and functionalities of the institute. The role of Anti-Ragging Cell and Committee for Prevention of Sexual Harassment is to promote awareness, take preventive measures and to take action in case of any untoward incident. The class committee comprises faculty members and student representative dealing academic matters related to each and every course.

In addition, the growing alumni network, co-ordinate actively by students in the Alumni Cell, gives students easy access to their seniors who are in the field of their interest. Apart from the aforementioned support systems currently two ombudspersons have also been assigned to provide an opportunity to the students to discuss any personal or professional issue.

Student also has an easy access to faculty and the administration. Hostel wardens and associate wardens are resident faculty members, which further enhances access at all times. Student interaction in the peer group and the student community is encouraged and promoted through regular activities of various clubs during academic year along with annual technical, sports and cultural festivals.

The institute has OPD facility which is managed by Resident Medical Officer along with medical specialists and male and female medical attendants who look after the physical, mental and psychological welfare of the campus community. Student, Faculty and Staff are provided with medical insurance covering hospitalization and treatments for serious ailment. The institute has state of the art ambulance. Medical staff provides diagnostics and simple medicines to the surrounding neighborhood population as the part of CSR.

**5.1.2 Apart from classroom interaction, what are the provisions available for academic mentoring?**

Each faculty member announces designated hours for student interaction. Academic mentoring is carried out by each faculty member inside and outside-the-classroom contact hour. Other than that Need-based counseling also plays an important role.

**5.1.3 Does the university have any personal enhancement and development schemes such as career counselling, soft skill development, career-path-identification, and orientation to well-being for its students? Give details of such schemes. Yes.**

**(i) Personality development:**

Through social club, called Sankalp, personality development is facilitated; the well-being aspect is facilitated through yoga and martial arts classes, and through sports activities. Workshops on orientation to well-being such as "Art of Living" are also organized periodically to motivate the students, which also provide a platform for interaction between experts and students.

**(ii) Career counseling:**

Career counseling is carried out through Training & Placement Cell, Soft-skills development is carried by intensive workshops of fixed duration.

**(iii) Career-path identification:**

Through personal discussions with faculty member at individual level, sessions by experts from academia, industry and alumni.

#### **5.1.4 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Yes. Banks are invited to set up stalls on campus for the sake of educational loans during admission and student requests for loans are pursued with bank officials. The institute's name figures in the list of institutions identified for disbursal of loans by Nationalized and Private Banks.

**5.1.5 Does the university publish its updated prospectus and handbook annually? If yes, what are the main issues / activities / information included / provided to students through these documents? Is there a provision for online access?**

Yes. The institute brochure, admission brochure and placement brochure are published annually. These brochures contain information on Institute Profile, Academic Programs, Departmental Profiles, Fee Structures, Co-curricular and Extra-Curricular Activities, Training and Placement Information, Faculty Profile, Governing Council Profile. The same is available through online access on the institute website. The institute publishes Gazettes in electronic form twice in a year highlighting various academic and non-academic activities.

**5.1.6 Specify the type and number of university scholarships / freeships given to the students during the last four years. Was financial aid given to them on time? Give details (in a tabular form) for the following categories: UG/PG/M.Phil/Ph.D./**

*Currently, two types of scholarships are provided to the student -*



So far no student has claimed merit-cum-means scholarship. However, on case by case student who is in a financial distress is provided necessary support.

All M.Tech./M.S./Ph.D. students admitted into the institute have been getting financial assistance at monthly stipend rates revised from time to time, keeping in line with stipends at similar Institutions in the country. Starting July 2013, an additional restriction for stipend eligibility has been imposed that the student should be qualified through Graduate Aptitude Test for Engineering (GATE) and UGC-NET for engineering and other departments, and through other similar qualifying tests for non-engineering departments.

**5.1.7 What percentage of students receive financial assistance from state government, central government and other national agencies (Kishore Vaigyanik Protsahan Yojana (KVPY), SN Bose Fellow, etc.)?**

Since such financial assistance is not administered by the institute no reliable data is available.

#### **5.1.8 Does the university have an International Student Cell to attract foreign students and cater to their needs?**

Not yet, as only one international student is currently enrolled. However, admission brochures and posters are sent to the schools outside country to attract potential students. They are admitted with the valid SAT -II score.

### **5.1.9 Does the university provide assistance to students for obtaining educational loans from banks and other financial institutions?**

Mentioned in the section 5.1.4

### **5.1.10 What types of support services are available for –**

- ## Overseas students:

Same as the facilities available to Indian students. Parents are informed about progression from time to time.

- #### Physically challenged / differently-abled students:

Wheelchair ramps at critical locations exist. There are few rooms in the hostel with adequate and necessary support facility.

-  SC/ST, OBC and economically weaker sections:

For economically weaker students merit cum means scholarship is available.

- #### Students participating in various competitions/conferences in India and abroad:

Partial financial support is provided as per the prevailing institute guidelines.

- ⊕ **Health centre, health insurance etc.:**  
Health insurance, on-campus Health Centre, 24x7 ambulance service, physiotherapy centre.
- ⊕ **Skill development (spoken English, computer literacy, etc.):**  
Soft-skills workshops, Remedial classes for English proficiency
- ⊕ **Performance enhancement for slow learners:**  
Voluntary Remedial classes, provision for repeating course for grade improvement, summer courses, etc.
- ⊕ **Exposure of students to other institutions of higher learning/ corporate/business houses, etc.:**  
The institute facilitates the students' short term summer internships, full semester exchange programs in academic institute as well as industry.
- ⊕ **publication of student magazines:**  
Student magazine is published annually, Student newsletter/ T&P newsletter is published periodically.

**5.1.11 Does the university provide guidance and / or conduct coaching classes for students appearing for Civil Services, Defense Services, NET/SET and any other competitive examinations? If yes, what is the outcome?**

The institute facilitates on-campus training/guidance by external agencies for exams such as CAT (Common Aptitude Test for IIMs), GRE (Graduate Record Examination) and GATE (Graduate Aptitude Test in Engineering). In the last few years students' performance in CAT and GATE is good, but no formal official record has been maintained.

**5.1.12 Mention the policies of the university for enhancing student participation in sports and extracurricular activities through strategies/ schemes such as additional academic support and academic flexibility in examinations any other (please specify).**

The institute provides ample facilities and opportunities for students to play/perform and compete, internally and externally, in a very wide variety of games and extra-curricular activities. These activities are carried out through the cultural, sports and science & technical councils of the students' senate body, called Students' Gymkhana (details have been provided in the section 5.3.5). Each council has large number of clubs for extracurricular activities, mentored by a faculty member. There is also a full time PT Instructor who resides on campus along with coaches to train, guide and assist students from Yoga to Karate.

- ⊕ **Additional academic support and academic flexibility in:** On a case-by-case basis, special academic leave is sanctioned to the deserving individuals / teams who excel in their respective extra-curricular activities.
- ⊕ **Special dietary requirements, sports uniform and materials:** As advised by the coach / student coordinator, the Mess Committee facilitates special diet to the concerned individual / teams. The institute provides adequate financial grants to various sports clubs to procure relevant sports uniform and equipment on an ongoing basis.
- ⊕ **Any other (please specify):** The institute also provides adequate financial grants to the various science & technology, cultural clubs.

**5.1.13 Does the university have an institutionalized mechanism for students' placement? What are the services provided to help students identify job opportunities, prepare themselves for interview, and develop entrepreneurship skills?**

**Yes, institute has a Training & Placement Cell, which comprises the following members:**

- (i) Two faculty advisors
- (ii) Training and Placement Cell Officer
- (iii) Student team led by a student coordinator

**The placement cell provides following services to the students.**

- (i) Introducing good companies for placement as well as internship opportunities for the students
- (ii) Organizing Industrial Expert Talks and Seminars
- (iii) Organizing Soft Skill and Technical Training for the final year students before placement session
- (iv) Arranging Assessment Test in campus i.e. AMCAT & ELITMUS

**5.1.14 Give the number of students selected during campus interviews by different employers (list the employers and the number of companies who visited the campus during the last four years).**

Year of graduation	Batch Size	Eligible for Placement	% Selected	Salary Package (per annum)	Employers
<b>2015</b>	217	184	84%	3.20 to 25 Lakh	Amazon, Appirio, IBM, TCS, Sapient, Sopra, Nagarro, Amdocs, HCL, Metacube, MindTree, CSC, Socronics, Meditab, Compro, Evive Health, App Perfect
<b>2014</b>	332	280	96%	3.00 to 20 Lakh	Amazon, Samsung, Sapient, TCS, Tech Mahindra, Sopra, Nagarro, Microsoft (PPO), Meditab, Lucideus, IBM, Cognizant, Appirio, App Perfect, App Studio, Black & Green, Compro, FutureFirst, HelpShift, Orange, Pyramid Cyber Solution, QSPEAR, Tera Matrix etc.
<b>2013</b>	198	143	72%	3.20 to 9.00 Lakh	AppPerfect, Capgemini, Finnoit, Mindtree, Samsung, Sapient, TCS
<b>2012</b>	139	114	84%	3.00 to 7.60 Lakh	Samsung, TCS, Mindtree, Indian Army, Patni, Future First
<b>2011</b>	96	75	91%	30 to 8.50 Lakh	TCS, Mindtree, Tech Mahindra, CSC, Patni Future First, Ericsson, Samsung
<b>2010</b>	123	121	75%	3.00 to 5.50 Lakh	TCS, Ericsson, Tech Mahindra, CSC, Sristi Soft, Smart Chip, Future First, Indian Army
<b>2009</b>	114	114	75%	3.00 to 11 Lakh	DESHAW, Patni, CSC, Infosys TCS

**5.1.15 Does the university have a registered Alumni Association? If yes, what are its activities and contributions to the development of the university?**

Not yet, University has an alumni association which has been officially started towards the beginning of this year. It has yet to have its first election to have its office bearers from alumni side. The constitution has been framed and an internal committee comprising of two faculty mentors along with two coordinators from students side has been started.

**Activities:**

- (1) **Regular talks:** Regular talks are organized where alumni from distinguished field either from India or abroad discuss about various career plans as well as research plans.
- (2) **Quiz Competition:** Recently lots of coding quizzes are organized by our alumni. Those who have done well from the university students are being recommended by our alumni to have internship in their companies
- (3) **Newsletter:** Every semester we plan to publish two newsletters. This will contain in short about the news of the institute as well as details of three distinguished alumni from different field.
- (4) **Skype Talks:** Skype talks are organized quite often. Many a times these talks are organized when dream companies visit the campus. The alumni working in these companies give lot of tips to the present students to face the interview.
- (5) **Alumni Meet:** Every year an alumni meet is organized where all the alumni starting from the first batch are invited. They give talks, interact with students and take part in panel discussion.
- (6) **Alumni book:** Every year we plan to publish an alumni book, a PPT file containing achievements of our prestigious alumni in different fields.

**Contributions:**

- (1) **Healthy Interactions with Present students:** Through all these activities there is a healthy interaction between our alumni and present students of LNMIIT. Alumni guide the students in career counseling.
- (2) **Placements:** Alumni help the university in finding potential jobs in different companies
- (3) **Summer Internship:** Alumni help the university in finding opportunities for summer internships
- (4) **Research Guidance:** There are few alumni mostly in abroad who guide the present students in doing some interesting research projects.

**(5) Institute Policy Matters:** Periodically the Director or the other institute officials seek the opinion of alumni in the matters of the institute.

**(6) Brand Ambassadors of the University:** Alumni spread the name and fame of the university by their credible performance. Many of the alumni are very successful entrepreneurs and they are spreading their business all over the world.

**5.1.16 Does the university have a student grievance redressal cell? Give details of the nature of grievances reported. How were they redressed?**

No, however, the purpose of the grievance cell is fulfilled by the following committees and the existence of two ombudspersons:

- (1) **Counseling Cell** – for mentoring and guidance in every aspect of a student's life. Especially for the first year students, the Counseling Cell assigns a faculty mentor for each student.
- (2) **Student Affairs Committee** – This body is a sub-committee of the Academic Council. All discipline related issues are handled by this committee. The body is headed by Dean of Student Affairs, and has student members too for fair representation.
- (3) **Anti-Ragging Committee** – composed of faculty members as well as students. The committee reports to the Director. The committee follows Government of India guidelines and mechanisms in this regard.
- (4) **Departmental Academic Committees** – for redressing grievances of academic nature (e.g. grade arbitration, fair assessment, etc.). The committees are headed by respective Heads of Departments.
- (5) **Committee for Prevention of Sexual Harassment** –As per 'Vishakha' guidelines. So far no cases have been reported.
- (6) **Class Committee:** Class committees of each year in a program comprising faculty and student representatives look into the curricular aspects and issues on teaching and evaluation of a course.
- (7) **Ombudsperson:** Our institute has formally appointed two experienced faculty members as ombudspersons with the objective of interacting with students and addressing grievances if any.

**5.1.17 Does the university promote a gender-sensitive environment by (i) conducting gender related programs (ii) establishing a cell and mechanism to deal with issues related to sexual harassment? Give details.**

- (i) Yes, faculty members are nominated to attend seminars/workshops on gender-related issues, and their recommendations are quickly acted upon. The institute also has the women's cell of IEEE- called WIE. There are seminars / debates on gender sensitization and gender empowerment. Even a part of curriculum in Value Education and Ethics course by the Humanities department has modules on gender sensitization. Students also conduct nukkad nataks and plays on issues like child marriage, female foeticide, etc. for greater awareness.
- (ii) There is a 'Committee for Prevention of Sexual Harassment' which is formed and works as per 'Vishakha' guidelines. So far no cases of sexual harassment have been reported.

**5.1.18 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 in these cases?**

Yes. Anti-Ragging Committee comprises faculty members and student representative. The committee follows Government of India guidelines and mechanisms in this regard. Few minor instances have been reported during the last four years. Proper investigations were conducted upon receiving of complaints, and addressed on merit.

**5.1.19 How does the university elicit the cooperation of all its stakeholders to ensure the overall development of its students?**

Stakeholders include students, faculty, parents, alumni, industry, society and the institute's administration. The most direct way of eliciting cooperation is direct involvement of relevant stakeholders in decision making processes at various levels. For example, every relevant committee has proper representation of students, faculty and administration. Feedback is regularly collected from alumni, employers (industry) and external bodies (like

visiting faculty, experts from other institutes). The institute reaches out to larger community to imbibe the spirit of inclusive growth and development (for example, students are involved in community outreach activities like teaching mess employees, health awareness and health care camps for neighboring villages, distribution of clothes and books for the needy etc.,).

**5.1.20 How does the university ensure the participation of women students in intra - and inter - institutional sports competitions and cultural activities? Provide details of sports and cultural activities where such efforts were made.**

All sports and cultural bodies have representation of women students. The institute hosts a variety of cultural/sports activities throughout the year, wherein women students participate in good number. Women students of LNMIIT are highly encouraged to actively participate in cultural and sports activity. Women students have their own team for almost all the sports except football and cricket. At LNMIIT, all the co-curricular and extracurricular activities are planned and executed by the students councils headed by an elected student member called General Secretary of council. In the academic year 2015-2016, for the first time a woman candidate has been elected for the post of General Secretary of sports council, which itself reflects the gender equality as well as the presence of the women students in all the extracurricular activities.

## 5.2 Student Progression

**5.2.1 What is the student strength of the university for the current academic year? Analyse the Programme-wise data and provide the trends for the last four years.**

337 in the first year batch (total student strength)

Student Progression	%
UG to PG*	Nil
PG to M.Phil.*	Nil
PG to Ph.D.	2
Ph.D. to Post-Doctoral	Nil
Employed	
▪ Campus selection	> 90%
▪ Other than campus recruitment	No data available

**5.2.2 What is the programme-wise completion rate during the time span stipulated by the university?**

Almost 100% for all programs

**5.2.3 What is the number and percentage of students who appeared/ qualified in examinations like UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central / State services, Defense, Civil Services, etc.?**

A sizeable number of students secure enrolment for higher education in Engineering and Management programs through various competitive examinations; a few students joined central/state services, defense and civil services.

**5.2.4 Provide category-wise details regarding the number of Ph.D./D.Litt./D.Sc. theses submitted/ accepted/ resubmitted/ rejected in the last four years.**

Department	Category	No. of students	Year
ECE	Ph.D.	1	2012
Physics	Ph.D.	2	2013, 2014
HSS	Ph.D.	1	2012
CCE	Ph.D.	1 (Submitted)	2015

## 5.3 Student Participation and Activities

**5.3.1 List the range of sports, cultural and extracurricular activities available to students. Furnish the programme calendar and provide details of students' participation.**

**Sports Infrastructure - A well-equipped Student Activity Centre (SAC) which comprises of:**

- 3 synthetic badminton courts
- 2 STIGA Championship Table Tennis tables
- Well-furnished, newly built Squash Court.
- Karate Arena with mats.
- Gymnasium comprising equipment for physical exercises
- Chess and Carom Room

**Outdoor Sports:**

- 2 Basketball Courts
- 1 Tennis Court
- 2 Volleyball Courts
- Football Field
- Cricket Ground

**Other Arenas:**

- Jogging track
- Cemented Cricket pitch with netting

**Matches with other engineering colleges and universities:**

LNMIIT has always been a place where teams are welcome for friendly matches played in competitive sportsman spirit. We have played matches with well-established universities/colleges on a regular basis such as:

- Malviya National Institute of Technology (MNIT, Jaipur)
- Poornima University, Jaipur
- Amity University, Jaipur
- Gyan Vihar University, Jaipur
- Sharda university, Noida
- Jagannath University, Jaipur

**List of Sports Activities:**

S. No.	Name of event	2016 (Tentatively scheduled)	2015	2014
1	Badminton	Mar	Mar, Jul, Aug, Oct	Jul, Aug,
2	Basketball	Mar	Mar, Jul, Aug, Sept, Oct	Jul, Aug, Sept
3	Table Tennis	Mar	Mar, Jul, Sept, Oct	Jul, Aug, Oct
4	Football	Feb, Mar	Mar, Jul, Aug, Oct	Jul, Aug, Dec
5	Volleyball	Mar	Mar, Jul, Sept, Oct	Jul, Aug, Oct
6	Chess	Chess	Mar, Jul, Oct	Jul, Sept
7	Squash	Mar	Mar, Jul, Oct	Jul, Sept, Oct,
8	Cricket	-	Jul, Aug, Oct	Jul, Aug, Oct
9	Athletics	Mar	-	Aug, Oct,
10	Desportivos	January	January	-
11	Tennis	Mar	Oct	-

(e.g. Jan – January, Feb –February, Mar – March, Jul – July, Aug – August, Sept –September, Oct – October, Dec – December)

**Cultural Events and number of participants (Year Wise):**

Event Name	No. of participants in year 2015-16	No. of participants in year 2014-15	No. of participants in year 2013-14	No. of participants in year 2012-13	No. of participants in year 2011-12
Matki Phod and Tug of War competition	-	150	140	120	100
Rubaroo (Fresher's welcome)	-	75	75	75	60
Art Attack (Thumb Painting competition)	-	150	120	100	100
Dance Premier League (Dance competition)	-	80	-	75	75
Gusto (Dramatic competition)	-	80	-	75	60
Mellownge (Singing competition)	-	80	75	60	60
Vivacity (Cultural Fest) 1. Razzmatazz (Dance) 2. Vogue (Fashion Show) 3. Dramatics 4. Raddrack (Music)			150	-	-
Nostalgia (Farewell Party)	80	100	80	80	-

**Cultural Events organized (Year Wise):**

S. No.	Event Name	Month	No. of Participants
1	Freshers	August, 2014	Not Available
2	Movie		Not Available
3	Janmashtami Celebrations		Not Available
4	Matki Phod& Tug of War		Not Available
5	Movie	September, 2014	Not Available
6	Art Club event : Face Painting		Not Available
7	DPL & Dandiya Night		Not Available
8	Art Club event : Thumb Painting		Not Available
9	Raavan Dahan	October, 2014	Not Available
10	Diwali Celebrations: Pooja (Sankalp Club)		Not Available
11	Movie		Not Available
12	Mellownge (Singing)		Not Available
13	Kite Festival	January, 2015	Not Available
14	Movie		Not Available
15	Gusto (Dramatics)		Not Available
16	Vasant Panchami Celebrations, Art Club event: Rangoli Making		Not Available
17	Movie, Movie Quiz	February, 2015	Not Available
18	Movie		Not Available
19	Art Club event : Sand Castle Making		Not Available
20	Movie		Not Available
21	Nostalgia - 2015	April, 2015	400
22	Online Video Making Contest	August, 2015	150
23	Story Writing Competition		100
24	Photographer of the month		50
25	Movie screening		200
26	Independence day(Matki Phod and Tug of War)		200

S. No.	Event Name	Month	No. of Participants
27	Freshers - Y15	August, 2015	500
28	Face Painting		400
29	Photographer of the month		80
30	Janmashtami (Matki Phod and Tug of War)		400
31	Photowalk		80
32	Movie screening		200
33	Gusto (Dramatics & Fashion Show)		400
34	Photographer of the month		50
35	Photography Trip		20
36	Dandiya Night		400
37	Movie Quiz(Season/Epic)	October, 2015	100
38	Thumb Painting		400
39	Ravan Dahan - DUSSEHRA		200
40	Photo Walk		80
41	Diwali Celebration-Pooja & burning crackers		400
42	New Year & Lohri Celebrations	Nov., 2015	500
43	Photo Walk	Dec., 2015	Not Available
44	Kite festival		Not Available
45	Interaction with Photographers		Not Available
46	Photographer of the month		Not Available
47	Movie Screening	January, 2016	Not Available
48	Vasant Panchami Pooja (Rangoli Making)		Not Available
49	Photo Walk		Not Available
50	Photographer of the month		Not Available
51	Movie Screening		Not Available
52	Photo Walk	February, 2016	Not Available
53	Sand Castle Making		Not Available
54	DPL & Mellownge		Not Available
55	Holika Dehen, Pooja & Holi celebrations		Not Available
56	Photographer of the month		Not Available
57	Photographer of the year	March, 2016	Not Available
58	Photo Walk		Not Available

### Introduction of various Clubs under Science & Technology Council:

#### 1. E-CELL:

The Entrepreneurship Cell of The LNMIIT is a non-profit organization which aims at developing an entrepreneurial spirit amongst the students. The cell regularly organizes competitions and workshops in order to acquaint the students with the real world entrepreneurial challenges and help them develop the skills to tackle them. Mentorship is provided to the students by an advisory panel constituting of technical and management gurus. In addition to this frequent guest lectures by the eminent industry persons and entrepreneurs helps the youth to learn about.

#### 2. QUIZ CLUB:

The quiz club, as the name suggests, is the club for quizzing enthusiasts. The club has developed a quizzing culture in the institute since the day it was formed. From organizing fun quiz events to TATA Crucible, the club has excelled and shone bright on national platforms. In association with The Jaipur Quiz Club-JAQUIZZI, quizzes are organized in the institute on regular basis.

#### 3. LITERARY COMMITTEE:

The Literary Committee is a student body that comes up with a wide range of exciting events that compel you to wrack your brains and scratch your wits. With fun sessions of reason and acumen, it helps you hone your passion for the myriad blues of expression and kindles and fosters the literati in you.

Additionally, it is also dedicated to the handling of all the Literary Publications of the institute-- be it the newsletter 'Pratibimb' or the magazine 'Nth Degree'. They also make their online presence via a dedicated blog called 'Cognizance', which is a creative platform for expression of the thoughts and views of the LNMIIT Community. They are not resistant to change, and regularly evolve into better ways to engage and connect. But more than anything, , Literary Committee is a family that treasures and connects together all its affiliates, be it present or former, student or alumni, staff or faculty. To an aficionado, the LC is everything- a medium, a platform, or an opportunity. The whole kit and caboodle. The whole enchilada!

#### **4. PHOENIX CLUB:**

The technical club where all the potential minds of LNMIIT gather to bring something dynamic. The club provides an active platform for students by organizing various events and workshops. It has been a constant endeavour of this club to increase participation of students in various technical fests. The club offers funding for projects also. It covers all the broader areas of engineering like robotics, dip i.e. digital image processing, embedded systems and quarks.

#### **5. CYBROS CLUB:**

Cybros is the coding club of LNMIIT, Jaipur. Its basic aim is to improve the coding culture in the institute which is at its peak. Cybros organizes various inter and intra institute coding events such as IUPC (Inter University programming contest), hackathons and codages.

The club is also engaged in organizing classes and workshops on the current trends in coding industry and hence is a platform for enthusiasts in coding field.

#### **6. ASTRONOMY CLUB:**

The club is the North Star for the institute's astronomy knowledge. Apart from having its own telescope for gazing, the club organizes various intra institute events such as spacewalk, treasure hunts, star-gazing sessions and quizzes for the institute fraternity. The ongoing project under the club has given a boost to astro-patrons to widen their horizons beyond the sky. The club observes a week dedicated to astronomy: AURORA. Members of the club participate in various astro events in institutes like IIT Delhi, etc.

#### **7. MUN SOCIETY:**

The Model United Nations Society is the latest addition to the existing clubs under Science and Tech council. This is formed under the motto of promoting the concept of MUN.

#### **8. INNOVATION and INCUBATION CENTRE:**

Innovation Club is envisaged to network people, ideas, experiences & resources to galvanize the innovation community in LNMIIT. This club not only helps to nurture your ideas and encourage you to bring up business proposals but there is also an Incubation centre where in after rigorous evaluation of your idea the institute may provide you with the required facilities and perhaps you can even get funds for your project.

#### **Activities organized under various clubs (session wise):**

##### **Session 2011-12:**

Club Name	Event Name with Details	
E-CELL	Sell With E-cell	Yellow pages exercises

##### **Session 2012-13:**

Club Name	Event Name with Details	
E-CELL	Yellow pages	NEN Entrepreneurship Week
	Mace	Friday Night Events
	Negosio	Sell With E-cell
QUIZ CLUB	First Blood	First Blood was a quiz event held especially for the first students. This is an attempt to welcome them into the club and make them aware of the exciting prospects that lie ahead.

Club Name	Event Name with Details	
<b>QUIZ CLUB</b>	Business Quiz	This Quiz takes the participants into the world of brands. People go back having learnt a lot about CEOs, Logos and other interesting stories behind various brands.
	Entertainment Quiz	This Quiz is made for the movie buffs and the TV shows enthusiasts around.
<b>LITERARY COMMITTEE</b>	Udgaar	Creative writing on Hindi Divas
	Jaago LNMIIT Jaago	Group discussion / debate in the CP Area
	Cannonade	The annual Debate
	Kaavya Sandhya	Exploring Hindi Poetry, held at OAT
	Tark	Hostel discussions
	Words You Never Said	Love letter writing competition

**Session 2013-14:**

Club Name	Event Name with Details	
<b>E-CELL</b>	Mace	Rural B-plan Competition
	Entrepreneurship Awareness Drive	Sell with E-Cell
	Yellow Pages	Start-up Visit
	Model United Nations	
<b>QUIZ CLUB</b>	Tech Quiz	A tech quiz tests the participants' knowledge about all the new technical developments that keep happening around.
	Jaquizzi	This quiz is held in collaboration with the latest happening in and around Jaipur.
	Cricket Quiz	How can there not be a quiz about India's most followed religion? This crowd-pulling event has always seen the finals going down to the wire.
<b>LITERARY COMMITTEE</b>	Udgaar	Creative writing based on Audio Clip, on the occasion of Hindi Divas
	Jaago LNMIIT Jaago	Group discussion on the past, present and future of LNMIIT, held in the CP Area
	Cannonade	The annual Debate
	Tark	Hostel discussions
<b>INNOVATION AND INCUBATION CENTRE</b>	Innovation Quiz	An event where questions mainly covered innovations and inventions from late 15 <sup>th</sup> century to modern 21 <sup>st</sup> century.
	The Apprentice	A case study competition where a participant acts as the CEO/ Manager of a company and comes out with different solutions to a problem.
	Business and Market Analysis Seminar	
	Greenovators	Participants are asked to provide green and eco-friendly solutions and post that, incubation of idea was done.
	Speed Boat	

**Session 2014-15:**

Club Name	Event Name with Details	
<b>E-CELL</b>	Rural Hackathon	Co-founders meet
	Start-up Relations	Start-up Intern Fair
	Investor Pitching	Model United Nations
	Hackathon	

Club Name	Event Name with Details	
QUIZ CLUB	India Quiz	This quiz is expected to be the most popular quizzing event of the calendar with questions from every field related to India, everyone finds something or the other they can relate to.
	Hostel Quiz	Hostel Quiz is an informal quiz, the only aim of which is to have fun and learn something new while doing so.
	Sports Quiz	A sports quiz's main aim is to test participants' awareness of the happenings in the sporting arena.
LITERARY COMMITTEE	Udgaar	Creative writing via Comic Strips, amongst other activities to be held on Hindi Divas.
	Jaago LNMIIT Jaago	Group discussion / debate in the CP Area
	Cannonade	The annual Debate
	Kaavya Sandhya	Hindi Poetry
	Tark	Hostel discussions
INNOVATION AND INCUBATION CENTRE:	Innovative Idea Competition	An event to motivate students to pitch new ideas in all domains which could be the next big thing. Event to be conducted with proper post-event idea incubation and mentorship would be provided to the winners.
	Business Plan Competition	Competition where student comes with a proper business plan well analyzed and researched for their venture/start-up. It requires huge monetary support and funding from external agencies to pull B-Plans to the market.
	Innovation Exhibition	A well-organized event where students from all the disciplines present their ideas and prototypes in front of exhibition. This event requires external monetary support for arrangements and motivating students by providing an apt platform for their hard work and intellect.
	Educational Seminar and Workshops from professors from outside our institution and industry people.	

**Session 2015-16:**

Club Name	Event Name with Details	
E-CELL	Yellow Pages	Case Study Competition
	Sell with E-Cell	B-plan Competition
	Industrial Visit	Start-up Intern Fair
QUIZ CLUB	First Blood	Inter institute JAQUIZZI
	Regular Quiz Sessions	
PHOENIX CLUB	Torque (Wired robot)	Wire Junkies
	LFR (Line follower robot)	Workshops on embedded systems and IOTs
	Water Rocketry	
CYBROS CLUB	IUPC (Inter Institute Programming Contest)	Android Hackathon
	Distraction IUPC	Codage
	Fix the bug	
LITERARY COMMITTEE	Debate	Inter/Intra Hostel Debates
	Udgaar (Hindi Divas)	Pratibimb
	Jaago LNMIIT Jaago	Nth Degree
	Kaavya Sandhya	
ASTRONOMY CLUB	Star Hunt	Crescent (Fest)
	Space Walk (Treasure Hunt)	Singularity
	Field Trip (Jantar-Mantar)	
MUN CITY	Inter Institute MUN	Intra Institute MUN
INNOVATION AND INCUBATION CENTRE:	Idea to Innovate	B-plan
	Lecture series on Incubation Centre	

**IEEE Students chapter:**

- ❖ 2-3 days' workshop on A.I / Robotics / Machine Learning.
- ❖ Industrial Tours - one each for CSE, ECE and Mechatronics people.
- ❖ Monthly Tech Quizzes on Spectrum.
- ❖ Project Demonstration at orientation.
- ❖ One talk on resume – how to write a resume, what are employers looking in your resume, how to improve your resume, what skills to learn that can make your resume very attractive.
- ❖ Workshop on DIP, Pattern Recognition.

**CSI Student chapter:**

Computer Society of India Student Chapter at the LNM Institute of Information Technology, Jaipur was established in March 2013 under guidance of Asst. Prof. Vikas Bajpai. CSI student chapter of LNMIIT is an open forum that helps students through various programs like quizzes, talks, discussions, workshops and other events.

- ❖ CSI student chapter of THE LNMIIT provides students help in IT related projects.
- ❖ Provides an opportunity to attend various conferences and conventions related to computer science and IT.
- ❖ Access to various projects, quiz and programming competitions, workshops and other various events conducted by CSI student chapter.

**List of events:**

Event Name	No. of participants
Web Inside-out	50
App Ki Duniya	100

**5.3.2 Give details of the achievements of students in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. during the last four years.**
**Achievements in Sports in the Academic Session 2013-2014 follows -**

The achievements which highlight the Institute's excellence in the sports domain are mentioned below:

**Chess Team**

- |                                 |                           |                                  |
|---------------------------------|---------------------------|----------------------------------|
| <b>(i)</b> First at IIT Jodhpur | <b>(ii)</b> First at MNIT | <b>(iii)</b> First at SKIT       |
| <b>(iv)</b> First at JECRC      | <b>(v)</b> First at JNIT  | <b>(vi)</b> Second at IIT Kanpur |

**Shooting**

- (i)** Mr. Pingaksh Sharma was short-listed in the pre-nationals and state for 10m air pistol.
- (ii)** Mr. Chanish Agarwal was selected amongst the few for the state level and pre-nationals 10m air pistol.

**Cricket**

- (i)** First at Desportivos 2014 (Jaipur's Largest International Sports Fest)

**Martial Arts**

- (i)** ALL INDIA SHOTOKAN KARATE CHAMPIONSHOP 2013 (4<sup>th</sup> – 5<sup>th</sup> October)

Won 17 Medals including 5 Gold, 4 Silver & 8 Bronze

- (ii)** INTER INSTITUTE SPORTS EVENT (22<sup>nd</sup> September)

**Taekwondo:** LNMIIT vs GIT - LNMIIT Won, LNMIIT Vs Subodh College – Draw

**Kick Boxing:** LNMIIT vs Rajasthan University – LNMIIT Won, LNMIIT Vs Subodh College – LNMIIT Won

- (iii)** RAJASTHAN STATE TEAM SELECTION (8<sup>th</sup> September) Four students participated

- (iv)** KANNINJUKU NATIONAL KARATE CHAMPIONSHIP 2013 (14<sup>th</sup> May at Mumbai)

LNMIIT Won – 8 Medals: 1 Gold, 4 Silver & 3 Bronze

- (v)** Vinod Kumar was selected for National Shotokan Karate Team of India for the year of 2012-13.

- (vi)** 6 students were selected in Rajasthan Shotokan Karate Team for year of 2013.

**Details of Achievements of students in Cultural Activities:**

<b>Year</b>	<b>Activities</b>
<b>2012</b>	1. Nukkad Mandli secured first position in street play competition at National Level Cultural Fest at NIIT, Neemrana
<b>2014</b>	1. Dramatics Team, RENDITION bagged the 1 <sup>st</sup> prize at National Level Competition at Rang Manch, Jaipur 2. It also Won 1 <sup>st</sup> prize at the National Level Cultural Fest of DAIICT, Gandhinagar and JECRC University, Jaipur 3. Vageesha Sharma, present coordinator of Drama Club held 3 <sup>rd</sup> Position at National Level Cultural Fest of IIT, Delhi. 4. Rishab Kapoor of Music Club and Art Club students qualified for finals in Instrumentals (Solo) and shoe making competition respectively at National Level Cultural Fest of IIT Delhi. 5. Dance Crew, INSIGNIA showed great performance and won 1 <sup>st</sup> prize wherever they went. They won in National Level Cultural Fest of NIIT, Neemrana, Manipal-Jaipur and RCWRET, Jaipur
<b>2015</b>	1. Nukkad Mandli bagged second prize in National Level Cultural Fest of JECRC University, Jaipur 2. Fashion club also won 1 <sup>st</sup> prize in the same fest.

**Details of Achievements of students in Science and Technology related Activities:**

- (a) Kushal Shah and Anivesh Baratam qualified for National level by clearing Zonal from North zone and regionals from Rajasthan in Tata Crucible Campus Business Quiz.
- (b) Gaurav singhal and Kaustubh Khandelwal were Winner in Ideate: B Plan Competition of Rajasthan Startup Fest 2015
- (c) Ashish Agrawal and Pushkal Agarwal qualified for national level by clearing 4th Regional Level Project Contest organized by Computer Society of India in Ahmadabad.
- (d) 4 teams have cleared regionals and qualified of nationals in ACM ICPC 2014 and 1 team till now in 2015.
- (e) 1 team was Winners at Rajagiri National Business Quiz 2012.
- (f) 1 team was into the finals at Sweden-India Nobel Quiz 2011.
- (g) 1 team was National finalists at Mahindra Auto Quotient.
- (h) 1 team was Rajasthan Winners at IDFC Quiz, Jaipur.
- (i) 1 team was Finalists at DAIICT annual fest SYNAPSE Quiz event.

**5.3.3 Does the university conduct special drives / campaigns for students to promote heritage consciousness?**

University provides opportunities to develop heritage consciousness through the institute level activities by "Sankalp" club, and Value Education and Ethics course. The activities generate awareness about Indian Philosophy, Yoga, and Meditation etc.

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

Yes. Financial, logistical support and faculty guidance is given to students for the institute magazines. Publications include: Nth Degree (the institute's annual magazine), Pratibimb (students' newsletter), The LNMIIT Gazette (institute's newsletter), Esperra (Placement Cell's newsletter).

**5.3.5 Does the university have a Student Council or any other similar body? Give details on its constitution, activities and funding.**

Yes, Student senate body at LNMIIT is called Student Gymkhana. The details of the student gymkhana are as follows.

**Preamble:**

We, the students of The LNM Institute of Information Technology Jaipur, do hereby constitute a self-governing democratic organization called Students' Gymkhana. The primary objective of creating this important organ of the institute is:

"To provide a forum to the students of the institute, to be managed by the students themselves, through which

they can carry out various extra-curricular activities which essentially help them in their academic pursuits." Examples of the kinds of extra-curricular activities which can be carried out under the aegis of this forum are:

- ⊕ to organize games and sports, on a regular basis, in the institute campus;
- ⊕ to participate in games and sports at the local/regional/state/national/international level;
- ⊕ to organize cultural activities, on a regular/periodic basis, in the institute campus;
- ⊕ to organize cultural and other competitions in the institute campus, in which participants from other well-known Institutions can also participate;
- ⊕ to participate in cultural and other competitions organized by other well-known Institutions of the country; to start and manage various hobby clubs, of interest to the students;
- ⊕ to initiate and participate in social service activities, of interest to the students and useful to the society at large;
- ⊕ to organize lectures and debates on current issues, including science and technology;
- ⊕ to participate in the academic administration of the institute, wherever feasible and desirable;
- ⊕ to help Wardens in the management of hostel affairs, including the dining mess;
- ⊕ to participate in the administration of the Students' Placement Committee;
- ⊕ to help in managing the transport facility between the campus and the city;
- ⊕ to help in the administration of the medical facility for students;
- ⊕ to promote the development of skills in leadership, communication, and self-reliance, amongst the students;
- ⊕ to promote the core values of commitment, respect, excellence, and accountability, amongst the students;
- ⊕ reconciliation of differing opinions, amongst students, on various issues concerning the growth of the institute;
- ⊕ reconciliation of differing opinions of students and institute Administration, on various issues of importance to the institute;
- ⊕ Any other similar activity concerning the general welfare of fellow students and the growth of the institute.

The management of such important activities, apart from the participation of a large number of students, requires a well-defined organizational framework. We, therefore, resolve to adopt the following CONSTITUTION for this purpose. The guiding principles, which have been used for framing this Constitution, are:

- ⊕ the decision making process is democratic, at all stages, through committees rather than individuals;
- ⊕ transparency in decision-making and its implementation, at all levels;
- ⊕ participation of all students of the institute in the decision-making process;
- ⊕ the elected/nominated representatives have the power only to execute the well thought out decisions, taken at various levels;
- ⊕ listening carefully to the opinions of others, before forming one's own opinion on various issues of importance;
- ⊕ expressing one's well-formed opinions fearlessly, lucidly, effectively, and logically, irrespective of how much they differ from those of others, without hurting their sensitivities;
- ⊕ right to have access to all relevant information;
- ⊕ Keeping the interest of the institute above those of any individual.

#### **Constituents of the students' Gymkhana:**

In this section, various constituents of the Students' Gymkhana are described. The aim, responsibilities and duties, composition, and the manner of election/nomination of each of these constituents are stated in subsequent sections.

- ⊕ All registered students of the institute shall be members of the Students' Gymkhana, and, shall constitute its General Body.
- ⊕ The Director of the institute shall be the Patron of the Students' Gymkhana.
- ⊕ The following posts of the Students' Gymkhana shall be elected directly by the General Body:
  - (a) President of Students' Gymkhana
  - (b) General Secretaries of Games, Cultural, and Science & Technology
- ⊕ The required number of student representatives, called Senators, of each batch, shall be elected by the students of the respective batches.
- ⊕ The Students' Senate (referred to as Senate subsequently), shall comprise of all the elected students, as mentioned in clauses 2.3 and 2.4.

- ⊕ The Convener of the Senate is elected by the Senate, according to the interactive process described in clause 3.8.
- ⊕ The Gymkhana Executive comprises of the President, General Secretary Games, General Secretary Cultural, General Secretary Science & Technology, and the Convener of the Senate.
- ⊕ The Senate shall nominate the Chief Election Officer, who is responsible for conducting all the Gymkhana elections, except that of the Convener of the Senate.
- ⊕ The Patron shall appoint the Chief Counselor of the Students' Gymkhana, and other Counselors as and when required, from amongst the faculty members of the institute, in consultation with the Senate.
- ⊕ The Senate shall nominate the Chairpersons and other members of the following Standing Committees of the Senate:
  - (a) The Nominations Committee
  - (b) The Committee of Students for Hostel Affairs (COSHA)
  - (c) The Students' Placement Committee
  - (d) The Finance Committee.
- ⊕ In addition to the Standing Committees of the Senate, mentioned in clause 2.10, the Senate may also appoint ad-hoc committees to perform specific tasks. The Chairperson and members of any ad-hoc committee shall be nominated by the Senate.
- ⊕ The Senate shall nominate the members of the following Gymkhana Councils:
  - (a) The Presidential Council
  - (b) The Games Council
  - (c) The Cultural Council
  - (d) The Science and Technology Council

**Elections:**

- ⊕ All elections, except that of the Convener of the Senate, whenever required, shall be conducted by the Chief Election Officer, to be nominated by the Senate. S/he can take the help of other students in conducting elections.
- ⊕ The Annual Gymkhana Election shall be held around 20th of January every year. However, under exceptional situations, the annual elections can be postponed, by the Senate, for a maximum period of one month.
- ⊕ The Gymkhana President and the General Secretaries of the Games, Cultural, and Science & Technology Councils shall be elected from the General Body on the basis of a single transferable preferential voting system. Thus, for a particular post, if there are n candidates, the voters shall be required to give up to preferences. In the first round of counting, only the first preferences of the voters shall be considered, and, the candidate receiving the least number of first preference votes shall be declared unsuccessful. In the next round, the second preference votes of the unsuccessful candidate shall be added to the first preference count of continuing candidates. Again, the candidate with the lowest tally shall be declared unsuccessful. This procedure shall be repeated, until a candidate, who shall be declared successful, secures 50 percent or more of the total valid votes cast. In the kth round of this procedure, the kth preference votes, of the voters voting for the unsuccessful candidate, will be considered.
- ⊕ In a batch of n students, Senators will be elected, the voters being the n students of the batch.
- ⊕ Senators, representing a batch, shall be elected on the basis of a preferential voting system. Each voter shall have three preferences to be cast in favor of three different candidates amongst those seeking to represent the batch. The first, second, and third preference shall carry 5, 3, and 1 points respectively. Senators, representing a batch of n students, shall be declared elected in the following way. The names of all the candidates will be listed according to the decreasing number of first preference points received by them. If more than candidates receive 225 or more first preference points, then the first m candidates of the list will be declared elected, giving the required number of Senators representing the batch. Otherwise, those getting 225 or more points will be declared elected, and the rest will be listed again according to the first and second preference points together. Now, 225 points of the first iteration will be replaced by 350 points and the procedure repeated. In case m Senators are still not elected, then the third preference points will also be considered and the required number of successful candidates declared on the basis of all the first, second, and third preference points.
- ⊕ All PhD students of the institute will be assumed to form one batch. Similarly, all MS/M. Tech students of the institute will be assumed to form one batch.

- ⊕ The strength of female Senators must be at least 10% of the total strength of the Senate. In case fewer female students are elected members, then the Senate shall nominate additional female Senators to the extent required.
- ⊕ The Convener of the Senate will be elected, from amongst the students elected as per clause 3.5. However, the Electoral College shall consist of all members of Senate elected/nominated as per clauses 3.3, 3.5, and 3.7. The election will be through an interactive process. In each round of voting the candidate with the least number of votes is eliminated. At any stage, a candidate who receives 50% or more votes of those present and voting shall be declared as the Convener of the Senate. The Convener of the outgoing Senate shall conduct the election for the Convener of the new Senate.
- ⊕ The Chief Election Officer shall ensure that the candidates seeking election, for any position of the Students' Gymkhana, is not expected to complete his academic program during the period he is expected to represent the interests of the students. This clause will not be applicable for electing senators to represent the final year under-graduate students.
- ⊕ The Chief Election Officer shall ensure that the students falling in any one or more of the following categories are not allowed to contest election for any position of the Students' Gymkhana:
  - (a) Students whose' CPI is less than 7.0;
  - (b) Students on whom the AC SAC has imposed any penalty, for whatever misconduct, during their stay in the institute.
- ⊕ In case the AC SAC imposes some penalty on a student, while s/he is holding some post of the Students' Gymkhana, then s/he shall cease to hold that post with effect from the date the penalty is imposed.
- ⊕ In case, the CPI of the student, while s/he is holding some post of the Students' Gymkhana, falls below 7.0, then s/he shall cease to hold that post immediately.
- ⊕ The Convener of the Senate shall ensure that the students barred from contesting Gymkhana elections, in clauses 3.9 and 3.10, are not nominated for any post of Students' Gymkhana, and are replaced immediately, if they are affected by clauses 3.11 and 3.12.
- ⊕ The Chief Election Officer and the Convener of the Senate shall ensure that a student is not elected/nominated for more than one post of the Students' Gymkhana.
- ⊕ Whenever a vacancy arises, for any post of the Students' Gymkhana, due to various unforeseen reasons, the Senate shall take any one of the following actions:
  - (a) Nominate some eligible student;
  - (b) Order mid-term election for the post
  - (c) Not fill the post, if desirable.
- ⊕ Norms and modalities for holding any election shall be fixed by the Chief Election Officer. However, the Senate has the right to modify any such norms or modalities.
- ⊕ Charge shall be handed over to the next Senate within two weeks of completing all the election formalities of the incoming Senate.

#### **Students' Senate:**

- ⊕ The Gymkhana shall function through the Senate and its four Executive Councils, namely, the Presidential Council, the Games Council, the Cultural Council, and the Science & Technology Council.
- ⊕ The Senate shall comprise of:
  - (a) the Gymkhana Executives, namely: the President, General Secretary Games, General Secretary Cultural, General Secretary Science & Technology; and the Convener of the Senate;
  - (b) Senators representing different batches of students (with a special provision for female students, as in clause 3.7)
- ⊕ The Senate shall be the Central Representative, Legislative and Supervisory body of the students. It shall-
  - (a) Serve as the main forum of expression of student opinion;
  - (b) Be in continuous touch with the general body, consult the students and act as a feedback system;
  - (c) Act as the central policy making body;
  - (d) Guide and check the functioning of the executive wings of the Gymkhana;
  - (e) Guide and check the functioning of its standing and ad-hoc committees.
- ⊕ The Convener of the Senate shall convene and preside over all the meetings of the Senate. S/he shall ensure that the decisions of the Senate are implemented, to the extent possible. Difficulties, if any, are while implementing the Senate decisions must be discussed in the next meeting of the Senate.
- ⊕ All meetings of the Senate shall be open to the students of the institute, as observers only (i.e., they cannot participate during the discussion or at the time of taking decisions).

- ⊕ The Senate shall discharge its responsibilities mainly through itself and its Standing Committees. The Senate shall ensure that the following Standing Committees are formed:
  - (a) The Nominations Committee
  - (b) The Committee of Students for Hostel Affairs (COSHA)
  - (c) The Students' Placement Committee
  - (d) The Finance Committee
- ⊕ The Senate may, from time to time, appoint any other ad-hoc committees to perform specific tasks.
- ⊕ In all the decision making bodies of the Gymkhana, at all levels, the decision making process shall be democratic, i.e., decorum is maintained during discussion and the decisions are based on well-defined majority opinions.
- ⊕ The Convener of the Senate shall prepare the Agenda for discussion in the Senate. The items shall be categorized, prior to discussion, for decision making as follows:
  - (a) Routine items, which require a simple majority (of those present and voting) for approval;
  - (b) Critical items, which require at least two-third majority (of those present and voting), and at least half the total strength of the Senate, for approval;
- ⊕ In case a majority of the Senate members (of those present and voting) favor approval of the items mentioned in clause 4.9 (b), which is not adequate for Senate approval, then the Senate may consider referring such issues to the General Body for its decision.
- ⊕ The Minutes of the meetings of the Senate shall be written by the Convener of the Senate. The Minutes shall be circulated to all the members of the Senate, for their comments, within a specified time. The President and the Convener of the Senate shall examine the comments received, if any, and approve the minutes to the extent possible. The items for which the minutes are approved can be implemented by the Convener of the Senate. Other items, on which comments have been received and cannot be reconciled, shall be discussed in the next meeting of the Senate.
- ⊕ The Chief Counselor/Counselors shall be invited to all the meetings of the Senate.

#### **Gymkhana President:**

- ⊕ The President shall be the Chief Executive of the Gymkhana. S/he shall supervise and coordinate the general affairs of the General Body.
- ⊕ There shall be a Gymkhana Office, which will be managed by the President and the Convener of the Senate. All records of the Gymkhana shall be kept in the Gymkhana Office, electronically, as far as possible. At the end of each Gymkhana year, a folder containing the description of all the Gymkhana activities during the year, shall be created, and kept in the Gymkhana Office.
- ⊕ All records in the Gymkhana Office shall be open to the students of the institute.
- ⊕ The President, as the Chief Executive of the Gymkhana, shall have the power to requisition a meeting of the Senate, or any Executive Council, or any Standing or ad-hoc Committee of the Senate, and shall have the power to attend the meeting as a full-fledged member.

#### **Gymkhana Councils:**

- ⊕ The Gymkhana shall have the following Gymkhana Councils:
  - (a) The Presidential Council;
  - (b) The Games Council;
  - (c) The Cultural Council;
  - (d) The Science & Technology Council.
- ⊕ The President shall be the Chairperson of the Presidential Council. The Chairpersons of the other three Gymkhana Councils, the Convener of the Senate, and the Convener of the Finance Committee, shall be the members of the Presidential Council. The aim of the Presidential Council shall be to help the President in discharging his/her duties and any other duty assigned to him/her by the Senate.
- ⊕ The General Secretaries of Games, Cultural, Science & Technology shall propose, for ratification/consideration of the Senate, the names of students to be appointed in their respective positions as Members/Secretaries/ Coordinators/Captains as members of their respective Councils.
- ⊕ The aim of the Games Council is to organize and promote all extra-curricular activities in the field of games and sports and any other duties assigned to it by the Senate.

- (a) The General Secretary Games shall be the Chairperson of the Games Council and shall supervise and coordinate all its activities;
- (b) The Games Council shall consist of the General Secretary Games, the President (or his/her nominee), one member of the Finance Committee, and other members approved by the Senate (clause 6.3);
- (c) The Secretaries shall be responsible for the organizational part of the work, especially the off-field activities, whereas, the Captains shall be responsible for on-field activities.
- ⊕ The aim of the Cultural Council is to organize and promote all cultural extra-curricular activities including festivals and competitions, and any other duty assigned to it by the Senate
  - (a) The General Secretary Cultural shall be the Chairperson of the Cultural Council and shall supervise and coordinate all cultural activities;
  - (b) The Cultural Council shall consist of the General Secretary Cultural, the President (or his/her nominee), one member of the Finance Committee, and other members approved by the Senate (clause 6.3);
  - (c) The Coordinators shall be responsible for the organization of all the cultural programs whereas the Secretaries shall promote the club activities.
- ⊕ The aim of the Science & Technology Council shall be to organize and promote all scientific and technological activities, and any other duty assigned to it by the Senate. (a) The General Secretary Science & Technology shall be the Chairperson of the Science & Technology Council, and shall supervise and coordinate all its activities; (b) The Science & Technology Council shall consist of the General Secretary Science & Technology, the President (or his/her nominee), one member of the Finance Committee, and other members approved by the Senate (clause 6.3).

#### **Standing Committees of the Senate:**

- ⊕ The Senate shall have the following Standing Committees (a) The Nominations Committee (b) The Committee for Hostel Affairs (COSHA) (c) The Students' Placement Committee (d) The Finance Committee.
- ⊕ The Nominations Committee shall nominate the students' representatives to the various institute committees, whenever required. (a) The Nominations Committee shall consist of the President, the Convener of the Senate, and two Senators (at least one member of the committee shall be female); (b) The President shall be the ex-officio Chairperson of the Nominations Committee.
- ⊕ The Committee of Students' for Hostel Affairs (COSHA) shall supervise and coordinate all matters of common interest to all the hostels. (a) The COSHA shall consist of the President, the Senator In-Charge Hostel Affairs (to be elected by the Senate from amongst the Senators), and Hall Representatives (two from each hostel). (b) The Senator In-Charge Hostel Affairs shall be the Convener of the COSHA. The meetings of the COSHA shall be chaired by the President. (c) The Chief Warden/Wardens shall be invited to all the meetings of COSHA for their opinions on various issues.
- ⊕ The primary aim of the Students' Placement Committee (SPC) is to express the students' opinion regarding placements and it will act as the students' central advisory body for the Students' Placement Cell of the Institute. (a) The SPC shall consist of four members, all of whom shall be nominated by the Senate; (b) The four members of the SPC shall distribute the work of the Committee, as they deem fit.
- ⊕ The primary aim of the Finance Committee (FC) is to manage the finances of the Gymkhana. The FC shall consist of four members, including its Convener, all of whom shall be nominated by the Senate.
- ⊕ The Finance Committee shall control and supervise the expenditure incurred by the Executive Wings of the Gymkhana. The FC shall report the financial position to the Senate, periodically, as prescribed by the Senate.

#### **Gymkhana Finances:**

- ⊕ The total funds of the Gymkhana shall comprise of: (a) Contributions made by the Institute; (b) Contributions from other sources collected by the students (e.g. fees of clubs, sponsorship).
- ⊕ After taking into consideration the total yearly income, and the financial requirements of various Gymkhana Councils, the FC shall prepare the Annual Budget Proposals of the Gymkhana. While preparing the annual budget proposals, FC shall seek the advice of the Chief Counselor. The Annual Budget Proposals of the FC shall be considered by the Senate.

- ⊕ The Annual Budget, approved by the Senate, with or without modifications of the budget proposals, shall be frozen for the whole year.
- ⊕ The Chief Counselor shall ensure that in the budget approved by the Senate, the anticipated expenses do not exceed the total funds available to the Gymkhana during the year.
- ⊕ The FC shall ensure that the expenses incurred, throughout the year, conform to the Annual Budget approved by the Senate.
- ⊕ Approval of the competent authority, as given in clause.
- ⊕ Below must be obtained before contemplating to spend the Gymkhana funds.
- ⊕ The competent authority to approve the payment from the Gymkhana funds shall be as follows (a) Upto Rs. 1000/-, with the approval of the President; (b) Upto Rs. 20,000/- with the approval of the Chief Counselor; (c) Any Gymkhana expense, including those mentioned in (a) and (b) above, with the approval of the Patron.
- ⊕ The guiding spirit in the expenditure of the Gymkhana funds shall be economy, at all stages, and in all possible ways.
- ⊕ The standard norms for all official financial transactions shall be followed. A brief note of such important norms (to be prepared by the Accounts Section of the Institute) shall be kept in the Gymkhana Office. All those students who utilize the Gymkhana funds, at any time, must follow these norms.
- ⊕ The FC shall present its final report before the joint session of the Senate. This report must include: (a) The approved Annual Budget (b) A balance sheet (of income/expenditure) (c) Any exceptional expenditure; (d) Recommended action, if any.

**Bylaws:**

- ⊕ Amendment of any article of the existing Constitution shall require the support of at least two-third of the total strength of the Senate. The amendment, after approval of the Senate, must be reported to the Academic Council of the Institute, which reserves the right to disallow the amendment.
- ⊕ Critical items of the agenda will include: (a) Impeachment of an elected Executive of the Gymkhana. (b) Approval of Finance committee (c) Approval of Annual Budget (d) Approval of Chief Election Officer (e) any other item, so decided by Senate.
- ⊕ The Senate can withdraw the nomination of any person to any committee/post, whom it had nominated initially.
- ⊕ The President shall call and chair the General Body meetings. S/he shall be obliged to call a General Body meeting if requisitioned by the Convener of the Senate, or at least 1/3 of the total strength of the Senate, or at least ¼ of the total strength of the General Body. The President may call a General Body meeting on his own also.
- ⊕ The decisions in the General Body shall, normally, be taken by a referendum, unless all the members present share the same opinion (without any exception). The referendum shall be conducted by the Chief Election Officer.
- ⊕ The Convener of the Senate shall be obliged to call a meeting of the Senate, within 48 hours, if requisitioned by the President or by at least 1/3 of the total strength of the Senate.
- ⊕ The Chairperson/Convener of any Council/Standing or Ad-hoc Committee of the Senate shall be obliged to call a meeting of the same, within 48 hours, if requisitioned by at least 1/3 of its total strength.
- ⊕ The Senate shall prepare the "Rules and Procedures" to be followed by all the wings of the Gymkhana. Any change in the existing Rules and Procedures shall be considered a critical agenda item.

**Student Gymkhana Funding:** Student gymkhana is mostly funded by the University. The three major student festivals (Desportivos for sports, Plinth for science, technology, management and literature, vivacity for cultural activities) require external funding through sponsorships apart from the university's contribution.

**The university's funding towards the student gymkhana in the last three years**

- ⊕ 2012-13 Rs. 26.33 lakh
- ⊕ 2013-14 Rs. 36.38 lakh
- ⊕ 2014-15 Rs. 65.94 lakh

This includes placement exp., scholarship, cultural, sport, technical etc. expenditure incurred for students.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them. Also provide details of their activities.**

There are five sub committees under Academic Council of our institute, which have representatives from student gymkhana. These sub committees are:

- (a) AC-UGC
- (b) AC-PGC
- (c) AC-HMC
- (d) AC-LMC
- (e) AC-SAC

**In addition to above the following committees too have student representatives:**

- (i) Class Committee
- (ii) Academic Council

A minimum of 2 students are part the above academic and administrative bodies in each academic year. They participate in the discussions and make suggestions. However, they do not involve in major policy initiative.

***Any other information regarding Student Support and Progression which the university would like to include.***

## **Criterion - VI:** **GOVERNANCE AND LEADERSHIP**

### **6.1.1. State the vision and the mission of the university.**

#### **Institute Vision:**

To establish world class platform for creation of knowledge through quality research and its dissemination through technologically enabled teaching – learning pedagogy in the field of science, technology, engineering, arts and management. To become a catalyst in the societal and national development, by ensuring continuous interaction with industry and other academic and research institutions in India and abroad.

#### **Institute Mission:**

- (i) To offer state of the art undergraduate programs in IT & ITES as well as core disciplines with emphasis on strong fundamentals.
- (ii) To establish centers of excellence in emerging areas to provide significant breakthrough required to solve real world problems.
- (iii) To make The LNMIIT as the most preferred institute for higher education across the country.
- (iv) To create intellectual property through innovations, quality research publications and patents.
- (v) To instill core values of excellence, integrity, teamwork, professional ethics and environmental concerns.
- (vi) To foster and nurture leadership and entrepreneurial qualities and lifelong learning amongst students, research scholars, faculty and staff of The LNMIIT.

### **6.1.2. Does the mission statement define the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, the institution's tradition and value orientations, its vision for the future, etc.?**

Yes, clearly it does. The mission of the institute is to provide platform to acquire knowledge and educate students in engineering, science, HSS and other areas of scholarship that will best serve the nation and the world in the 21<sup>st</sup> century. The institute is committed to generating, disseminating and preserving knowledge, and working with others to bring this knowledge to address the world's great challenges. In this point the LNMIIT is dedicated to create intellectual property through innovations, quality research publications and patents. The institute seeks to develop, in members of its community, the ability and passion to work wisely, creatively, and effectively for the betterment of the human kind. Merit and transparency are its guiding principles and industry engagement is a core ingredient of its educational philosophy. Inculcating a culture of life-long learning among students, faculty and staff members is an integral part of the LNMIIT. As one of the premier institutes of the state of Rajasthan we continue to provide service to the host state and nation.

### **6.1.3. How is the leadership involved -**

#### **+ in ensuring the organization's management system development, implementation and continuous improvement?**

- + Leadership through gradual progression from HoS / HoD to Registrar / Dean
- + Administrative as well as academic experience to Faculty and selected members of NTS
- + Involvement of faculty and staff members in decision making processes at appropriate levels

#### **+ in interacting with its stakeholders?**

- + Class committee meetings for improving T – L processes
- + Regular meetings of the Governing Council (GC) for defining policies
- + Regular meetings of the Academic Council (AC) and sub-committees of the AC to deal with academic / non-academic matters
- + Deans Committee Meeting for weekly review
- + Meeting of HoD / HoS for monthly feedback
- + Periodic interaction with Alumni for seeking opinions about relevant issues, mentorship for the students
- + Expert lectures / tech-talks by industry experts for knowledge & skill upgrades
- + Regular communication with the parents regarding the academic performance of the ward
- + T & P Office receives feedback from the recruiting companies regarding student preparation

#### **+ in reinforcing a culture of excellence?**

- + Faculty Development Programs
- + Regular Conferences and Seminars
- + Tie Ups with industry leaders

- Assured career progression for Faculty and NTS
- Adhering to set code of conduct and discipline
- Appropriate action on feedback from stakeholders
- Annual feedback to each faculty and staff member by Director and a plan of action is expected from each one
- Interactions with top class Institutes in India and abroad
- State-of-the-art infrastructure
- Constant attempt to identify emerging areas in technology in which institute should expand. (E.g. Mechanical-Mechatronics is one recent addition, Big Data Analytics, Mobile and Cloud Computing, Microelectronics, etc.)
- Stress on values and ethics for leading students toward a larger sense of excellence and understanding.

**■ in identifying organizational needs and striving to fulfill them?**

- Regular meetings of the Governing Council (GC)
- Regular meetings of the Academic Council (AC) and sub-committees of the AC
- Feedback from stakeholders
- Identification of emerging areas to expand and diversify academic portfolio

**6.1.4. Were any of the top leadership positions of the university vacant for more than a year? If so, state the reasons.** - No.

**6.1.5. Does the university ensure that all positions in its various statutory bodies are filled and meetings conducted regularly?** - Yes

**6.1.6. Does the university promote a culture of participative management? If yes, indicate the levels of participative management.**

Yes. Students, faculty, and non-teaching staff are members of various committees.

**6.1.7. Give details of the academic and administrative leadership provided by the university to its affiliated colleges and the support and encouragement given to them to become autonomous.**

Not Applicable

**6.1.8. Have any provisions been incorporated / introduced in the University Act and Statutes to provide for conferment of degrees by autonomous colleges?**

Not Applicable

**6.1.9 How does the university groom leadership at various levels? Give details.**

Students, faculty, and non-teaching staff are members of various committees. Faculty and non-teaching staff members are identified to attend Leadership Skills Development Programs outside the campus if required, within their own spheres of activities.

**6.1.10 Has the university evolved a knowledge management strategy? If yes, give details.**

Yes. The library subscribes to a large number of journal and manages effective dissemination of the information to stakeholders. That includes following repositories of knowledge –

- E-Journals, IEEE Journals, ACM Journals, ASME Journals, AIP Journals etc.
- Library associates with other libraries as well as NPTEL, QEEE etc.
- Collection of a large number of Conference proceedings
- Availability of Exam related information

**Registrar Office** manages conduct of Examinations, Course Management and Grade Management

**IT Department** manages Moodle Groups and Google Groups

**Deans' Office** manages Tech-talks

**MIS** (Management Information System) for information processing and management

**6.1.11 How are the following values reflected in the functioning of the university?**

**■ Contributing to national development -**

- (a) Through participation in national level seminars, symposia and conferences; Community Outreach (blood donation camps, awareness campaigns); Alignment with Swachh Bharat Campaign

- (b) Participation in the **state and national level** IT and Science, Humanities and Technology projects

  - + **Fostering global competencies among students –**  
Through participation in international conferences, visits by international experts, MOUs with other organizations, internship and exchange programs with foreign universities, soft-skills development workshops for students. Curriculum fosters relevant competencies among students.
  - + **Inculcating a sound value system among students promoting use of technology –**  
Through curriculum being devoted to value education and ethics
  - + **Quest for excellence –**  
Through participation in national/international conferences, visits by international experts, by ensuring quality-consciousness at the time of faculty selection. Selection of students- transparent and merit-based admissions, State-of-the-art infrastructure and conducive eco-friendly ambience, etc.

## **6.2 Strategy Development and Deployment**

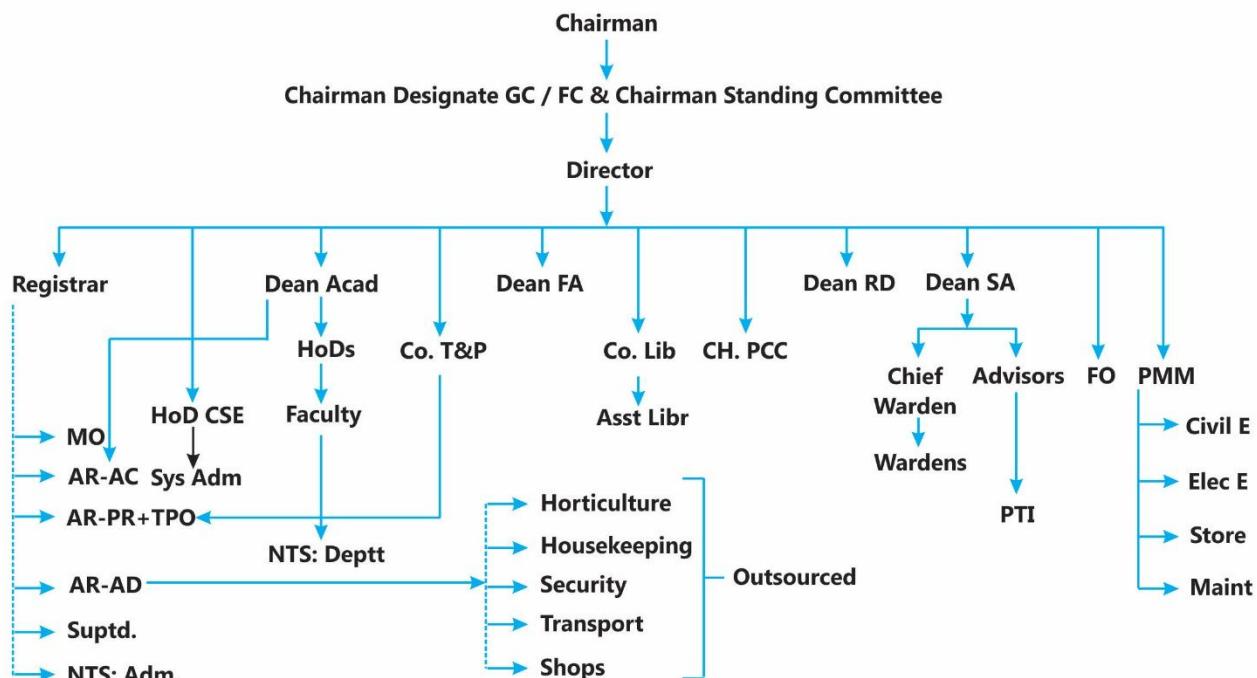
**6.2.1. Does the university have a perspective plan for development? If yes, what aspects are considered in the development of policies and strategies?**

- **Vision and mission:** Yes
  - **Teaching and learning:** Yes
  - **Research and development:** Yes
  - **Community engagement:** Yes
  - **Human resource planning and development:** Yes
  - **Industry interaction:** Yes
  - **Internationalization:** Yes

Vision and Mission of the institute reflect national priorities. Focus on Women engineers, Alignment with national and state policy and goals, Contribute to India's human resource pool. Value-oriented education, Governing Council plays a leading role in identifying and ratifying policies and strategies for overall development and inputs from stakeholders.

#### **6.2.2. Describe the university's internal organizational structure and decision making processes and their effectiveness.**

*The international organizational structure as shown in the diagram below –*



**Total UG: ~1170, Total PG 61, Faculty: 60+4, Staff: 39  
Organization is lean requiring multitasking from all: faculty & staff  
Outsourcing for non-essential, non-academic services**

## **Organizational Chart of The LNMIIT**

Governing Council (GC) is the top-level decision-making body, followed by Academic Council (AC) and its sub-committees like AC-UGC, AC-PGC, etc., and Project Management and Monitoring Committee (PMMC), Finance Committee (FC), and Purchase cum Condemnation Committee (PCC).

<b>Body</b>	<b>Membership Composition</b>	<b>Main Objectives</b>	<b>Remarks</b>
Admissions (UG/PG)	Senior & Junior Faculty representing departments Convener nominated by Director	Update Director regarding fresh admissions Providing admission/institute information to parents & students Online counseling leading to student admission	Term of office – one year New Committee has former Convener as a member Closer coordination with finance section for fee related issues
Hall Management Committee (AC-HMC)	All Wardens, Associate wardens Dean Student Affairs Registrar PMM as invitee AR (Administration) UG/PG students members President Student Gymkhana Chair: Chief Warden	Hostel seat allocation Maintenance & upkeep of hostel rooms & dining halls Outsourcing service contract Physical & mental health Discipline & security Ensuring anti-ragging, anti-substance abuse measures Advising Director	Meets at least twice in semester
Student Activity Committee (AC - SAC)	Chief Warden, Concerned Wardens, Faculty & student representatives MO Chair: Dean Student Affairs	Non-academic discipline related issues	Meets at least once a semester plus as and when required Recommends to the Director about disciplinary action Serious issues brought to AC
Class Committee	All faculty teaching course for particular batch Two student members Chair – faculty who is not associated with teaching the batch	Assessing & assisting in teaching effectiveness Stakeholder feedback Improving T-L processes Reviewing / modifying grades if required	Should meet at least 3 times in the semester Important findings to be placed before the AC
Departmental consultative committee (BoS)	Representative department faculty Faculty from other institutions Chair: Head of the Department	Timetable & course allotment Resource & infrastructure allocation & planning HR assessment & projections Syllabi framing & reviews Budget preparation	Meets at least twice in semester Issues emerging out of the meeting are progressed through AC-UGC/AC-PGC to AC
HoD/HoS/Deans Committee	All Heads of the department & section including, FO, PMM, ARs, MO, Librarian, Chief Warden All Deans Chair: Director	Review & statistics of the past month, Planning for next month Critical issues & possible solutions	Meets once a month on a specific day which is same as Deans Committee meeting day
Deans Committee	All Deans Registrar Chair: Director	Deal with routine administrative matters Address contentious issues needing detailed discussion Plan future academic & administrative activities	Weekly meeting on specified day & time

Body	Membership Composition	Main Objectives	Remarks
Purchase cum Condemnation Committee (PCC)	Faculty representatives from different departments FO PMM Registrar Stores in charge Chair: Nominated by Director	Opening technical & financial bids Negotiate for better terms and conditions Follow the guidelines given in the PCC manual for placing purchase orders Prepare list of items for condemnation duly certified Forward the recommendations to the Director for approval	As and when required but at least once a month
Academic Committee UG Programs AC-UGC	Faculty representatives UG Student members AR Academic Chair: Dean Academic	Consider matters related to UG program Recommend new courses to AC Deciding medals & scholarships	Meets twice in a semester prior to AC meeting
Academic Committee PG Programs AC-PGC	Faculty representatives PG Student members AR Academic Chair: Dean R&D	Considers matters related to PG program Recommends new courses to AC PG medals & PG stipend	Meets twice in a semester prior to AC meeting
Academic Council (AC)	All Deans External Members All Professors All Head of Departments Registrar Other faculty members are invitees Chair: Director	Supreme body dealing with all academic matters (timetable, examinations, scheduling, results, discipline etc.) Recommending body for new courses and programs for GC's consideration	Meets twice in a semester One meeting prior to convocation for recommending names to GC for award of degree
Standing Committee	Director (Member Secretary) One GC Member One State Secretary Chair: GC Nominee	Quick disposal of administrative matters as GC meetings are not frequent Previously PMMC Decisions taken to be ratified in next GC meeting	Meets as and when required Approvals could be via e mode
Finance Committee (FC)	Chairman Standing Committee Director Finance Officer Chair: Chairman GC	Financial planning, approval & re-appropriation Annual budget preparation Recommendations to GC for approving audited accounts	Meets at least once in a year before commencement of financial year
Governing Council (GC)	3 State Secretaries (Chief, Finance, HE-TE) 3 Academic members UGC nominee Industry representatives Dean Academic Director Chair: Nominated by GC	General governance & superintendence Apex policy making body at the institute level Approval for new projects	Meets at least twice in a year – once at the time of convocation (September) & once before new financial year (February)
Statutory Committees	Faculty, Staff & Student Representatives	Directions of regulatory bodies	Meets as and when required but at least once in a semester

**6.2.3. Does the university have a formal policy to ensure quality? How is it designed, driven, deployed and reviewed?**

Yes. The institute's quality policy is as follows:

To regularly collect feedback from stakeholders, to analyze the feedback received, and to take suitable actions.

The quality is assured through deliberations in the Governing Council and its recorded minutes, through deliberations in the Academic Council and its recorded minutes, and via monitoring the performance through various sub-committees of the Academic Council, and via monitoring the progress through the Project Management and Monitoring Committee (PMMC).

Recently constituted IQAC as per the guidelines of the UGC will ensure implementation.

In compliance with the directives of the UGC and the Supreme Court, various Committees are constituted

**6.2.4 Does the university encourage its academic departments to function independently and autonomously and how does it ensure accountability?**

Yes. Functional autonomy is provided to the faculty for introducing new courses, R&D projects, guidance of the PG students etc. The department plans for various activities and prepares the budget for effective implementation. Accountability is assured through periodic reviews.

**6.2.5. During the last four years, have there been any instances of court cases filed by and against the institute? What were the critical issues and verdicts of the courts on these issues?**

There are four cases presently (starting 2011) - 3 in consumer courts and one in High Court. All four concern refund of fees upon admission withdrawal. The institute guidelines are clear and comprehensive on Admission withdrawal and fee refund and are published well in advance. The institute's legal counsel is addressing to these cases.

	Date	Title of the Case	Case filed by	Case ID	Name of the Court	Case Type	Amount	Status	Response	Comments
	20/5/2014	Refund of Fees	Shashank Mittal Vs. The LNMIIT		Sonepat	Legal Notice	5844/-	Not Known	Reply on 28/06/2014	No response from the other party
	5/1/2010	Refund of Fees	Ankit Agrawal & Anr. Vs. The LNMIIT & Ors	171	High Court Rajasthan, Jaipur	SB Civil Writ Petition	152000/-		As per Rajasthan High Court website date of listing 16 April 2015	Likely to be in our favour as the court had directed Ankit Agrawal to implede CCB as the party but as per our Lawyer no such application has been received till date.
	7/4/2009	Refund of Fees	Dr. J P Mehta Vs. The LNMIIT	728	Consumer Court, Jaipur	Consumer Complaint	40600/-		Next bearing Date: 30 April, 2015	
2013		Refund of Fees	Mukesh Pondrik Vs. The LNMIIT	1042	Consumer Court, Jaipur				Next bearing Date: 11 May, 2015	

**6.2.6. How does the university 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?**

Grievances are routed through the appropriate channels to the Director. The procedures are clearly spelt out in the HR Manual for employees, and in UG manual and PG manual for students. A Gender Sensitization Cell and a Counseling Cell exist. Ombudspersons have also been nominated. Director appoints a committee to redress the complaint and make recommendations.

There are multiple levels at which grievances are taken care of. Students can approach the Wardens, Chief Warden and Dean Student Affairs for any grievance related to their academic and non-academic needs. In case of grievances related to evaluation and grading, students can ask the teacher for a review of evaluation. If still not satisfied, they can approach the HoD. Class Committees meet at least three times a semester to monitor academic matters, results, and analyse trends of students' performance. Batch-wise results are compiled to check the student as well as course performance. Cases of negligence, if any, are brought to the notice of the Class Committee and through Dean Academics to Director's notice who ultimately decides the administrative action needed in the matter.

**6.2.7. Does the university have a mechanism for analysing student feedback on institutional performance? If yes, what was the institutional response?**

Yes. On the academic front, course feedback is collected every semester and is analysed at various levels including Director, Heads of Departments and at individual faculty level. Administrative feedback has been initiated recently whereby student feedback is collected on institute's services including hostel services, library, infrastructure, academic and administrative processes, etc. The institute also gathers a comprehensive feedback from the graduating batch in the form of a graduate survey. The feedback is analysed and acted upon at various levels. Students' opinions and views are analysed very carefully and time and again improvements or new measures have been introduced. One example being the introduction of six-month internship (8<sup>th</sup> semester) with industry or academia.

Student representatives are also part of various academic and administrative bodies like Senate, Academic Council and all of its sub committees, Placement Cell, E-Cell, Class Committee, etc. through which feedback on institutional performance is obtained for analysis and further action.

**6.2.8. Does the university conduct performance audit of the various departments?**

Yes (Academic Audit, Annual HODs report, Energy Audit, Finance Audit)

**6.2.9 What mechanisms have been evolved by the university to identify the developmental needs of its affiliated institutions?**

Not Applicable

**6.2.10. Does the university have a vibrant College Development Council (CDC) / Board of College and University Development (BCUD)? If yes, detail its structure, functions and achievements.**

Not Applicable

**6.3 Faculty Empowerment Strategies**

The institute empowers the faculty to participate in (a) recruitment process for the faculty as well as non-teaching staff, (b) deciding and prioritizing the plan expenditure for the next academic year, (c) introduction of new courses at UG and PG level and (d) overall supervision of the academic program for the respective department. Competencies and the expertise so developed are utilized in taking up higher leadership responsibilities.

**6.3.1. What efforts have been made to enhance the professional development of teaching and non-teaching staff?**

The institute proactively conducts Faculty Development Programs, conferences, workshops, etc. in order to enable the faculty to keep abreast with technological developments. Similar programs are organized for non-teaching staff. The institute offers yearly financial grants to all faculty members to participate in reputed conferences and workshops, FDPs, training programs, summer / winter schools organized by other institutes.

- Research grants
- MATLAB training for non-teaching staff
- English language classes for non-teaching staff
- Higher education leave and financial support (for faculty members going for doctoral or post-doctoral)
- Recruitment of best quality faculty

**6.3.2 What is the outcome of the review of various appraisal methods used by the university? List the important decisions.**

Annual pay-raise depending on the performance appraisal result for all faculty members. Important decisions follow:

- (a) All faculty members are regularized after three years of successful service to institute
- (b) Existing faculty has to compete all over again with all internal/external applicants if they want to be considered for a higher position,
- (c) Retirement age for faculty revised to 65 (extendable up to 70 on a case-by-case basis).

**6.3.3. What are the welfare schemes available for teaching and non-teaching staff? What percentage of staff have benefitted from these schemes in the last four years?**

Every faculty and staff member is eligible for Medical Insurance and Provident Fund. Free medical facilities are available on campus. Accommodation on campus is available for a large percentage of teaching and few of the non-teaching staff.

- ⊕ **Medical Facility:** The institute has an in-house medical center with a Resident Medical Officer, para-medical staff to attend to immediate medical needs. For any other emergencies patient is referred to specialized hospital. The institute has identified neighborhood medical hospital facilities. A state of the art ambulance is also available. Students, faculty, non-teaching staff and their families are covered under medical Insurance policy.
- ⊕ **Campus Accommodation, HRA & Travelling Allowance:** Accommodation is offered to faculty and non-teaching essential staff, if available, with subsidized license fee. Employees who are staying outside the campus are paid HRA as decided by the Governing Council. All the personnel are provided travelling allowance as per their cadre. About 75 faculty and staff are provided accommodation on and nearby campus. On a case-by-case and need basis guest house accommodation is offered to the faculty for short duration.
- ⊕ **Perks, Benefits and Retirals:** In addition to the above, all employees are also eligible for PF, gratuity, casual / special / vacation leave, leave travel allowance, TA/DA, as per institutional norms defined in appropriate manuals. All the faculty and staff utilize most of these facilities on an annual basis as per eligibility and guidelines of the institute.

**6.3.4. What are the measures taken by the University for attracting and retaining eminent faculty?**

Academic freedom, attractive remuneration, intellectually challenging environment, research ambience, serene surroundings, on-campus housing, medical facilities, transportation facilities, recreation facilities, sabbatical facility, support for research and academic activities etc.

**6.3.5. Has the university conducted a gender audit during the last four years? If yes, mention a few salient findings.**

Formally not done but approximately 30% students are female and approximately 25% faculty is female.

**6.3.6. Does the university conduct any gender sensitization programmes for its faculty?**

Yes, it is a part of sexual harassment committee's proceedings which are publicized.

**6.3.7. What is the impact of the University's Academic Staff College Programmes in enhancing the competencies of the university faculty?**

Not Applicable

## 6.4 Financial Management and Resource Mobilization

**6.4.1. What is the institutional mechanism available to monitor the effective and efficient use of financial resources?**

Comprehensive mechanism based on the established policies and procedures as evidenced by the minutes of the following bodies - Governing Council (GC), Project Management and Monitoring Committee (PMMC), Finance Committee (FC), Purchase cum Condemnation Committee (PCC), Finance Audit, Regular Reviews, Annual Review, Purchase and Procurement Manual and IT Committee.

**6.4.2. Does the university have a mechanism for internal and external audit? Give details.**

Yes, external annual audits by reputed firms. See Annexures 3

**6.4.3 Are the institution's accounts audited regularly? Have there been any major audit objections, if so, how were they addressed?**

Yes. No major objections have been raised so far.

**6.4.4. Provide the audited income and expenditure statement of academic and administrative activities of the last four years.**

See Annexure 3

**6.4.5. Narrate the efforts taken by the University for Resource Mobilization.**

The operating expenditure is normally serviced from the student fee collection and interest on fixed deposits. Other sources of funds include externally funded R&D projects.

**6.4.6 Is there any provision for the university to create a corpus fund?**

Procedure is initiated.

## 6.5 Internal Quality Assurance System

**6.5.1. Does the university conduct an academic audit of its departments? If yes, give details.**

Yes, Academic Audit by external experts has been initiated. Additionally, Heads of Departments submit Annual Reports to the Director which serve similar purpose.

**6.5.2. Based on the recommendations of the academic audit, what specific measures have been taken by the university to improve teaching, learning and evaluation?**

Curriculum restructuring has been one consequence of the said process. Certain courses have been restructured. Academic Council sub-committees review the measures and take necessary steps.

**6.5.3. Is there a central body within the university to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

Yes, Academic Council, with Director as Chairman, all Professors as members, and nominated internal/external members (including students), Regular meetings are held and detailed minutes are kept. Action-taken Reports (ATRs) are presented, at the beginning of each meeting, by all Heads of Departments and Heads of Sections. A new Department called Mechanical-Mechatronics was created, slot-based academic time-table was implemented, HOD positions were created, etc. At department level, class committees have been formed to monitor the teaching-learning process at the class/batch level. There are also Departmental Academic Committees which monitor academic processes at the department level. All these bodies report to the Academic Council.

**6.5.4. How has IQAC contributed to institutionalizing quality assurance strategies and processes?**

**IQAC has been formed on March 21, 2015 with the following members:**

- Prof. R. Tomar – Chairperson
- Prof. Ranjan Gangopadhyay, Chairman QARC
- Dr. Manju Dharwal, Dean Academic
- All Department HoDs or their nominees as members
- Mr. Rajeev Saxena – Secretary

**The IQAC has Institutionalized Quality Assurance via the following:**

- (i) To ensure the effective functioning of the QARC
- (ii) To ensure the effective functioning of the QATC

Internal Quality Assurance is also being implemented through various other mechanisms and bodies. AC-UGC and AC-PGC play a major role in monitoring and quality assurance in academic process, which is overseen by the Academic Council. At departmental level, quality in teaching-learning process is assured by departmental academic committees and class committees. Academic Audit is another important mechanism to this end.

**6.5.5. How many decisions of the IQAC have been placed before the statutory authorities of the University for Implementation?**

IQAC currently has only recommendatory role. However, almost all decisions by the sub-committees of the

Academic Council are sent to the Chairperson of the Academic Council for deliberation, approval and ratification. AC meeting minutes and GC meeting minutes are available for detailed information. If needed, Chairperson of the Academic Council may place the matter before the Governing Council.

**6.5.6. Does the IQAC have external members on its committees? If so, mention any significant contribution made by such members.**

No.

**6.5.7. Has the IQAC conducted any study on the incremental academic growth of students from disadvantaged sections of society?**

Not yet.

**6.5.8. What policies are in place for the periodic review of administrative and academic departments, subject areas, research centres, etc.?**

Deans/HoDs/HoSs Meeting is one of the places where periodic review is conducted. Periodic review of administrative sections is conducted by the Registrar. Deans/HoDs/HoSs produce an annual report which is submitted to the head of the institute.

***Any other information regarding Governance, Leadership and Management which the university would like to include.***

The LNMIIT is small in size, with limited number of degree programs, compared to CFTIs in India. The institution is a lean organization. Its primary focus is on IT and ITES areas though in the recent times various other alternatives have been explored and are in various stages of implementation. Following are the key highlights of the progression –

Year	# Students	# Faculty	# NTS	Built Area	OpEx	CapEx
2003-04	30	6	6	24428 m <sup>2</sup>	121 Lakh	72 Lakh
2014-15	1168	60	53	75449 m <sup>2</sup>	2445 Lakh	9680 Lakh

It can be seen that for nearly 40 fold increase of number of students, faculty strength has gone up by 10 times and operational expenditure by 20 times in one decade. As the work increased, streamlining the processes, multi-tasking and innovative administrative practices for efficient functioning became very important. All this had to be carried while adhering to fundamental tenets of the institute (no capitation fee, no management quota and admissions only through all India competitive examination). With due consideration to the geographic disposition and competition from similar institutes in the state, attracting high quality faculty and students and retaining them has not been easy. With the average age of the faculty pegged at around 35, getting experienced faculty to assist in shouldering administrative responsibilities, academic and research mentoring has been a challenge and it has been met with well.

For smooth functioning, the institute adopted two manuals which were prepared with assistance from Arcelor Mittal India Limited (AMIL) office in New Delhi and approved by the GC in September 2012: (i) Human Resource (HR) Manual, which broadly describes selection process, code of conduct and other operational details; (ii) Purchase cum Condemnation (PCC) Manual describes the process from indent to purchase order and certification.

For **governance**, the institute adopts both bottoms-up and top-down approach. All the processes and procedures are transparent with democratic participation. Communication of relevant information is through Google user groups. As it is not possible for the Chairman Mr. L. N. Mittal to attend the affairs of the institute due to his other business commitments, this responsibility is delegated to a distinguished person nominated by him. **Acting Chairpersons** of the Governing Council, Finance Committee, and Standing Committee etc. are nominated with full knowledge and approval of Mr. L. N. Mittal.

**Chief Executive** - Administrative and Academic Head of the institute is designated as the Director which is equivalent of the Vice – Chancellor of a university. S/he is chosen by Search cum Selection process for duration of five years. Broadly it is expected that the chosen candidate has adequate background and sound grooming from a top institution. This leadership position is subjected to annual performance review on set parameters. It is envisaged that s/he will be responsible to cultivate and nurture various levels of leaders for tomorrow.

In the hierarchical chain, all other administrative and academic positions are filled by the Director with the prior approval of the GC. The Head of the Department and Deans positions are for fixed tenure. As far as possible, selection is based on perceived competencies, seniority and experience gained during stay at the institute. The institute enjoys full functional, financial, academic and administrative autonomy.

Annual CA Audit of the institute ensures financial compliance with the prevalent rules and is approved by the FC and GC. Additionally Performance Audit is carried out by person designated by Mr. L. N. Mittal. These reports are discussed in GC meeting which advices the Director for suitable corrective action.

**Criterion - VII:**  
**INNOVATIONS AND BEST PRACTICES**

## 7.1 Environment Consciousness

### 7.1.1. Does the university conduct a Green Audit of its campus?

Periodic Energy and Water Audit is conducted for sustained and efficient use of the resources. Water Quality Monitoring-is also conducted regularly.

### 7.1.2. What are the initiatives taken by the university to make the campus eco-friendly?

- **Energy conservation** - Solar Heating
- **Use of renewable energy** - Solar Photovoltaic Cell, Biogas Plant
- **Water harvesting** – Yes
- **Check dam construction** – No
- **Efforts for Carbon neutrality** – Yes
- **Plantation** – Yes
- **Hazardous waste management** – Yes
- **e-waste management** - Yes, through Purchase cum Condemnation Committee (PCC)
- **any other (please specify)** - Sewage Treatment Plant (STP), Water Treatment Plant (WTP)

## 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 university.

- Creation of Departments
- Slot-based time-table
- Smart Classrooms with Networked A/V facility
- Management Information System (MIS)
- Student-driven Innovation Club
- Industry collaboration for research and teaching in emerging areas.

## 7.3 Best Practices

### 7.3.1. Give details of any two best practices which have contributed to better academic and administrative functioning of the university.

- **Academic Administration – Practice 1**

**(1) Objectives:**

- (a) Optimal use of infrastructural resources
- (b) Identifying and nurturing the talent of students of The LNMIIT
- (c) Attracting talented students from other technical institutes in the country
- (d) Enable students to adjust the pace of their academic program
- (e) Earn and Learn option

**(2) Context:**

Small to medium size institutions like the LNMIIT must optimize all the resources with flexibility in operations. Quality students, best faculty and state-of-the-art infrastructure are the need of the hour for establishing brand equity.

**(3) Practice:**

- (a) Morning and afternoon lecture and laboratory sessions are alternated for odd (1-3) and even (2-4) year students. This allows optimum utilization of infrastructure and engagement of human resources without undue strain. Odd Saturdays are available for supplementary and complimentary mode of learning.

- (b) The institute offers merit as well as merit-cum-means scholarships from very first semester. This continues for the entire course of the study subject to good academic performance.
- (c) Summer term internship program LUSIP attracts good number of students from other technical institutes including IITs and NITs during summer break. At the same time our students also take up summer internship in other places. This enables widening of horizon as well as establishing network of likeminded.
- (d) Student normally takes five theory and two labs per semester with contact hours ranging from 21 to 25. S/he is free during remaining hours which could be used to take additional load for accelerated as well as slow learners. The morning-afternoon sessions mentioned above enables the student to adjust pace of learning.
- (e) In the final semester of the academic program, high performing students can ensure light academic load and opt for Industrial internship which fetches them good real life experience and monetary reward. This generally converts into job placement option for most of them.

**(4) Evidence:**

- (a) This morning-afternoon practice is in place for the past two years and initial hurdles have been overcome.
- (b) Student gets financial assistance in terms of fixed amount based on academic grades. If one falls below expected performance, the scholarship is withdrawn. This facility is presently benefiting around 50 students.
- (c) LUSIP has met with resounding success with around 100 participants in various disciplines every year. At times the summer term project translates into full B Tech project which is a necessary requirement.
- (d) Academic records show that the flexibility for the slow as well as high performance learners has been accomplished. This scheme being voluntary in nature has received good response as well as higher commitment from the students. Industries have appreciated institute's efforts in this direction and more industries have showed willingness to make suitable offers to more students in the coming years.
- (e) Graduating batch of 2015 had only 4 full semester interns whereas in 2016 more than 30 students have proceeded for full semester internship.

**(5) Impediments in implementation:**

- (a) Academic day for the student is stretched out to accommodate all the requirements in various slots from 7 am to 7 pm. However being a residential institute for students this does not pose any serious problem.
- (b) There have not been many takers in the merit-cum-means category which needs to be relooked and advertised properly.
- (c) It is difficult to hold the time line for summer term LUSIP project. As faculty mentors have other commitments, faculty participation and active involvement is an issue.
- (d) Certain adjustments are required in flexible academic system in terms of bandwidth for various categories of courses. In some cases it is difficult to implement exactly according to academic stipulations requiring Chairperson's intervention on case-by-case basis.
- (e) It is believed that most of the problems were teething problems in terms of understanding and implementation at various levels. It is expected these would resolve in a short while.

 **Institute-Industry Interaction – Practice 2**

**(1) Objectives:**

- (a) Better job placement of students through internships
- (b) Regular and latest updates in academic curriculum
- (c) Faculty development programs
- (d) Establishment of co-branded laboratories

- (2) Context:** Student employability is an issue that can't be taken alone but needs some help from industries which offer employment to our students. This could be in the form of new and relevant content development as well as critical state-of-the-art laboratory equipment. Such an interaction is expected to be mutually beneficial.

**(3) Practice:**

- (a) Companies visiting the institute get the feel of the strengths and weaknesses of the institute in terms of infrastructure, academic initiatives in providing knowledge and skills for employment and the quality of students.
- (b) Suggestions from the feedback are presented to the Academic Council for appropriate changes in the course content, syllabi. Institute gets to know the direction in which rapidly changing knowledge society is moving through Industry interaction.
- (c) Formal on-site training as well as informal interaction through tech talks helps the faculty to upgrade their base level competencies. This also opens up window of opportunity for faculty internship in industries as well as consultancy and R&D opportunities.
- (d) Training Need Analysis and future system requirements are identified. These requirements are vetted by experts from other institutes. Through negotiations state of the art laboratories have been set up (National Instruments, Texas Instruments, High Performance Computing etc.)

**(4) Evidence:**

- (a) The institute's visibility has attracted some companies which are not bulk recruiters but are working in cutting edge technology. There has been sustained increase in numbers.
- (b) Several industries have participated at times in periodic academic audit conducted by the institute. Notional industry representation is there in the decision making bodies such as Academic and Governing Council.
- (c) Subsequent to the visit by Microsoft, faculty members were identified who were sent to Microsoft Bangalore for Faculty training in Active Directory and Networking. Similarly faculty members participated in training programs from IBM and SAP on the campus.
- (d) Based on future academic development plans as decided at various levels of administrations, DPR is prepared. After ascertaining the adequacy of finance, select industries are contacted and equipment to be procured is identified. Due purchase procedure as approved by the Governing Council is followed. Before placing the order negotiations are carried out and finally after receiving the equipment user certification is obtained before clearing the bill.

**(5) Impediments in Implementation:**

- (a) Geographic location of the campus is the main hurdle in attracting various industries to visit us on long term basis or frequently.
- (b) Industries don't have spare/surplus time to spend in working out detail plan of action. This needs to be addressed via e-mails or Skype type of remote communication.
- (c) At times there are structural issues from the industries to fulfill their commitment on finances as well as availability of human expertise.
- (d) Purchase and procurement procedures are lengthy and at times time consuming. At times service guarantee, AMC issues are problematic.

***Any other information regarding Innovations and Best Practices which the university would like to include.***

The issue of class-room attendance is being tackled through innovative measures like one mini quiz in each lecture, surprise quizzes etc. Additionally students and teachers feedback is solicited under the banner "bringing back the students to the class-room".

Of late, it has been decided to keep the institute library open late nights using two-shifts. This has been warmly welcome by the student community at large.

Around-the-clock access to internet is being provided to students but social media sites are being blocked during late nights.

**(A) Academic –**

- (i)** Students are encouraged to develop skill sets coupled with knowledge from day one to keep their focus on engineering profession that they have chosen. Inquisitiveness and curiosity is nurtured by providing ample opportunities. Some of these are through mini projects, participation in

variety of competitions, co and extracurricular club activities etc. Research infrastructure from NI and TI laboratories, MATLAB with all necessary tool-boxes, high-end servers and computers etc. are available to them round the clock and throughout the year. Some of the projects completed by them e.g. sign language speech converter, physiological parameter markings, touch less musical key board, free Wi-Fi in shopping centers to be extended in the city and buses etc. are appreciated and are patentable. Device development is the key instrument in Internet of Things.

- (ii) There is entrepreneurship development cell in the institute that promotes innovation activities. Students participate in state level competitions and have won awards. Faculty and students also participate and interact with Rajasthan State IT department. Formal and informal interaction with experts during conferences and seminars organized by the institute or elsewhere ignites their mind and motivates them to try their hand and venture out to experiment in the real world.
- (iii) Slot-wise timetable, online feedback forms for course evaluation and result reporting, RFID cards for attendance, technology adaptation etc. are some of the initiatives that help effective administration and management without additional manpower requirement.

**(B) Administrative –**

- (i) From the consideration of optimal utilization of physical and infrastructure resources, institute uses the concept of mirroring of the timetable. Thus for example for the first and third year theory classes would be in the morning and the laboratory sessions would be in the afternoon. For the second and fourth year opposite of that is planned. This allows the students to clear the backlog as additional slots might become available. Typically student is engaged for a particular semester for approximately 25+ contact hours per week and the remaining free time is available to him/her for taking extra courses or learning new skills.
- (ii) Summer term courses and course overload for high performing students enables them to opt for full semester internship with other academic institutions or industries in the last semester. Flexibility associated with credit transfer facility on case by case basis enables student to opt alternative options.
- (iii) Two of the classrooms with 200 capacity each are provided with electrical power points for charging and augmented Wi-Fi connectivity that enables easy conversion of lecture hall into computer laboratory. This would additionally allow on-line tests and examinations as every student possesses laptop computer.
- (iv) Smart class room and Virtual class room are wired which makes it possible to deliver a lecture to 400+ students at the same time. On-line video streaming facility allows campus wide transmission through intranet.
- (v) 1000 m<sup>2</sup> Mechanical Engineering workshop and laboratory complex in a hanger is one open and see through space for easy monitoring as well as from ventilation, lighting point of view. This results in energy saving. Workshop also collects scrap material and converts it into usable metal pieces for machine shop operations. This is an attempt towards teaching students green manufacturing.
- (vi) Bio gas plant in the vicinity of the dining area provides cooking gas supply saving on energy bill. Similarly, spillage water and sludge from water treatment plant is used for gardening purpose and for composting for the vegetable garden.
- (vii) In the central library all the books are RFID tagged. It is possible to carry out stock checking with handheld RFID reader allowing faster processing.

## A. Evaluative Report of the Electronics and Communication Engineering (ECE)

1. **Name of the Department:** Electronics and Communication Engineering (ECE)
2. **Year of establishment:** 2008
3. **Is the Department part of a School/ Faculty of the University?:** Not Applicable
4. **Names of Programmes offered: (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):**
  - (i) 4-year B.Tech.
  - (ii) 4-year B.Tech. (Hons.)
  - (iii) 5-year B.Tech. – M.Tech. Dual Degree
  - (iv) 2-year M.Tech.
  - (v) M.S. (by Research)
  - (vi) Ph.D.
5. **Interdisciplinary programmes and department involved:**  
B.Tech., B.Tech. (Hons.), and B.Tech.-M.Tech. Dual Degree programs of the Department of Communication and Computer Engineering (CCE) in collaboration with the Department of Computer Science and Engineering (CSE).
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
  - ⊕ Quality Enhancement in Engineering Education (QEEE) Program in collaboration with IIT-Madras (Phase I and Phase II).
  - ⊕ Lecture Series on "Probability, Stochastic Processes and Queuing Theory for Engineers and its Applications" by Prof. Rajarshi Roy, Department of E&ECE, IIT Kharagpur.
7. **Details of programs/ courses discontinued, if any, with reasons:**  
M.S. (By Research), Due to lack of interest shown by prospective candidates and a very few students actually opted and graduated during the assessment period.
8. **Examination System (Annual/ Semester/ Choice Based Credit System):**  
Semester with Choice Based Credit System (CBCS)
9. **Participation of the department in the courses offered by other departments:**
  - ⊕ Course on "Technical Writing and Research Methodologies (TWRM)" in collaboration with the HSS Department.
  - ⊕ Course on "IT and Globalization" in collaboration with the HSS Department.
  - ⊕ Course on "System Simulation and Process Optimization (SSPO)" in collaboration with MME Department.
  - ⊕ Course on "Space Science and Technology (SST)" in collaboration with MME Department.
10. **Number of teaching posts sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others):**  
The recruitment of a faculty is need based. At present, the Department of ECE has 14 regular faculty members. In addition to this, the department invites visiting faculty, as per the need, to enhance the diversity of the courses.

Position	Sanctioned	Actual / Filled
Professor	Flexible	1
Associate Professor	Flexible	1
Asst. Professor	Flexible	11
Others (Lecturer/ Visiting Faculty/ Emeritus Professor)	Flexible	1

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:**

Sr. No.	Name	Qualification	Designation	Specialization	Experience (No. of years)	No. of Ph.D./ M. Tech./ M.S. students guided for last 4 years
1	Prof. Ranjan Gangopadhyay	Ph.D.	Emeritus Professor	Photonics, Wireless Communication, and Cognitive Radio	35 Years	Ph.D.: 1, 2 (ongoing) M. Tech.: 4
2	Prof. Raghuvir Tomar	Ph.D.	Professor	RF and Microwaves	33 Years	M. Tech.: 2 M.S.: 5
3	Dr. Soumitra Debnath	Ph.D.	Associate Professor	Optical Networks, Cognitive Radio, and Queuing Theory	6 Years 8 Months	Ph.D.: 2 (ongoing) M. Tech.: 4 M.S.: 1
4	Dr. Kusum Lata	Ph.D.	Assistant Professor	VLSI Design	4 Years 10 Months	Ph.D.: 1 (ongoing) M. Tech.: 9, 1 (ongoing)
5	Dr. Divyang Rawal	Ph.D.	Assistant Professor	Signal Processing, Information and Communication Technology	4 Years	Ph.D.: 1 (co-supervisor) M. Tech.: 5
6	Dr. Navneet Upadhyay	Ph.D.	Assistant Professor	Speech and Audio Processing, Multi-Resolution Analysis	13 Years	M. Tech.: 4
7	Dr. Akshay Salimath	Ph.D.	Assistant Professor	Microelectronics, Spintronics, Semiconductor Devices, Graphene Electronics, Mixed Signal Circuit Design	1 Year	M. Tech.: 1
8	Dr. Smriti Dwivedi	Ph.D.	Assistant Professor	RF and Microwaves	3 Years	Nil
9	Dr. Santosh Shah	Ph.D.	Assistant Professor	Wireless Sensor Networks	2 Years	Nil
10	Dr. Abhishek Sharma	Ph.D.	Assistant Professor	Embedded Systems	5 Years	Ph.D.: 1 (ongoing)
11	Mr. Purnendu Karamkar	M. Tech.	Assistant Professor	Wireless Communication	7.5 Years	M.Tech.:3 M.S.:1
12	Mr. Sandeep Saini	M.S.	Assistant Professor	VLSI Design, Natural Language Processing	6 Years	M. Tech.: 3 M. S.: 2
13	Mr. Dharmendra Dixit	M. Tech.	Assistant Professor	Signal Processing	6 Years	M. Tech.: 2
14	Mr. Kapil Jainwal	M. Tech.	Assistant Professor	VLSI Circuit Design, CMOS Image sensors, Electronics Systems	7 Years	M. Tech.: 6

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

Visiting Fellows	Adjunct Faculty	Emeritus Professors
Nil	Nil	1. Prof. Ranjan Gangopadhyay

**13. Percentage of classes taken by temporary faculty – programme-wise information.**

Program	Course Name	Visiting Faculty
B.Tech.	Embedded Systems	100%
B.Tech.	Vector Space Projection	100%
B.Tech.	Control System Engineering	100%

**14. Program-wise Student Teacher Ratio:**

B. Tech.	343:14 (~24:1)
M. Tech.	19:14 (~1.4:1)
M.S.	Not Applicable
Ph.D.	1:2

**15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual)**

- ✚ Sanctioned: Flexible, as per the need
- ✚ Presently there are 06 Lab Assistants

**16. Research thrust areas as recognized by major funding agencies:**

Cognitive Radio (Wireless Communication/ Mobile Broadband)

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**Ongoing projects from -**

- (a) National funding agencies: 02
- (b) International funding agencies: Nil
- (c) Total grants received: INR 102.4 Lakhs

**Names of the funding agencies, project title and grants received project-wise:**

Name of the Project:	Mobile Broadband Service Support over Cognitive Radio Networks
Funding Agency:	Information Technology Research Academy (ITRA), Department of Electronics and Information Technology (DeitY), Govt. of India
Grant:	102.4 Lakhs
National / International	National

**18. Inter-institutional collaborative projects and associated grants received – 01**

**(a) National collaboration:**

IIT Delhi, Institute of Radio Physics and Engineering (IRPE, Calcutta University), North Eastern Regional Institute of Science and Technology (NERIST), NIIT University

**(b) International collaboration:**

Fert Beijing Institute, Beijing, China

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE etc.; total grants received. Nil**

**20. Research facility/ centre with:**

- ✚ State recognition: Nil
- ✚ National recognition: Nil
- ✚ International recognition: Nil

**21. Special research laboratories sponsored by / created by industry or corporate bodies:**

- ✚ Texas Instruments (TI) sponsored Embedded Systems Lab
- ✚ National Instruments (NI) Lab

**22. Publications:**

- ❖ **Number of papers published by existing faculty members in peer reviewed journals/ conferences (national/ international)**
  - (i) National/ International conference papers: 12 (National), 95 (International), 107 (total, since 2010)
  - (ii) National/ International Journal papers: 26
- ❖ **Monographs:** 01
- ❖ **Chapters in Books:** 04
- ❖ **Edited Books:** Nil
- Books with ISBN with details of Publisher:** 02
- Book:**
  - Sandeep Saini, "Low Power Interconnect Design" (2015). Springer's Lecture notes in Computer Science. ISBN 978-1-4614-1323-3
- Book Chapter:**
  - Yogendra Gupta, and Sandeep Saini. "Thermometer to Gray Encoders." Performance Optimization Techniques in Analog, Mixed-Signal, and Radio-Frequency Circuit Design. Hershey: IGI Global, 2014. 345-359
- ❖ **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):**  
19 (Google Scholar)/ 16
- ❖ **Citation Index – range/ average:** 3 - 68
- ❖ **SNIP:** Not Applicable
- ❖ **SJR:** Not Applicable
- ❖ **Impact Factor:** range/ average: 0.64- 9.03
- ❖ **h-index:** 1- 6

**23. Details of patents and income generated:** Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally/ internationally to visit other laboratories/ institutions/ industries in India and abroad:** 07

- (a) Prof. Ranjan Gangopadhyay (Scoula Superiore Sant'Anna, Pisa, Italy)
- (b) Dr. Soumitra Debnath (Osaka University, Japan)
- (c) Dr. Akshay Salimath (Fert Beijing Institute, Beijing, China)
- (d) Mr. Purnendu Karmakar (IIT Kharagpur, India)
- (e) Mr. Kapil Jainwal (IIT Delhi, India)
- (f) Mr. Dharmendra Dixit (IIT Bhubaneswar, India)
- (g) Mr. Sandeep Saini (MNIT, Jaipur, India)

**26. Faculty serving in:**

- (a) **National committees:** Nil
- (b) **International committees:** Nil
- (c) **Editorial Boards:**  
American Association for Science and Technology (Dr. Akshay Salimath)
- (d) **Any other (please specify):**
  - (i) Prof. R. Tomar is the reviewer for the British Journal "Electronics Letters"
  - (ii) Dr. Soumitra Debnath is the TPC member in 2 International Conference

**27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programs, workshops, training programs and similar programs):**

- ❖ Participation in various Faculty Development Programs, Conferences, Workshops, Symposia, and training programs, etc.
- ❖ Partial financial support for attending conferences, full financial support for attending Faculty Development Programs.
- ❖ By arranging periodic national workshops.

**28. Student projects:**

- ❖ **percentage of students who have done in-house projects including inter-departmental projects:**  
100% (BTP & LUSIP)
- ❖ **percentage of students doing projects in collaboration with other universities/ industry/ institute:** Nil

**29. Awards/ recognitions received at the national and international level by -**
**❖ Faculty:**

- (i) **Prof. R. Tomar** is a Fellow of the Institution of Electronics and Telecommunication Engineers (IETE), India.
- (ii) **Prof. R. Gangopadhyay** delivered a keynote speech in ICCEC International Conference held in Military Institute of Technology, Dhaka, Bangladesh.
- (iii) **Dr. Santosh Shah**
  - (a) Universidad de Valencia, Valencia, Spain
  - (b) Scholarship for doctorate degree Ph.D., (2009 - present)
  - (c) The 8th IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS '12), Hangzhou, China
  - (d) Best student paper award, (May 2012)
  - (e) The LNM Institute of Information Technology, Jaipur (Rajasthan), India
  - (f) Scholarship for M.S. by Research, (2005 - 2008)
  - (g) European Association for Signal Processing (EURASIP) (2013 - present)
  - (h) Institute for Electrical and Electronics Engineers (IEEE), Member (2011 - present)
  - (i) International Association of Computer Science and Information Technology (IACSIT), Senior Member (2008 - present)

**(iv) Dr. Navneet Upadhyay:**

- (a) IETE, Life Member
- (b) IAENG (International), Life Member

**(v) Dr. Kusum Lata:**

- (a) **Outstanding Research Paper Award** in "1<sup>st</sup> Asia Symposium on Quality Electronic Design (ASQED'09)", July 15-16, 2009, Kuala Lumpur, **Malaysia**.
- (b) **"Spontaneous Recognition Award"** (SRA) from **INTEL Pvt. Ltd. Bangalore, India** during Research Internship Period in 2005.

**(vi) Dr. Akshay Salimath:**

- (a) MHRD Fellowship for doctoral study at IIT Kanpur, India (August 2011- January 2015).
- (b) Austrian Ernest Mach Scholarship for higher studies at TU Vienna, Austria (July 2011).
- (c) Who's Who in the World® 2015 in Science and Technology, (Marquis).
- (d) High Distinction Certificate from Purdue University on successful completion of Online Course "Fundamentals of Nanotechnology" offered by Prof. Supriyo Datta (2012).
- (e) Intel Scholar Award 2008-09 in the national level contest for graduate students all over India. Project Title: Low Power Bus Coding for Buffered Data Transfer.
- (f) Project Grant by the Defense Research and Development Organization (DRDO) India, for the project: IO Protection Strategies in Multi Voltage Signaling Environment in ICs (2010-2013).PI: Prof. Govindarajulu R, IIIT Hyderabad, India.
- (g) IIIT Hyderabad Graduate Fellowship 2007-2010.

**❖ Doctoral/ Post-doctoral fellows:** Nil

**❖ Students:** Nil

**30. Seminars / Conferences / Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:**

- ❖ Three-day Workshop on Modeling, Simulation, and Computational Techniques, January 15-17, 2015.
- ❖ Funding – ITRA, ArcelorMittal, DST Rajasthan, ICICI Bank, The LNMIIT, Keysight Technologies, AGMATEL, Scientific Technologies.

**Participants:**

- (1) Prof. R. K. Shevgaonkar (Director, IIT Delhi)
- (2) Prof. A. Chockalingam (IISc Bangalore)
- (3) Prof. Peter Cochrane (Bradfordshire University)
- (4) Dr. Varun Jeoti Jagadish (Universiti Teknologi PETRONAS)
- (5) Prof. B. Ravi (IIT Bombay)
- (6) Prof. Ramesh Garg (IIT Kharagpur)
- (7) Prof. Swades De (IIT Delhi)
- (8) Prof. Navkant Bhat (IISc Bangalore)
- (9) Prof. Subhajit Sen (IIT Bangalore)
- (10) Prof. Virendra Singh (IIT Bombay)
- (11) Prof. Shankar Prakriya (IIT Delhi)
- (12) Dr. Aditya K. Jagannatham (IIT Kanpur)
- (13) Dr. Sumanta Gupta (IIT Patna)

**31. Code of ethics for research followed by the departments:**

- ⊕ The department of ECE strives for the highest standards of excellence and morality in research activities. The department ensures the compliance of professional standards by the faculty. Through the teaching of compulsory course on Technical Writing and Research Methodology (TWRM) for PG students, a sense of ethics is inculcated in students.
- ⊕ An internal statutory body named as "Quality Assurance Research Committee (QARC)" screens the research papers/ proposals for adherences to the best practices and standards.
- ⊕ Plagiarism Detection Software is being bought.

**32. Student profile programme-wise:**

Name of the Program (refer to question no. 4)	Total Students	Selected		Pass Percentage	
		Male	Female	Male	Female
B.Tech. (ECE) – Y08	58	46	12	100	100
B.Tech. (ECE) – Y09	96	78	18	100	100
B.Tech. (ECE) - Y10	197	137	60	100	100
B.Tech. (ECE) - Y11	96	76	20	92	100
B.Tech. (ECE) - Y12	114	87	27	NA	NA
B.Tech. (ECE) - Y13	116	85	31	NA	NA
B.Tech. (ECE) - Y14	113	83	30	NA	NA
B.Tech. (ECE) - Y15	76	63	13	NA	NA
M.Tech. (ECE) - Y11	3	2	1	100	100
M. Tech. (ECE) - Y12	6	2	4	100	100
M. Tech. (ECE) - Y13	12	4	8	100	100
M. Tech. (ECE) - Y14	15	5	10	NA	NA
M. Tech. (ECE) - Y15	4	1	3	NA	NA
M.S. (ECE) - Y12	5	3	2	100	100
M.S. (ECE) - Y13	3	1	2	100	100
Ph.D. -Y12	1	1	0	NA	NA
Ph.D. -Y13	1	1	0	NA	NA
Ph.D. -Y14	1	1	0	NA	NA
Ph.D. -Y15	1	0	1	NA	NA

**33. Diversity of Students:**

<b>Name of the Course</b> (refer to question no. 4)	<b>No. of students</b>	<b>% of students from the same university</b>	<b>% of students from other universities within the State</b>	<b>% of students from universities outside the State</b>	<b>% of students from other countries</b>
M. Tech. (ECE) - Y11	3	0	100	0	0
M. Tech. (ECE) - Y12	5	0	100	0	0
M. Tech. (ECE) - Y13	13	0	46	54	0
M. Tech. (ECE) - Y14	15	6.67	66.67	26.67	0
M. Tech. (ECE) - Y15	4	0	75	25	0
M.S. (ECE) - Y12	5	20	20	60	0
M.S. (ECE) - Y13	3	0	100	0	0
Ph.D. -Y12	0	0	0	0	0
Ph.D. -Y13	0	0	0	0	0
Ph.D. -Y14	1	100	0	0	0
Ph.D. -Y15	1	100	0	0	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

<b>S. No.</b>	<b>Name of Exam</b>	<b>No. of student cleared</b>
1	Civil Services	Not Available
2	Defense Services	10
3	NET	2
4	SET	Not Available
5	GATE	15 per batch approximately 60
6	CAT/MAT/XAT	10 per batch approximately 40
7	GRE	10 per batch approximately 40

**35. Student progression:**

<b>Student progression</b>	<b>Total No of student graduated in last 4 year</b>	<b>Percentage against enrolled</b>
UG to PG (Y08-Y11)	447	16%
PG to M.Phil.	NA	NA
PG to Ph.D. (Y11-Y13)	27	11%
Ph.D. to Post-Doctoral	0	Yet to complete PhD
Employed <ul style="list-style-type: none"> <li>▪ Campus selection</li> <li>▪ Other than campus recruitment</li> </ul>		87% 13%
Entrepreneurs	447 + 27	1%

**36. Diversity of Staff:**

<b>Percentage of faculty who are graduates</b>	
of the same university	Nil
from other universities within the State	~ 7% (1/14)
from universities from other States	~ 79% (11/14)
from universities outside the country	~ 14% (2/14)

**37. Number of faculty members who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: 06**

- ⊕ Dr. Akshay Salimath was awarded Ph.D. in 2015
- ⊕ Dr. Divyang Rawal was awarded Ph.D. in 2014
- ⊕ Dr. Santosh Shah was awarded Ph.D. in 2014
- ⊕ Dr. Navneet Upadhyay was awarded Ph.D. in 2013
- ⊕ Dr. Smrity Dwivedi was awarded Ph.D. in 2013
- ⊕ Dr. Abhishek Sharma was awarded Ph.D. in 2013

**38. Present details of departmental infrastructural facilities with regard to -**

- (a) **Library** – The central library houses relevant text and reference books and has subscribed to databases like, IEEE, Science Direct, etc.
- (b) **Internet facilities for staff and students** – Wi-Fi in the academic area and fibre line connectivity in faculty offices, faculty and staff housing complex, hostels rooms.
- (c) **Total number of class rooms** – 16 (shared by all the departments from the pool of class rooms available in the institute).
- (d) **Class rooms with ICT facility** – 16 (all the classrooms are equipped with ICT facility)
- (e) **Students' laboratories** - 07
- (f) **Research laboratories** – 01

**39. List of doctoral, post-doctoral students and Research Associates:**

- (a) **From the host institution/ university** – Doctoral: 03; Research Associates: 03
- (b) **From other institutions/ universities** – 02

**40. Number of post graduate students getting financial assistance from the university:**

Year	M. Tech.		M.S.		Ph.D.	
	Male	Female	Male	Female	Male	Female
Y11	2	1	1	2	0	0
Y12	3	2	3	2	0	0
Y13	4	9	1	2	0	0
Y14	5	10	NA	NA	1	0
Y15	1	3	NA	NA	0	1

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

Yes. The institute has the Academic Council (AC), which carries out the same tasks that a Board of Studies (BoS) does in various universities. The relevance of the program offered is ensured through analyzing feedback from the students, employers, experts and peers through discussions amongst colleagues. Recently, a BoS have also been constituted with two external members, who are highly-experienced faculty members from other premier institutes within India.

**42. Does the department obtain feedback from –**

- (a) **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** – Yes.

- (i) Before a new course is offered, the course information form (CIF) is circulated among all the faculty members of the department as well as to the entire teaching fraternity of the institute. All the suggestions/ feedback and changes are reviewed collectively by the department/ DAC/ BoS and incorporated in the curriculum therein. Subsequently, AC-UGC and AC reviews it for further approval.
- (ii) If any changes are required in the existing courses, as identified by the stakeholders, other than the faculty members, then the respective course instructors put his/her comment on the feedback and the BoS decides on the further modifications.

**(b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? - Yes.**

- (i) Formal mechanism exists for taking student feedback on staff after the completion of each course.
- (ii) At the end of each semester, the students are required to give their anonymous feedback online on all aspects of teaching-learning in the feedback form designed specifically for this purpose. The feedback received is reviewed by the head of the institute and if needed, the concerned faculty is counseled for necessary action.
- (iii) Individual faculty member also collects feedback from the students through online Google forms to assess the attainment of course outcomes and teaching-learning methods.

**(c) Alumni and employers on the programs offered and how does the department utilize the feedback? - Yes.**

- (i) Formal mechanism to collect feedback from alumni for all aspects of the program offered.
- (ii) The feedback is discussed in departmental meetings.
- (iii) Feedback from few recruiters is collected through training and placement (T&P) cell at the time of campus placement activities.

**43. List the distinguished alumni of the department (maximum 10):**

The first batch of students enrolled in the Department of ECE in the year 2008 and they were graduated in the year 2012. It is too early to assess their contributions in the professional world and thus perhaps no one belongs to the distinguished category.

**44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.**

Name of Workshop	Organized by / Resource Person	No. of Participants
TI Analog Campaign 2014	Dr. Preety Singh and Dr. Abhishek Sharma	150+
TI Analog Campaign 2015	Mr. Sandeep Saini	240+
Workshop on Single Board Computers, Dec. 2014	Dr. Abhishek Sharma and Mr. Sandeep Saini	53
Workshop on Vivado Design Tool Flow using Zybo Board, 30-31 <sup>st</sup> July, 2015	Mr. Vinay Kumar (CoreEL Technologies)	15
Workshop on Control System and Automation using MATLAB, 21-22 <sup>nd</sup> August, 2015	Dr. Joseph Abraham, IIEST Trivendrum	26
National Workshop on VLSI and Embedded Systems Design using Xilinx Vivado Design Suite & ZyboSoC (VESD – 2015), 25-27 <sup>th</sup> Sep., 2015, in association with CoreEL Technologies Pvt. Ltd. And Xilinx	Dr. Kusum Lata and Mr. Sandeep Saini (LNMIIT, Jaipur)	35

At the beginning of the first semester, screening test of admitted students taken followed by a semester long grooming in the areas of need. Eminent scholars in the field are invited to deliver lectures on topics of general interest as well as those related to the courses offered. The students are also encouraged to participate and present papers in the conferences.

**45. List the teaching methods adopted by the faculty for different programmes:**

- |   |  |
|---|--|
| <b>M1</b> - Lecture interspersed with discussions | <b>M7</b> - Laboratory   |
| <b>M2</b> - Lecture followed by a quiz            | <b>M8</b> - Promote Active Learning  |
| <b>M3</b> - Tutorial                              | <b>M9</b> - ICT tools/ Multimedia enabled lecture delivery                 |
| <b>M4</b> - Group Discussion                      | <b>M10</b> - Video Lectures (NPTEL, MIT, etc.)                             |
| <b>M5</b> - Group Assignment                      | <b>M11</b> - Term Paper/Report - Innovative Delivery Methods/ Technologies |
| <b>M6</b> - Group Project                         | <b>M12</b> - Course/ Learning Management System                            |

**46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?**

Through continuous evaluation involving quizzes, open discussions, individual and group project assignments, oral presentations, mid-term and end-term examination. Feedback received by T&P from recruiting companies is placed in various forums for analysis and subsequent adaptation. Feedback received from the students/alumni, is placed in the departmental meetings for necessary action.

**47. Highlight the participation of students and faculty in extension activities.**

- ⊕ Teaching the mess workers and their children by the student members of the Sankalp group. The program is known as Mess Workers Education Program (MWEP).
- ⊕ Visits to nearby villages with MO for health counseling and treatment.
- ⊕ Organize workshops and quizzes, by the students of IEEE Student Branch of LNMIIT, throughout the year.
- ⊕ Invited distinguished scholars of national and international level are called for lecture series.
- ⊕ Organize blood donation camp.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ⊕ Institute seminars by faculty members.
- ⊕ Extension seminars by eminent scholars.
- ⊕ IEEE student branch workshop and seminars.

**49. State whether the program / department is accredited / graded by other agencies? If yes, give details.** No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been striving for knowledge creation through an amalgamation of teaching-learning and research. The Faculty has teaching and research contribution in the areas of -

- ⊕ Mobile Communication / Wireless Communication
- ⊕ VLSI and Embedded Systems
- ⊕ RF & Microwave (antenna and filter design)
- ⊕ Cognitive Radio
- ⊕ Signal Processing

**Department has both M.Tech and Ph.D programs. We have 19 M.Tech and 04 Ph.D students.**

B. Tech. Projects and Summer Internship (LUSIP) projects offered by the department ensure students participation in research and knowledge creation. Workshops, seminars and expert lectures are also organized to keep abreast of the new knowledge generated in various fields. The publications of the faculty members and the students in national / international conferences and peer reviewed journals reflect the quality of generation of new knowledge.

**51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**Strengths:**

- (1) Interdisciplinary nature of the department
- (2) Young and enthusiastic faculty; the Department has a good number of faculty members, most of whom are having a Ph.D. degree (or are pursuing Ph.D. degree).
- (3) Flexibility to engage experienced faculty on semester basis
- (4) Diversity in research areas
- (5) Peer reviewed quality publication
- (6) Organizing international conference, workshop, seminar

**Weaknesses:**

- (1) Unavailability of senior faculty for mentoring
- (2) Branding of the department being placed in a technology institute

- (3) Insufficient Research Fund for PhD Students
- (4) Lack of space for developing new lab facilities
- (5) Insufficient trained technical assistant for the advanced laboratories
- (6) Insufficient funding for research paper publication and attending conferences
- (7) The Department does not have any significant autonomy in financial matters and in HR related issues.

**Opportunities:**

- (1) Possibilities for interdisciplinary and collaborative research and academic programs
- (2) Government funding (DST, DRDO, ISRO, UGC, AICTE etc.)
- (3) Alumni funding
- (4) National and International Collaborations and Exchange programs
- (5) Utilization of Lab facilities for Industrial Consultancy
- (6) Patenting of research products and research methodologies
- (7) Consultancy projects.
- (8) Need to build on industry collaborations already initiated (Texas Instruments and Agilent Technologies) as well as look for more collaboration opportunities.

**Challenges:**

- (1) Tapping the inherent interdisciplinary potentialities to the optimum
- (2) Target audience (technology students) demand challenging courses
- (3) Creation of quality infrastructure for increased student enrollment
- (4) Removal of obsolescence of resources/ technologies
- (5) Improving placement facilities in the core engineering discipline
- (6) To attract good quality PG students

**52. Future plans of the department.**

- (1) Strengthening the Ph.D. program
- (2) Starting a new two-year M. Tech. program in VLSI and Embedded Systems
- (3) Organizing yearly national/international Workshops and Conferences
- (4) Undertaking research projects with the financial assistance from national and international funding agencies
- (5) To develop a center of advanced study and centre of excellence in the areas of research, teaching and industrial collaboration
- (6) National Collaboration and Student Exchange programs with top tier national institutes like IITs
- (7) Young faculty exchange program with foreign laboratories
- (8) Up-gradation of existing syllabus in light of newer technological development
- (9) More funding from Govt. and Industry for encouraging student involvement in the research, to present research paper in the conference and also for collaborative research.

**B. Evaluative Report of the Computer Science and Engineering (CSE)**

1. **Name of the Department:** Computer Science and Engineering
2. **Year of establishment:** 2008
3. **Is the Department part of a School/Faculty of the university?:** No
4. **Names of programs offered:**
  - (i) 4-year B.Tech.
  - (ii) 4-year B.Tech. (Hons.)
  - (iii) 5-year B.Tech, - M.Tech. Dual Degree
  - (iv) 2-year M.Tech.
  - (v) M.S. (by Research)
  - (vi) Ph.D.
5. **Interdisciplinary programmes and departments involved:**  
B.Tech, Dual Degree B. Tech. - M. Tech and M.Tech. of CCE Program with Department of Electronics and Communication Engineering.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**  
QEEE Program in collaboration with IIT, Madras: Computer Networks, Operating Systems, Computer Organization and Architecture.  
IBM; 12 courses in Big Data-analytics track, 13 courses in Mobile and Cloud based applications track;  
Microsoft: 1 course in the field of Active Directory.
7. **Details of programmes discontinued, if any, with reasons:**  
M.S. by Research was a program until 2014. This program has to be discontinued due to declining enrollment compared to that in M.Tech Program.
8. **Examination System:**  
Semester system with Choice Based Credit System is adopted.
9. **Participation of the department in the courses offered by other departments:**
  - (a) Course on "IT and Globalization" in collaboration with the HSS Department.
  - (b) Course on "Electrical Machines – Instrumentation and Measures" in collaboration with ECE Department.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**  
This department currently has seventeen sanctioned/filled teaching positions.

	<b>Sanctioned (2015)</b>	<b>Filled (2015)</b>
Professor	Flexible	2
Associate Professor	Flexible	3
Assistant Professor	Flexible	12

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./ M.Tech. students guided in the last 4 years
Dr. Ravi P. Gorthi	Ph. D.	Professor	Software Engineering, Artificial Intelligence	37 Years	1 M.S. (Completed) 6 M. Tech (completed) 2 Ph.D (ongoing)
Dr. Narasimha Bolloju	Ph.D.	Professor	Software Engineering	35 years	4 M.Sc Information Systems (completed)
Dr. Sakthi Balan	Ph.D	Associate Professor	Text Analytics, Bio-computing, Automata Theory, Emotion and Cognition Modeling	11 years and 2 months in research/ teaching	0
Dr. Praveen Kumar	Ph.D	Associate Professor	Video/Image surveillance, Video data analytics, Parallel computing	6 years 5 months	01 M.Tech 01 Ph.D. (ongoing)
Dr. Subrat Kumar Dash	Ph.D.	Associate Professor	Data Mining, System Security	6 years 3 months	07 M.Tech. (including 1 ongoing), 01 MS 02 Ph.D. (ongoing)
Dr. Preety Singh	Ph.D.	Assistant Professor	Image Processing, Machine Learning	13 years industry + 6 years teaching	3 M.Tech. (completed)
Dr. Rajbir Kaur	Ph.D.	Assistant Professor	Wireless Ad Hoc Networks	11 years teaching + 3 years industry	01 M.Tech (completed) 01 M. Tech. (ongoing)
Mr. Vikas Bajpai	MS	Assistant Professor	Software Engineering	3 Years	01 M.Tech (completed)
Ms. Sonam Nahar	M-Tech.	Assistant Professor	Computer vision, image processing, machine learning	4 Years and 6 Months	0
Mr. Mukesh Kumar Jadon	MS	Assistant Professor	Text Mining, Information Retrieval	6 Years	0
Dr. Bharavi Mishra	Ph.D	Assistant Professor	Software Engineering and Data Mining	1.5 years	0
Dr. Poonam Gera	Ph. D.	Assistant Professor	Security in MANETs and Cloud Security	12 Years and 4 months	01 (M.Tech completed) 01 (Mtech ongoing) 01 (PhD ongoing)
Dr. Ratnadip Adhikari	PhD	Assistant Professor	Pattern Recognition, Data Mining	6 Months Industry + 3 Years teaching	02 (M.Tech completed)
Mr. Dinesh Khandelwal	ME	Assistant Professor	Graphical Models, Machine Learning	2 Years Industry, 6 years	01 (M.Tech completed)
Dr. Vibhor Kant	PhD	Assistant Professor	Machine Learning, Data Mining	5 Years and 2 Months	02 (M.Tech Completed) 01 (M.Tech. ongoing) 01 (Ph.D. is ongoing)
Mr. Sunil Kumar	M.Tech	Assistant Professor	Computer Architecture and Computer Networks	11 years	0
Dr. Rajni Aron	PhD	Assistant Professor	Cloud Computing	2.5 years	0

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

- ⊕ Prof. B.S. Panda, IIT Delhi.
- ⊕ Prof. C. Pandurangam, Dept. of CSE, IIT Madras (Jan – May, 2012).
- ⊕ Prof. N. Parameswaram, Dept. Of CSE, Univ. of NSW, Sydney, Australia (Feb – Mar, 2013).

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

Program	Subject	Visiting Faculty
B.Tech	Compiler Design	100%
	Computer Programming	50%
M.Tech.		Nil

**14. Programme-wise Student Teacher Ratio:**

B.Tech.	413:17 (~24:1)
M.Tech.	9:17 (~1:2)
Ph.D	4:12 (1:3)

\* excluding first year students

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual.**

	Sanctioned	Filled	Actual
Technical	Nil	Nil	Nil
Administrative	Nil	Nil	Nil
Others (Programmers)	Nil	Nil	02

**16. Research thrust areas as recognized by major funding agencies**

**Following are the thrust areas recognized for research by funding agencies -**

- ⊕ Machine learning and Pattern recognition
- ⊕ Data Mining and Big Data Analysis
- ⊕ Software Engineering
- ⊕ Distributed and Cloud Computing, System Security,
- ⊕ Image processing and Computer vision

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

(a) **National funding agencies:** Nil

(b) **International funding agencies:** Nil

(c) **Total grants received:** Nil

**18. Inter-institutional collaborative projects and associated grants received**

(a) **National collaboration:** IIT Madras, IIT Mandi, IIT Gandhinagar

(b) **International collaboration:** NTU Singapore

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

(a) **Project Title:** Nil

(b) **Funded by:** Nil

(c) **Total Grants received:** Nil

**20. Research facility / center with**

(a) **State recognition:** Nil

(b) **National recognition:** Nil

(c) **International recognition:** Nil

**21. Special research laboratories sponsored by / created by industry or corporate bodies**

- (a) IBM Lab in the areas of Big-Data & Analytics and Mobile-Cloud Based Applications
- (b) SAP Lab in the area of ABAP Programming
- (c) Microsoft Lab in the area of Active-Directory

**22. Publications:**

-  **Number of papers published in peer reviewed journals (national / international):** 76
-  **Number of papers published in international conferences (last 5 years):** 59
-  **Monographs:** Ravi P Gorthi, "Business Applications of Artificial Intelligence", Monograph published for Infosys Research Labs, Bangalore (2009)
-  **Chapters in Books:** Narsimha Bolloju: 2
-  **Edited Books:** Nil

Name	Paper Title	Book Title	ISBN No.	Publisher	Year
Subrat K. Dash	New Malicious Code Detection Using Variable Length n-gramsx	Algorithms, Architectures and Information Systems Security	9812836241	World Scientific	2008
Preety Singh	Speechreading using Modified Visual Feature Vectors	Emerging Applications of Natural Language Processing: Concepts and New Research	ISBN 978-1-4666-2169-5	IGI-Global	2012
	Visual Speech As Behavioral Biometric	Advances in Biometrics for Secure Human Authentication and Recognition	ISBN 978-1466-5824-22	Taylor & Francis (CRC Press)	2013
Rajbir Kaur	DoS Attacks in MANETs: Detection and Countermeasures	Cyber Security, Cyber Crime and Cyber Forensics: Applications and Perspectives.	ISBN13: 9781609601232	IGI-Global	2010
Bharavi Mishra	Data Mining Techniques for Software Quality Prediction	Designing, Engineering, and Analyzing Reliable and Efficient Software	1-4666-2958-4	IGI	2013
Poonam Gera	Detection and Mitigation of Attacks by Colluding Misbehaving Nodes in MANET	Recent Trends in Network Security and Applications	978-3-642-14477-6 (Print) 978-3-642-14478-3 (Online)	Springer	2010
	A Secure Prioritized Trust Based Multi-path Routing Protocol for Ad Hoc Networks	Recent Trends in Networks and Communication	ISBN: 978-3-642-14492-9 (Print) 978-3-642-14493-6 (Online)	Springer	2010
	Opinion Based Trust Evaluation Model in MANETs	Contemporary Computing	ISSN 1865-0929 e-ISSN 1865-0937 ISBN 978-3-642-22605-2 e-ISBN 978-3-642-22606-9	Springer	2011

Name	Paper Title	Book Title	ISBN No.	Publisher	Year
Ratnadip Adhikari	An Introductory Study on Time Series Modeling and Forecasting	LAP Lambert Academic Publishing, Germany	ISBN: 978-3-659-33508-2	LAP Lambert Academic Publishing	2012
	A Treatise on Stability of Autonomous and Non-autonomous Systems: Theory and Illustrative Practical Applications	LAP Lambert Academic Publishing, Germany	ISBN: 978-3-659-34219-6	LAP Lambert Academic Publishing	2012
Sakthi Balan M	Peptide Computers	Languages Alive	Print ISBN 978-3-642-31643-2 Online ISBN 978-3-642-31644-9	Springer	2012
Praveen Kumar	Distributed Video Coding and Content Analysis for Resource Constraint Multimedia Applications	Ubiquitous Multimedia and Mobile Agents: Models and Implementations	ISBN13: 9781613501078	IGI-Global	2011
Vibhor Kant	Incorporating Fuzzy Trust in Collaborative Filtering based Recommender Systems	Swarm, Evolutionary, and Memetic Computing,	Online ISBN 978-3-642-27172-4	Springer	2011
	Enhancing Recommendation Quality of a Multi criterion Recommender System using Genetic Algorithm	Mining Intelligence & Knowledge Exploration		Springer	2015

- ⊕ **Books with ISBN with details of publishers:** Nil
- ⊕ **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)** – Data not kept
- ⊕ **Citation Index – range / average:** data not kept
- ⊕ **SNIP:** 1.4 -1.8
- ⊕ **SJR:** 1.2 -1.5
- ⊕ **Impact Factor – range / average:** 1.4 -2.0
- ⊕ **h-index:** 1-5

**23. Details of patents and income generated:**

- ⊕ **Patents** - 4 Patents by Prof. Ravi P. Gorthi
- ⊕ **Income generated** - Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:**

- (a) Dr. Subrat Kumar Dash was invited and visited Department of Computer Science and Engineering at University of Minnesota, USA during May 15<sup>th</sup> to July 15<sup>th</sup> 2011 to do research on Data Mining for Cyber Physical Systems.
- (b) Dr. Praveen Kumar visited University of Missouri, Columbia, USA from Dec2008 to March 2010 for post doc research in wide area surveillance.

- (c) Mr. Sunil Kumar visited Ratis Lab, Scuola Superiore Sant'Anna, Pisa, Italy during Jan'10 – Jan'11 (under the Indo-Italian fellowship program) and Sep'12 to Dec'13 (under the European Union project) for pursuing collaborative research in the area of Multiprocessor based real-time system.
- (d) Dr. Sakthi Balan was invited and visited Department of Computer Science, University of Western Ontario, London, Ontario, Canada. He was a postdoctoral fellow and was working with Prof. Helmut Jurgensen and his team from April 2005 to March 2008.
- (e) Ms. Sonam Nahar is a PhD Research Scholar at DA-IICT, Gujarat.
- (f) Mr. Dinesh Khandelwal is a PhD Research Scholar at IIT, Delhi.

## **26. Faculty serving in -**

### **(a) National committees –**

Dr. Preety Singh: Program Committee ICACCI, WCI

### **(b) International committees -**

- (i) Prof. Ravi P. Gorthi: ISEC Workshop/ Tutorials / Programme Committee Chairman of ISEC series, ACM-Compute series, SCEECS series
- (ii) Dr. Preety Singh: Program Committee SINCONF series
- (iii) Dr. Rajbir Kaur, Program Committee SinConf 13, 14
- (iv) Dr. Sakthi Balan, Program Committee RAICS 2013, 2015

### **(c) Editorial Boards -**

- (i) Prof. Ravi P. Gorthi: Editor of SETLabs Series (Infosys Research Journal)
- (ii) Dr. Preety Singh: Advances in Biometrics for Secure Human Authentication and Recognition, Taylor and Francis (CRC Press)
- (iii) Dr. Sakthi Balan has reviewed articles of Journal of Theoretical Computer Science, International Journal of Unconventional Computing, 11th International Meeting on DNA Computing, 12th International Conference on Implementation and Application of Automat, 3rd International Conference on Language and Automata Theory and Applications.
- (iv) Dr. Praveen Kumar has served as reviewer of Elsevier journal of Computer Vision and Image Understanding (CVIU), Elsevier journal of Information Fusion, Elsevier journal of Neuro-computing, Springer Journal of Real time Image Processing.
- (v) Dr. Poonam Gera has reviewed articles for Journal of Network and Computer Application (Elsevier) and Journal of Wireless Network (Springer)
- (vi) Dr. Rajbir Kaur has served as a reviewer for SCN Journal Security and Communications Network (Wiley) and Journal of Information Security and Applications (Elsevier)
- (vii) Dr. Subrat K Dash has served as a reviewer for Journal of Security and Communications Network (Wiley), 9<sup>th</sup> International Conference on Information Systems Security, 19<sup>th</sup> International Conference on Advanced Computing and Communications.

## **27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

The faculty participates in various Faculty Development Programs/ Schools and Workshops, Symposia, conferences and training programs. Participation of the faculty in various programs is provided below.

- ⊕ **Mr. Vikas Bajpai** and Ms. Sonam Nahar participated in Faculty training program at IIT Madras during August 20 – 22, 2012 and won the first prize in Active learning activity.
- ⊕ **Dr. Rajbir Kaur** attended an FDP on Advanced Wireless Networks at MNIT, Jaipur from June 30 - July 04, 2014.
- ⊕ **Dr. Rajbir Kaur** attended following in house FDPs conducted by IBM:
  - Essentials of Software Engineering (OOAD & SDLC) using IBM Rational (October 15-18, 2014)
  - Fundamentals of Information Management (DBMS) & DB2 Programming (February 25-27, 2015)
  - Fundamentals of Big Data with Hadoop using InfoSphere BigInsight (February 25-27, 2015)
  - Business Intelligence using IBM Cognos (January 6-9, 2015)
- ⊕ **Dr. Preety Singh** attended following in-house Faculty Development Programs:
  - SAP (August 3-21, 2015), conducted by SAP
  - Fundamentals of Big Data with Hadoop using InfoSphere BigInsight (February 25-27, 2015), conducted by IBM
  - Learning Business Intelligence using IBM Cognos (January 6-9, 2015), conducted by IBM

- Fundamentals of Information Management (DBMS) & DB2 Programming (December 2-6, 2014), conducted by IBM
- Essentials of Software Engineering (OOAD & SDLC) using IBM Rational (October 15-18, 2014), conducted by IBM
- Outcome Based Accreditation Process (February 3, 17-19, 2014)

 **Dr. Subrat K Dash** attended following in-house Faculty Development Programs:

- Fundamentals of Big Data with Hadoop using InfoSphere BigInsight (February 25-27, 2015)
- Fundamentals of Information Management (DBMS) & DB2 Programming (December 2-6, 2014), conducted by IBM
- International Workshop on Data Analytics & Applications, BITS Pilani - Goa Campus, Goa, 26<sup>th</sup> Feb-1<sup>st</sup> March, 2013
- International Workshop on Information Security, BITS Pilani - Hyderabad Campus, Hyderabad, 15-19 Dec 2012
- Indo-US Workshop on Large Scale Data Analytics and Intelligent Services, IISc Bangalore, 18-20 Dec, 2011

 **Prof. Narsimha Bolloju** and Dr. Sakthi Balan attended IBM IMTC workshop in Bangalore on Oct 9, 2015

 **Dr. Poonam Gera** attended workshop on Cyber Security and Information Assurance at IIT Delhi from May 9-10, 2015.

 **Dr. Poonam Gera** attended summit on National Cyber Safety and Security Standards Summit-2014 from 19th and 20th September, 2014

 **Dr. Poonam Gera** and Dr. Bharavi Mishra attended Microsoft Faculty Development Program on Computer Network and Active Directory.

 **Dr. Vibhor Kant** has attended

- 12<sup>th</sup> international conference on IMCIP -15 for presenting his article by, Bangalore University in 2015.
- A workshop on ISCA 2015 by SAU Delhi in 2015.

 **Dr. Praveen Kumar** attended

- "Heterogeneous Computing - Many Core/ Multi-GPU" by CDAC at CMSD, Uni. of Hyderabad , 2011
- Workshop on Mobile Application development by CDAC at Hyderabad, 2012
- Presented paper in International conference on Big Multimedia Data (BigMM) 2015 at Beijing, China.
- Fundamentals of Big Data with Hadoop using InfoSphere BigInsight (February 25-27, 2015), conducted by IBM
- Learning Business Intelligence using IBM Cognos (January 6-9, 2015), conducted by IBM
- Fundamentals of Information Management (DBMS) & DB2 Programming (December 2-6, 2014), conducted by IBM

 **Mr. Dinesh Khandelwal** attended Non-convex Optimization for Machine Learning workshop held at IIT Bombay from 10th June to 19th June.

**28. Student projects:**

-  **percentage of students who have done in-house projects including inter-departmental projects:**  
100%
-  **percentage of students doing projects in collaboration with other universities / industry / institute:** ~25%

**29. Awards / recognitions received at the national and international level by –**

 **Faculty:**

Following faculty members of the Department have received awards / recognition at International / National level.

**(i) Prof. Ravi P. Gorthi:**

Best Mentor Award of the Year (for years 2007 and 2008) for Infosys Summer Internship committee.

**(ii) Dr. Praveen Kumar:**

- (a) "Career award for young teachers" in the year 2012 by AICTE for supporting research career.
- (b) Selected for "Australian Research Endeavour Fellowship 2008-09" for post-doctoral research in Australia.
- (c) Received Best paper award in third IEEE International Conference on Intelligent Sensing and Information Processing (ICISIP), 2005
- (d) Awarded "Innovative Student Projects Award 2005" from Indian National Academy of Engineering (INAE) for best B.Tech project in computer science discipline all over India.

**(i) Dr. Sakthi Balan:**

- (a) Infosys Fellowship from Infosys, Bangalore during PhD in the Department of CSE, IIT Madras (2000 to 2004)
- (b) Invited talk in 76th Annual Conference of the Indian Mathematical Society (IMS 2010), Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, India, December 28, 2010.
- (c) Invited tutorial on Molecular Computing in Mathematics & IT Conference (Ramanujan Rediscovered), International Institute of Information Technology, Bangalore, June 3, 2009. (Invited)
- (d) Invited to The University of Western Ontario, London, Ontario, Canada, during PhD for one month (Aug-Sep, 2002) for research discussions in the Department of Computer Science.

 **Doctoral / post-doctoral fellows:** Nil

 **Students:**

- (a) Kushal Shah and Anivesh Baratam qualified for National level by clearing Zonal from North zone and regionals from Rajasthan in Tata Crucible Campus Business Quiz.
- (b) Gaurav singhal and Kaustubh Khandelwal were Winner in Ideate: B Plan Competition of Rajasthan Startup Fest 2015
- (c) Ashish Agrawal and Pushkal Agarwal qualified for national level by clearing 4th Regional Level Project Contest organized by Computer Society of India in Ahmadabad.
- (d) 4 teams have cleared regionals and qualified of nationals in ACM ICPC 2014 and 1 team till now in 2015.
- (e) 1 team was Winners at Rajagiri National Business Quiz 2012.
- (f) 1 team was into the finals at Sweden-India Nobel Quiz 2011.
- (g) 1 team was National finalists at Mahindra Auto Quotient.
- (h) 1 team was Rajasthan Winners at IDFC Quiz, Jaipur.
- (i) 1 team was Finalists at DAIICT annual fest SYNAPSE Quiz event.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**

- (i) Two day OOAD Workshop for Faculty conducted by Mindtree Ltd., Bangalore. (27 – 28 Feb, 2010)
- (ii) Workshop on Proper Programming Process for Creating High Quality Processes by Dr. Sukhamay Kundu, Louisiana State University, Baton Rouge, LA 70803, USA. (30 – 31 Dec, 2011)
- (iii) International Workshop on Emerging Trends in Information Technology,  
The LNMIIT Campus, February, 2014
- (iv) Three-day Workshop on Modeling, Simulation, and Computational Techniques, January 15-17, 2015

**Outstanding Participants in ETIT-2014:**

- (a) Prof. Philipe Dugerdil, Geneva School of business Administration, Switzerland.
- (b) Dr. Sangram Ganguly, Research Scientist, NASA AMES Research Center, California USA
- (c) Dr. Mohan Dhawan, IBM Research Labs, India
- (d) Prof. Manoj Gaur, MNIT, India
- (e) Dr. Amitava Mukherjee, IBM Global Services, Kolkata
- (f) Prof. Navneet Goyal, BITS Pilani
- (g) Dr. Kaushik Dutta, NUS Singapore

**Outstanding Participants in WMSC-2015:**

- (a) Prof. A. Chockalingam, IISc, Bangalore
- (b) Dr. Gobinda Majumder, TIFR – Mumbai
- (c) Prof. K. P. Karunakaran, IIT Bombay
- (d) Prof. B. Ravi, IIT Bombay
- (e) Prof. Shankar Prakriya, IIT Delhi
- (f) Dr. Subir K Roy, IIIT Bangalore
- (g) Prof. Gururajan MP, IIT Bombay
- (h) Prof. Jayendran Venkateswaran, IIT Bombay
- (i) Prof. Shalabh bhatnagar, IISc Bangalore
- (j) Prof. R. K. Shevgaonkar, IIT Delhi
- (k) Prof. Peter Cochrane, Cochrane Associates Ltd, Hertfordshire University, UK

**31. Code of ethics for research followed by the departments.**

Codes of ethics for research are followed as per UGC norms. Quality Assurance Research Committee (QARC) ensures that best practices for research ethics are followed. There are two courses viz 'Value Education and Ethics' and 'Technical Writing and Research Methodology' which are compulsory for UG and PG students respectively. This creates awareness of moral and ethical responsibilities.

**32. Student profile Program-wise:**

<b>Name of the Program</b> (refer to question no. 4)	<b>Total Students</b>	<b>Selected Students</b>		<b>Pass %</b>	
		<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
B.Tech (CSE) Y08	63	51	12	100	100
B.Tech (CSE) Y09	101	75	26	100	100
B.Tech (CSE) Y10	127	102	25	100	100
B.Tech (CSE) Y11	119	92	27	100	100
B.Tech (CSE) Y12	136	100	36	100	100
B.Tech (CSE) Y13	128	95	33	100	100
B.Tech (CSE) Y14	149	120	29	100	100
B.Tech (CSE) Y15	163	132	31	100	100
M.Tech (CSE) Y11	3	2	1	100	100
M.Tech (CSE) Y12	6	2	4	100	100
M.Tech (CSE) Y13	13	4	9	92.30	100
M.Tech (CSE) Y14	4	1	3	100	100
M.Tech (CSE) Y15	5	2	3	100	100
Ph.D. (CSE) Y12	1	1	0	100	100
Ph.D. (CSE) Y13	Nil	Nil	Nil	N.A.	N.A.
Ph.D. (CSE) Y14	2	1	1	N.A.	N.A.
Ph.D. (CSE) Y15	2	0	2	N.A.	N.A.
Dual Degree CSE (Y12 to Y15)	Nil	Nil	Nil	N.A.	N.A.

**33. Diversity of students:**

<b>Name of the Program</b> (refer to question no. 4)	<b>% of students from the same University</b>	<b>% of students from other universities within the State</b>	<b>% of students from Universities outside the State</b>	<b>% of students from other Countries</b>
B.Tech (CSE) Y12	NA	NA	NA	NA
B.Tech (CSE) Y13	NA	NA	NA	NA
B.Tech (CSE) Y14	NA	NA	NA	NA
B.Tech (CSE) Y15	NA	NA	NA	NA
M.Tech (CSE) Y12	Nil	4	2	Nil
M.Tech (CSE) Y13	Nil	13	2	Nil

Name of the Program (refer to question no. 4)	% of students from the same University	% of students from other universities within the State	% of students from Universities outside the State	% of students from other Countries
M.Tech (CSE) Y14	Nil	3	1	Nil
M.Tech (CSE) Y15	Nil	5	Nil	Nil
Ph.D. (CSE) Y12	1	Nil	Nil	Nil
Ph.D. (CSE) Y13	Nil	Nil	Nil	Nil
Ph.D. (CSE) Y14	1	1	Nil	Nil
Ph.D. (CSE) Y15	Nil	1	1	Nil

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:**

Year	GRE	CAT	GATE
2009	Nil	1	Nil
2010	1	Nil	2
2011	1	Nil	Nil
2012	2	1	3
2013	5	4	1
2014	2	2	3
2015	2	2	Nil

**35. Student progression:**

Student progression	Total No of student graduated in last 4 year	Percentage against enrolled
UG to PG (Y08-Y11)	410	5%
PG to M.Phil.	NA	NA
PG to Ph.D. (Y11-Y13)	22	30%
Ph.D. to Post-Doctoral	0	Yet to complete PhD
Employed		
↳ Campus selection		85%
↳ Other than campus recruitment		15%
Entrepreneurs		1%

**36. Diversity of staff:**

**Percentage of faculty who are graduates**

Of the same University	02 (11.76%)
From other universities within the State	02 (11.76%)
From universities of other States	13 (76.47%)
From universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:**

- (a) Dr. Preety Singh
- (b) Dr. Rajbir Kaur
- (c) Dr. Ratnadip Adhikari
- (d) Dr. Poonam Gera
- (e) Dr. Bharavi Mishra
- (f) Dr. Vibhor Kant
- (g) Dr. Subrat Dash
- (h) Dr. Rajni Aron

**38. Present details of departmental infrastructural facilities with regard to:**

- (a) **Library:** There is no department library. The central library houses relevant text and reference books and has subscribed to databases like, IEEE, Science Direct, etc.
- (b) **Internet facilities for staff and students:** Wi-Fi in the academic area and fibre line connectivity in faculty offices, faculty and staff housing complex, hostels rooms.
- (c) **Total number of class rooms:** 16 (shared by all the departments from the pool of class rooms available in the institute).
- (d) **Class rooms with ICT facility:** 16 (all the classrooms are equipped with ICT facility)
- (e) **Students' laboratories:** 02
- (f) **Research laboratories:** 01 PG research lab.

**39. List of doctoral, post-doctoral students and Research Associates:**

- (a) **From the host institution/university:** 03
- (b) **From other institutions/universities:** 07

**40. Number of postgraduate students getting financial assistance from the university.**

Year	M. Tech.		M.S.		Ph.D.	
	Male	Female	Male	Female	Male	Female
Y11	2	1	0	0	0	0
Y12	2	4	0	0	0	0
Y13	5	4	0	0	0	0
Y14	1	3	NA	NA	1	1
Y15	2	2	NA	NA	0	2

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

New developments in research and feedback from Industry triggers the need for the new program. The request is sent to AC-UGC which formulates and forwards the program structure and curriculum to AC for academic approval.

**42. Does the department obtain feedback from?**
**(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

There is a departmental UG/PG Review committee that proposes changes to the curriculum triggered by industry/ACM guidelines. The proposal is subsequently reviewed by DAC, AC-UGC/PGC and AC for approval.

The new courses designed by a faculty are circulated to all faculty members of Department of CSE. Suggestions and changes are reviewed collectively by the department and incorporated in the course contents therein. Subsequently, AC-UGC and AC further review it for approval.

**(b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Formal mechanism exists for taking student feedback after the completion of each course. The Head of the institute discusses the feedback with concerned faculty and counseled for necessary action. Class Committees and Departmental Academic Committee serve towards this end too.

**(c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Feedback is taken comprehensively. The same is discussed in departmental meetings and necessary measures are initiated.

**43. List the distinguished alumni of the department (maximum 10).**

- Arvind Babel (Y08) - Senior Software Development Engineer at Amazon.com, Seattle, Washington
- Shubho Banerjee (Y08)- PhD Student, Department of Computer Science University of Illinois at Urbana-Champaign (UIUC) Champaign, Illinois, United States
- Saket Modi (Y09) - Chief Executive Officer, Lucideus Tech Pvt Ltd.
- Akshay Seth (Y09) - Masters from National University of Singapore (NUS), Singapore in Knowledge Engineering
- Kriti Bhargava (Y09)- PhD Student, DM&SC, Telecommunications Software & Systems Group (TSSG), Waterford Institute of Technology, Ireland
- Anil Goyal (Y10) - Masters of Science in Informatics at ENSIMAG, Grenoble INP, Grenoble, France.
- Nimisha Agarwal (Y10) - PhD. in Computer Engineering, NTU, Singapore
- Monika Varshney (Y10) - Technical University of MUNICH, Germany
- Ashwin Iyer (Y11): Graduate Student at Carnegie Mellon University
- Vijaya Choudhary (Y10): Developer at Microsoft India
- Utkarsh Pyne (Y11): Developer at Amazon India.
- Smriti Janu (Y11): Graduate Student at IIM Ahmedabad.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

***Some enrichment programs (from July 2014 - present):***

- Advanced workshop on Human Computer Interaction: July 19-August 2, 2014
- Workshop on GPU Computing: August 9, 2014
- Invited talk by Prof. Shreesh Choudhary, IIT Madras: July 23, 2014
- Talk by Mr. Sanjay Srivastava, Director, University Program, Texas Instruments: October 28, 2014
- Visit of Mr. A.K Narang and Dr. Vrunda Yalmali, BARC experts: February 3, 2015
- Visit of Dr. Brendan Jennings and Dr Alan Davy, scientists from Waterford Institute of Technology, Ireland: February 6, 2015
- Guest lecture by Mr. Mahavir Pratap Sharma, President of Rajasthan Angel Investor Network (RAIN): February 9, 2015
- Invited talk by Prof. K.K. Shukla, IIT BHU: February 19, 2015
- Invited talk by Prof. Anupam Joshi, University of Maryland: March 25, 2015
- Invited talk by Prof. Pankaj Jalote, Director, IIIT Delhi: March 30, 2015
- Workshop on Android Application Development: April 11, 2015

**45. List the teaching methods adopted by the faculty for different programmes.**

- Participatory nature of lectures
- Frequent use of the Internet-based resources
- ICT enabled lecture delivery
- Student seminars and group projects
- QEEE courses, NPTEL video lectures and MOOCs
- Teaching Learning Pedagogies as discussed in a workshop organized by IIT, Bombay are adhered to.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- Feedback from Students
- Feedback from Alumni
- Feedback from Industries
- Departmental Meetings
- Class Committees and Department Academic Committee
- Feedback from recruiting companies is placed in various forums for analysis and subsequent adaptation.

**47. Highlight the participation of students and faculty in extension activities.**

- (a) Organized workshops and quizzes by students under IEEE student chapter throughout the year.
- (b) Student chapter of CSI is very active in organizing periodical quizzes, workshops, seminars, webinars and invited talks
- (c) Invited distinguished scholars of national and international level in lecture series.
- (d) Activities like quizzes, expert lectures, workshops are organized by Science and Technology Council, E-Cell, Cybros, Phoenix club.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ❖ Institute seminars by faculty members.
- ❖ Extension seminars by eminent scholars.
- ❖ IEEE chapter workshop and seminars.
- ❖ CSI student chapter organizing periodical quizzes, workshops, seminars, webinars and invited talks
- ❖ Faculty are encouraged to publish research in peer reviewed journals and conferences. The institute has granted research grant to all faculty members for this purpose.
- ❖ Students are encouraged to publish their research findings in reputed Conferences and Journals. The institute also provides monetary benefit to the students for attending Conferences/Workshops.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.** No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been striving for knowledge creation through an amalgamation of teaching-learning and research. The Faculty has teaching and research contribution in the areas of -

- ❖ Machine learning and Pattern recognition
- ❖ Data Mining and Big Data Analysis
- ❖ Software Engineering
- ❖ Distributed and Cloud Computing, System Security,
- ❖ Image processing and Computer vision

**Department has both M.Tech and Ph.D programs. We have 09 M.Tech and 04 Ph.D students.**

B. Tech. Projects and Summer Internship (LUSIP) projects offered by the department ensure students participation in research and knowledge creation. Workshops, seminars and expert lectures are also organized to keep abreast of the new knowledge generated in various fields.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- (i) We have a good number of faculty members, most of the faculty members are Ph.D from reputed institutions.
- (ii) Most of the faculty members are young and strive to perform well in academic, administrative and research activities.
- (iii) Faculty work in different research areas. So diversity is our core strength

**Weaknesses:**

- (i) Inability in getting quality students in M.Tech. and Ph.D programs
- (ii) Lack of interdisciplinary research

**Challenges and Opportunities:**

- (i) Utilize diversity in research areas of the faculty members to form research groups for collaborative projects
- (ii) Need to have more collaboration with other academic institutions and industries both in India and abroad

- (iii) Improve contacts within the organization to help research in interdisciplinary areas
- (iv) Obtain government-funded projects
- (v) Consultancy projects
- (vi) Alumni funding

**52. Future plans of the department.**

- (i) More collaboration with other academic institutions and industries both in India and abroad
- (ii) Develop Centre of Excellence in various fields including Big Data Analytics, Cloud Computing and Mobile Computing
- (iii) Form various research centres like research centre for "Smart City".
- (iv) To develop an Internet of Things (IoT) Lab.
- (v) Organize yearly international/national conference/ workshop.
- (vi) Collaborate with other reputed Institutions for faculty/student exchange programs.

### C. Evaluative Report of the Communication and Computer Engineering (CCE)

1. **Name of the Department:** Communication and Computer Engineering
2. **Year of establishment:** 2003
3. **Is the Department part of a School / Faculty of the university?:** Not Applicable
4. **Names of programs offered:**

- (i) 4-year B.Tech.
- (ii) 4-year B.Tech. (Hons.)
- (iii) 5-year B.Tech-M.Tech Dual Degree
- (iv) Ph.D.

5. **Interdisciplinary programmes and departments involved:**

All the programs of CCE mentioned in point (4) above are offered as Inter-disciplinary Programs by the faculty of the Departments of Electronics and Communication Engineering and Computer Science and Engineering.

6. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

- ⊕ Quality Enhancement in Engineering Education (QEEE) Program in collaboration with IIT-Madras (Phase I and Phase II).
- ⊕ Lecture Series on "Probability Stochastic Processes and Queuing Theory for Engineers and its Applications" by Prof. Rajarshi Roy, Department of E&ECE, IIT Kharagpur.
- ⊕ IBM: 7 courses in Big Data-analytics track, 8 courses in Mobile and Cloud based applications track;
- ⊕ Microsoft: 1 course in the field of Active Directory.

7. **Details of programmes discontinued, if any, with reasons:**

M.S. (by Research) was a program until 2014. This program has to be discontinued due to declining enrollment compared to that in M.Tech Program.

8. **Examination System: Annual / Semester / Trimester / Choice Based Credit System**

Semester system with Choice Based Credit System is adopted.

9. **Participation of the department in the courses offered by other departments:**

Faculty members of the CSE and ECE departments jointly offer CCE program.

10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

There are no separate faculty members of the CCE Department. Faculty members of the CSE and ECE departments jointly offer CCE program.

	<b>Sanctioned (2015)</b>	<b>Filled (2015)</b>
Professor	Flexible	NA
Associate Professor	Flexible	NA
Assistant Professor	Flexible	NA

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.**

As mentioned earlier in this section, the faculty members of CSE and ECE departments teach the courses of the CCE Program. There are no separate set of faculty members of CCE Program.

12. **List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

- (1) Prof. B.S. Panda, Department of Mathematics, IIT, Delhi
- (2) Prof. C. Pandurangan, Department of Computer Science
- (3) Prof. Ranjan Gangopadhyay (Emeritus Professor)

**13. Percentage of classes taken by temporary faculty – programme-wise information:**

Program	Subject	Visiting Faculty
B.Tech.	Computer Programming	50%
	Embedded Systems	100%
	Vector Space Projection	100%
	Control System Engineering	100%
M.Tech.		Nil

**14. Programme-wise Student Teacher Ratio:**

B.Tech.	122: 15 (~8:13)
M.Tech.	NA
Ph.D	1:1

\* latest details, excluding first year students; since CCE Program students do approximately half of CSE and half of ECE courses, the above details are calculated assuming that half of the faculty members of CSE and half of ECE are contributing towards CCE Program;

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

	Sanctioned	Filled	Actual
Technical (Programmers)	Flexible	2	2
Administrative	Flexible	Nil	Nil
Others: Lab Assistants	Flexible	6	6

**16. Research thrust areas as recognized by major funding agencies –**

**Following are the thrust areas recognized for research by funding agencies:**

- ⊕ Machine learning and Pattern recognition
- ⊕ Data Mining and Big Data Analysis
- ⊕ Software Engineering
- ⊕ Distributed and Cloud Computing, System Security,
- ⊕ Image processing and Computer vision
- ⊕ Cognitive Radio (Wireless Communication/ Mobile Broadband)

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

**Ongoing projects from:**

- ⊕ **National funding agencies:** 02
- ⊕ **International funding agencies:** Nil
- ⊕ **Total grants received:** INR 102.4 Lakhs

**Names of the funding agencies, project title and grants received project-wise:**

<b>Name of the Project:</b>	Mobile Broadband Service Support over Cognitive Radio Networks
<b>Funding Agency:</b>	Information Technology Research Academy (ITRA), Department of Electronics and Information Technology (DeitY), Govt. of India
<b>Grant:</b>	102.4 Lakhs
<b>National / International</b>	National

**18. Inter-institutional collaborative projects and associated grants received**

**(a) National collaboration:** IIT Madras, IIT Mandi, IIT Gandhinagar,

IIT Delhi, Institute of Radio Physics and Engineering (IRPE, Calcutta University), North Eastern Regional Institute of Science and Technology (NERIST), NIIT University

**(b) International collaboration:** NTU Singapore\*, Fert Beijing Institute, Beijing, China

\*Students received stipend during the collaborative research work.

- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.**

Project Title	Funding Agency	Grants Received
Nil	Nil	Nil

- 20. Research facility / centre with**

- (a) State recognition: Nil
- (b) National recognition: Nil
- (c) International recognition: Nil

- 21. Special research laboratories sponsored by / created by industry or corporate bodies**

- (a) IBM Lab in the areas of Big-Data & Analytics and Mobile-Cloud Based Applications
- (b) SAP Lab in the area of ABAP Programming
- (c) Microsoft Lab in the area of Active-Directory
- (d) Texas Instruments (TI) sponsored Embedded Systems Lab
- (e) National Instruments (NI) Lab

- 22. Publications:**

**Since CCE Program is an Inter-disciplinary Program, refer to 'Point 22' of CSE and ECE Departments.**

This data is available in the department reports of ECE & CSE.

- ⊕ Number of papers published in peer reviewed journals (national / international):
- ⊕ Monographs:
- ⊕ Chapters in Books:
- ⊕ Books with ISBN with details of publishers:
- ⊕ Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- ⊕ Citation Index – range / average:
- ⊕ SNIP:
- ⊕ SJR:
- ⊕ Impact Factor – range / average:
- ⊕ h-index:

- 23. Details of patents and income generated:**

- (i) Patents - 4 patents by Prof. R. P. Gorthi
- (ii) Income generated - Nil

- 24. Areas of consultancy and income generated:** Nil

- 25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad**

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 25' of CSE and ECE Departments.

- 26. Faculty serving in:**

- (a) National committees: Nil
- (b) International committees: Nil
- (c) Editorial Boards: Nil
- (d) Any other (please specify): Nil

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 26' of CSE and ECE Departments.

- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 27' of CSE and ECE Departments.

- 28. Student projects:**

- ⊕ Percentage of students who have done in-house projects including inter-departmental projects : 100%

- ❖ Percentage of students doing projects in collaboration with other universities / industry / institute: Data not kept.

**29. Awards / recognitions received at the national and international level by:**

❖ **Faculty:**

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 29' of CSE and ECE Departments.

❖ **Doctoral / post-doctoral fellows:**

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 29' of CSE and ECE Departments.

❖ **Students:**

- (a) 4 teams have cleared regionals and qualified of nationals in ACM ICPC 2014 and 1 team till now in 2015.
- (b) 1 team was Winners at Rajagiri National Business Quiz 2012.
- (c) 1 team was into the finals at Sweden-India Nobel Quiz 2011.
- (d) 1 team was National finalists at Mahindra Auto Quotient.
- (e) 1 team was Rajasthan Winners at IDFC Quiz, Jaipur.
- (f) 1 team was Finalists at DAIICT annual fest SYNAPSE Quiz event.

**30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.**

- (i) Two day OOAD Workshop for Faculty conducted by Mindtree Ltd., Bangalore. (27 – 28 Feb, 2010)
- (ii) Workshop on Proper Programming Process for Creating High Quality Processes by Dr. Sukhamay Kundu, Louisiana State University, Baton Rouge, LA 70803, USA. (30 – 31 Dec, 2011)
- (iii) International Workshop on Emerging Trends in Information Technology, The LNMIIT Campus, February, 2014
- (iv) Three-day Workshop on Modeling, Simulation, and Computational Techniques, January 15-17, 2015

**31. Code of ethics for research followed by the departments**

Quality Assurance Research Committee (QARC) ensures that best practices for research ethics are followed. There are two courses viz 'Value Education and Ethics' and 'Technical Writing and Research Methodology' which are compulsory for UG and PG students respectively. This creates awareness of moral and ethical responsibilities.

**32. Students profile Program-wise:**

<b>Name of the Program</b> (refer to question no. 4)	<b>Total Students</b>	<b>Selected Students</b>		<b>Pass %</b>	
		<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
B. Tech (CCE) Y08	17	15	2	100	100
B. Tech (CCE) Y09	1	1	0	100	100
B. Tech (CCE) Y10	8	7	1	100	100
B. Tech (CCE) Y11	3	1	2	100	100
B.Tech (CCE) Y12	30	21	9	NA	NA
B.Tech (CCE) Y13	51	41	10	NA	NA
B.Tech (CCE) Y14	41	31	10	NA	NA
B.Tech (CCE) Y15	39	26	13	NA	NA
B.Tech –M.Tech(CCE) Y12	0	0	0	NA	NA
B.Tech –M.Tech(CCE) Y13	0	0	0	NA	NA
B.Tech –M.Tech(CCE) Y14	0	0	0	NA	NA
M.Tech (CCE) Y12	0	0	0	NA	NA
M.Tech (CCE) Y13	0	0	0	NA	NA
M.Tech (CCE) Y14	0	0	0	NA	NA
M.Tech (CCE) Y15	0	0	0	NA	NA
M.S.(CCE)Y12	0	0	0	NA	NA
M.S.(CCE)Y13	0	0	0	NA	NA
M.S.(CCE)Y14	0	0	0	NA	NA
M.S.(CCE)Y15	0	0	0	NA	NA
Ph.D. (CCE) Y12	0	0	0	NA	NA
Ph.D. (CCE) Y13	0	0	0	NA	NA
Ph.D. (CCE) Y14	0	0	0	NA	NA
Ph.D. (CCE) Y15	0	0	0	NA	NA

**33. Diversity of students:**

Name of the Program (refer to question no. 4)	% of students from the same University	% of students from other universities within the State	% of students from Universities outside the State	% of students from other Countries
B. Tech (CCE) Y08	NA	NA	NA	NA
B. Tech (CCE) Y09	NA	NA	NA	NA
B. Tech (CCE) Y10	NA	NA	NA	NA
B. Tech (CCE) Y11	NA	NA	NA	NA
B.Tech (CCE) Y12	NA	NA	NA	NA
B.Tech (CCE) Y13	NA	NA	NA	NA
B.Tech (CCE) Y14	NA	NA	NA	NA
B.Tech (CCE) Y15	NA	NA	NA	NA
B.Tech –M.Tech(CCE) Y12	NA	NA	NA	NA
B.Tech –M.Tech(CCE) Y13	NA	NA	NA	NA
B.Tech –M.Tech(CCE) Y14	NA	NA	NA	NA
M.Tech (CCE) Y12	NA	NA	NA	NA
M.Tech (CCE) Y13	NA	NA	NA	NA
M.Tech (CCE) Y14	NA	NA	NA	NA
M.Tech (CCE) Y15	NA	NA	NA	NA
M.S.(CCE)Y12	NA	NA	NA	NA
M.S.(CCE)Y13	NA	NA	NA	NA
M.S.(CCE)Y14	NA	NA	NA	NA
M.S.(CCE)Y15	NA	NA	NA	NA
Ph.D. (CCE) Y12	NA	NA	NA	NA
Ph.D. (CCE) Y13	NA	NA	NA	NA
Ph.D. (CCE) Y14	NA	NA	NA	NA
Ph.D. (CCE) Y15	NA	NA	NA	NA

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:**

S. No.	Name of Exam	No. of student cleared
1	Civil Services	Not Available
2	Defense Services	Not Available
3	NET	Not Available
4	SET	Not Available
5	GATE	10 per batch approximately 40
6	CAT/MAT/XAT	5 per batch approximately 20
7	GRE	5 per batch approximately 20

**35. Student progression:**

Student progression	Total No of student graduated in last 4 year	Percentage against enrolled
UG to PG (Y08-Y11)	29	25%
PG to M.Phil.	NA	NA
PG to Ph.D. (Y11-Y13)	NA	NA
Ph.D. to Post-Doctoral	0	Yet to complete PhD
Employed		
▪ Campus selection		85%
▪ Other than campus recruitment		15%
Entrepreneurs		1%

**36. Diversity of staff**
**Percentage of faculty who are graduates:**

Since CCE Program is an Inter-disciplinary Program, please refer to the details of 'Point 36' of CSE and ECE departments.

Of the same University	Not Available
From other universities within the State	Not Available
From universities of other States	Not Available
From universities outside the country	Not Available

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:**

The list includes both the CSE and ECE faculty members as the programme is run by both the department.

- (a) Dr. Preety Singh
- (b) Dr. Rajbir Kaur
- (c) Dr. Ratnadip Adhikari
- (d) Dr. Poonam Gera
- (e) Dr. Bharavi Mishra
- (f) Dr. Vibhor Kant
- (g) Dr. Subrat Dash
- (h) Dr. Rajni Aron
- (i) Dr. Akshay Salimath was awarded Ph.D. in 2015
- (j) Dr. Divyang Rawal was awarded Ph.D. in 2014
- (k) Dr. Santosh Shah was awarded Ph.D. in 2014
- (l) Dr. Navneet Upadhyay was awarded Ph.D. in 2013
- (m) Dr. Smriti Dwivedi was awarded Ph.D. in 2013
- (n) Dr. Abhishek Sharma was awarded Ph.D. in 2013

**38. Present details of departmental infrastructural facilities with regard to:**

- (a) **Library:** There is no department library. The institute Library is used.
- (b) **Internet facilities for staff and students:** Campus wide internet facility
- (c) **Total number of class rooms:** Uses from the pool of class rooms available in the institute.
- (d) **Class rooms with ICT facility:** All (16)
- (e) **Students' laboratories:** 2 Laboratory of CSE department and 4 lab of ECE Department
- (f) **Research laboratories:** 01 PG research lab of CSE department and 01 lab of ECE Department

**39. List of doctoral, post-doctoral students and Research Associates:**

- (a) **From the host institution / University:** Mr. Sunil Kumar
- (b) **From other institutions / Universities:** Nil

**40. Number of postgraduate students getting financial assistance from the university.**

Year	M. Tech.		M.S.		Ph.D.	
	Male	Female	Male	Female	Male	Female
Y11	NA	NA	0	0	0	0
Y12	NA	NA	0	0	0	0
Y13	NA	NA	0	0	0	0
Y14	NA	NA	NA	NA	0	0
Y15	NA	NA	NA	NA	0	0

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

New developments in research and feedback from Industry triggers the need for the new program. The request is sent to AC-UGC which formulates and forwards the program structure and curriculum to AC for academic approval.

**42. Does the department obtain feedback from?**

**(a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**

There is a departmental UG/PG Review committee that proposes changes to the curriculum triggered by industry/ACM guidelines. The proposal is subsequently reviewed by DAC, AC-UGC/PGC and AC for approval.

The new courses designed by a faculty are circulated to all faculty members of Department of CSE. Suggestions and changes are reviewed collectively by the department and incorporated in the course contents therein. Subsequently, AC-UGC and AC further review it for approval.

**(b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**

Formal mechanism exists for taking student feedback after the completion of each course. The Head of the institute discusses the feedback with concerned faculty and counseled for necessary action. Class Committees and Departmental Academic Committee serve towards this end too.

**(c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

Feedback is taken comprehensively. The same is discussed in departmental meetings and necessary measures are initiated.

**43. List the distinguished alumni of the department (maximum 10).**

Since CCE Program is an Inter-disciplinary Program, refer to 'Point 43' of CSE and ECE Departments.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

Some enrichment programs (from July 2014 - present):

- ♫ Advanced workshop on Human Computer Interaction: July 19-August 2, 2014
- ♫ Workshop on GPU Computing: August 9, 2014
- ♫ Invited talk by Prof. Shreesh Choudhary, IIT Madras: July 23, 2014
- ♫ Talk by Mr. Sanjay Srivastava, Director, University Program, Texas Instruments: October 28, 2014
- ♫ Visit of Mr. A.K Narang and Dr. Vrunda Yalmali, BARC experts: February 3, 2015
- ♫ Visit of Dr. Brendan Jennings and Dr Alan Davy, scientists from Waterford Institute of Technology, Ireland: February 6, 2015
- ♫ Guest lecture by Mr. Mahavir Pratap Sharma, President of Rajasthan Angel Investor Network (RAIN): February 9, 2015
- ♫ Invited talk by Prof. K.K. Shukla, IIT BHU: February 19, 2015
- ♫ Invited talk by Prof. Anupam Joshi, University of Maryland: March 25, 2015
- ♫ Invited talk by Prof. Pankaj Jalote, Director, IIIT Delhi: March 30, 2015
- ♫ Workshop on Android Application Development: April 11, 2015

**45. List the teaching methods adopted by the faculty for different programmes.**

- (a) Participatory nature of lectures
- (b) Frequent use of the Internet-based resources
- (c) ICT enabled lecture delivery
- (d) Student seminars and group projects
- (e) QEEE courses, NPTEL video lectures and MOOCs
- (f) Teaching Learning Pedagogies as discussed in a workshop organized by IIT, Bombay are adhered to.

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- (a) Feedback from Students
- (b) Feedback from Alumni
- (c) Feedback from Industries
- (d) Departmental Meetings
- (e) Class Committees and Department Academic Committee
- (f) Feedback from recruiting companies is placed in various forums for analysis and subsequent adaptation.

**47. Highlight the participation of students and faculty in extension activities.**

- (a) Organized workshops and quizzes by students under IEEE student chapter throughout the year.
- (b) Student chapter of CSI is very active in organizing periodical quizzes, workshops, seminars, webinars and invited talks
- (c) Invited distinguished scholars of national and international level in lecture series.
- (d) Activities like quizzes, expert lectures, workshops are organized by Science and Technology Council, E-Cell, Cybros, Phoenix club.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ✚ Institute seminars by faculty members.
- ✚ Extension seminars by eminent scholars.
- ✚ IEEE chapter workshops and seminars.
- ✚ CSI student chapter organizing periodical quizzes, workshops, seminars, webinars and invited talks
- ✚ Faculty are encouraged to publish research in peer reviewed journals and conferences. The institute has granted research grant to all faculty members for this purpose.
- ✚ Students are encouraged to publish their research findings in reputed Conferences and Journals. The institute also provides monetary benefit to the students for attending Conferences/Workshops.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.**

No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been striving for knowledge creation through an amalgamation of teaching-learning and research. The Faculty has teaching and research contribution in the areas of -

- ✚ Machine learning and Pattern recognition
- ✚ Data Mining and Big Data Analysis
- ✚ Software Engineering
- ✚ Distributed and Cloud Computing, System Security,
- ✚ Image processing and Computer vision
- ✚ Wireless Communication
- ✚ Cognitive Radio

B. Tech. Projects and Summer Internship (LUSIP) projects offered by the department ensure students participation in research and knowledge creation. Workshops, seminars and expert lectures are also organized to keep abreast of the new knowledge generated in various fields.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- (i) We have a good number of faculty members, most of the faculty members are Ph.D from reputed institutions.

- (ii) Most of the faculty members are young and strive to perform well in academic, administrative and research activities.
- (iii) Faculty work in different research areas. So diversity is our core strength

**Weaknesses:**

- (i) Inability in getting quality students in M.Tech. and Ph.D programs
- (ii) Lack of interdisciplinary research

**Challenges and Opportunities:**

- (i) Utilize diversity in research areas of the faculty members to form research groups for collaborative projects
- (ii) Need to have more collaboration with other academic institutions and industries both in India and abroad
- (iii) Improve contacts within the organization to help research in interdisciplinary areas
- (iv) Obtain government-funded projects
- (v) Consultancy projects
- (vi) Alumni funding

**52. Future plans of the department.**

- (a) More collaboration with other academic institutions and industries both in India and abroad
- (b) Develop Centre of Excellence in various fields including Big Data Analytics, Cloud Computing and Mobile Computing
- (c) Form various research centres like research centre for "Smart City".
- (d) To develop an Internet of Things (IoT) Lab.
- (e) Organize yearly international/national conference/ workshop.
- (f) Collaborate with other reputed Institutions for faculty/student exchange programs.

## D. Evaluative Report of the Mechanical-Mechatronics Engineering (MME)

1. **Name of the Department:** Mechanical-Mechatronics Engineering
2. **Year of establishment:** 2013
3. **Is the Department part of a School/Faculty of the university?:** No
4. **Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc. D.Litt. etc.):**
  - (a) B. Tech in Mechatronics Engineering
  - (b) B. Tech in Mechanical Engineering
  - (c) Ph.D. in Mechatronics Engineering
  - (d) Ph.D. in Mechanical Engineering
5. **Interdisciplinary programmes and departments involved:**  
B.Tech and PhD in Mechatronics Engineering are interdisciplinary programs, utilizing courses and faculty of other departments like Computer Science and Engineering, Electronics and Communications Engineering.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:**
  - ✚ QEEE Program in collaboration with IIT Madras: the courses include Engineering Mechanics and Engineering Design.
  - ✚ Industry oriented courses such as Automotive Electronics, in collaboration with KPIT Technologies, Pune.
  - ✚ SAP certified course on Enterprise Resource Planning
7. **Details of programmes discontinued, if any, with reasons:** None
8. **Examination System: Annual/Semester/Trimester/Choice Based Credit System:**  
Semester system and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:**  
Core courses such as Principles of Engineering Science, Environmental Ecology and Biology are offered by MME department to all students. In addition, an elective course titled Introduction to Space Science and Technology, Robotics and Industrial Automation is offered to all students.
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	Sanctioned (2015)	Filled/Actual
Professor	Flexible	2
Associate Professors	Flexible	2
Asst. Professors	Flexible	3
Lecturer	Flexible	0

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

Name	Highest Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Sadanand Sadashiv Gokhale	Ph.D.	Professor	Propulsion, Simulation & Optimization	35	1 (pursuing) and 2 Ph.Ds completed in the past
Dr. Amit Kumar Shrivastava	Ph.D.	Professor	Design Engineering	15	

Name	Highest Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Vikram Sharma	Ph.D.	Associate Professor	Industrial Engineering	14	
Dr. Kamal Kishore Khatri	Ph.D.	Associate Professor	Thermal Engineering	13	2 (Pursuing)*
Dr. Manoj Kumar	Ph.D.	Assistant Professor	Manufacturing Technology	8	1 (Pursuing)
Mr. Prabin Kumar Jha	M.Sc. (Pursuing Ph.D)	Assistant Professor	Mechatronics Engineering	15	
Mr. Shanker Ganesh R.	M.Sc.	Assistant Professor	Mechatronics Engineering	3	

\*One candidate registered with LNMIIT and another with University of Rajasthan.

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors –**

Visiting Fellows	Adjunct Faculty	Emeritus Professors
Dr. Arpi Majumder	Nil	Nil

**13. Percentage of classes taken by temporary faculty – Programme - wise information:**  
100% of the course titled 'Environmental Ecology and Biology'.

**14. Programme-wise Student Teacher Ratio:**

Programme	Ratio
B.Tech (Mechatronics & ME)	14:1
Ph.D.	2:4

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual – Centralized admin. Staff, Supporting Technical staff:**

	Sanctioned	Filled	Actual
Technical	5	5	5
Administrative	Centralized	Centralized	Centralized
Others (Programmers)	Nil	Nil	Nil

**16. Research thrust areas as recognized by major funding agencies:**

- ✚ Thermal Engineering (Project)
- ✚ Manufacturing Engineering (Consultancy)

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**

Dr. Kamal Kishore Khatri from Ministry of New and Renewable Energy (MNRE), Govt. of India "Development of green campus / green city scheme", Rs. 5,00,000.00

**18. Inter-institutional collaborative projects and associated grants received:**

- (a) National collaboration: E-Yantra from IIT Bombay
- (b) International collaboration: Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Rs. 5,00,000.00**

- 20. Research facility / center with:**
- (a) **State recognition:** Nil
  - (b) **National recognition:** Nil
  - (c) **International recognition:** Nil
- 21. Special research laboratories sponsored by / created by industry or corporate bodies:**  
Development of Centre of excellence with NI
- 22. Publications:**
- ✚ **Number of papers published in peer reviewed journals (national / international):**
    - Total Numbers of Research papers including national / international conference and journals: 84
    - Research Papers in (national / international) Journals: 34
    - Research Papers in (national / international) Conferences: 51
  - ✚ **Monographs:** 1
  - ✚ **Chapters in Books:** Data not kept
  - ✚ **Edited Books:** 1
  - ✚ **Books with ISBN with details of publishers:**
    - "Strength of Materials" by Amit Kumar Srivastava and P.C. Gope, Prentice Hall of India (PHI), Second Edition, ISBN 978-81-203-3274-4.
    - "Supply Chain Management for Enhancing Competitive Potential", by Vikram Sharma and BS Sahay, LAP Lambert Academic Publishing AG & Co. KG, Germany, ISBN 978-3-8383-8361-3
    - "Fundamentals of CAD/CAM/CIM" by Vikram Sharma, International Book House Publications, Delhi, ISBN 978-93-81335-73-4
  - ✚ **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.).** Data not kept
  - ✚ **Citation Index – range / average:** Data not kept
  - ✚ **SNIP:** Data not kept
  - ✚ **SJR:** Data not kept
  - ✚ **Impact Factor – range / average:** Data not kept
  - ✚ **h-index:** – 2
- 23. Details of patents and income generated.**
- ✚ A proposal submitted to DST, Rajasthan for filing a patent on a hybrid renewable integrated energy system titled "A novel hybrid power plant consisting of micro-hydroelectric plant and solar PV with rainwater harvesting and microalgae production" by Dr. K K Khatri and Prof. S. S. Gokhale.
  - ✚ A proposal submitted to DST, Rajasthan for filing a patent on an Improved Biogas plant based on Co-digestion system titled "Improved Biodegradable food waste operated Co-digestion Biogas plant" by Dr. K. K. Khatri.
  - ✚ A proposal submitted to DST, Rajasthan for filing a patent on automotive electronics system "Enhancing the Fuel Economy of Vehicle by using Electronic Principles" by Mr. Prabin K Jha and Dr. K. K. Khatri.
- 24. Areas of consultancy and income generated.**  
One international consultancy completed in the area of welding consumables by Dr. Manoj Kumar with the worth of Rs. 1,16,821.00 with Nihon Weld Philippines.
- 25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad.**  
VNIT Nagpur CAD/CAM Lab: visited by faculty Dr. K. K. Khatri and Mr. Shankar Ganesh during Dec. 13-14, 2013.
- 26. Faculty serving in – National committees b) International committees c) Editorial Boards d) any other (please specify):**
- ✚ **Prof. S. S. Gokhale,** being the Director of NITs (more than one) between the years, 2003 to 2012, had opportunities to serve on National Level Committees of MHRD, Govt. of India.

- ⊕ **Dr. K. K. Khatri** – Reviewer of five international journals (Taylor and Francis journals- Energy Sources part-A and International Journal of Sustainable Energy, Elsevier journal- Applied Thermal Engineering, Jordan Journal of Mechanical & Industrial Engineering, An Inderscience journal-International Journal of Renewable Energy Technology)
- ⊕ **Dr. K. K. Khatri** – A member of Editorial Board of ‘International Journal of R&D in Engineering, Science and Management’ (An open Access scholarly, online, peer-reviewed, interdisciplinary, monthly & fully refereed Journal ISSN 2393-865X)

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs). Yes**

***Faculty members attended / participated in workshop, training etc. like***

- ⊕ Certification training by Dr. K. K. Khatri and Mr. Shankar Ganesh on E-Foundry
- ⊕ Internationally Recognized 5-Day NABET Accredited Lead Auditor Training on Environmental, Occupational Health & Safety (EHS) Management Systems by Dr. Manoj Kumar
- ⊕ 5 Day workshop on Mathematical modelling and simulation at MNIT – Jaipur, by Dr. Manoj Kumar
- ⊕ 3 Day workshop on 3D printing at IIT Bombay, 2<sup>nd</sup>-4<sup>th</sup> Nov. 2015
- ⊕ 7 Day summer course on Robotics attended by Mr. Prabin Kumar Jha and Mr. Shanker Ganesh R at IIIT Allahabad
- ⊕ 1 Month summer internship program at ArcelorMittal, Kazakhstan on Industrial Automation from May to June 2015 by Mr. Shanker Ganesh R

**28. Student projects:**

- (a) **Percentage of students who have done in-house projects including inter-departmental projects:**  
Not Applicable
- (b) **Percentage of students doing projects in collaboration with other universities /industry / institute:** None

**29. Awards / recognitions received at the national and international level by**

**⊕ Faculty:**

**(i) Dr. K. K. Khatri:**

- Invited as technical expert for a national conference advisory committee at JNIT, Jaipur.
- Invited as Keynote speaker for national conference AIT, Jaipur.
- Invited as Keynote speaker for national conference MAIET, Jaipur.
- Reviewer of 5 international journals.
- One technology idea of Dr. K. K. Khatri shortlisted for presentation at Global Business Forum (GBF 2015) organized by IIT-Mumbai during 16-18 October 2015 at Goa.

**(ii) Dr. Manoj Kumar:**

- Invited as consultant in welding area by m/s FerroClad Solutions Pvt. Ltd. Vadodara, India
- Invited as consultant in welding area by Nihon weld private limited, Philippine.
- Invited for technical talk by Department of Mechanical Eng., Manipal University Jaipur for 3 days Faculty Development Program on ‘ Design & Manufacturing Technologies: Make in India on 7-9 January 2016.
- Invited to attend Autodesk EDU Summit 2015 at Mumbai fully sponsored by Autodesk.

**(iii) Mr. Prabin Kumar Jha:**

- Invited as keynote speaker in a seminar organized by Math works India in Jaipur.

**⊕ Doctoral / post-doctoral fellows:** None

**⊕ Students:**

- ASME travel grant worth of \$1200 to student for attending student leadership conference at USA.
- ASME Student start up grant of worth \$500 to ASME LNMIIT

**30. Seminars/ Conferences/Workshops organized and the source of funding (national / International) with details of outstanding participants, if any:**

MME participate to organized Workshop on Modeling, Simulation and Computational Techniques (WMSC-2015)

**31. Code of ethics for research followed by the departments:**

The department of Mechanical – Mechatronics strives for the highest standards of excellence and morality in research activities. The department ensures the compliance of professional standards by the faculty. Through the teaching of compulsory Technical Writing Research Methodology (TWRM) for PG students and Value Education and Ethics (VEE) courses a sense of ethics is inculcated in students and a statutory body QARC also screens research papers/proposals for adherences to best practices and standards.

**32. Student profile Programme-wise:**

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
B. Tech Mechatronics	1042	63	3	1 <sup>st</sup> Batch in the 5 <sup>th</sup> Semester	
B. Tech ME	545	30	2	1 <sup>st</sup> Batch in the 1 <sup>st</sup> Semester	
Ph.D. (full time)	Not Available	2	0	Going on	
Ph.D. (Part time)	Not Applicable	0	0	Going on	
Ph.D. (Part time internal)	Not Available	1	0	Going on	

**33. Diversity of Students:**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from universities of other countries
B. Tech Mechatronics	NA	NA	NA	NA
B. Tech ME	NA	NA	NA	NA
Ph.D. (full time)	0	50	50	0
Ph.D. (Part time)	0	0	0	0
Ph.D. (Part time internal)	0	0	0	100

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

Not Applicable

**35. Student progression.**

Student Progression	Percentage against enrolled
UG to PG	Not Applicable
PG to M.Phil.	Not Applicable
PG to Ph.D.	Not Applicable
Ph.D. to Post-Doctoral	Not Applicable
Employed	
Campus selection	Not Applicable
Other than campus recruitment	Not Applicable
Entrepreneurs	Not Applicable

**36. Diversity of staff:**

Percentage of faculty who are graduates	
Of the same university	0
From other universities within the State	16
From universities from other States	50
From universities outside the country	34

- 37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:**
- Ph.D – 04
  - M.Sc – 02

**38. Present details of departmental infrastructural facilities with regard to**

- ✚ **Library** – The central library houses relevant text and reference books and has subscribed to databases like, IEEE, Science Direct etc.
- ✚ **Internet facilities for staff and students** – Wi-Fi in the academic area and fibre line connectivity in staff rooms and hostels
- ✚ **Total number of class rooms** – 16 (shared by all the departments)
- ✚ **Class rooms with ICT facility** – All the classrooms are equipped with ICT facility
- ✚ **Students' laboratories** – 14 (National Instruments (NI) Laboratory, CAD Laboratory, Mechanical Workshop, Engineering Graphics Laboratory, Basic Engineering Laboratory, Material Testing Laboratory, Kinematics & Dynamics Laboratory, Thermodynamics and I. C. Engine Laboratory, Heat Transfer and RAC Laboratory, Hydraulics Laboratory, Project Laboratory, Modelling and Simulation Laboratory, Computer Integrated Manufacturing Laboratory, Robotics Laboratory)
- ✚ **Research laboratories** – 10 [National Instruments (NI) Laboratory, CAD Laboratory, Mechanical Workshop, Material Testing Laboratory, Thermodynamics and I. C. Engine Laboratory, Heat Transfer and RAC Laboratory, Project Laboratory, Modelling and Simulation Laboratory, Computer Integrated Manufacturing Laboratory, Robotics Laboratory.]

**39. List of doctoral, post-doctoral students and Research Associates:**

- From the host institution/university: 03
- From other institutions/universities: 01

**40. Number of postgraduate students getting financial assistance from the university:**

Year	M. Tech.		M.S.		Ph.D.	
	Male	Female	Male	Female	Male	Female
Y11	0	0	0	0	0	0
Y12	0	0	0	0	0	0
Y13	0	0	0	0	0	0
Y14	0	0	NA	NA	1	0
Y15	0	0	NA	NA	1	0

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.**

For Mechanical-Mechatronics and Mechanical Engineering Programme local and global industrial needs were examined. Curriculum was designed to fulfill the need of industry as well as academics. Course content was designed with the help of renowned local and global universities to fulfill the need of academics and industry. The request is sent to AC-UGC which formulates and forwards the program structure and curriculum to AC for academic approval.

**42. Does the department obtain feedback from:**

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** - Yes

The new courses designed by a faculty are circulated to the all the members of faculty members of department on a common mailing list. All suggestions and changes are reviewed collectively by the department and incorporated in the curriculum therein. Subsequently, AC-UGC and AC reviews it for further approval.

- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**- Yes

At the end of each semester, the students are asked to give their anonymous feedback online on all aspects of teaching-learning in the feedback form designed specifically for this purpose. The feedback received is reviewed by the head of the institute and if needed, the concerned faculty is counseled for necessary action.

**(c) Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The 1<sup>st</sup> Batch is yet to graduate and thus there are no alumni. We are in the continuous touch with industries like Bosch and NI etc. to align our curriculum more industrial needs.

**43. List the distinguished alumni of the department (maximum 10):**

The 1<sup>st</sup> Batch is yet to graduate and thus there are no distinguished alumni.

**44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

At the beginning of the first semester screening test of admitted students taken followed by a semester long grooming in the areas of need. Eminent scholars in the field are invited to deliver lectures on topics of general interest as well as those related to the courses offered. The students are also encouraged to participate and present papers in conferences and publish in journals and books. External expert talks were organized periodically. Recently we invited three experts from academics and industries are given below:

- ⊕ **The Golden Spiral:** Connecting Teaching, Research and Innovation: Prof. (Dr.) B. Ravi is the Institute Chair Professor of Mechanical Engineering, and head of E-Foundry and OrthoCAD Labs at IIT Bombay. In his brief visit to the LNM IIT, Jaipur, he addressed the faculty and students on how the past two decades of his life resulted in notable advancements in the area of metal casting and medical devices.  
He explained the mantra behind the success was essentially linking teaching, research, and industrial innovation, which he called "The Golden Spiral". He urged the faculty to visit and observe industries, find examples which could be discussed in the class and inspire students to come up with innovative solutions.
- ⊕ **Dr. Ashok Kaushal,** Affiliate Associate Professor, Concordia University, Montréal, Québec, Canada and Senior Specialist Engineer-Technical Lead, Rolls-Royce Canada (RRC), Dorval, Québec, Canada delivered an invited talk on "Dynamic Analysis of a Variable Speed Industrial Gas Turbine Engine & Drive-train Analysis and Testing".
- ⊕ **Prof. Sunil Pandey,** prof. IIT-Delhi delivered an invited talk on indigenous technology development with low investment.

**45. List the teaching methods adopted by the faculty for different programmes.**

- |   |  |
|---|--|
| <b>M1</b> - Lecture interspersed with discussions | <b>M7</b> - Laboratory                                     |
| <b>M2</b> - Lecture followed by a quiz            | <b>M8</b> - Promote Active Learning                        |
| <b>M3</b> - Tutorial                              | <b>M9</b> - ICT tools/ Multimedia enabled lecture delivery |
| <b>M4</b> - Group Discussion                      | <b>M10</b> - Video Lectures (NPTEL, MIT, etc.)             |
| <b>M5</b> - Group Assignment                      | <b>M11</b> - Term Paper/Report - Innovative Delivery       |
| <b>M6</b> - Group Project                         | Methods/ Technologies                                      |

- |   |
|---|
| <b>M12</b> – Course/ Learning Management System |
|---|

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Through continuous evaluation involving quizzes, open discussions, individual and group project assignments, oral presentations, midterm and end term examination. Feedback from Departmental Meetings and Class Committees.

**47. Highlight the participation of students and faculty in extension activities:**

Conducted a 2 day workshop on Ansys Software as FDP in the department of MME at the LNMIIT Jaipur during August 1-2, 2015.

**48. Give details of "beyond syllabus scholarly activities" of the department:**

- ⊕ Organized workshops and periodical quizzes, workshops and seminars by students under ASME and SAE student chapter throughout the year.
- ⊕ Invited distinguished scholars of national and international level in Invited lecture.
- ⊕ Institute seminars by faculty members.
- ⊕ Extension seminars by eminent scholars.
- ⊕ ASME and SAE Student chapters' workshop and seminars.

- Faculty are encouraged to publish research in peer reviewed journals and conferences. The institute has been granting research grant to all faculty members for this purpose.
- Students are encouraged to publish their research findings in reputed Conferences and Journals. The institute also provides part financial assistance to the students for attending Conferences/Workshops.
- Various industrial internships for students.

**49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. :** Not Applicable

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been striving for knowledge creation through an amalgamation of teaching-learning and research. The Faculty has teaching and research contribution in the areas of Manufacturing, Design, Thermal, Industrial and Mechatronics. BTP and LUSIP projects offered by the department ensure students participation in research and knowledge creation. Workshops and seminars are also organized to keep abreast of the new knowledge generated in various fields.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strength:**

- (1) Good infrastructure support for academics and research
- (2) We have a good number of faculty members, most of the faculty members are Ph.D from reputed institutions.
- (3) Most of the faculty members are young and strive to perform well in academic, administrative and research activities.
- (4) Most of the faculty members have good year of industrial experiences.
- (5) Faculty having good communication with industry and doing consultancy.

**Weaknesses:**

- (1) Slightly young Department
- (2) Still development is going on
- (3) No Research center
- (4) Less number of quality students in Ph.D. programs
- (5) No Post Graduate Program

**Challenges and Opportunities:**

- (1) Utilize diversity in research areas of the faculty members to form research groups for collaborative projects
- (2) Need to have collaboration with other academic institutions and industries both in India and abroad
- (3) Improve contacts within the organization to help research in interdisciplinary areas
- (4) Obtain government-funded projects
- (5) Keep up to date with technology changes

**52. Future plans of the department.**

- (1) To further develop the labs and supporting infrastructure.
- (2) Start M. Tech Programme
- (3) Collaboration with National and International industries and universities.
- (4) Development of Research labs and centers.
- (5) Fetching grants from industries through research projects and consultancy.
- (6) Develop strong academic industrial relationship.
- (7) Start professional certification courses
- (8) Develop more professional body chapters

## E. Evaluative Report of the Humanities and Social Sciences (HSS)

1. **Name of the Department** - Humanities and Social Sciences
2. **Year of establishment** – 2003
3. **Is the Department part of a School/Faculty of the university?** – Not Applicable
4. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)** -
  - (a) U.G. courses to B.Tech students in English, Economics, Psychology, Value Education and Ethics (core courses) and elective courses.
  - (b) Ph.D. program in English, Linguistics, Psychology and Economics.
5. **Interdisciplinary programs and departments involved** – No
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.** – No
7. **Details of programs / courses discontinued, if any, with reasons** – Not Applicable
8. **Examination system: Annual/ Semester/ Trimester/ Choice Based Credit System-**  
Semester and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments** –  
Courses in UG and PG Programmes

**10. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors):**

The recruitment of a faculty is need based. At present, the department of HSS has 5 regular faculty members and in addition to this, the department invites visiting faculty as per the need and to enhance diversity of courses.

Name of the Post	Sanctioned	Sanctioned/ Filled
Professor	Flexible	Nil
Associate Professors	Flexible	2
Asst. Professors	Flexible	3
Others (visiting faculty in the semester Jul – Dec 2015-16)	N/A	5

**11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.**

Sr. No.	Name	Qualification	Designation	Specialization	Experience (No. of years)	No. of Ph.D. students guided for last four years
1	Dr. Manju Dhariwal	Ph.D.	Associate Professor	English Language and Professional Communication; Literature Modernist Studies)	16	1
2	Dr. Rajbala Singh	Ph.D.	Associate Professor	Health Psychology, Positive Psychology	8	1 (Pursuing)
3	Dr. Narendra Kumar	Ph.D.	Assistant Professor	Ethnic Conflict and the Literature of Indian Subcontinent; Postcolonial Studies; Literature of Caribbean Diaspora	10	-
4	Dr. Surinder Singh Nehra	Ph.D	Assistant Professor	Economics	10	-

Sr. No.	Name	Qualification	Designation	Specialization	Experience (No. of years)	No. of Ph.D. students guided for last four years
5	Dr. Usha Kanoongo	Ph.D.	Assistant Professor	English Language Teaching, Applied Linguistics (Pragmatics, Sociolinguistics)	6.5	-
6	Prof.A.P. Singh	B.Com (Hons.), M.BA	Visiting Faculty	Finance	39 (31-corporate, 8-teaching)	-
7	Mrs. Beena Gokhale	M.A.; M.Ed	Visiting Faculty	Teaching English as a second Language; Secondary Education	30	-
8	Dr. Meena Sogani	Ph.D.	Visiting Faculty	Public Administration	35	
9	Mrs. Ranju Mehta	M. Phil	Visiting Faculty	Philosophy	24	-
10	Mr. Dayanand Sharma	PG Diploma in French	Visiting Faculty	French	3	-

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:**

Nil

**13. Percentage of classes taken by temporary faculty – program-wise information:**

Approximately 20% (Academic year 2014-15) of the HSS courses for B.Tech / M.Tech / PhD programs of other departments.

**14. Program-wise Student Teacher Ratio:**

This department does not offer U.G. Programs but core/elective courses to U.G. programs. It offers Ph.D. programs in various HSS disciplines.

Ph.D. – 1:5

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Nil**

**16. Research thrust areas as recognized by major funding agencies:**

Ethnic Conflict in the Literature of the Indian Subcontinent.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies and grants received project-wise.**

**(a) National: 01**

- ⊕ **Funding Agency:** Indian Council of Social Science Research (ICSSR)
- ⊕ **Title:** Tracing the Faultiness of Ethnic Conflict in the Postcolonial Indian Subcontinent: Narrative as a Socio-Political Discourse
- ⊕ **Grant:** 8.00 Lakh

**(b) International: Nil**

**(c) Total grants received:** 8.00 Lakh

**18. Inter-institutional collaborative projects and grants received**

**(a) National collaboration:** Nil

**(b) International collaboration:** Nil

- 19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, etc.; total grants received.** - Nil
- 20. Research facility / centre with:**
- ❖ **State recognition:** Nil
  - ❖ **National recognition:** Nil
  - ❖ **International recognition:** Nil
- 21. Special research laboratories sponsored by / created by industry or corporate bodies** – Nil
- 22. Publications:**
- ❖ **Number of papers published in peer reviewed journals (national / international):** 15
    - (a) International/ National conference papers: 51
  - ❖ **Monographs:** Nil
  - ❖ **Chapters in Books:** 11
  - ❖ **Edited Books:** Nil
  - ❖ **Books with ISBN with details of Publisher:**
    - (a) N. Krishnaswamy, Manju Dhariwal and Lalitha Krishnaswamy (2015). Mastering Communication Skills and Soft Skills. New Delhi: Bloomsbury, ISBN – 978-93-85436-27-7
    - (b) Singh R. (2011). *Psychological Model of Illness*. U.K.: Cambridge Scholars Publishing (ISBN-10: 1443829811, ISBN-13: 978-1443829816).
    - (c) Gokhale, B. *Interact English*. Eight text books for IX and X standard CBSE; a member of the Material Production Team, ODA project of British Council (1989-1993)
  - ❖ **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)** – 03
  - ❖ **Citation Index – range / average:** Data not kept
  - ❖ **SNIP** – Data not kept
  - ❖ **SJR** – Data not kept
  - ❖ **Impact Factor – range / average:** Data not kept
  - ❖ **h-index** – Data not kept
- 23. Details of patents and income generated** – Nil
- 24. Areas of consultancy and income generated** – Nil
- 25. Faculty selected nationally/ internationally to visit other laboratories in India and abroad** – Nil
- 26. Faculty serving in National committees b) International committees c) Editorial Boards d) any other (please specify):** Nil
- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**  
 Participation in various Faculty Development Programs/ Schools and Workshops, Symposia, conferences and training programs etc.
- 28. Student projects:**
- ❖ **Percentage of students who have done in-house projects including inter-departmental projects-** 10 – 15% (BTP & LUSIP)
  - ❖ **Percentage of students doing projects in collaboration with other universities / industry / institute –**  
 Not Applicable

**29. Awards / recognitions received at the national and international level by –**

 **Faculty:**

- (a) Best Paper Award for the paper "Sociolinguistic Paradigm to Gender and Leadership: Exploring Opportunities" presented in Global Summit 2015 on "Make in India: Transforming Human Resources and Strategic Development organized by National Institute for Entrepreneurship and Small Business Development (NIESBUD) of the MSME, Government of India, 2015.
- (b) Dr. Rajbala Singh received travel grant for presenting research paper for "D. Sinha Doctoral Dissertation Award" by National Academy of Psychology, India during March 6-9, 2010.

 **Doctoral/Post-doctoral fellows – Not Applicable**

 **Students – Not Applicable**

**30. Seminars/ Conferences/ Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.**

 **Seminars / Conferences / Workshops:**

**(1) One day workshop on Communication:** Its Varied Forms organized at The LNM Institute of Information Technology, Jaipur on November 14, 2009.

**Funding –** The LNMIIT

**Participants:**

- (a) Prof. Udaya Narayan Singh, Tagore Professor, Rabindra Bhavan, Vishva-Bharti
- (b) Prof. K. K. Gautam, Head of the English Department: Jaipur National University, Jaipur, Former Director: IGNOU, Jaipur Branch
- (c) Prof. S.M Seth, Director General of Poornima College of Engineering, Jaipur, Former Director of National Institute of Hydrology, Roorkee
- (d) Dr. Preeti Sharma, Assistant Professor, English, Jain Vishva Bharti University, Ladnun
- (e) Dr. Deepali Vyas, Lecturer of English, Sona Devi Sethia Girls P G College, Sujangarh

**(2) A workshop on Aspects** of Interpersonal Communication and Psychological Analysis at The LNM IIT, Jaipur, Rajasthan (October 29<sup>th</sup>, 2009).

**(3) International conference on Translation Studies:** Theory and Practice organized by the English Department of The LNM Institute of Information Technology, Jaipur, 29 Dec-31 Dec, 2008.

**Funding Provided by –** DST, CSIR, INSA, Rajasthan Patrika, ITA, WPMC

**Participants:**

- (a) Prof. R.P. Bhatnagar, Professor and Former Head of Dept., English, University of Rajasthan
- (b) Prof. N. Krishnaswam, Prof. of linguistics, CIEFL, Hyderabad
- (c) Prof. Roger T Bell, University of Westminster
- (d) Dr. Christi Merrill: Dr. Chrisiti A Merrill, University of Michigan
- (e) Zubeida Ibrahim Bell, University of Malaysia
- (f) Prof. Vijay Bhatia, City University of Hong Kong
- (g) Prof. Rajul Bhargava, Former Prof. and Head, Department of English, University of Rajasthan
- (h) Prof. Gurupdesh Singh, GND University, Amritsar
- (i) Prof. Farhutullah Khan, Prof. Emeritus, Aligarh Muslim University
- (j) Mr. Ravi Kumar, President, Indian Translation Association, New Delhi
- (k) Mr. C.M. Rawal, Vice President, Indian Translator's Association, New Delhi

**(4) Teacher Training Workshop** (in English Language and Laboratory), for the teachers of various schools of Jaipur in May 2007.

**Funding –** The LNMIIT

**Participants:**

- (a) Senior Secondary Schools of Jaipur

**31. Code of ethics for research followed by the departments -**

The department of HSS strives for the highest standards of excellence and morality in research activities. The department ensures the compliance of professional standards by the faculty. Through the teaching of compulsory Technical Writing Research Methodology (TWRM) for PG students and Value Education and Ethics (VEE) courses a sense of ethics is inculcated in students and a statutory body QARC also screens research papers/proposals for adherences to best practices and standards.

**32. Student profile programme-wise -**

For UG students the data is available with degree awarding departments

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph.D.	2	0	1	100%	(Degree awarded in 2015)
Ph.D.	3	0	1		In progress

**33. Diversity of Students -**

For UG students the data is available with degree awarding departments

Name of the Course (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from other countries
Ph.D.	0	0	100%	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. – Nil**
**35. Student progression –**

Student progression	Percentage against enrolled
UG to PG	Not applicable
PG to M.Phil.	Not applicable
PG to Ph.D.	Not applicable
Ph.D. to Post-Doctoral	Nil
Employed <ul style="list-style-type: none"> <li>▪ Campus selection</li> <li>▪ Other than campus recruitment</li> </ul>	Nil 01
Entrepreneurs	Nil

**36. Diversity of Staff –**

Percentage of faculty who are graduates	
of the same university	Nil
from other universities within the State	60%
from universities from other States	40%
from universities outside the country	Nil

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period – 03**
**38. Present details of departmental infrastructural facilities with regard to -**

**(a) Library** – The central library houses relevant text and reference books and has subscribed to databases like, Jstor, IEEE, Science Direct etc.

**(b) Internet facilities for staff and students –**

Wi-Fi in the academic area and fibre line connectivity in staff rooms and hostels

- (c) **Total number of class rooms** – 16 (shared by all the departments)  
 (d) **Class rooms with ICT facility** – All the classrooms are equipped with ICT facility  
 (e) **Students' laboratories** - Nil  
 (f) **Research laboratories** – Nil
- 39. List of doctoral, post-doctoral students and Research Associates -**  
 (a) **From the host institution / university** – Doctoral: 01; Others: Nil  
 (b) **From other institutions / universities** – Nil
- 40. Number of post graduate students getting financial assistance from the university:**  
 01 (part assistance)
- 41. Was any need assessment exercise undertaken before the development of new program (s)? If so, highlight the methodology.** - Not Applicable
- 42. Does the department obtain feedback from -**  
 (a) **faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** – Yes  
 The new courses designed by a faculty are circulated to the all the members of faculty of department of HSS on a common mailing list. All suggestions and changes are reviewed collectively by the department and incorporated in the curriculum therein. Subsequently, AC-UGC and AC reviews it for further approval.
- (b) **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** - Yes  
 At the end of each semester, the students are asked to give their anonymous feedback online on all aspects of teaching-learning in the feedback form designed specifically for this purpose. The feedback received is reviewed by the head of the institute and if needed, the concerned faculty is counseled for necessary action.
- (c) **Alumni and employers on the programmes offered and how does the department utilize the feedback?**  
 The institute systematically gathers feedback on the technical as well as soft skill capabilities of our students from companies who come for placement activities. This feedback is analyzed and necessary improvements are made to the academic courses. For example the HSS department has been continuously improving its course on technical writing and business communications. Also the HSS department enhanced the quality of the course on 'Value Education and Ethics'.
- 43. List the distinguished alumni of the department (maximum 10):**  
 Dr. Shalini Saxena, Asst. Professor, Suresh Gyan Vihar University, Jaipur
- 44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.**  
 At the beginning of the first semester screening test of admitted students taken followed by a semester long grooming in the areas of need.  
 Eminent scholars in the field are invited to deliver lectures on topics of general interest as well as those related to the courses offered. The students are also encouraged to participate and present papers in HSS conferences and publish in journals and books.
- 45. List the teaching methods adopted by the faculty for different programs.**  
 Teaching methodology includes but not limited to interactive lecture delivery, use of audio and visual media (ICT tools and multimedia), individual and group project work, term paper, presentations, case study exercises and use of course / learning management system such as, Google-Class Room, Moodle etc.  
 QEEE courses and video lectures from NPTEL, TED talks etc. are also used. Teaching and Learning best practices from IIT Bombay pedagogy workshop have been incorporated such as, Flip Class Room, Blooms Taxonomy of pedagogy, setting question papers so as to meet the expected outcome of the course etc.  
 Besides these informal methods are also adopted such as, one-on-one discussions outside Class Rooms.

**46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?**

- ⊕ Through continuous evaluation involving quizzes, open discussions, individual and group project assignments, oral presentations, midterm and end term examination.
- ⊕ Feedback received by T& P from recruiting companies is placed in various forums for analysis and subsequent adoption.

**47. Highlight the participation of students and faculty in extension activities.**

- ⊕ Teaching of children of mess workers by Sankalp group students (MWEP)
- ⊕ Visits to nearby villages with MO for health counseling and treatment

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- ⊕ Students are encouraged to participate in extracurricular activities like dramatics, debates, declamations, poetry recitations, elocutions, and story writing through activities organized by the literary committee which is a literary body of the institution.
- ⊕ They are encouraged to publish their creative articles and poems in various literary magazines and journals.
- ⊕ They are exposed to a study of different cultures through the screening of film adaptations of literary novels and plays.
- ⊕ Students are made to conduct analysis of current issues pertaining to science, economics, politics, society, culture and sports in order to raise their general awareness and also to build their written and spoken skills.

**49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details.** – No

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

The department has been striving for knowledge creation through an amalgamation of teaching-learning and research. The Faculty has teaching and research contribution in the areas of Curriculum designing, English Language teaching, Applied linguistics, Film Adaptations, Professional Communication, Business skills and Soft skills, Postcolonial Studies and Modernist Studies, Literature of African and Caribbean Diaspora, Ethnic Conflict and the Literature of Indian subcontinent, Health Psychology and Organizational Behavior, Human Values and Professional Ethics, Managerial Economics, Challenges for Indian Economy, and Project Formulation and Appraisal etc. The department has been involved in interdisciplinary research as a result of which a number of papers are presented in national and International conferences. One such innovative venture was a paper titled "The Nature of Technology Generated Ethical Problems in Developing Societies: The Case of ICT in India" presented at 1<sup>st</sup> International Conference of Ethical Issues of Emerging ICT Applications (ETICA) in Barcelona, Spain, in April 2010. BTP and LUSIP projects offered by the department ensure students participation in research and knowledge creation. Workshops and seminars are also organized to keep abreast of the new knowledge generated in various fields.

**51. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:**

**Strengths:**

- (1) Interdisciplinary nature of the department
- (2) Young and enthusiastic faculty with Ph.D.
- (3) Flexibility to engage experienced faculty on semester basis
- (4) Diversity in research areas
- (5) A variety of interdisciplinary elective course providing students with the indispensable skills of effective communication and generating cultural, social, political awareness, ethical and social responsibility.

**Weaknesses:**

- (1) Unavailability of senior/super-senior faculty for mentoring
- (2) Multi-disciplinary of nature obstructing discipline specific intensive research
- (3) Smaller number of funding agencies as compared to science and technology
- (4) Branding of the department being placed in a technology institute
- (5) No master's degree program

**Opportunities:**

- (1) Possibilities for interdisciplinary and collaborative research and academic programs
- (2) Open space for the exploration of techno-social concerns
- (3) Availability of infrastructure to work in areas like digital humanities etc.

**Challenges:**

- (1) Tapping the inherent interdisciplinary potentialities to the optimum
- (2) Competition with full-fledged PG departments in surrounding universities
- (3) Target audience (technology students) demand challenging courses
- (4) Publications in reputed journals

**52. Future plans of the department.**

- (1) Strengthening the Ph.D. program
- (2) Starting a five-year integrated M.A. Programs in Mass Communication, Public Policy
- (3) Organizing national/international Workshops and Conferences
- (4) Undertaking research projects with the financial assistance from national and international funding agencies

## F. Evaluative Report of the Mathematics Department

1. **Name of the Department** – Mathematics
2. **Year of establishment** – 2003
3. **Is the Department part of a School/Faculty of the university?** – Not Applicable
4. **Names of Programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.)** –
  - (a) Two year M.Sc. in Mathematics
  - (b) Ph.D. (Mathematics)
5. **Interdisciplinary programs and departments involved:**  
 Both the programs (M.Sc. & Ph.D.) offered by the department are interdisciplinary in nature and other departments are involved as and when required for academic reviews, course(s) selection, feedback, curriculum design etc.
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programs discontinued, if any, with reasons:**  
**Program Name:** B.Tech. in Mathematics and Information Technology (MIT)  
**Reason:** The program was discontinued as it was not popular among students and only few students showed interest for admission to this program.
8. **Examination System: Annual/ Semester/ Trimester/ Choice Based Credit System:**  
 Semester and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:** Yes. Details are as follows:
  - (i) Discrete Mathematical Structures (Core course for CSE Branch)
  - (ii) Probability Theory and Stochastic Processes (Core course for ECE branch)

### 10. Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)

Name of the Post	Sanctioned	Filled / Actual
Distinguished Professor	Flexible	1
Professor	Flexible	Nil
Associate Professors	Flexible	3
Asst. Professors	Flexible	4
Others (visiting faculty in the semester Jul – Dec 2015-16)	N/A	0

### 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. Students guided for the last 4 years
Dr. Mohan Kadalbajoo	Ph.D.	Distinguished Professor	Numerical Analysis; Numerical Solution of ODEs & PDEs; Singular Perturbation Problems in ODEs ,PDEs, & DDEs; Option Pricing, Financial Mathematics	38	23 Ph.D. (total) 03 (last four years)
Dr. Ajit Patel	Ph.D.	Associate Professor	Numerical Analysis, Finite Element Methods, Differential Equations, Computational Partial Differential Equations	7.5	1 (In progress)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D./M.Phil. Students guided for the last 4 years
Dr. Akhlaq Husain	Ph.D.	Associate Professor	Numerical Solution of Partial Differential Equations, h-p/ Spectral Element Method, Parallel Computing	5.5	1 (In progress)
Dr. Vikas Gupta	Ph.D.	Associate Professor	Numerical Solution of Differential Equations, Singularly Perturbed Problems, Higher order finite Difference Schemes, B-spline Collocation, Computational Fluid Dynamics, Layer adaptive meshes	6.5	Nil
Dr. Dheerendra Mishra	Ph.D.	Assistant Professor	Digital Rights Management Systems; Authentication Protocols; Access Control in Cloud; Privacy; Security	3	Nil
Dr. Manish Garg	Ph.D.	Assistant Professor	Cryptography and Finite Fields	4	Nil
Dr. Sunil K. Gauttam	Ph.D.	Assistant Professor	Stochastic Control, Stochastic Differential Equation , Probability Theory, Stochastic Processes.	3	Nil
Dr. Somnath Maiti	Ph.D.	Assistant Professor	Differential Equations, Fluid Mechanics, Numerical Analysis, Modeling and Simulations, Computational Methods, Physiological Flows, Bio-mechanics, Mechanics	3	Nil

**12. List of senior Visiting Fellows, adjunct faculty, emeritus professors (\*):**

**Past Faculty (as Professors)**

- (i) Prof. JB Shukla (Retd. Prof. IIT Kanpur) from 2004 to 2011
- (ii) Prof. SK Gupta (Retd. Prof. IIT Kanpur) from 2005 to 2012
- (iii) Prof. V. Raghavendra (Retd. Prof. IIT Kanpur) from 2013 to 2015

**13. Percentage of classes taken by temporary faculty – program-wise information:** Nil

**14. Program-wise Student Teacher Ratio:**

- ✚ No student(s) in M.Sc.
- ✚ Ph.D. – 1:7

**15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:**

Academic/Administrative support staff is not required as of now. The Head of the Department currently looks after all administrative issues related to the Department along with faculty colleagues within the Department.

**16. Research thrust areas as recognized by major funding agencies:**

Numerical Solution of Partial Differential Equations, Scientific Computing, Mathematical Modeling and Cryptography, Singular perturbation problems in ODEs, PDEs, DDEs, Option Pricing, Financial Mathematics. Probability Theory, Stochastic Process.

**17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received Project-wise.**

- (i) **National:** 01

(ii) **International:** 0

(iii) **Grant Received:** INR 13.62 Lakh

**Project Title:** Conforming least-squares h-p spectral element methods for three dimensional elliptic problems on non-smooth domains using parallel computers.

**Principal Investigator:** Dr. Akhlaq Husain

**Co-Investigator:** Dr. Ajit Patel and Dr. Vikas Gupta

**Name of the funding Agency:** Department of Science and Technology, New Delhi, India

**Duration:** Three Years (2014-16)

**18. Inter-institutional collaborative projects and associated grants received:**

(i) **National collaboration:** Nil

(ii) **International collaboration:** Nil

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:** Nil

**20. Research facility / centre with -**

(a) **State recognition:** None

(b) **National recognition:** None

(c) **International recognition:** None

**21. Special research laboratories sponsored by / created by industry or corporate bodies** - Nil

**22. Publications:**

⊕ **Number of papers published in peer reviewed journals (national / international):**

▪ 195+52 (International)

⊕ **Monographs:** None

⊕ **Chapters in Books:** None

⊕ **Edited Books:** NPTEL Lectures (02 Courses) by M.K. Kadalbajoo

⊕ **Books with ISBN with details of publishers:** Data not kept

⊕ **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database – International Social Sciences Directory, EBSCO host, etc.):** Data not kept

⊕ **Citation Index – range / average:** Included in impact factor calculations 1528 (M.K. Kadalbajoo)

⊕ **SNIP:** Data not kept

⊕ **SJR:** More than 52 research papers are included in SJR database

⊕ **Impact Factor – range / average:** 0.522 to 2.866

⊕ **h-index:** 0.0 to 22.0

**23. Details of patents and income generated:** Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions –**

(a) **Industries in India and abroad:** Nil

(b) **Academic institutes in India:**

⊕ Several Plenary lectures, Invited lectures, delivered by Professor M.K. Kadalbajoo at International conferences held in India and abroad over the years.

⊕ Several invited Seminar talks delivered by Professor M.K. Kadalbajoo at different IITs, NITs, Central universities in India over the years

⊕ Lecture series on Partial Differential Equations by Dr. Akhlaq Husain at the Central University of Kashmir, Srinagar during June 02-14, 2014.

- ⊕ Invited lecture by Dr. Akhlaq Husain in the Indo-German conference on Modelling, Simulation and Optimization in Applications at TU Darmstadt, Germany during September 05-07, 2012.
- ⊕ Lecture series on h-p Finite/Spectral Element Methods by Dr. Akhlaq Husain in the Instructional Workshop on FEM at TIFR Bangalore during July 02-13, 2012.

**26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify) -**

**Professor M K Kadalbajoo:**

- ⊕ has served as a senior associate editor for the international journal " Applied Mathematics and Computation" published by Elsevier.
- ⊕ has served twice as an invited editor for special issues of the international journal " Neural, Parallel, and Scientific Computing" published by Dynamic publishers, USA.
- ⊕ has served as a member in selection committee(several times) for faculty recruitment conducted by Union Public Service Commission(UPSC), New Delhi and by other Centrally funded technical institutes
- ⊕ Has served as a member of a selection committee for recruiting personnel in civil services by UPSC, New Delhi
- ⊕ Has served in many confidential operations like question paper setting/evaluation for competitive examinations conducted by UPSC several times
- ⊕ Has reviewed numerous research papers for several international journals for about three decades
- ⊕ Has been a reviewer for "Mathematical Reviews" published by American Mathematical Society for more than three decades
- ⊕ Has been an invited member of the New York Academy of Sciences
- ⊕ Has been a member of American Mathematical Society for more than two decades

**Dr. Vikas Gupta has reviewed for the following journals:**

- ⊕ Journal of Computational and Applied Mathematics, Published by Elsevier.
- ⊕ IMA Journal of Numerical Analysis, Published by Oxford University Press.
- ⊕ Computer and Mathematics with Applications, Published by Elsevier.
- ⊕ Applied Mathematics and Computation, Published by Elsevier.
- ⊕ International Journal for Computational Methods in Engineering Science & Mechanics, Published by Taylor & Francis.
- ⊕ Numerical Heat Transfer, Published by Taylor & Francis.
- ⊕ Applications and Applied Mathematics: An International Journal (AAM), Published by Prairie View A&M University, USA and Technical University of Sofia, Bulgaria
- ⊕ International Journal of Numerical Methods for Heat & Fluid Flow

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):**

- (a) Participation in national/international conferences and workshops
- (b) Invited Lectures at institutes in India and abroad
- (c) Conducting departmental and external seminars
- (d) Inviting external speakers for series of lectures

**28. Student projects –**

- (a) **Percentage of students who have done in-house projects including inter-departmental projects:** 01% to 02% (BTP and LUSIP) per year
- (b) **Percentage of students doing projects in collaboration with other universities / industry / institute:** Nil

**29. Awards / recognitions received at the national and international level by -**
**(i) Faculty:**

- (a) Dr. Vikas Gupta is listed in Marquis Who's in the world 2011 (28<sup>th</sup> edition)
- (b) Dr. Vikas Gupta is listed in outstanding intellectuals of the 21<sup>st</sup> century-2011 (Published by International Biographical Centre, Cambridge, England)
- (c) Dr. Ajit Patel received Best Presentation award in 35th Annual Conference of Orissa Mathematical Society, Sailabala Women's College, Cuttack, 2-3 Jan 2008.
- (d) National Conference on Evolution Equations: Theory, Methods & Applications (NCEETMA-2012), December 7 - 8, 2012 in honour of Prof. V. Raghavendra.

**(ii) Doctoral /post-doctoral fellows: Nil**
**(iii) Students: Nil**
**30. Seminars/ Conferences/Workshops organized and the source of funding (national and international) with details of outstanding participants, if any.**

- ✚ Undergraduate Level Training (UG-2015) under the auspices of National Program on Differential Equations: Theory Computation and Applications (NPDE-TCA), IIT Bombay, May 18-June 06, 2015, LNMIIT Jaipur, India. (Funded by: NPDE-TCA (DST), LNMIIT Jaipur)
- ✚ Conference on Partial Differential Equations (CPDE-2014), December 10-11, 2014, LNMIIT Jaipur, India. (Funded by: National Board for Higher Mathematics (NBHM), LNMIIT Jaipur)
- ✚ Advanced Workshop on Hyperbolic PDEs: Theory, Numerics & Applications (HPTNA-2014), December 01-09, 2014, LNMIIT Jaipur, India. (Funded by: National Board for Higher Mathematics (NBHM), Department of Science & Technology, New Delhi & LNMIIT Jaipur)
- ✚ Workshop on GPU Computing August 09-10, 2014 (Funded by LNMIIT Jaipur)
- ✚ Workshop on Elliptic Equations: Variational Formulation and Numerics, EEVFN, 09 – 21 December 2013; (National, funded by NBHM and LNMIIT).
- ✚ 1 National Workshop on Cryptography (NWC-2015), Dec. 14-20, 2015. LNMIIT Jaipur, India (Funded by NBHM, IBM)

**31. Code of ethics for research followed by the departments:**

- (i) Quality Assurance Research Committee (QARC)
- (ii) Technical Writing and Research Methodology (TWRM) a compulsory course for all PG students and compulsory value education and ethics course for first year students.
- (iii) We use the best practice for research ethics.

**32. Student profile program-wise:**

Name of the Program (refer to question no. 4)	Applications received	Selected		Pass Percentage	
		Male	Female	Male	Female
Ph.D.	5	1	0	100% (In progress)	0
M.Sc.	13	3 (Not joined)	0	0	0

**33. Diversity of students -**

Name of the Programme (refer to question no. 4)	% of students from the same university	% of students from other universities within the State	% of students from universities outside the State	% of students from universities of other countries
Ph.D.	0	0	100	0
M.Sc.	0	0	0	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.: Nil**

**35. Student progression –**

<b>Student Progression</b>	<b>Percentage against enrolled</b>
UG to PG	Not Applicable
PG to M.Phil.	Not Applicable
PG to Ph.D.	Not Applicable
Ph.D. to Post-Doctoral	Nil
Employed <ul style="list-style-type: none"> <li>▪ Campus Selection</li> <li>▪ Other than campus recruitment</li> </ul>	Nil Nil
Entrepreneurs	Nil

**36. Diversity of staff –**

<b>Percentage of faculty who are graduates</b>	
Of the same university	0
From other universities within the State	0
From universities from other States	100
From universities outside the country	0

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** 0

**38. Present details of departmental infrastructural facilities with regard to -**

- (a) **Library:** Not yet available (Central library caters to the need of the department)
- (b) **Internet facilities for staff and students:** Available both high speed LAN & Wi-Fi
- (c) **Total number of class rooms:** 16
- (d) **Class rooms with ICT facility:** 16 (Shared by all the departments)
- (e) **Students' laboratories:** Not applicable
- (f) **Research laboratories:** HPC Server, GPU/CUDA Server

All these facilities except research laboratories exist and common to all departments.

**39. List of doctoral, post-doctoral students and Research Associates –**

- (a) **From the host institution/ university:** 1
- (b) **From other institutions/ universities:** 0

**40. Number of post graduate students getting financial assistance from the university.**

<b>Year</b>	<b>M. Tech.</b>		<b>M.S.</b>		<b>Ph.D.</b>	
	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>	<b>Male</b>	<b>Female</b>
Y11	0	0	0	0	1	0
Y12	0	0	0	0	0	0
Y13	0	0	0	0	0	0
Y14	0	0	0	0	0	0
Y15	0	0	0	0	0	0

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:** Yes

- (i) Academic review of the any new program is done by inviting experts from reputed institutes of national importance.
- (ii) Annual review of all new programs is also being done by seeking help from senior and experienced researchers/professors from IITs/IISc/TIFR/NITs etc. all across the country.

**42. Does the department obtain feedback from -**

**(i) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? - Yes**

The new courses designed by a faculty are circulated to the all the members of faculty of department of Mathematics on a common mailing list. All suggestions and changes are reviewed collectively by the department and incorporated in the curriculum therein. Subsequently, AC-UGC and AC reviews it for further approval.

**(ii) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? - Yes**

At the end of each semester, the students are asked to give their anonymous feedback online on all aspects of teaching-learning in the feedback form designed specifically for this purpose. The feedback received is reviewed by the head of the institute and if needed, the concerned faculty is counseled for necessary action. Students' feedback is utilized in improving teaching, assignments and course contents etc.

**(iii) Alumni and employers on the programs offered and how does the department utilize the feedback? - Not Applicable (The department has no Alumni so far)**

**43. List the distinguished alumni of the department (maximum 10): Nil**

**44. Give details of student enrichment programs (special lectures / workshops / seminar) involving external experts.**

- (a) An invited seminar by Prof. Nandini Nilakantan (IIT Kanpur) on "The Kneser Conjecture: A proof using the Borsuk Ulam Theorem" March 10, 2015
- (b) Undergraduate Level Training (UG-2015) under the auspices of National Programme on Differential Equations: Theory Computation and Applications (NPDE-TCA), IIT Bombay, May 18 - June 06, 2015, LNMIIT Jaipur, India.
- (c) An invited seminar by Prof. Amber Habib (SNU Noida) on "Black-Scholes PDE in Finance" May 22, 2015.
- (d) Conference on Partial Differential Equations (CPDE-2014), December 10-11, 2014, LNMIIT Jaipur, India.
- (e) Advanced Workshop on Hyperbolic PDEs: Theory, Numerics & Applications (HPTNA 2014), December 01-09, 2014, LNMIIT Jaipur, India.
- (f) Workshop on GPU Computing August 09-10, 2014
- (g) An invited seminar by Prof. Graeme Fair-weather (Colorado School of Mines, USA) on "Alternating Direction Implicit Orthogonal Spline Collocation Methods for Time-Dependent Problems" March 26, 2014.
- (h) An invited seminar by Prof. Amiya K. Pani (IIT Bombay) on "Scientific Computing: A New Way of Looking at Mathematics" March 26, 2014
- (i) Workshop on Elliptic Equations: Variational Formulation and Numerics during December 09-21, 2013.
- (j) An invited seminar by Prof. J.K. Verma (IIT Bombay) on "A recent proof of the fundamental theorem of Algebra" April 17, 2012.
- (k) A series of seminars on Partial Differential Equations by Prof. V. Raghavendra (IIT Kanpur) and Prof. Vasudev Murthy (TIFR Bangalore), November 3-4, 2011.

**45. List the teaching methods adopted by the faculty for different programs.**

**M1** - Lecture interspersed with discussions

**M2** - Lecture followed by a quiz

**M3** - Tutorial

**M4** - Group Assignment

**M5** - Projects

**M6** - Promote Active Learning

**M7** - ICT tools/ Multimedia enabled lecture delivery

**M8** - Video Lectures (NPTEL, MIT, etc.)

**M9** - Term Paper/Report - Innovative Delivery

Methods/ Technologies

**M10** – Course/ Learning Management System

**46. How does the department ensure that program objectives are constantly met and learning outcomes are monitored?**

Through teaching methods mentioned above, students reaction surveys, discussions and inputs by various class committees and interaction with students within and outside the classroom as well.

**47. Highlight the participation of students and faculty in extension activities.**

- (1) Teaching the mess workers and their children by the student members of the Sankalp group. The program is known as Mess Workers Education Program (MWEP).
- (2) Visits to nearby villages with MO for health counseling and treatment.
- (3) Invited distinguished scholars of national and international level are called for lecture series.
- (4) Organize blood donation camp.

**48. Give details of “beyond syllabus scholarly activities” of the department.**

- (1) Invited talks by eminent persons from India and abroad. Conducted many workshops, summer and winter schools in the recent two years to the interested M.Sc./Ph.D. students, postdoctoral fellows, young researchers and faculty members across the country.
- (2) Setup High Performance Computing Server (powered by HP)
- (3) Setup CUDA enabled GPU NVIDIA server for high performance computing.

**49. State whether the program/ department is accredited/ graded by other agencies? If yes, give details:** Not Yet

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:**

- (a) Organizing seminars
- (b) Conducting Workshops/Conferences
- (c) Inviting external speakers
- (d) Publishing research papers in referred journals of repute
- (e) Working on research projects

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- (a) The major strength of the Department of Mathematics is the quality of the faculty. All faculty members are Ph.D. (all of them having obtained their Ph.D. from reputed institutions such as IITs/IISERs/IISc etc.)
- (b) Research profile of the department. A majority of the faculty have strong and established research expertise with strengths in the areas of cryptography, theoretical computer science, graph theory, applied analysis, mathematical modeling and simulation, numerical analysis, and differential equations. We have a very active and vibrant research group in Numerical Solution of Partial Differential Equations.
- (c) Quality of teaching is very good and continuously monitored by HOD/Director.
- (d) The variety of science/open elective courses offered by the Department.
- (e) Ability to raise funds through R&D projects and for organizing workshops, conferences, summer schools etc. Departmental seminars, external seminars, conferences, workshop organization adds more to the multidimensional and active character of the Department.

**Weaknesses:**

- (a) Lack of PG programs and PG courses
- (b) Lack of Ph.D. students

- (c) Lack of faculty strength in many areas like Algebra, Analysis, and Mathematical Biology etc.  
Insufficient support for undergraduate tutorials resulting in large section sizes.

**Opportunities:**

- (a) To introduce program(s) with emphasis in the area of scientific computing, information technology and finance.
- (b) To make best use of available computing resources (e.g. HPC, GPU, MATLAB servers etc.).
- (c) To improve the research atmosphere and enhance quality research publications.

**Challenges:**

- (a) To attract good quality Ph.D./M.Sc. students

**52. Future plans of the department.**

- (a) To strengthen/popularize the existing two year M. Sc. program in Mathematics for graduate students from Sciences or Engineering.
- (b) Collaboration with established research institutions particularly in the areas of our research interests within India and abroad.
- (c) To strengthen the Ph.D. program.
- (d) To give a booster to the research activities through the project mode.
- (e) To create a Center of Excellence in Numerical Mathematics and Scientific Computing (NMSC).
- (f) Organize workshops/conferences/seminars on a regular basis.
- (g) Set up a department library for use mainly by the Department faculty.

## G. Evaluative Report of the Physics Department

1. **Name of the Department** - Physics
2. **Year of establishment** – 2003
3. **Is the Department part of a School/Faculty of the university?** – Not Applicable
4. **Names of Programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt. etc.)** –  
(i) Ph.D.
5. **Interdisciplinary programmes and departments involved:** Nil
6. **Courses in collaboration with other universities, industries, foreign institutions, etc.:** Nil
7. **Details of programmes discontinued, if any, with reasons:**  
B.Tech program in Engineering Physics due to lack of students
8. **Examination System: Annual/ Semester/ Trimester/ Choice Based Credit System:**  
Semester and Choice Based Credit System
9. **Participation of the department in the courses offered by other departments:** Nil
10. **Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others)**

	<b>Sanctioned</b>	<b>Actual / Filled</b>
Professor	Flexible	2
Associate Professors	Flexible	2
Asst. Professors	Flexible	4
Lecturer	Flexible	0

11. **Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance**

<b>Name</b>	<b>Qualification</b>	<b>Designation</b>	<b>Specialization</b>	<b>No. of Years of Experience</b>	<b>No. of Ph.D. students guided for the last 4 years</b>
G. D. Sharma	Ph.D	Professor	Organic Electronics and Optoelectronics Devices	30	2 as guide and 3 as co-guide
Anupam Singh	Ph.D	Professor	High Energy Physics and Cosmology	19	1
Somnath Biswas	Ph.D	Associate Professor	Materials Science and Engineering	10	5 (In progress)
Subhayan Biswas	Ph.D	Associate Professor	Experimental Materials Science	12	2 (In progress)
Amit Neogi	Ph.D	Assistant Professor	Optics and Lasers, Biomedical Engineering	16	Nil
Anjishnu Sarkar	Ph.D	Assistant Professor	Cosmology and Particle Physics	6	Nil
Manish Kumar Singh	Ph.D	Assistant Professor	Experimental Materials Science	3	Nil
Pomita Ghosal	Ph.D	Assistant Professor	Particle Physics	6	Nil

- 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors – Nil**
- 13. Percentage of classes taken by temporary faculty–programme-wise information – Nil**
- 14. Programme-wise Student Teacher Ratio:** 1:1 for Ph.D. Program
- 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:** 1 (Actual) and 7 teaching assistants (Ph.D. students)
- 16. Research thrust areas as recognized by major funding agencies**  
 Material Science and Engineering, Cosmology, High Energy Physics, Organic Electronics, Organic Solar Cells and Dye Sensitized Solar Cells.
- 17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.**
  - Projects funded by external agencies:**
    - (i) **Title:** Detection of biomolecular interactions with TMR based sensing using magnetic nanotags  
**Funding Agency:** UGC-DAE  
**Budget:** 9.00 Lakhs  
**Duration:** 2014-17
    - (ii) **Title:** Development of solar cells utilizing quantum dot sensitized titanium oxide nanotube (Dr. Subhayan Biswas)  
**Funding Agency:** CSIR  
**Budget:** 11.00 Lakhs  
**Duration:** 2013-16
    - (iii) **Title:** Development of high hydrostatic pressure metal foams for hydrogen storage (Dr. Somnath Biswas)  
**Funding Agency:** DST  
**Budget:** 13.56 Lakhs  
**Duration:** 2013-16
    - (iv) **Title:** Half-metallic CrO<sub>2</sub> based spintronic devices in single-walled carbon nanotube field-effect transistor (SWCNT-FET) configuration (Dr. Somnath Biswas)  
**Funding Agency:** DIT,  
**Budget:** Provided by the funding agency as per requirement  
**Duration:** 2012-16
    - (v) **Title:** Non-equilibrium dynamics of quantum fields with applications to dark energy and inflation (Prof. Anupam Singh and Dr. Anjishnu Sarkar)  
**Funding Agency:** DST  
**Budget:** 12 Lakhs  
**Duration:** 2014-17
  - Research projects completed and grants received during the last four years (funded by National/International agencies).**
    - (i) **DST Fast Track Project for Young Scientists**  
**Project Title:** Information Processing with Chaotic Neural Networks  
**Principal Investigator:** Dr. Manish Dev Shrimali  
**Total Grant:** Rs. 10,87,200  
**Duration:** April 2009 – September 2012

**(ii) DST-DAAD Project Based Personnel Exchange Programme**

**Project Title:** Synchronization of neuronal networks depending on input signals

**Principal Investigator:** Dr. Manish Dev Shrimali

**Total Grant:** Rs. 4,41,000

**Duration:** July 2011 – June 2013

**(iii) DST nano Mission**

**Project Title:** "Computational nano-engineering of nanostructures"

**Principal Investigator:** Dr. Arti Kashyap

**Total Grant:** Rs. 14.10 Lacs

**Duration:** Sep 2009-Feb 2013

**18. Inter-institutional collaborative projects and associated grants received:**

**(a) National collaboration:** Nil

**(b) International collaboration:**

A research project entitled "Advanced computational studies of dynamic phenomena in magnetic nano -materials" submitted under "2008 India- European commission coordinated (joint) call for proposal in Computational Material Science" program was sanctioned in 2009. Collaborating institutes with in India are: The LNMIIT Jaipur, Indian Institute of Technology Delhi, Indian Institute of Technology Madras and Indian Institute of Science, Bangalore. The Collaborating partners from Europe are: University of Exeter in UK, University of Southampton, UK, University of Ferrara, Italy and AMU, Poland. The total cost of project (Indian part only) is about Rs. 2 Crores and LNMIIT share is Rs. 30 Lacs. The starting date of the project is June 1, 2009.

Prof. G. D. Sharma has Research collaboration with various international research organization such as Russia, Spain, South Korea, Greece and Taiwan and published many research papers in International journals of high impact factor.

**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. - Nil**

**20. Research facility / centre with –**

**(a) State recognition:** Nil

**(b) National recognition:** Nil

**(c) International recognition:** Nil

**21. Special research laboratories sponsored by / created by industry or corporate bodies:** Nil

**22. Publications:**

 **Number of papers published in peer reviewed journals (national / international)** - More than 100

 **Monographs:** Nil

 **Chapters in Books:** 3

 **Edited Books:** Nil

 **Books with ISBN with details of publishers:** Nil

 **Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):** Data not kept

 **Citation Index – range / average:** Range 10-3330

 **SNIP:** Data not kept

 **SJR:** Data not kept

 **Impact Factor – range / average:** 1.0 to 12

 **h-index:** 12

**23. Details of patents and income generated –**

**(1) S. Biswas** and B. Soni, "Process development for mass scale manufacturing of metallic foams with uniformly distributed interconnected open cell structures for industrial applications", Indian Patent (Application # 742/DEL/2015, priority date: March 18, 2015).

- (2) **A. Singh** and S. Biswas, "Optimal tapping of light energy by considering the coherence length limit and using rectifiers to prevent the diminishing of collected power due to spatial and temporal averaging", US and Indian Patents (Application # 3371/DEL/2014, priority date : November 20, 2014, US patent application number yet to receive).
  - (3) **S. Biswas and** M. Patange, "Nanoparticles having highly tunable physical properties and method of synthesizing the same", Indian Patent (Application # 2267/DEL/2014, priority date: August 8, 2014).
  - (4) **S. Biswas and** M. Patange, "A method of synthesizing graphitic carbon stabilized nickel nanoparticles having tailored properties", Indian Patent (Application # 3449/DEL/2015, priority date : Oct. 26, 2015).
  - (5) **S. Biswas and** M. Patange, "A facile synthesis route for  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> (Hematite) nanoparticles with controlled microstructure for pertinent applications", Indian Patent (Application number not yet received).
  - (6) **S. Biswas and** J. Jadhav, "Synthesis of shape-controlled pristine and diluted magnetic zinc oxide nanoparticles with tunable properties", Indian Patent (Application # 1275/DEL/2014, priority date: May 12, 2014).
  - (7) **S. Biswas and** J. Jadhav, "Method of synthesizing ZnO: Metal (Metal: Zn, Ag) core-shell nanoparticles", Indian Patent (Application # 3409/DEL/2015, priority date: Oct. 21, 2015).
  - (8) **S. Biswas and** J. Jadhav, "Method of synthesizing soft magnetic Ni-Zn ferrite nanoparticles having tailored properties", Indian Patent (Application # 3416/DEL/2015, priority date: Oct. 21, 2015).
- Income generated: Nil

**24. Areas of consultancy and income generated:** Nil

**25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad –**

- (a) Amit Neogi: Visiting faculty for one year in IIT Jodhpur to set up Physics undergraduate lab
- (b) Anupam Singh: Invited under TPSC program to PRL, Ahmedabad.
- (c) Somnath Biswas: Selected by DAE as a research group in the newly set up EXAFS facility at RRCAT, Indore.
- (d) Manish Kumar Singh: IASc-INSA-NASI summer research fellowship (SRF) 2013 awarded.
- (e) G. D. Sharma Visited University of Bath, UK under UKIRI Project in June 2013 (three weeks) and June 2014 (three weeks)
- (f) G. D. Sharma Visited University of Crete, Greece, for two weeks in July 2012 to deliver series of lectures and research collaboration,
- (g) G. D .Sharma Visited Foundation for Research and Technology, Patras, Greece, under the collaboration project on "Graphene and its Nanocomposites: Production, Properties and Applications" in March – April, 2013 (one month) and April-May2014 (on Month) as a co-investigator of the project.
- (h) G.D. Sharma Visited Russian Federation for Basic Science, Moscow in July 2014 (three weeks) and June 2015 (two weeks) under a bilateral project sanction by DST to him.
- (i) G. D. Sharma visited Korea University, Sejong City in Nov, 2013 for three weeks as a visiting professor

**26. Faculty serving in –**

- (a) National committees (b) International committees (c) Editorial Boards (d) any other (please specify):**

G. D. Sharma worked as expert in the Project advisory committee formed by Department of Science and Technology from 2011-2014

**27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).**

- (a) Participation in various Faculty Development Programs, Conferences, Workshops, Symposia, and training programs, etc.  
Prof. G. D. Sharma delivered many lectures in faculty development programmes (refresher courses) in different universities
- (b) Partial financial support for attending conferences, full financial support for attending Faculty Development Programs.
- (c) By arranging periodic national workshops.

**28. Student projects –**
**(a) Percentage of students who have done in-house projects including inter-departmental projects**

Around 1-3% per year (for B.Tech program)

**(b) Percentage of students doing projects in collaboration with other universities/ industry / institute: Nil**
**29. Awards / recognitions received at the national and international level by -**
**(a) Faculty:**

Dr. Somnath Biswas has been selected for Marquis Who's Who in the World, 32<sup>nd</sup> edition, 2015.

**(b) Doctoral / post-doctoral fellows: Nil**
**(c) Students: Nil**
**30. Seminars/ Conferences/Workshops organized and the source of funding (national/international) with details of outstanding participants, if any.**

- ❖ Workshop on Nonlinear Dynamics and Chaos, The LNMIIT, Jaipur, October 10, 2009.
- ❖ DST PAC meeting at The LNMIIT, Jaipur, May 8 & 9, 2009.
- ❖ One week workshop in July, 2009 on Matlab and Simulink. The participants paid money for the workshop.
- ❖ Joint organizer of the "Workshop on Nanomagnetism" held on Feb. 6, 2010 at The LNMIIT.
- ❖ Jointly organized the 1<sup>st</sup> NEI "Workshop on Design of CMOS Analog Circuits" on June 11-22, 2012 at DAIICT, Gandhinagar.

**31. Code of ethics for research followed by the departments –**

The department of Physics strives for the highest standards of excellence and morality in research activities. Faculties' have the right to academic freedom when conducting research. The department ensures the compliance of professional standards by the faculties through integrity, quality and accountability.

**32. Student profile programme-wise:**

Name of the Program (refer to question no. 4)	Applications received	Selected Students		Pass %	
		Male	Female	Male	Female
PhD	40 (current batch)	6	1	--	--

**33. Diversity of students –**

Name of the Program (refer to question no. 4)	% of students from the same University	% of students from other universities within the State	% of students from Universities outside the State	% of students from other Countries
PhD	0	0	100	0

**34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. – Nil**
**35. Student progression -**

Student progression	% against enrolled
UG to PG	
PG to M.Phil.	
PG to Ph.D.	
Ph.D. to Post-Doctoral	2 students (100%)
Employed	
▪ Campus selection	
▪ Other than campus recruitment	
Entrepreneurs	

**36. Diversity of staff -**
**Percentage of faculty who are graduates**

Of the same University	0%
From other universities within the State	0%
From universities of other States	85%
From universities outside the country	15%

**37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:** 01 Ph.D.

**38. Present details of departmental infrastructural facilities with regard to –**

- (a) **Library:** Shared with the rest of the institute
- (b) **Internet facilities for staff and students:** Shared with the rest of the institute
- (c) **Total number of class rooms:** The classrooms are a central facility and available to all the departments
- (d) **Class rooms with ICT facility:** 16, Shared with the rest of the institute
- (e) **Students' laboratories:** 01
- (f) **Research laboratories:** 03

**39. List of doctoral, post-doctoral students and Research Associates:** 8 (in progress), 2 (graduated)

**(a) From the host university:**

- **Full time:**  
Swati Bhardwaj, Tushar H. Rana, Jeevan Jadhav, Sumit Pokhriyal, Sudhanshu Dwivedi, Bhasker Soni, Patange Mahesh
- **Part time external** - Vishal Jhalani
- **Graduated** - Pooja Rani Sharma, Amit Sharma

**(b) From other universities:** Nil

**40. Number of post graduate students getting financial assistance from the university.**

Year	M. Tech.		M.S.		Ph.D.	
	Male	Female	Male	Female	Male	Female
Y11	0	0	0	0	4	1
Y12	0	0	0	0	0	0
Y13	0	0	0	0	0	0
Y14	0	0	0	0	0	0
Y15	0	0	0	0	0	0

**41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.** – No

**42. Does the department obtain feedback from –**

- (a) **Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** - Documents shared electronically and then departmental meetings are held to discuss and finalize action.
- (b) **Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** - Feedback sought at the institute level and distributed to faculty for action.
- (c) **Alumni and employers on the programs offered and how does the department utilize the feedback?** - Not Applicable

**43. List the distinguished alumni of the department (maximum 10):**

**There are two alumni who graduated in the years 2012 and 2013.**

- (i) Ms. Pooja Rani Sharma
- (ii) Mr. Amit Sharma

- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**
- Workshop on Nonlinear Dynamics and Chaos, The LNMIIT, Jaipur, October 10, 2009.
  - DST PAC meeting at The LNMIIT, Jaipur, May 8 & 9, 2009.
  - One week workshop in July, 2009 on Matlab and Simulink. The participants paid money for the workshop.
  - Workshop on Nanomagnetism held on Feb. 6, 2010 at The LNMIIT.
  - Jointly organized the 1<sup>st</sup> NEI "Workshop on Design of CMOS Analog Circuits" on June 11-22, 2012 at DAIICT, Gandhinagar.

**45. List the teaching methods adopted by the faculty for different programmes.**

<b>Method 1</b> - Lecture interspersed with discussions	<b>Method 7</b> - Laboratory
<b>Method 2</b> - Lecture followed by a quiz	<b>Method 8</b> - Promote Active Learning
<b>Method 3</b> - Tutorial	<b>Method 9</b> - ICT tools/ Multimedia enabled lecture delivery
<b>Method 4</b> - Group Discussion	<b>Method 10</b> - Video Lectures (NPTEL, MIT, etc.)
<b>Method 5</b> - Group Assignment	<b>Method 11</b> - Term Paper/Report - Innovative Delivery Methods/ Technologies
<b>Method 6</b> - Group Project	<b>Method 12</b> – Course/ Learning Management System

**46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

Continuous evaluation involving quizzes, open discussions, individual and group project assignments, oral presentations, mid-term and end-term examination are performed. Feedback received by T&P from recruiting companies is placed in various forums for analysis and subsequent adaptation. Feedback received from the students/ alumni, is placed in the departmental meetings for necessary action.

**47. Highlight the participation of students and faculty in extension activities.**

- Teaching the mess workers and their children by the student members of the Sankalp group. The program is known as Mess Workers Education Program (MWEP).
- Visits to nearby villages with Medical Officer for health counseling and treatment.
- Distinguished scholars of national and international levels are invited for lecture series.
- Organize blood donation camp.

**48. Give details of "beyond syllabus scholarly activities" of the department.**

Dr. Anupam Singh is the mentor for the Astronomy Club which has active participation and interest from the students and is a student led club which is an official part of the students Gymkhana. Telescope nights are regularly held where students are guided to use telescopes to study various objects in the night-time sky. Dr. Somnath Biswas mentored The LNMIIT VLSI Society.

**49. State whether the programme/ department is accredited/ graded by other agencies? if yes, give details.**

Not yet

**50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.**

Progress is being made in the areas of material science, high energy physics and cosmology.

**51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

**Strengths:**

- High quality faculty members with PhD's from reputed institutions of India and abroad.
- All of them having strong post-doctoral experiences from reputed institutions in India and abroad.
- Well planned syllabi of the courses with regular review and revision.
- Good student faculty interactions.
- A good number of science and open electives are offered so that students can take any subject of their interest.
- The department has the largest number of PhD students in the institute.

- (vii) Faculty members are guiding masters' students of other universities including University of Rajasthan.
- (viii) Recently a research lab is setup for PhD students.
- (ix) The research scholars (PhD) take part in lab & grading the UG students. They are imparted good training as future faculty members.

**Weakness:**

- (i) Need to strengthen master's level program to attract more students.
- (ii) More guest lectures are to be organized.
- (iii) Additional lab facility is necessary for M Sc program.
- (iv) More collaborative work (both interdepartmental and intradepartmental) is necessary.

**Opportunities:**

- (i) Extending the use of existing sophisticated labs to other institutes.
- (ii) Possibilities for interdisciplinary research.

**Challenges:**

- (i) How to attract top quality students into our PhD program?
- (ii) How to motivate students to take physics as career option?
- (iii) How to get more external funds for building labs?

**52. Future plans of the department.**

- (i) To build sophisticated labs for advanced studies.
- (ii) Recruitment of more faculty members.
- (iii) Masters programs (MSc in Physics, M.Tech in Materials Science and Engineering).
- (iv) Increase collaborative research with other institutes of excellence.
- (v) To build Centre of Excellence in Materials Science and Computational Physics.

### Declaration by the Head of the Institution



The LNM Institute of  
Information Technology

**Dr. S.S. Gokhale**  
Director

**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY, JAIPUR**  
**(DEEMED UNIVERSITY)**

**Gram : Rupa-Ki-Nangal, Post-Sumel, Via-Jamdoli, Jaipur - 302 031**  
**Rajasthan, INDIA**

DIRECTOR: +91-141-5189213 (O)  
+91-141-5191801 (R)  
FAX: +91-141-2689016

WEB : [www.lnmiit.ac.in](http://www.lnmiit.ac.in)  
E-mail: [director@lnmiit.ac.in](mailto:director@lnmiit.ac.in)  
[ssg1@lnmiit.ac.in](mailto:ssg1@lnmiit.ac.in)

### Statement of Compliance

(Deemed Universities)

This is to certify that The LNM Institute of Information Technology University has complied with all provisions of the following University Grants Commission (UGC) Regulations governing it:

- ❖ Minimum Qualifications for Appointment of Teachers and other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education 2010 and further amendments, if any, notified by the UGC.
- ❖ Minimum Standards and Procedure for the Award of M. Phil/Ph. D. Degree, Regulations 2009 and further amendments, if any, notified by the UGC.
- ❖ UGC (Institutions Deemed-to-be-Universities) Regulations 2010 and further amendments, if any, notified by the UGC.
- ❖ Specification of Degrees, March 2014 and further amendments, if any, notified by the UGC.
- ❖ UGC-DEC approval for distance education programme.
- ❖ Approval by the UGC and MHRD for main campus, off-campus and off-shore – as applicable.

Any false or misleading information provided by the institution, will be reviewed seriously by NAAC and the accreditation given is liable to the withdrawn.

Date: Feb. 25, 2016.

  
Dr. S.S. Gokhale



## Annexure-I: Certificate of Recognition by UGC

(TO BE PUBLISHED IN THE GAZETTE OF INDIA PART-I SECTION-1)

No. F. 9-10/2004 -U.3

Government of India

Ministry of Human Resource Development  
Department of Secondary & Higher Education

\*\*\*

Shastri Bhawan, New Delhi,  
3<sup>rd</sup> February 2006

### NOTIFICATION

In exercise of the powers conferred by Section 3 of the University Grants Commission Act, 1956, the Central Government, on the advice of the University Grants Commission, hereby declare the LNM Institute of Information Technology, Jaipur as Deemed to be University for the purpose of the aforesaid Act under De Novo category with immediate effect subject to a review after three years. Government of India or the University Grants Commission will not provide any Plan or Non Plan grants to the Institute.

( Sunil Kumar )

Joint Secretary to the Government of India

The Manager,  
Government of India Press,  
Faridabad (Haryana).

Copy forwarded for information to:-

1. The Secretary, University Grants Commission, New Delhi.
2. The Member Secretary, AICTE, New Delhi.
3. Director, Distance Education Council, Indira Gandhi National Open University, Maidan Garhi, New Delhi.
4. Director, LNM Institute of Information Technology, Engineering Staff Training Institute Campus, Behind OTS, Jhalana Institutional Area, Jaipur-302015 (Rajasthan).

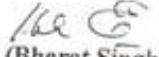
The conferment of 'Deemed to be University' status is subject to the following conditions regarding amendments in the Memorandum of Association / Rules of the Institute to be complied within a period of three months from the date of this notification:-

- a) Clause 3 (a) of the Memorandum of Association (MOA) shall be modified to ensure that distance education programme shall not be offered without the approval of relevant concerned statutory authorities.

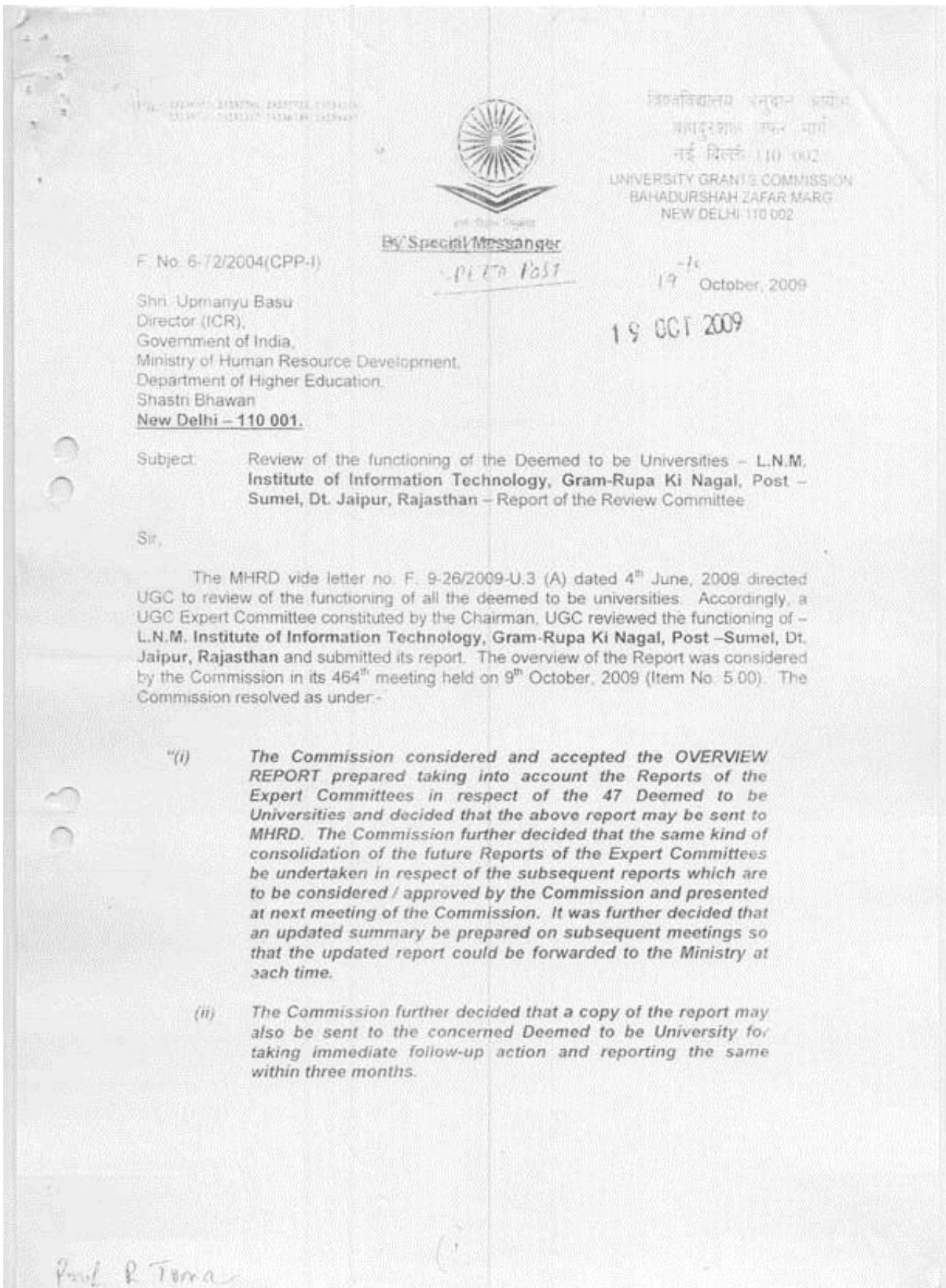
Continued... 2/-

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- b) In the Rules and Regulations of the Institute, the Chairman of the Governing Council, the Director of the Institute and the Registrar of the Institute shall be shown as the officers of the Institute under appropriate rule, and not as authorities of the Institute.
  - c) Rule 4 (b), which elicits the composition of the Governing Council shall be amended appropriately to accommodate the representatives of Government of India and the University Grants Commission on the Governing Council.
5. Education Secretary, Govt. of Rajasthan, Government Secretariat, Jaipur – 302 005.
  6. All Ministries/Departments of the Government of India.
  7. All State Governments and Union Territories.
  8. Registrars of all Universities & Deemed Universities.
  9. Press Information Bureau, Shastri Bhawan, New Delhi.
  10. The Secretary-General, Association of Indian Universities, AIU House, 16 Kotla Marg, New Delhi 110002.
  11. Guard file /Notification file/ NIC.

  
(Bharat Singh)  
Under Secretary to the Government of India

**Annexure-II: UGC 2009 Report**



- (iii) *The Deemed to be Universities which have not applied / undergone NAAC assessment be asked to apply immediately not later than three months and send a compliance report to the UGC and MHRD. The NAAC may also be requested to undertake Peer Team visit for accreditation for such Institutions on priority.*
- (iv) *The cases of De-novo for continuation would be considered subsequently."*

The individual report of – L.N.M. Institute of Information Technology, Gram-Rupa Ki Nagal, Post –Sumel, Dt. Jaipur, Rajasthan was separately considered by the Commission under item no. 5.35. The Commission resolved as under:-

*"In the light of the decision taken at Item No. 5.00, the Commission recommended that the Review Committee Report in respect of – L.N.M. Institute of Information Technology, Gram-Rupa Ki Nagal, Post –Sumel, Dt. Jaipur, Rajasthan may be sent to the Ministry of HRD for further action at their end."*

A copy of the Agenda item, extract of overview report in respect of – L.N.M. Institute of Information Technology, Gram-Rupa Ki Nagal, Post –Sumel, Dt. Jaipur, Rajasthan and copy of report of the Expert Committee is enclosed herewith, for your information and necessary action in the matter.

Yours faithfully,

(K.P. Singh)  
Joint Secretary

Encl: As above

Copy to :-

1. Section Officer (Meeting), UGC with reference to action taken on UGC Resolution Item No. 5.23 dated 9<sup>th</sup> October, 2009.
2. The Vice-Chancellor, – L.N.M. Institute of Information Technology, Gram-Rupa Ki Nagal, Post –Sumel, Dt. Jaipur, Rajasthan with the request to send compliance report in respect of the observations / deficiencies / suggestions made by the Expert Committee. (Copy of the Report of the Expert Committee enclosed)

(K.P. Singh)  
Joint Secretary

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APPENDIX TO ITEM NO. 5.35



UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI-110 002

REPORT OF THE UGC REVIEW COMMITTEE TO REVIEW THE DEEMED  
TO BE UNIVERSITY STATUS OF LNM INSTITUTE OF INFORMATION AND  
TECHNOLOGY, GRAM RUPA KI NAGAL, POST SUMEL, VIA KANOTA,  
DIST. JAIPUR – 303 012 (RAJASTHAN).

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#### INTRODUCTION

The University Grants Commission on the direction from the Ministry of Human Resource Development, Government of India constituted a Review Committee to review the functioning of LNM Institute of Information and Technology, Gram Rupa Ki Nagal, Post Sumel, Via Kanota, Dist. Jaipur – 303 012 (Rajasthan). The Review Committee visited the Institute on 24<sup>th</sup> – 26<sup>th</sup> September, 2009. The Review Committee, in addition to looking into the academic and physical infrastructure of the University and other related aspects like admission policy, fee structure, etc., specifically look into the maintenance of standards with regard to availability of qualified faculty and status of accreditation of Deemed to be University by NAAC/NBA.

#### BACKGROUND OF THE INSTITUTION

The LNM IITJaipur was established as a public-private joint venture of the Government of Rajasthan and the Lakshmi and Usha Mittal Foundation in the years 2003. The *Governing Council (GC)* of the Institute was soon formed with representatives of the Government of Rajasthan, nominees of the Mittal Foundation, and some well known academicians, with Mr Lakshmi Niwas Mittal as its Chairman.

The Institute started with just one B Tech program in 2003. Two more B Tech programs were started in the year 2008. Currently, the students are enrolled in one of the following three B Tech programs: (a) Communications and Computer Engineering; (b) Electronics and Communication Engineering; and, (c) Computer Science and Engineering. The students of the 2008 and 2009 batches will have the following options: (i) switch over to any other B Tech program; (ii) work a bit harder and obtain B Tech (Hons) in any one of the three programs; (iii) put in one more year and obtain M Tech Integrated degree in any one of the three programs. The Institute also has the following post-graduate programs: (a) M S (by research); (b) M Tech; and, (c) Ph D. Thus, as of now, the Institute has 12 different programs. It may be noted that the Institute believes in admitting students to the Institute, rather than to a

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particular program. This gives freedom to the students to choose the program that they wish to pursue.

In these six years, several initiatives have been taken at LNMIIT to develop a sound base on which meaningful and good education can be imparted to students. The primary initiatives have been:

- (i) ensuring a transparent process of admission (based on either the Central Admission Process of CBSE or extended JEE rank);
- (ii) attracting young faculty members from good intuitions to join a group of retired faculty members from IITs who joined this institute at the formative stage. This mix of young and experienced faculty is a unique feature of this institute;
- (iii) creating a congenial atmosphere for both the academic and extra-curricular activities on a residential campus.

Prof. Dheeraj Sanghi, Director of the LMNIIT along with other functionaries of the Institute and faculty members received the Committee Members. A power point presentation was made by Prof. Sanghi. Prof. Sanghi and other faculty members answered various queries raised to the satisfaction of the Members of the Review Committee after a brief introductory remark by Prof. Om Prakash Mishra and Shri A.K. Dogra. Prof. Mishra then requested the members to visit the Institute to examine the infrastructure and other facilities available and give their observations / suggestions.

Prior to the actual assessment of the Institute, Prof. Mishra, Chairman of the Committee and Sh. A.K. Dogra, JS & FA, UGC, Member Secretary briefed the members of the Review Committee in a separate meeting about the purpose of the visit of the Review Committee.

Members of the Committee visited the common facilities like Administrative Building, Library, Computer Labs, Auditorium, Play Ground, Hostels, Seminar Hall, Auditorium, Canteen, Cafeteria etc.

Members visited all the laboratories in various departments and observed that the laboratories are well equipped with the required equipments as per the curriculum and all of them are in the working conditions. The committee interacted with the teaching, non-teaching staff and students separately.

The inspection report of the Review Committee, based on the visits to all laboratory, departments, library, hostels and other infrastructures, the presentation made by the Institute, interaction with the faculty members, non-teaching staff and students and based on the information / documents provided by the Institute, is as under:

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COMPOSITION OF THE REVIEW COMMITTEE

1. Prof. Om Prakash Mishra Chairman  
Pro Vice-Chancellor  
Indira Gandhi National Open University  
Maidan Garhi, New Delhi – 110 067  
M-9818805354  
e-mail: [opmishra@ignou.ac.in](mailto:opmishra@ignou.ac.in) [professor.mishra@gmail.com](mailto:professor.mishra@gmail.com)
2. Prof. Raj Senani Member  
Department of Electronics & Com. Engg.,  
Netaji Subhas Institute of Technology  
Azad Hind Fauz Marg, Sector-3, Dwarka,  
New Delhi – 110 075  
M-9899168678 e-mail: [senani@nsit.ac.in](mailto:senani@nsit.ac.in)
3. Dr. H. Devraj, Member  
Prof. & Head, Department of Bio-Tech.,  
Guindy Campus, University of Madras  
Chennai – 600 025  
M-09884084325 e-mail: [hdrajum@yahoo.com](mailto:hdrajum@yahoo.com)
4. Prof. P. Thrimurthy Member  
Former Prof. & HOD Computer Science,  
Acharya Nagarjuna Univ. Guntur  
R/o 20, Aamani Appts.,  
Kanchu Kota Street, Ramchandra Nagar,  
Vijayawada – 520 008 (A.P.)  
M-09440942418 e-mail: [profpt@rediffmail.com](mailto:profpt@rediffmail.com)
5. Prof. Ravindra Gudi AICTE Nominee  
Indian Institute of Technology, Bombay  
Powai, Mumbai – 400076  
M-09448051317 e-mail: [ravigudi@iitb.ac.in](mailto:ravigudi@iitb.ac.in)
6. Mr. A.K. Dogra Member Secretary  
JS & FA  
University Grants Commission  
New Delhi – 110 002  
Ph.011-23232055  
e-mail: [akdogra@ugc.ac.in](mailto:akdogra@ugc.ac.in)

*OP* **INSPECTION REPORT**

1.	Name and address of the Deemed University	The LNM Institute Of Information Technology, Rupa Ki Nangal, Post Sumel, Via Jamdoli, Jaipur, Rajasthan-302 031
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University Grants Commission

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2.	Headquarters of the Deemed University (With full address, Phone Nos., e-mail etc.)	The LNM Institute Of Information Technology, Rupa Ki Nangal, Post Sumel, Via Jamdoli, Jaipur, Rajasthan, 302 031 Phone 0141-268-9011, Fax 0141-268-9014, E-mail <a href="mailto:info.lnmiit@lnmiit.ac.in">info.lnmiit@lnmiit.ac.in</a>
3.	<p>Name of the Society/Trust promoting the Deemed University</p> <ul style="list-style-type: none"> <li>- Whether Deemed University itself is registered as a Society/Trust (Please attach a copy of the Society Registration Certificate / Trust Deed)</li> <li>- Whether all the moveable and immoveable assets are registered in the name of the deemed to be university (Please attach registered documents)</li> <li>- Whether MOA/ Rules approved and as per UGC norms (Please attach a copy of the MoA/ Rules)</li> <li>- Whether Corpus fund maintained as per UGC norms (Please attach copy of FDR as corpus fund)</li> </ul>	<p>Lakshmi and Usha Mittal Foundation</p> <p>Yes, the Institute has been registered as a trust namely LNM IIT vide Registration No.704/2002-03 dated 14.09.2002. (Annexure-1)</p> <p>Yes. The Institute has 100 acres of land to its possession which is in the name of the trust i.e.Lakshmi and Usha Mittal Foundation. The details are annexed as Annexure-2.</p> <p>Yes, the MOA / Rules as per UGC model was incorporated on 14.09.2002. A copy of the MOA/ Rules is annexed as Annexure – 3.</p> <p>Yes, a corpus fund of Rs.5.00 crores has been created by the Institute. A summary of the Corpus funds along with FDRs in the name of the Institute is annexed as Annexure – 4.</p>
4.	No. and date of Notification as Deemed to be University	MHRD Notification No.F.9-10/2004-U.3 Dated 3 <sup>rd</sup> February, 2006 Annexure - 5
5.	Objectives of the Deemed University as laid down in MOA	a. to organize and provide knowledge and education including distance education in one or more aspects of Information

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Technology and related subjects including on such thrust areas as may be thought fit by the Institute:

- b. to award degrees, diplomas, certificates and other academic or professional distinctions to candidates, and to prescribe standards of proficiency for and conformity thereto before the award of such degrees, diplomas, certificates and other distinctions;
- c. to undertake on its own and/or in collaboration with other educational and research institutions, research for promotion and development of Information Technology and related subjects and delineation of standards thereon;
- d. to become a Centre of Excellence in one or more aspects of Information Technology and related subjects including on such thrust areas as may be thought fit by the Institute;
- e. to organize, hold and conduct short term programs, continuing education programs, distance education programs, professional development programs, refresher courses, meetings, group discussions, lectures, speeches, workshops, research projects, seminars, conferences, study programs for the purpose of exchange and dissemination of information and knowledge in the areas of information technology and allied fields;
- f. to design and develop instructional resource curricula, teaching aids, teaching materials, evaluation system, educational technologies and learning resource centers;
- g. to collect, analyze, collate, tabulate and circulate data, statistics, information etc. relating to or connected with any discipline of Information Technology and allied fields;
- h. to carry out research and development activities in the use of Information Technology and related subjects for development of Rajasthan;
- i. to offer consultancy and guidance to the State of Rajasthan, in particular and in general to others in Information Technology and related subjects;
- j. to become the primary institution which would set the standards for the education in Information Technology and related subjects for the educational institutions.

6.	Thrust Areas of the Deemed University	With the increasing convergence of technology in the area of computers, communication and media technologies, the institute has put thrust in the development of interdisciplinary
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	curriculum and research in area of computer science and engineering, communication and electronics.
7.	<p><b>Mission and Vision of the Deemed University</b></p> <p><b>Mission</b></p> <ul style="list-style-type: none"> <li>• To become a globally recognized Institute of Excellence in the field.</li> <li>• To produce engineers of highest caliber who will become trendsetters in the profession.</li> <li>• To develop synergy with other institutions.</li> <li>• To exploit IT for societal development through application programmes.</li> <li>• To become a resource center for multimedia content generation and distribution.</li> <li>• To offer quality graduate programmes.</li> <li>• To engage in application-oriented research and development activities.</li> </ul> <p><b>Vision</b></p> <p>To establish a World class platform for creation, dissemination, and application of knowledge in the field of Information Technology through research, pedagogy, and consultation, as well as to become an effective catalyst for technological and societal development of the country through interactions with industries and academia.</p>
8.	<p>Whether the status of Deemed University was under de-novo category? If yes, courses run in the emerging areas at present and at the time of declaration as deemed to be university.</p> <p>Yes, under De-novo category. At the time of declaration of deemed university to Institute offered B.Tech. (CCE) course with an intake capacity of 120 students.</p> <p>After conferment of deemed to be university status in the year 2003, the Institute offered following courses:-</p> <ul style="list-style-type: none"> <li>• BTech (CSE and ECE),</li> <li>• BTech (Hons) (CSE, CCE and ECE).</li> </ul>

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	<ul style="list-style-type: none"> <li>• BTech – Mtech in CSE, CCE and ECE</li> <li>• MS by Research in CCE</li> <li>• MTech in CCE</li> <li>• PhD</li> </ul>	
9.	Whether accredited by NAAC and NBA, if yes, rating (pl. attach copies) If not, steps taken by the deemed university for accreditation	The Institute has applied for NAAC accreditation vide letter of intent dated 9 <sup>th</sup> September, 2009 (Annexure – 6)
10.	Whether the Deemed University is conforming to the relevant regulations / norms of the UGC and other statutory bodies concerned regarding minimum standard of instructions. Please provide details	<p>Yes</p> <ul style="list-style-type: none"> <li>➢ The councils like Governing Council, Academic Council and Finance Committee are in place as stipulated under the UGC norms.</li> <li>➢ The teacher-student ratio is maintained as per UGC norms.</li> <li>➢ The administrative and technical staff are also placed.</li> </ul>
11.	Whether the Deemed University is conforming to the relevant regulations / norms of the UGC and other statutory bodies concerned regarding qualification of teachers	Yes
12.	Whether the Deemed University is conducting merit based admission of student on an all India level test. If yes, provide details of the entrance test	Yes, B. Tech. admission based on CCB counseling (AIEEE AIR based) and JEE rank; M. Tech. admission based on academic record GATE score and interview; Ph.D. admission based on academic record and interview.
13.	Fee Structure and its basis	<p>For all students (per semester).</p> <ul style="list-style-type: none"> <li>■ Registration Fee: Rs. 3,000</li> <li>■ Hostel: Rs. 10,000</li> <li>■ Mess establishment: Rs. 1,000</li> <li>■ Tuition (per semester)</li> </ul>

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- Ph.D and MS: NIL
- MTech: Rs. 21,000
- BTech (Y7 and earlier): Rs. 36,000
- BTech (Y8): Rs. 48,000
- BTech (Y9): Rs. 51,000
- One Time Charges (only from BTech):
- Admission fee (1st semester): Rs. 3,000
- Alumni fee (8th semester): Rs. 1,000

The fee structure has been devised in a manner that recurring expenditure of the Institute are met by the fees collections.

14.	Examination pattern	Typically, Two one-hour Mid Term Exams and a Final three-hour Exam (Instructor has freedom to make reasonable changes, particularly in case of advanced courses)
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Year	B. Tech		M. Tech		MS (by research)		Ph.D.	
	Intake	Enrl	Intake	Enrl	Intake	Enrl	Intake	Enrl
2007-08	180	99	10	3	10	3	10	2
2008-09	240	144	10	2	10	4	10	7
2009-10	240	186	-	-	10	6	10	10

16.	No. of full time faculty with qualifications and Pay Scale for the last 5 years or since confement of deemed university status	<table border="1"> <thead> <tr> <th>Year</th><th>Faculty strength</th></tr> </thead> <tbody> <tr> <td>2009</td><td>32</td></tr> <tr> <td>2008</td><td>20</td></tr> <tr> <td>2007</td><td>15</td></tr> </tbody> </table> <p>The details of full time faculty with their qualifications and pay scale are given in Annexure – 7.</p>	Year	Faculty strength	2009	32	2008	20	2007	15
Year	Faculty strength									
2009	32									
2008	20									
2007	15									

17.	Whether qualified faculty is available as per the norms of UGC and relevant Statutory Council(s)	At present there are 32 faculty members, out of which 26 are Ph.D holder.
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University Grants Commission

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18.	<p>Student faculty ratio (Course-wise) for the last five years or since the conferment of Deemed University status.</p>	<p>Since LMNIIT is a small Institute and does not have bifurcation of faculty. However, the overall student faculty ratio since conferment of deemed to be university status is hereunder:-</p> <table style="margin-left: 20px;"> <tr><td>2006</td><td>18:1</td></tr> <tr><td>2007</td><td>17:1</td></tr> <tr><td>2008</td><td>16:1</td></tr> <tr><td>2009</td><td>14:1</td></tr> </table>	2006	18:1	2007	17:1	2008	16:1	2009	14:1
2006	18:1									
2007	17:1									
2008	16:1									
2009	14:1									
19.	<p>Details of the staff for the last 5 years or from the conferment of deemed university status (course-wise) (Technical, Administrative etc.)</p>	<p>There are 13 Technical and Administrative staff placed in the Institute. The details are given in Annexure - 8.</p>								
20.	<p>Details of courses run on regular basis</p> <p>(a) Courses offered at the time of conferment of Deemed to be University status</p> <ul style="list-style-type: none"> <li>- Name of course (newly introduced or where intake is increased)</li> <li>- Intake / Increase in intake</li> <li>- Date of introduction / date of increase in intake</li> <li>- Corresponding additions in infrastructure (only additional facility created shall be indicated) – Building (covered area), Equipment (worth in Rs.), Books &amp; Journals (worth in Rs.), Faculty (Professor, Reader,</li> </ul>	<p>The details of courses run by the Institute is being annexed as Annexure - 9.</p>								

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	<p>Lecturer)</p> <ul style="list-style-type: none"> <li>- Whether approval of statutory council taken (if yes, give approval no. &amp; date with enclosure)</li> <li>- Whether approval of UGC taken</li> <li>- Whether accredited by NAAC / NBA</li> </ul> <p>(b) Courses introduced after declaration as Deemed to be University and courses where intake has been increased in the following format-</p> <ul style="list-style-type: none"> <li>- Name of the Course(s) introduced or intake increased</li> <li>- Intake / increased intake</li> <li>- Date of Introduction / date of increase in intake</li> <li>- Corresponding additions in infrastructure - Building, Equipment, Books &amp; Journals, Labs, Faculty etc. (Please indicate additional facilities created only)</li> <li>- Whether approval of Statutory Council taken (if yes, give approval letter No. and date)</li> </ul>	<p>Not applicable</p> <p>The Institute has applied for NAAC accreditation vide letter of intent dated 9<sup>th</sup> September, 2009 (Annexure – 6)</p> <p>The information has already been given in Annexure – 9 above.</p>
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University Grants Commission

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	<ul style="list-style-type: none"> <li>- Whether approval of UGC taken</li> <li>- Whether accredited by NBA/ NAAC</li> </ul>													
21.	Whether infrastructure is available as per the norms and standards of the relevant Statutory Council	<p>The buildings which have already been constructed are given below:-</p> <table> <tbody> <tr> <td>Academic Area</td> <td>5834 sq. mtr.</td> </tr> <tr> <td>Library</td> <td>1250 sq. mtr.</td> </tr> <tr> <td>Hostel (3)</td> <td>18000 sq. mtr.</td> </tr> <tr> <td>Dining Hall</td> <td>1200 sq. mtr.</td> </tr> <tr> <td>Sports complex/ students activities centre</td> <td>5200 sq. mtr.</td> </tr> <tr> <td>Residential area</td> <td>3052 sq. mtr.</td> </tr> </tbody> </table> <p>However, the details of infrastructure are given in Annexure-10</p>	Academic Area	5834 sq. mtr.	Library	1250 sq. mtr.	Hostel (3)	18000 sq. mtr.	Dining Hall	1200 sq. mtr.	Sports complex/ students activities centre	5200 sq. mtr.	Residential area	3052 sq. mtr.
Academic Area	5834 sq. mtr.													
Library	1250 sq. mtr.													
Hostel (3)	18000 sq. mtr.													
Dining Hall	1200 sq. mtr.													
Sports complex/ students activities centre	5200 sq. mtr.													
Residential area	3052 sq. mtr.													
22.	Whether courses are run under distance mode also. If yes, whether the courses run under distance mode are approved by the Joint Committee of UGC-AICTE-DEC	None												
23.	Name and place of off-campus/off-shore campus/ study centre, if any. If yes, whether permission obtained from UGC / MHRD/ Statutory Council(s) ( Attach copy)	There is no off-campus or off-shore campus except the main campus at LNMIIT, Rupa Ki Nangal, Post Sumel, Via Jamdoli, Jaipur, Rajasthan.												
24.	Library (details of Books, Journals, Magazines, CDs etc.)	<p>The Institute at present has an air-conditioned library and is provided with computers linked to the Institute's intranet and internet. The library is well equipped with books of well known authors and standard publications. Presently, the Library has more than 7993 books, 974 print journals and e-journals.</p>												

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25. Research Projects approved and completed during the last 5 years (year, no. of projects, amount sanctioned, amount received, funding agency etc.)

Year	No. of Projects	Amount Sanctioned In Rs.	Amount Received In Rs.	Funding Agency
2007-2008	1	N. A.	1,41,567.00	CSIR
2007-2008	1	N. A.	17,695.00	DST
2007-2008	1	N. A.	2,06,623.00	CSIR
2008-2009	1	N. A.	2,91,500.00	CSIR
2008-2009	1	10,87,200.00	5,60,000.00	DST
2008-2009	1	N. A.	3,44,416.00	IFS
2008-2009	1	N. A.	3,53,920.00	DST
2009-2010	1	30,53,200.00	11,94,400.00	DST

26. Publications in Conferences, Journals and Books by the faculty during the last five years or since the conferment of Deemed University status (year, conferences, journals, books)

Year	Publication in Conferences	Publication in Journals	Publication of Books
2006	67	13	-
2007	24	14	-
2008	31	19	-
2009	12	22	-

Annexure – 11.

27. Financial position of the Deemed Univ. (income – expenditure since the conferment of Deemed University status)

Year	Total Income (Rs. in lakhs)	Expenditure (Rs. in lakhs)	Balance
2006-07	360.73	736.53	(-) 375.80
2007-08	439.02	784.44	(-) 345.82
2008-09	563.97	832.17	(-) 268.20

The Income & Expenditure Account for the year ended 31.03.2009, 31.03.2008 & 31.03.2007 along with balance sheets are annexed as Annexure – 12.

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- 28 Seminars/Workshops/Conferences/Training programmes conducted during last five years or since the conferment of Deemed University status

Year	Seminar	Workshop	Conference	Training Prog.
2006	-	-	1	-
2007	1	-	-	-
2008	-	-	1	-

Annexure – 13

29. Conferences attended by the faculty during the last five years or since the conferment of Deemed University status

Year	Conferences attended
2006	11
2007	8
2008	7
2009	5

**Details in Annexure – 14.**

30. Guest lectures conducted during the last five years or since the conferment of Deemed University status

Year	Guest Lectures
2006	—
2007	—
2008	21
2009	17

#### **Details in Annexure - 15**

31. Industry / Institution interface (outreach to other Institutions/ Industry)

1. The Institute has an arrangement with ArcelorMittal, Kazakhstan (since 2004) for free summer internship to 25 students in their steel plant.
  2. The Institute has signed MOUs with the following Universities in Europe (for academic collaboration): Aalborg University, Denmark (2007) University of Reggio Calabria, Italy (2008) University of Pisa, Italy (2008)
  3. The Institute has signed an MOU with Microsoft (2008) for supporting student projects using Microsoft technologies.

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4. The Institute has signed an MOU with Ericsson (2009) for free training to 25 students in our own premises.
5. Prof. Sanghi, the Director, is regularly advising BSNL on upgrading their network to support IP version 6.
6. Prof. Sanghi, the Director, is also advising "Cervello", a start-up venture in the area of mobile applications.
7. Prof. Sanghi, Prof. Tomar and Dr. Kashyap are on the Board of Directors of NeutrinoIT Technologies, a new startup in the area of software development.
8. Prof. Tomar is building successful research collaboration with Dr. Prakash Bhartia of NATEL Engineering Co., Inc (California, USA).
9. The Institute also participates in SUN ambassador program.
10. Many of the Faculty Members are jointly-supervising B.Tech. Projects with Malviya National Institute of Technology (MNIT).
11. The Institute has hosted PG students from Banasthali University and Mody Institute of Technology and Science (MITS) for their one-year M.Tech. Projects.
12. The Institute has collaborated with Santokba Durlabhji Memorial Hospital in their Outreach Programme by which students provide the necessary ground support for conducting free health check up for residents of the villages near the Institute.

32. Result during the last five years

Year	No. of students appeared	No. of students passed	No. of students secured first class
2007	29	29	29
2008	87	86	86
2009	113	112	112

33. Placement details of the students for the last five years or since the conferment of Deemed University status

Year	No. of students passed out	No. of students placed	No. of students secured first class
2007	29	21	29
2008	86	71	86
2009	113	112	112

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All eligible students who passed out in the year 2007 and 2008, except those who opted for higher studies in India/abroad, were placed.

Companies which visited campus for placement include Tejas Networks, TCS, Infosys, Wipro, DE Shaw, Sapient, CSC and Patni Computers.

Companies which hired LNMIIT students (off-campus) include Magma, McAfee, Adobe, Capgemini, Aricent, L&T Infotech, 3i Infotech, Huawei, Sony, and Google.

Educational Institutes/Universities where LNMIIT students have gone for higher studies include Singapore University, University of Ohio (USA), Stony Brook, NY (USA), University of Texas, Arlington (USA), University of Illinois, Chicago (USA), University of Santa Barbara, California (USA), ICFAI University

34. Recent achievements

1. Successful recruitment of a large number of top-notch faculty members (both regular and visiting) from reputed Institutions in India and abroad, and also from Industry;
2. Joining the Central Counseling Board (CCB) for AIEEE-based admissions to B. Tech. programs;
3. Excellent placement record (comparable to that of the best Institutes);
4. Continually-expanding Summer Internship Program with Indian and foreign partners;
5. Introduction of two additional branches;
6. Ranked 33<sup>rd</sup> in TIMES-MODE survey

35. Facilities for faculty and staff

1. On Campus Housing
2. Medical facilities
3. Free School Transportation to campus kids going to school
4. Shopping Plaza
5. SBI ATM Machine
6. Free Institute Bus Service to and from city to campus

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36.	Facilities for students	<ol style="list-style-type: none"> <li>1. On Campus Compulsory Hostel</li> <li>2. Medical facilities</li> <li>3. Shopping Plaza</li> <li>4. SBI ATM Machine</li> <li>5. Free Institute Bus Service to and from city to campus</li> <li>6. Dining Hall (three meals per day)</li> </ol>															
37.	Co-curricular and extra-curricular activities	<ul style="list-style-type: none"> <li>• The Institute, so as to promote all round development of students, continuously promotes co-curricular and extra-curricular activities amongst students. Institute annual cultural event VIVACITY organized by students promotes creativity amongst students and instills confidence in self-organizing mega events. The students, besides organizing technical events in the Campus, also participate in various technical events in other campuses, participate there honing their technical skills. The Institute periodically organizes debate competition on important topics offering students opportunity to articulate their views. A Robotics club has been set up by the students and Robotics competitions are held annually.</li> <li>• Games and Sports are an important aspect of students' activity in the campus. All students are encouraged to play games of their choice. The Institute has developed sprawling Football and Cricket grounds in its campus. Besides, facilities for in-door Badminton, Squash and Table Tennis exist, a well set up Gymnasium, Literary Club and Music Club for students also exists in the campus.</li> <li>• In order to inculcate sense of social responsibility, the Institute encourages the students to organize blood donation camps and social education programs in the vicinity.</li> </ul>															
38.	Growth in infrastructural facilities since the conferment of Deemed University status	<table border="1"> <thead> <tr> <th>Name of the Building</th> <th>At the time of conferment</th> <th>Present status</th> </tr> </thead> <tbody> <tr> <td>Library</td> <td>475 sq. mtr.</td> <td>1250 sq. mtr.</td> </tr> <tr> <td>Hostel</td> <td>6774 sq. mtr.</td> <td>18000 sq. mtr.</td> </tr> <tr> <td>Sports complex</td> <td>—</td> <td>5200 sq. mtr.</td> </tr> <tr> <td>Residential Area</td> <td>1853 sq. mtr.</td> <td>3052 sq. mtr.</td> </tr> </tbody> </table>	Name of the Building	At the time of conferment	Present status	Library	475 sq. mtr.	1250 sq. mtr.	Hostel	6774 sq. mtr.	18000 sq. mtr.	Sports complex	—	5200 sq. mtr.	Residential Area	1853 sq. mtr.	3052 sq. mtr.
Name of the Building	At the time of conferment	Present status															
Library	475 sq. mtr.	1250 sq. mtr.															
Hostel	6774 sq. mtr.	18000 sq. mtr.															
Sports complex	—	5200 sq. mtr.															
Residential Area	1853 sq. mtr.	3052 sq. mtr.															

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39.	Administration and governance	The Institute has The Governing Council, Academic Council and Finance Committee. The constitution of the above Councils / committee are given in Annexure – 16.			
40.	Conditions in the MHRD notification, if any and compliance by the Deemed University	Yes, the Institute has complied with the conditions laid down by the Ministry of Human Resource Development in their notification. The compliance report is annexed as Annexure – 17.			
41.	Steps taken by the deemed university on the suggestions of the various UGC Visiting Expert Committees	The earlier committee of UGC visited the University for granting deemed to be university status 10 <sup>th</sup> – 11 <sup>th</sup> September, 2005.			
42.	Whether all the authorities of the deemed university are as per the MoA / Rules? Please give details about the constitution / meetings held.	Yes, the Governing Council, Academic Council and Finance Committee in the Institute are as per MoA. The constitution of the above councils / committee are given in Annexure – 16. The details of the meetings held are given in Annexure – 18.			
43.	Future Growth Plan of the Deemed University				
	(Rs. in Lakh)				
Year Ending	March' 10	March'11	March'12	March'13	March'14
Total Income	640.70	869.08	1150.75	1599.22	2102.91
Total Expenditure	852.27	1094.94	1220.04	1748.07	2268.70
Deficit	211.57	225.86	104.29	148.85	165.79

For the next three years, the Institute's student intake (for UG programs) is planned to be 240 students per year. The admission process will, however, be suitably amended to ensure that the number of enrolled students does not fall below 240.

For PG programs, we intend to admit 40 students in 2010, 80 in 2011, 120 in 2012, and 160 in 2013. These include students in MS, M.Tech., Ph.D., and fifth year of B.Tech.- M.Tech. dual-degree programs.

The goal is to have a combined student strength of about 1000 by August 2012. However, there is no intention, in the near future, to divert from our core focus on Information Technology (IT).

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#### OBSERVATIONS OF THE COMMITTEE

a. Specific observations of the Review Committee on maintenance of standards with reference to :-

(i) Availability of qualified faculty

Faculty is well equipped with more than 80% have Ph.D. degree.

(ii) Infrastructure

The infrastructure is adequate, commensurate with the requirement and there is plenty of land available for further expansion.

(iii) Accreditation by NAAC/ NBA

The Institute has applied for NAAC accreditation vide letter of intent dated 9<sup>th</sup> September, 2009.

(iv) Compliance of deficiencies / suggestions / observations made by the earlier Expert Committee(s) / Review Committee(s) / conditions stipulated in MHRD notification.

The earlier UGC committee visited the Institute for conferment of deemed to be university status on 10<sup>th</sup> – 11<sup>th</sup> September, 2009. The institute has complied with the suggestions made by the said committee. The conditions laid down by the Ministry of Human Resource Development vide its notification dated 3<sup>rd</sup> February, 2009 have also been complied with by the Institute. The compliance report is placed at Annexure – 17 of the present report.

b. General observations

- LNMIIT is a very good example of Public Private Partnership in Higher Education. The Rajasthan Government has given 100 acres of land as well as a one time grant of Rs.15.00 crores to the Institute. However, Government nominees are well representative in the Governing Council.
- Studies on inter-disciplinary subjects are promoted in the Institute without rigidity.
- Research is promoted. Research scholars are exempted from tuition fee. Faculty members get travel support to present research papers in International Conferences.

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- Management is headed by well known Industrialist Mr. Lakshmi N. Mittal, who has been providing grant to the Institute on a continuous basis. The Rajasthan Government is supportive of the University.
- Good blend of Senior and young faculty members have been appointed almost all of them being from reputed Institutions including IITs.
- 25% of the students on their best performance in the first 2 years of graduate study are promoted to visit the offices of the ARCELOR MITTAL in the world, for handling projects.
- c. Deficiencies, if any  
 Committee has not observed any specific deficiency that would impact negatively on the quality of education delivery or the maintenance of standards.
- d. Whether Committee / Nominee of the Statutory Council(s) is satisfied with the increase in infrastructure in terms of increase in intake.  
 Infrastructure is adequate and commensurate with the requirement.

#### SUGGESTIONS OF THE COMMITTEE

- The Committee commends the Institute on the points of promoting inter-disciplinary course teaching. However, in order to promote excellence in each major subject area, the Institute needs to identify individual developments in the university as they grow.
- Holistic education environment in the Institute would be possible only when programmes covering Management, Humanities and other courses are offered. The Committee recommends introduction of such kind of programmes by working out vertical expansion also.
- Board of Studies for each academic subject area would help in facilitating the syllabus formation, review and for maintenance of standard in course curriculum, handling reviews and monitoring the teaching-learning process. LMNIIT may plan to form such boards / departments suitably in the Institute.
- The Institute may consider to include more number of academicians in Governing Council.
- The Institute needs to plan for increasing corpus fund to provide economic viability on the longer term for sustainability. On step-by-step basis, the Institute may plan to raise to Rs.100.00 crores corpus for the Institute.

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- Alumni meets may be conducted every year to continue connectivity and to promote placements.
- The Institute may start publishing newsletter covering the University News.
- The committee commends the Institute on having good blend of senior and young researchers on its rolls. The faculty may consider to start an international research journal.
- Several value addition programmes could be planned in order to help students to develop skills and thus helping placements. The programmes could be an internet technologies, open sources, project management, mobile technology. Studies and research in the area of AI, Robotics, embedded technologies, communication technologies, mathematical algorithms, databases, compute Architecture, software engineering etc. would help in reaching new heights for the Institute.
- Applied physics laboratories may be strengthened to promote research on Nano materials.
- Parents meet too provide a great accountability to the students. Periodic meeting may be conducted.
- An Anti-sexual harassment committee, Anti-Ragging committee and women Grievance Cell need to be formed.
- The Institute may plan for getting accredited by NAAC at the earliest.
- Controller of Examination be appointed.
- Academic audit has to be initiated by the Institute.
- Considering that any university thrust should be broad-based and have societal impact, the Committee recommends that LNMIIT expands other basic sciences such as environmental sciences and other engineering disciplines including Mining and Metallurgical Engineering. These new thrust areas could leverage the close relationship of LNMIIT with Arcelor Mittal and also addressed the regional industry needs of Mining and Metallurgy.

#### RECOMMENDATIONS OF THE COMMITTEE

Based on the visit, discussion with the Director, representatives of management, faculty, staff and students, the Committee is of the opinion that LNM Institute of Information and Technology, Gram Rupa Ki Nagal, Post Surnel, Via Kanota, Dist. Jaipur – 303 012 (Rajasthan) has adequate

P. Bhattacharya  
University Grants Commission

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infrastructure and qualified faculty and support staff to continue all Under-Graduate, Post-Graduate and Ph.D. programmes which are going on presently. The Committee noted that as per the Government of India, Ministry of Human Resource Development, Department of Secondary and Higher Education notification dated 3<sup>rd</sup> February, 2006 the Institute has also become due for review after completion of three years of its existence under De novo category. As such the committee undertook the review of this Institute accordingly and recommends that the Institute be permitted to continue to function as a deemed to be university under De Novo category for a further period of 3 years and be once again reviewed thereafter.

5/28/2009  
Prof. Om Prakash Mishra  
Chairman

for Senarit  
26/9/09  
Prof. Raj Senarit  
Member

H. Devraj  
26/9/09  
Dr. H. Devraj  
Member

P. Thrimurthy  
26/9/2009  
Prof. P. Thrimurthy  
Member

Prof. Ravindra Gudi  
AICTE Nominee  
26/9/09

Mr. A.K. Dogra  
Member Secretary  


Dated : 26<sup>th</sup> September, 2009  
Place : Jaipur (Rajasthan)

University Grants Commission

## Annexure – III: Balance Sheets and other financial information for the last four years

### Balance Sheets – 2013

#### **S.R. BATLIBOI & Co. LLP**

Chartered Accountants

Golf View Corporate Tower-B  
Sector-42, Sector Road  
Gurgaon-122 002, Haryana, India  
Tel : +91 124 464 4000  
Fax : +91 124 464 4050

#### **INDEPENDENT AUDITOR'S REPORT**

To the Members of Board of LNM Institute of Information Technology

#### **Report on the Financial Statements**

We have audited the accompanying financial statements of LNM Institute of Information Technology ('the institute'), which comprise the Balance Sheet as at March 31, 2013, and the Income and Expenditure Account for the year then ended, and a summary of significant accounting policies and other explanatory information.

#### **Management's Responsibility for the Financial Statements**

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Institute in accordance with accounting principles generally accepted in India, including the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI). This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

#### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### **Basis for qualified opinion**

- (i) *Attention is invited to Note 3(i) of schedule 14 of the financial statements with regard to no adjustment being done on account of shortage of fixed assets amounting to Rs. 1,507,575 (Gross) (written down value Rs. 593,922; Previous Year Rs. 672,445) and fixed assets lying unused amounting to Rs.1,240,512 (Gross) (Previous Year Rs.2,415,250) (written down value Rs. 375,395; Previous Year Rs. 1,088,011) noticed during physical verification of fixed assets carried out in an earlier year and upon which we are unable to comment on. This has caused us to qualify our audit opinion in the financial statements relating to the year ended March 31, 2012 also.*
- (ii) *Attention is invited to Note 3 (ii) and (iii) of schedule 14 of the financial statements with regard to the non updation of the fixed assets register subsequent to March 31, 2009 and non conduct of physical verification of fixed assets since March 31, 2009 onwards respectively as more fully stated in the said notes and accordingly we are unable to comment on the existence of the assets as recorded in these financial statements and any consequential impact that may arise in this regard had the assets been verified. Our audit opinion on the financial statements relating to the financial year ended March 31, 2012 was also qualified w.r.t observation related to non updation of the fixed assets register subsequent to March 31, 2009.*



## S.R. BATLIBOI & CO. LLP

Chartered Accountants

(iii) Attention is invited to Note 4 (i) and (ii) of schedule 14 of the financial statements in respect of the Institute being in the process of strengthening its internal control environment in respect of certain processes. In view of the foregoing, we are unable to comment on the adjustments, if any, required to be made to the financial statements, that relate to the following areas of operations:

- a) Ensuring statutory compliances with respect to various labour laws (including Employee State Insurance Act, Statutory Bonus Act, Factories Act etc.) by contractors/ service providers, maintenance of attendance & leave records (except junior non-academic staff) and maintenance of records related to renting of the Institute's infrastructure to the outside agencies;
- b) non-maintenance of records related to government grants/ sponsorship projects, and non-compliance with their terms & conditions.

This had caused us to qualify our audit opinion on the financial statements relating to financial year ended March 31, 2012 also. Pending the outcome/resolution of the matters stated in paragraph 3 (i), (ii), (iii) (a) and (b) above, which in the opinion of the management would not be material, we are unable to comment on the adjustments if any required to be made to the accompanying financial statements.

### Qualified opinion

In our opinion and to the best of our information and according to the explanations given to us, except for the possible effects of the matters described in the Basis for Qualified Opinion paragraph the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India including the Accounting Standards issued by the Institute of Chartered Accountants of India(JCAI)

- (a) in the case of the Balance Sheet, of the state of affairs of the Trust as at March 31, 2013; and
- (b) in the case of the Income and Expenditure Account, the excess of income over expenditure for the year ended on that date.

### Other Matter

This report is furnished solely for use in preparing the income-tax return of LNM Institute of Information Technology under the Income-tax Act, 1961. It is not to be used for any other purpose, or referred to in any other document, or distributed to anyone other than the Income-tax authorities.

For S. R. Batliboi & Co. LLP  
Chartered Accountants  
ICAI Firm Registration Number: 301003E

per Yogenster Seth  
Partner  
Membership Number: 94524  
Place of Signature: Gurgaon  
Date: 20/09/2013



## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

(Deemed University)

Balance Sheet as at March 31, 2013

	Schedules	March 31, 2013 (Rs)	March 31, 2012 (Rs)
<b>Sources of Funds</b>			
Corpus/ Capital fund	1	500,000,000	460,000,000
Reserves and Surplus	2	100,000	100,000
<b>Loan Fund</b>			
Secured loan	3	6,645,065	-
Unsecured Loans	3	224,865,000	164,865,000
<b>Total</b>		<b>731,610,065</b>	<b>624,965,000</b>
<b>Application of Funds</b>			
<b>Fixed assets</b>	4		
Gross Block		838,870,445	566,254,490
Less: Accumulated Depreciation/Amortisation		320,348,902	269,386,570
Net Block		518,521,543	296,867,920
Capital Work in Progress		7,244,877	75,616,334
		<b>525,766,420</b>	<b>372,514,254</b>
<b>Current Assets, Loans &amp; Advances</b>			
Cash and Bank balances	5	119,407,563	153,466,728
Other current assets	6	4,709,175	5,669,456
Loans and Advances	7	5,833,461	4,137,212
<b>(A)</b>		<b>129,950,199</b>	<b>163,273,396</b>
<b>Less: Current Liabilities &amp; Provisions</b>			
Current Liabilities	8	50,228,018	52,272,380
Provisions	9	2,425,861	1,113,964
<b>(B)</b>		<b>52,653,879</b>	<b>53,386,344</b>
<b>Net Current Assets (A-B)</b>		<b>77,296,320</b>	<b>109,887,052</b>
Income and Expenditure Account (Debit Balance)		128,547,325	142,563,694
<b>Total</b>		<b>731,610,065</b>	<b>624,965,000</b>

## Notes to Accounts

14

The schedules referred to above and the notes to accounts form an integral part of the Balance Sheet.

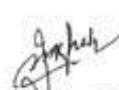
As per our report of even date

For S.R.Batliboi & Co. LLP  
 ICAI Firm Registration No. 301003E  
 Chartered Accountants

per Yogender Seth  
 Partner  
 Membership No. 94524  
 Gurgaon  
 Date : 30/09/2015



For The LNM Institute of Information Technology

  
 Member of  
 Governing Council

  
 Member of  
 Governing Council



## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

## THE LNM INSTITUTE OF INFORMATION TECHNOLOGY

(Deemed University)

Income and Expenditure Account for the year ended March 31, 2013

	Schedules	March 31, 2013 (Rs)	March 31, 2012 (Rs)
<b>Income</b>			
Fee Income	10	175,022,641	145,340,112
Other Income	11	17,550,122	20,274,549
<b>Total</b>		<b>192,572,763</b>	<b>165,614,661</b>
<b>Expenditure</b>			
Personnel Expenses	12	63,033,278	53,004,967
Administrative Expenses	13	64,560,784	42,707,569
Depreciation/Amortisation	4	50,962,332	32,962,968
<b>Total</b>		<b>178,556,394</b>	<b>128,675,504</b>
<b>Balance being excess of Income over Expenditure</b>		<b>14,016,369</b>	<b>36,939,157</b>
Balance brought forward from previous year		<b>(142,563,694)</b>	<b>(179,502,851)</b>
<b>Balance being (deficit) carried to balance sheet</b>		<b>(128,547,325)</b>	<b>(142,563,694)</b>

## Notes to Accounts

14

The schedules referred to above and the notes to accounts form an integral part of the Income and Expenditure Account.

As per our report of even date

For S.R.Batlboi &amp; Co, LLP

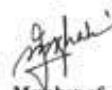
ICAI Firm Registration No. 301003E

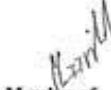
Chartered Accountants

per Yogender Seth  
 Partner  
 Membership No. 94524  
 Gurgaon  
 Date : 30/09/2015



For The LNM Institute of Information Technology

  
 Member of  
 Governing Council

  
 Member of  
 Governing Council


## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

 THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University)

## Schedules to the Accounts

	March 31, 2013 Rs.	March 31, 2012 Rs.
<b>Schedule 1: Corpus/ Capital fund</b>		
<b>Opening balance</b>	<b>460,000,000</b>	410,000,000
(Represent amounts received from Lakshmi & Usha Mittal Foundation Rs. 310,000,000 (Previous Year Rs. 260,000,000) and from Government of Rajasthan Rs. 150,000,000 (Previous Year Rs. 150,000,000))		
<b>Add:</b>		
Amount received from Lakshmi & Usha Mittal Foundation during the year	40,000,000	50,000,000
<b>Closing balance</b>	<b>500,000,000</b>	<b>460,000,000</b>
<b>Schedule 2: Reserve and Surplus</b>		
Capital reserve	100,000	100,000
(Nominal amount for 100 acres of Land allotted free of cost by the Government of Rajasthan to the Institute)		
	<b>100,000</b>	<b>100,000</b>
<b>Schedule 3: Loan fund</b>		
<b>Secured loan</b>		
Bank overdraft*	6,645,065	-
	<b>6,645,065</b>	<b>-</b>
* Bank overdraft is secured against fixed deposit of Rs. 90 lacs and carries rate of interest @ 11.25% (31 March 2012: Nil).		
<b>Unsecured loan</b>		
Loan from Lakshmi & Usha Mittal Foundation*	224,865,000	164,865,000
	<b>224,865,000</b>	<b>164,865,000</b>

\* The loan is interest free.

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THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University)

Schedules to the Accounts

Schedule 4: Fixed Assets

S.No.	DESCRIPTION	Gross Block			Depreciation			Net Block
		As at 1.4.2012	Additions during the year	Deletions/ Adjustments	As at 31.3.2013	As at 1.4.2012	For the year	
1	Computers accessories and softwares	34,031,097	9,300,753	-	43,331,850	32,922,223	4,261,727	-
2	Air conditioners and air cooling	16,428,434	1,489,570	-	17,918,004	10,318,220	1,059,339	11,377,559
3	Electrical and other equipments	48,580,441	17,31,215	-	65,711,656	29,447,123	4,838,329	6,540,445
4	Furniture and fixtures	58,335,763	6,699,460	-	65,035,223	25,221,825	3,948,253	31,406,204
5	Library books	4,348,285	718,712	-	5,066,997	4,348,285	718,712	35,865,145
6	Vehicles	943,966	1,962,324	-	2,905,420	710,481	239,228	5,066,997
7	Building	403,486,874	234,813,421	-	638,300,295	166,418,413	35,876,744	202,295,157
8	Leashold Land (refer note 1 below)	100,000	-	100,000	-	-	-	100,000
Total (A)		<b>566,254,490</b>	<b>275,615,555</b>	-	<b>838,870,445</b>	<b>269,396,570</b>	<b>50,962,332</b>	<b>518,521,543</b>
Capital work in progress including capital advances (B)								<b>296,867,920</b>
Total (A+B)		<b>562,124,710</b>	<b>64,129,780</b>	-	<b>566,254,490</b>	<b>236,423,602</b>	<b>32,962,968</b>	<b>7,244,877</b>
Previous Year								<b>75,646,334</b>
								<b>372,514,254</b>
								<b>296,386,570</b>

Notes: 1. Leashold land represents nominal amount for 100 acres of Land allotted free of cost by the Government of Rajasthan to the Institute

2. Fixed assets purchased out of the proceeds from grants received from various government departments have not been capitalised.




**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**
**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
 (Deemed University)

**Schedules to the Accounts**

	March 31, 2013 Rs.	March 31, 2012 Rs.
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**Schedule 5: Cash and Bank Balances**

Cash on hand	13,617	31,061
Balances with scheduled banks:		
-On Deposit accounts (Includes Rs. 50,000,000; Previous Year Rs. 50,000,000 as per requirement of University Grant Commission )*	115,171,671	151,826,000
-On Savings Accounts	4,222,275	1,609,667
	<u>119,407,563</u>	<u>153,436,728</u>

\* Fixed Deposit of Rs. 90 lacs as guarantee against bank overdraft (refer schedule 3).

**Schedule 6: Other Current Assets**

Interest accrued but not due	4,709,175	5,669,456
	<u>4,709,175</u>	<u>5,669,456</u>

**Schedule 7: Loans and Advances**  
*(Unsecured, considered good)*

Advances recoverable in cash or in kind for the value to be received	1,587,546	1,364,495
Tax deducted at source receivable	2,451,771	1,449,727
Security deposits	1,794,144	1,322,990
	<u>5,833,461</u>	<u>4,137,212</u>
<i>(Unsecured, considered doubtful)</i>		
Advances recoverable in cash or in kind for the value to be received	336,025	24,930
Less: Provision for doubtful advances	(336,025)	24,930
	-	-
	<u>5,833,461</u>	<u>4,137,212</u>

**Schedule 8: Current Liabilities**

Retention money - Contractors	8,274,840	8,572,219
Caution money - Students (Repayable within one year Rs. 17,84,000 (Previous Year Rs. 11,64,000))	8,805,000	7,499,000
Sundry creditors	12,189,170	6,634,210
Sundry creditors- Capital	7,592,792	17,292,255
Book overdraft	423,857	214,461
Students Mess Fund	5,108,780	3,965,924
Digital Library Fund	2,952,545	4,212,112
LNM IIT Alumni Association	1,321,202	862,314
LNM IIT Endowment Fund	1,273,720	1,159,834
Student Welfare Fund	747,994	529,898
Temple Fund	47,503	38,592
Statutory liabilities	1,490,615	1,291,561
	<u>50,228,018</u>	<u>52,272,380</u>

**Schedule 9: Provisions**

Provision for gratuity	971,634	1,113,964
Provision for Leave Encashment	1,454,227	-
	<u>2,425,861</u>	<u>1,113,964</u>



## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

 THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University)

## Schedules to the Accounts

	March 31, 2013 Rs.	March 31, 2012 Rs.
<b>Schedule 10: Fee Income</b>		
Registration fees	6,447,000	5,607,000
Tuition fees	123,430,553	105,346,000
Admission & application fees	7,950,880	5,970,550
Hostel charges	35,058,208	26,569,562
Mess establishment charges	2,136,000	1,847,000
	<b><u>175,022,641</u></b>	<b><u>145,340,112</u></b>
<b>Schedule 11: Other Income</b>		
Interest on:		
Bank deposits (Gross, Tax deducted at source Rs. 327,992, Previous Year Rs. 388,982)	13,201,030	14,238,561
Rental income from mess, utility shops for students, others	1,213,041	1,199,049
Receipts from guest house	141,430	108,283
Others	2,994,621	4,728,656
	<b><u>17,550,122</u></b>	<b><u>20,274,549</u></b>
<b>Schedule 12: Personnel Expenses</b>		
Salaries and allowances ((includes prior period expense of Rs. 639,302 (31 March 2012 : Rs NIL))	50,171,537	43,721,398
Visiting faculty honorarium	7,288,260	5,788,272
Staff welfare expenses	289,044	160,938
Employer contribution to provident and other funds	3,553,811	2,812,451
Gratuity expenses	1,730,626	521,908
	<b><u>63,033,278</u></b>	<b><u>53,004,967</u></b>

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## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

 THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University)

## Schedules to the Accounts

	March 31, 2013 Rs.	March 31, 2012 Rs.
<b>Schedule 13: Administrative Expenses</b>		
Electricity expenses	12,931,904	8,731,203
Insurance	339,949	296,979
Repair and maintenance	15,211,723	7,514,284
CCB counseling fees	918,892	2,365
Recruitment expenses	849,310	-
Advertisement and publicity expenses	3,583,718	141,837
Traveling & conveyance expenses	6,224,109	6,164,704
Communication expenses	1,131,965	2,155,279
Printing and stationery	1,348,241	1,504,061
House keeping and office maintenance expenses	6,022,432	3,659,408
Security expenses	3,717,886	3,343,486
Students activities expenses / Gymkhana expenses	8,494,038	5,690,827
Seminar & conference	123,827	449,699
Books and periodicals	153,962	69,272
Legal & professional expenses	486,256	240,762
Auditor's remuneration		
-Audit fees	535,546	393,222
-Out of pocket expenses	41,315	39,326
Bank charges	64,714	9,282
Provision for doubtful advances	311,095	-
Miscellaneous expenses	2,069,902	2,301,573
	<hr/>	<hr/>
	64,560,784	42,707,569

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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
**(Deemed University)**  
**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2013**  
(Unless otherwise mentioned, all amounts are in Indian Rupees)

**SCHEDULE 14: Notes to Accounts**

**1. Nature of Operations**

The LNM Institute of Information Technology ('Institute'), an autonomous non-profit organization is jointly set up by the Government of Rajasthan and Lakshmi & Usha Mittal Foundation and is a deemed University as declared by the Government of India under Section 3 of UGC Act, 1956. The Institute is in Jaipur and is registered under Rajasthan Societies Registration Act, 1958. The objective of the institute is to produce leading professionals in the field of Information Technology with a proper blend of communication, computers, management and social awareness.

**2. Statement of Significant Accounting Policies**

**a) Basis of preparation**

The financial statements have been prepared to comply in all material respects with the Notified Accounting Standards issued by the Institute of Chartered Accountants of India. The financial statements have been prepared under the historical cost convention on an accrual basis except revenue from fees which is recognized on receipt basis. The accounting policies have been consistently applied by the Institute and are consistent with those used in the previous year.

**b) Use of estimates**

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities at the date of the financial statements and the results of operations during the reporting period. Although these estimates are based upon management's best knowledge of current events and actions, actual results could differ from these estimates.

**c) Fixed Assets**

Fixed assets are stated at cost, less accumulated depreciation. Cost comprises the purchase price and any directly attributable cost of bringing the asset to its working condition for its intended use. Financing costs relating to acquisition of fixed assets are also included to the extent they relate to the period till such assets are ready to be put to use.

**d) Depreciation**

Depreciation on assets is calculated on Written Down Method as per method and rates specified in the Income Tax Act, 1961 except for library books and assets costing upto Rs. 5,000 which are depreciated fully in the year of purchase.

Assets	Rates (%) (WDV)
Computers and Computers accessories	60.00
Air Conditioners and Air Cooling	15.00
Electrical and other equipments	15.00
Furniture and fixtures	10.00
Library Books	100.00
Vehicles	15.00
Buildings	10.00



**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
**(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2013**  
 (Unless otherwise mentioned, all amounts are in Indian Rupees)

e) The carrying amounts of assets are reviewed at each balance sheet date if there is any indication of impairment based on internal/external factors. An impairment loss is recognized wherever the carrying amount of an assets exceeds its recoverable amount. The recoverable amount is the greater of the asset's net selling price and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value at the weighted average cost of capital.

**f) Expenditure on new projects and substantial expansion**

Expenditure directly relating to construction activity is capitalized. Indirect expenditure incurred during construction period is capitalised as part of the indirect construction cost to the extent to which the expenditure is indirectly related to construction or is incidental thereto. These expenditures are shown as Capital Work in Progress. Other indirect expenditure (including borrowing costs) incurred during the construction period which is not related to the construction activity nor is incidental thereto is charged to the Profit and Loss Account. Income earned during construction period is deducted from the total of the indirect expenditure.

**g) Retirement Benefits**

- Retirement benefit in the form of Provident Fund is a defined contribution scheme and the contributions are charged to the Profit and Loss Account of the year when the contributions to the respective funds are due. There are no other obligations other than the contribution payable to the respective fund.
- Gratuity liability is defined benefit obligation and is provided for on the basis of an actuarial valuation on projected unit credit method made at the end of each financial year.
- Actuarial gains/losses are immediately taken to profit and loss account and are not deferred.

**h) Government grants and subsidies**

Grants from the government are recognized when there is reasonable assurance that the grant/subsidy will be received and all attaching conditions will be complied with. Government Grant received in the form of non monetary assets is free of cost, and is recorded at Nominal value.

**i) Revenue Recognition**

**i. Income from Students Fees**

The revenue from students fees is recognized on receipt basis. Fees is collected in advance two times in a year, once in July for the months July to December and then in January for January to June.

**ii. Interest**

Revenue is recognised on a time proportion basis taking into account the amount outstanding and the rate applicable.

**j) Provisions**

A provision is recognized when an enterprise has a present obligation as a result of past event; it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made. Provisions are not discounted to its present value and are determined based on best estimate required to settle the obligation at the balance sheet date. These are reviewed at each balance sheet date and adjusted to reflect the current best estimates.

- Institute had conducted the physical verification of Fixed Assets during an earlier year. There has been shortage of fixed assets amounting to Rs. 1,507,575 (Gross) (written down value Rs. 593,922; Previous Year Rs. 672,445) and fixed assets lying unused amounting to Rs. 1,240,512 (Gross) (Previous Year Rs.2,415,250) (written down value Rs. 375,395; Previous Year Rs. 1,088,011).However, no provision /adjustment have been made for these fixed assets in the books of account pending Governing Council approval.
- The Fixed Assets Register has been updated till March 31, 2009 only, and the management has initiated the process of updating the same.



**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2013**  
(Unless otherwise mentioned, all amounts are in Indian Rupees)

(iii) During the year management has initiated the process of physical verification of fixed assets. The process has still not completed. The adjustment which will also include updation of and reconciliation with the fixed assets register has not been done.

4. (i) Management is in the process of strengthening its internal control environment in respect of certain procedures related to ensuring statutory compliances with respect to various labour laws (including Employee State Insurance Act, Statutory Bonus Act, Factories Act etc.) by contractors/ service providers, maintenance of attendance & leave records (except junior non-academic staff) and maintenance of records related to renting of the Institute's infrastructure to the outside agencies.

(ii) Management is in the process of strengthening its internal control environment in respect of maintenance of records related to government grants/ sponsorship projects, ensuring existence/ custody of assets purchased out of grant proceeds etc; and compliance with their terms and conditions.

The management is of the opinion that there would not be any material adjustment due to the above mentioned control matters.

5. **Contingent liabilities not provided for**

There are pending legal cases of Rs. 476,000 (31 March 2012: Rs. 550,000) against the institute by the students as at March 31, 2013. Based on the discussion with the solicitors and decisions in similar cases, management is of the view that liability, if any, arising in such cases is not going to be material, and shall be provided as and when these cases are finally settled. Therefore no provision against these cases has been made in the books of the Institute.

6. Previous year's figures have been regrouped where necessary to conform to current year's classification.

In terms of our report of even date,

For S.R. Batliboi & Co. LLP  
ICAI Firm Registration No. 301003E  
Chartered Accountants

per Yogender Seth  
Partner  
Membership No. 94524  
Gurgaon  
Date: 30/09/2015



For The LNM Institute of Information Technology

Member of  
Governing Council

Member of Governing  
Council



## **Balance Sheets – 2014**

**LNM Institute of Information Technology**  
**Statutory Audit for the year ended March 31, 2014**

## S.R. BATLIBOI & Co. LLP

Chartered Accountants

Golf View Corporate Tower-B  
Sector-42, Sector Road  
Gurgaon-122 002, Haryana, India  
Tel : +91 124 464 4000  
Fax : +91 124 464 4050

### INDEPENDENT AUDITOR'S REPORT

To the Members of Board of LNM Institute of Information Technology

#### Report on the Financial Statements

We have audited the accompanying financial statements of LNM Institute of Information Technology ('the institute'), which comprise the Balance Sheet as at March 31, 2014, and the Income and Expenditure Account for the year then ended, and a summary of significant accounting policies and other explanatory information.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Institute in accordance with accounting principles generally accepted in India, including the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI). This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

#### Basis for Qualified Opinion

- (i) *Attention is invited to Note 4 (i) and (ii) of schedule 15 of the financial statements in respect of the Institute being in the process of strengthening its internal control environment in respect of certain processes. In view of the foregoing, we are unable to comment on the adjustments, if any, required to be made to the financial statements, that relate to the following areas of operations:*
  - a) *Ensuring statutory compliances with respect to various labour laws (including Employee State Insurance Act, Statutory Bonus Act, Factories Act etc.) by contractors/ service providers, maintenance of attendance & leave records (except junior non-academic staff) and maintenance of records related to renting of the Institute's infrastructure to the outside agencies;*
  - b) *non-maintenance of records related to government grants/ sponsorship projects, and non-compliance with their terms & conditions.*



## **S.R. BATLIBOI & CO. LLP**

Chartered Accountants

*This had caused us to qualify our audit opinion on the financial statements relating to financial year ended March 31, 2013 also. Pending the outcome/resolution of the matters stated in paragraph 1(a) and (b) above above, which in the opinion of the management would not be material, we are unable to comment on the adjustments if any required to be made to the accompanying financial statements.*

### Qualified opinion

In our opinion and to the best of our information and according to the explanations given to us, *except for the possible effects of the matters described in the Basis for Qualified Opinion paragraph*, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India including the Accounting Standards issued by the Institute of Chartered Accountants of India(ICAI).

- (a) in the case of the Balance Sheet, of the state of affairs of the Trust as at March 31, 2014; and
- (b) in the case of the Income and Expenditure Account, the excess of income over expenditure for the year ended on that date.

For S. R. Batliboi & Co. LLP  
Chartered Accountants  
IGAI Firm Registration Number: 301003E

~~per Yogender Seth  
Partner  
Membership Number: 94524  
Place of Signature: Gurgaon  
Date: 30/9/2014~~



**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**

**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**

(Deemed University )

Balance Sheet as at March 31, 2014

	Schedules	March 31, 2014 (Rs)	March 31, 2013 (Rs)
<b>Sources of Funds</b>			
Corpus/ Capital fund	1	<b>50,00,00,000</b>	50,00,00,000
Reserves and Surplus	2	<b>1,00,000</b>	1,00,000
<b>Loan Fund</b>			
Unsecured Loans	3	<b>22,48,65,516</b>	23,15,10,065
<b>Total</b>		<b>72,49,65,516</b>	73,16,10,065
<b>Application of Funds</b>			
<b>Fixed assets</b>	4		
Gross Block		<b>88,01,30,768</b>	83,88,70,445
Less: Accumulated Depreciation/Amortisation		<b>36,99,23,562</b>	32,03,48,902
Net Block		<b>51,02,07,206</b>	51,85,21,543
Capital Work in Progress		<b>1,41,30,545</b>	72,44,877
		<b>52,43,37,751</b>	52,57,66,420
<b>Current Assets, Loans &amp; Advances</b>			
Cash and Bank balances	5	<b>13,89,27,368</b>	11,94,07,563
Other current assets	6	<b>19,15,832</b>	47,09,175
Loans and Advances	7	<b>84,78,472</b>	58,33,461
<b>(A)</b>		<b>14,93,21,672</b>	12,99,50,199
<b>Less: Current Liabilities &amp; Provisions</b>			
Current Liabilities	8	<b>6,15,41,567</b>	5,02,28,018
Provisions	9	<b>51,69,671</b>	24,25,861
<b>(B)</b>		<b>6,67,11,238</b>	5,26,53,879
<b>Net Current Assets (A-B)</b>		<b>8,26,10,434</b>	7,72,96,320
Income and Expenditure Account (Debit Balance)		<b>11,80,17,331</b>	12,85,47,325
<b>Total</b>		<b>72,49,65,516</b>	73,16,10,065

**Notes to Accounts**

15

The schedules referred to above and the notes to accounts form an integral part of the Balance Sheet.

As per our report of even date

**For S.R.Batliboi & Co. LLP**

Firm Registration No. 301003E

**Chartered Accountants**

per Yogender Seth

Partner

Membership No. 94524

Gurgaon

Date : 30/04/2014



**For The LNM Institute of Information Technology**

*[Signature]*  
Member of  
Governing Council

*[Signature]*  
Member of  
Governing Council



**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**

**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**

(Deemed University )

Income and Expenditure Account for the year ended March 31, 2014

	Schedules	March 31, 2014 (Rs)	March 31, 2013 (Rs)
<b>Income</b>			
Fee Income	10	<b>21,77,61,864</b>	17,76,62,949
Other Income	11	<b>1,26,12,056</b>	1,49,09,814
<b>Total</b>		<b>23,03,73,920</b>	<b>19,25,72,763</b>
<b>Expenditure</b>			
Personnel Expenses	12	<b>8,13,71,883</b>	6,30,33,278
Administrative Expenses	13	<b>7,72,01,316</b>	6,45,17,851
Depreciation/Amortisation	4	<b>6,06,51,567</b>	5,09,62,332
Financial Expense	14	<b>6,19,160</b>	42,933
<b>Total</b>		<b>21,98,43,926</b>	<b>17,85,56,394</b>
<b>Balance being excess of Income over Expenditure</b>		<b>1,05,29,994</b>	<b>1,40,16,369</b>
Balance brought forward from previous year		<b>(12,85,47,325)</b>	<b>(14,25,63,694)</b>
<b>Balance being (deficit) carried to balance sheet</b>		<b>(11,80,17,331)</b>	<b>(12,85,47,325)</b>

**Notes to Accounts**

15

The schedules referred to above and the notes to accounts form an integral part of the Income and Expenditure Account.

As per our report of even date

**For S.R.Batliboi & Co. LLP**

Firm Registration No. 301003E

**Chartered Accountants**

*[Signature]*  
per Yogender Seth

Partner

Membership No: 94524

Gurgaon

Date : 30/9/2014



**For The LNM Institute of Information Technology**

*[Signature]*  
Member of  
Governing Council

*[Signature]*  
Member of  
Governing Council



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**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**


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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
 (Deemed University )

**Schedules to the Accounts**

	<b>March 31, 2014</b>	<b>March 31, 2013</b>
	Rs.	Rs.
<b>Schedule 1: Corpus/ Capital Fund</b>		
<b>Opening balance</b>	<b>50,00,00,000</b>	46,00,00,000
(Represent amounts received from Lakshmi & Usha Mittal Foundation Rs. 350,000,000 (Previous Year Rs. 310,000,000) and from Government of Rajasthan Rs. 150,000,000 (Previous Year Rs. 150,000,000))		
<b>Add:</b>		
Amount received from Lakshmi & Usha Mittal Foundation during the year (Current year: Nil, previous year: Rs 40,000,000)	-	4,00,00,000
<b>Closing balance</b>	<b>50,00,00,000</b>	<b>50,00,00,000</b>
<b>Schedule 2: Reserve and Surplus</b>		
Capital reserve	1,00,000	1,00,000
(Nominal amount for 100 acres of Land allotted free of cost by the Government of Rajasthan to the Institute)	1,00,000	1,00,000
<b>Schedule 3: Loan Fund</b>		
Loan from Lakshmi & Usha Mittal Foundation*	22,48,65,000	22,48,65,000
Bank Cash Credit	516	66,45,065
	<b>22,48,65,516</b>	<b>23,15,10,065</b>

\* Terms: Interest free loan.

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THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University )

Schedules to the Accounts

Schedule 4: Fixed Assets

R.s.

S.No.	DESCRIPTION	GROSS BLOCK			DEPRECIATION			NET BLOCK	
		As at April 1, 2013	Additions during the year	Deductions during the year	As at April 1, 2013	Additions during the year	Sale/Adjustment	As at March 31, 2014	As at March 31, 2013
<b>1</b>	COMPUTERS AND COMPUTER ACCESSORIES	4,38,31,850	82,30,066	66,10,679	4,54,51,237	3,71,83,950	75,49,364	65,45,090	3,81,88,223
<b>2</b>	AIR CONDITIONERS AND AIR COOLING	1,79,18,004	1,68,006	4,11,050	1,86,74,960	1,13,77,550	11,02,167	2,88,427	1,21,91,299
<b>3</b>	ELECTRICAL AND OTHER EQUIPMENTS	6,57,11,656	1,21,91,147	45,55,969	7,33,46,834	3,43,05,452	63,93,094	33,29,261	3,73,69,285
<b>4</b>	FURNITURE & FIXTURES	6,50,35,223	47,95,835	16,59,316	6,81,71,742	2,91,70,078	42,36,385	8,82,171	3,25,24,292
<b>5</b>	LIBRARY BOOKS	50,66,997	9,68,284	-	60,35,281	50,66,997	9,68,284	-	60,35,281
<b>6</b>	VEHICLES CAR,AMBULANCE & SCOOTER	29,06,420	-	38,675	28,67,745	9,49,709	2,93,507	31,957	12,11,259
<b>7</b>	BUILDINGS	63,83,90,295	2,71,82,674	66,54,82,969	20,22,95,157	4,0,108,766	-	24,24,03,923	42,30,79,046
<b>8</b>	LAND	1,00,000	-	1,00,000	-	-	-	-	1,00,000
<b>TOTAL (A)</b>		<b>83,88,70,445</b>	<b>5,45,16,012</b>	<b>1,32,75,689</b>	<b>88,01,30,768</b>	<b>32,03,48,902</b>	<b>6,06,51,567</b>	<b>1,10,76,906</b>	<b>36,99,23,562</b>
<b>CAPITAL WORK IN PROGRESS (B)</b>									
<b>TOTAL (A+B)</b>									
PREVIOUS YEAR		56,62,54,490	27,26,15,955	-	83,88,70,445	26,93,86,570	5,09,62,332	-	32,03,48,902
									51,88,21,543



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**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**


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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
*(Deemed University)*
**Schedules to the Accounts**

	March 31, 2014	March 31, 2013
	Rs.	Rs.

**Schedule 5: Cash and Bank Balances**

Cash on hand	28,892	13,617
Balances with scheduled banks:		
-On Deposit accounts (Includes Rs. 50,000,000; Previous Year Rs. 50,000,000 as per requirement of University Grant Commission )	10,02,93,092	11,51,71,671
-On Savings Accounts	3,86,05,384	42,22,275

**Schedule 6: Other Current Assets**

Interest accrued but not due	19,15,832	47,09,175
	<u>19,15,832</u>	<u>47,09,175</u>

**Schedule 7: Loans and Advances**
*(Unsecured, considered good)*

Advances recoverable in cash or in kind for the value to be received	31,14,707	15,87,546
Tax deducted at source receivable	35,55,121	24,51,771
Security deposits	18,08,644	17,94,144
	<u>84,78,472</u>	<u>58,33,461</u>

*(Unsecured, considered doubtful)*

Advances recoverable in cash or in kind for the value to be received	24,930	3,36,025
Less: Provision for doubtful advances	(24,930)	(3,36,025)
	<u>-</u>	<u>-</u>

**Schedule 8: Current Liabilities**
**Fund Balance (A)**

Research Fund	38,32,063	225
Students Mess Fund	1,09,22,594	51,08,780
Digital Library Fund	10,00,951	29,52,545
LNM IIT Alumni Association	22,18,200	13,21,202
LNM IIT Endowment Fund	14,30,405	12,73,720
Student Welfare Fund	8,14,710	7,47,994
Building Fund	24,49,216	
Temple Fund	50,495	47,503
	<u>227,18,634</u>	<u>1,14,51,969</u>

**Other Liabilities (B)**

Retention money - Contractors	1,00,86,961	82,74,840
Security Deposit	14,22,222	7,80,000
Caution money - Students	1,15,95,000	88,05,000
Sundry creditors	80,85,684	1,14,08,945
Sundry creditors- Capital	41,80,336	75,92,792
Book overdraft	9,58,265	4,23,857
Statutory liabilities	24,94,465	14,90,615
	<u>3,88,22,933</u>	<u>3,87,76,049</u>

**Total**
**(A)+(B)**
**6,15,41,567**
**5,02,28,018**
**Schedule 9: Provisions**

Provision for gratuity	17,66,709	9,71,634
Provision for Leave Encasement	34,02,962	14,54,227
	<u>51,69,671</u>	<u>24,25,861</u>



**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**
**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University )**
**Schedules to the Accounts**

	March 31, 2014 Rs.	March 31, 2013 Rs.
<b>Schedule 10: Fee Income</b>		
Registration fees	76,14,000	64,47,000
Tuition fees and others	16,20,43,176	12,60,70,861
Admission & application fees	57,52,397	79,50,880
Hostel charges	3,99,08,291	3,50,58,208
Mess establishment charges	24,44,000	21,36,000
	<b><u>21,77,61,864</u></b>	<b><u>17,76,62,949</u></b>

**Schedule 11: Other Income**

Interest on:		
Bank deposits (Gross, Tax deducted at source Rs. 327,992, Previous Year Rs. 388,982)	1,07,68,307	1,32,01,030
Rental income from mess, utility shops for students, others	5,59,235	12,13,041
Receipts from guest house	1,89,577	1,41,430
Others	<u>10,94,937</u>	<u>3,54,313</u>
	<b><u>1,26,12,056</u></b>	<b><u>1,49,09,814</u></b>

**Schedule 12: Personnel Expenses**

Salaries and allowances	6,57,42,285	5,01,71,537
Visiting faculty honorarium	70,08,914	72,88,260
Staff welfare expenses	4,58,703	2,89,044
Employer contribution to provident and other funds	54,78,786	35,53,811
Gratuity expenses	<u>26,83,195</u>	<u>17,30,626</u>
	<b><u>8,13,71,883</u></b>	<b><u>6,30,33,278</u></b>

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**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**


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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
 (Deemed University)

**Schedules to the Accounts**

	March 31, 2014 Rs.	March 31, 2013 Rs.
<b>Schedule 13: Administrative Expenses</b>		
Electricity expenses	1,53,03,205	1,29,31,904
Insurance	4,75,778	3,39,949
Repair and maintenance	1,19,45,953	1,31,99,512
Counseling Expenses	19,99,938	9,18,892
Recruitment Expenses	-	8,49,310
Advertisement and publicity expenses	70,18,699	35,83,718
Traveling & conveyance expenses	57,09,985	62,24,109
Communication expenses	22,29,506	11,31,965
Printing and stationery	19,67,202	13,48,241
House keeping and office maintenance expenses	56,25,272	60,22,432
Security expenses	43,72,020	37,17,886
Plantation/Gardening Exp.	24,34,897	20,12,211
Students activities expenses / Gymkhana expenses	1,06,35,087	84,94,038
Seminar & conference	12,35,188	1,23,827
Books and periodicals	1,78,466	1,53,962
Legal & professional expenses	12,98,134	4,86,256
Auditor's remuneration		
-Audit fees	6,36,550	5,35,546
-Out of pocket expenses	17,100	41,315
Bank charges	2,02,092	21,781
Provision for doubtful advances	-	3,11,095
Loss on fixed assets written off	20,32,725	-
Miscellaneous expenses	18,83,519	20,69,902
	<b>7,72,01,316</b>	<b>6,45,17,851</b>
<b>Schedule 14: Financial Expenses</b>		
Interest on Overdraft/Cash Credit	6,19,160	42,933
	<b>6,19,160</b>	<b>42,933</b>

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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
**(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2014**  
 (Unless otherwise mentioned, all amounts are in Indian Rupees)

**SCHEDULE 15: Notes to Accounts**

**1. Nature of Operations**

The LNM Institute of Information Technology ('Institute'), an autonomous non-profit organization is jointly set up by the Government of Rajasthan and Lakshmi & Usha Mittal Foundation and is a deemed University as declared by the Government of India under Section 3 of UGC Act, 1956. The Institute is in Jaipur and is registered under Rajasthan Societies Registration Act, 1958. The objective of the institute is to produce leading professionals in the field of Information Technology with a proper blend of communication, computers, management and social awareness.

**2. Statement of Significant Accounting Policies**

**a) Basis of preparation**

The financial statements have been prepared to comply in all material respects with the Notified Accounting Standards issued by the Institute of Chartered Accountants of India. The financial statements have been prepared under the historical cost convention on an accrual basis except revenue from fees which is recognized on receipt basis. The accounting policies have been consistently applied by the Institute and are consistent with those used in the previous year.

**b) Use of estimates**

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent liabilities at the date of the financial statements and the results of operations during the reporting period. Although these estimates are based upon management's best knowledge of current events and actions, actual results could differ from these estimates.

**c) Fixed Assets**

Fixed assets are stated at cost, less accumulated depreciation. Cost comprises the purchase price and any directly attributable cost of bringing the asset to its working condition for its intended use. Financing costs relating to acquisition of fixed assets are also included to the extent they relate to the period till such assets are ready to be put to use.

**d) Depreciation**

Depreciation on assets is calculated on Written Down Method as per method and rates specified in the Income Tax Act, 1961 except for library books and assets costing upto Rs. 5,000 which are depreciated fully in the year of purchase.

<b>Assets</b>	<b>Rates (%) (WDV)</b>
Computers and Computers accessories	60.00
Air Conditioners and Air Cooling	15.00
Electrical and other equipments	15.00
Furniture and fixtures	10.00
Library Books	100.00
Vehicles	15.00
Buildings Residential	5.00
Buildings Commercial	10.00



**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
**(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2014**  
 (Unless otherwise mentioned, all amounts are in Indian Rupees)

**e) The carrying amounts of assets are reviewed at each balance sheet date if there is any indication of impairment based on internal/external factors. An impairment loss is recognized wherever the carrying amount of an asset exceeds its recoverable amount. The recoverable amount is the greater of the asset's net selling price and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value at the weighted average cost of capital.**

**f) Expenditure on new projects and substantial expansion**

Expenditure directly relating to construction activity is capitalized. Indirect expenditure incurred during construction period is capitalised as part of the indirect construction cost to the extent to which the expenditure is indirectly related to construction or is incidental thereto. These expenditures are shown as Capital Work in Progress. Other indirect expenditure (including borrowing costs) incurred during the construction period which is not related to the construction activity nor is incidental thereto is charged to the Profit and Loss Account. Income earned during construction period is deducted from the total of the indirect expenditure.

**g) Retirement Benefits**

- i. Retirement benefit in the form of Provident Fund is a defined contribution scheme and the contributions are charged to the Profit and Loss Account of the year when the contributions to the respective funds are due. There are no other obligations other than the contribution payable to the respective fund.
- ii. Gratuity liability is defined benefit obligation and is provided for on the basis of an actuarial valuation on projected unit credit method made at the end of each financial year.
- iii. Actuarial gains/losses are immediately taken to profit and loss account and are not deferred.

**h) Government grants and subsidies**

Grants from the government are recognized when there is reasonable assurance that the grant/subsidy will be received and all attaching conditions will be complied with. Government Grant received in the form of non monetary assets is free of cost, and is recorded at Nominal value.

**i) Revenue Recognition**

**i. Income from Students Fees**

The revenue from students fees is recognized on receipt basis. Fees is collected in advance two times in a year, once in July for the months July to December and then in January for January to June.

**ii. Interest**

Revenue is recognised on a time proportion basis taking into account the amount outstanding and the rate applicable.

**j) Provisions**

A provision is recognized when an enterprise has a present obligation as a result of past event; it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made. Provisions are not discounted to its present value and are determined based on best estimate required to settle the obligation at the balance sheet date. These are reviewed at each balance sheet date and adjusted to reflect the current best estimates.

3. Institute has conducted the physical verification of Fixed Assets in the current year. There has been shortage of fixed assets amounting to Rs. 2,740,964 (Gross) (written down value Rs. Nil) and fixed assets lying unused amounting to Rs. 10,368,668 (Gross) (written down value Rs. 2,070,517). Adjustments have been made for these fixed assets in the books of account.



**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31, 2014**  
(Unless otherwise mentioned, all amounts are in Indian Rupees)

4. (i) Management is in the process of strengthening its internal control environment in respect of certain procedures related to ensuring statutory compliances with respect to various labour laws (including Employee State Insurance Act, Statutory Bonus Act, Factories Act etc.) by contractors/ service providers, maintenance of attendance & leave records (except junior non-academic staff) and maintenance of records related to renting of the Institute's infrastructure to the outside agencies

(ii) Management is in the process of strengthening its internal control environment in respect of maintenance of records related to government grants/ sponsorship projects, ensuring existence/ custody of assets purchased out of grant proceeds etc; and compliance with their terms and conditions.

The management is of the opinion that there would not be any material adjustment due to the above mentioned control matters.

5. Previous year's figures have been regrouped where necessary to conform to current year's classification.

In terms of our report of even date.

**For S.R. Batliboi & Co. LLP**  
**ICAI Firm Registration No. 301003E**  
**Chartered Accountants**

per Yogeshwar Seth  
Partner  
Membership No. 94524  
Gurgaon  
Date: 30/9/2014



For The LNM Institute of Information Technology

Member of  
Governing Council

Member of Governing  
Council



## **Balance Sheets – 2015**

**The LNM Institute of Information Technology  
Statutory Audit for the year ended March 31, 2015**



**KALANI & CO.**  
CHARTERED ACCOUNTANTS

#### **INDEPENDENT AUDITOR'S REPORT**

**To the Members of Governing Council of LNM Institute of Information Technology**

##### **Report on the Financial Statements**

We have audited the accompanying financial statements of LNM Institute of Information Technology ('the Institute'), which comprise the Balance Sheet as at March 31, 2015, and the Income and Expenditure Account for the year then ended, and a summary of Significant Accounting Policies and other Explanatory information.

##### **Management's Responsibility for the Financial Statements**

Institute's Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Institute in accordance with Accounting Principles generally accepted in India, including the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI). This responsibility includes the design, implementation and maintenance of Internal Control relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

##### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the Auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the Auditor considers Internal Control relevant to the Institute's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our Audit opinion.



Office: 705 VII<sup>th</sup> Floor Milestone Building, Gandhi Nagar, Crossing, Tonk Road, Jaipur-302015



**KALANI & CO.**  
CHARTERED ACCOUNTANTS

**Opinion**

In our opinion and to the best of our information and according to the explanations given to us, the financial statements give a true and fair view in conformity with the Accounting Principles generally accepted in India including the Accounting Standards issued by the Institute of Chartered Accountants of India (ICAI).

- i. in the case of the Balance Sheet, of the State of Affairs of the Institute as at March 31, 2015; and
- ii. in the case of the Income and Expenditure Account, the excess of Income over Expenditure for the year then ended.

For Kalani & Company,  
Chartered Accountants,  
FRN 000Z22C

  
Vikas Gupta  
Partner  
M. No. 077076

  
Place of Signature: Jaipur  
Dated: 12 SEP 2015

**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**
**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**

(Deemed University )

Balance Sheet as at March 31, 2015

	Schedules	March 31, 2015 (Rs)	March 31, 2014 (Rs)
<b>Sources of Funds</b>			
Corpus/ Capital fund	1	500,000,000	500,000,000
Reserves and Surplus	2	100,000	100,000
<b>Fund Balances</b>	<b>3</b>	<b>12,548,466</b>	<b>8,744,568</b>
<b>Loan Fund</b>			
Unsecured Loans	4	224,865,000	224,865,000
<b>Total</b>		<b>737,513,466</b>	<b>733,709,568</b>
<b>Application of Funds</b>			
Fixed Assets	5		
Gross Block		968,105,019	880,130,768
Less: Accumulated Depreciation/Amortisation		441,075,998	369,923,562
Net Block		527,029,021	510,207,206
Capital Work in Progress		26,693	14,130,545
		527,055,714	524,337,751
<b>Current Assets, Loans &amp; Advances</b>			
Cash and Bank balances	6	133,942,066	138,927,368
Other current assets	7	2,619,503	1,915,832
Loans and Advances	8	13,641,550	8,453,542
<b>(A)</b>		<b>150,203,119</b>	<b>149,296,742</b>
<b>Less: Current Liabilities &amp; Provisions</b>			
Current Liabilities	9	42,506,391	52,772,585
Provisions	10	10,026,948	5,169,671
<b>(B)</b>		<b>52,533,339</b>	<b>57,942,256</b>
<b>Net Current Assets (A-B)</b>		<b>97,669,780</b>	<b>91,354,486</b>
<b>Income and Expenditure A/c (Accumulated Deficit)</b>		<b>112,787,972</b>	<b>118,017,331</b>
<b>Total</b>		<b>737,513,466</b>	<b>733,709,568</b>

**Significant Accounting Policies & Notes on Accounts**

16

The schedules referred to above and the notes to accounts form an integral part of the Balance Sheet.

In Terms of our Audit Report of even date

For Kalani & Company,  
 Chartered Accountants,  
 Firm Registration No. 000722C

Vikas Gupta  
 Partner  
 Membership No. 077076



12 SEP 2015

For The LNM Institute of Information Technology

  
 Member of  
 Governing Council

  
 Member of  
 Governing Council



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**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**


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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**

(Deemed University )

Income and Expenditure Account for the year ended March 31, 2015

	Schedules	March 31, 2015 (Rs)	March 31, 2014 (Rs)
<b>Income</b>			
Fee Income	11	241,670,403	217,761,864
Other Income	12	17,362,685	12,612,056
<b>Total</b>		<b>259,033,088</b>	<b>230,373,920</b>
<b>Expenditure</b>			
Personnel Expenses	13	103,176,157	81,000,789
Administrative Expenses	14	79,471,462	77,572,410
Depreciation/Amortisation	5	71,152,436	60,651,567
Financial Expenses	15	3,674	619,160
<b>Total</b>		<b>253,803,729</b>	<b>219,843,926</b>
<b>Balance being Excess of Income over Expenditure</b>		<b>5,229,359</b>	<b>10,529,994</b>
Balance of (Deficit) brought forward from previous year		<b>(118,017,331)</b>	<b>(128,547,325)</b>
<b>Balance being (deficit) carried to Balance Sheet</b>		<b>(112,787,972)</b>	<b>(118,017,331)</b>

**Significant Accounting Policies & Notes on Accounts**

16

The schedules referred to above and the notes to accounts form an integral part of the Income and Expenditure Account.

In Terms of our Audit Report of even date

For Kalani & Company,  
 Chartered Accountants,  
 Firm Registration No. 000722C

Vikas Gupta  
 Partner  
 Membership No. 077076



12 SEP 2015

For The LNM Institute of Information Technology

  
 Member of  
 Governing Council

  
 Member of  
 Governing Council



**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**

THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University)

**Schedules to the Accounts**

	March 31, 2015 Rs.	March 31, 2014 Rs.
<b>Schedule 1: Corpus/ Capital fund</b>		
Opening balance	500,000,000	500,000,000
(Represent amounts received from Lakshmi & Usha Mittal Foundation Rs. 350,000,000 (Previous Year Rs. 350,000,000) and from Government of Rajasthan Rs. 150,000,000 (Previous Year Rs. 150,000,000))	<u>500,000,000</u>	<u>500,000,000</u>
<b>Schedule 2: Reserve and Surplus</b>		
Capital Reserve	100,000	100,000
(Nominal amount for 100 acres of Land allotted free of cost by the Government of Rajasthan to the Institute)	<u>100,000</u>	<u>100,000</u>
<b>Schedule 4: Loan Fund (Unsecured)</b>		
Loan from Lakshmi & Usha Mittal Foundation	224,865,000	224,865,000
	<u>224,865,000</u>	<u>224,865,000</u>

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**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**


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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
 (Deemed University )

**Schedules to the Accounts**

	March 31, 2015 Rs.	March 31, 2014 Rs.
<b>Schedule 3: Fund Balances *</b>		
Mess Fund	2,065,669	1,832,037
Alumni Association	2,857,132	2,218,200
Endowment Fund	1,677,910	1,430,405
Student Welfare Fund	1,027,539	814,710
Building Fund	4,920,216	2,449,216
	<u>12,548,466</u>	<u>8,744,568</u>

**\* Detail of Fund Balances**

(Amount in Rs)

Opening Balance of Fund	Opening Balance of Current Liability (CL)	Received / Collection during the year	Interest earned on earmarked funds	Total	Utilization / Refunds during the year	Amount Payable / Refundable (Transferred to CL)	Closing Balance
<b>Mess Fund</b>							
1,832,037	9,090,557	32,706,834	294,529	43,923,957	35,539,919	6,318,369	2,065,669
<b>Alumni Association</b>							
2,218,200	-	480,000	168,446	2,866,646	9,514	-	2,857,132
<b>Endowment Fund</b>							
1,430,405	-	137,750	119,940	1,688,095	10,185	-	1,677,910
<b>Student Welfare Fund</b>							
814,710	-	193,700	30,096	1,038,506	10,967	-	1,027,539
<b>Building Fund</b>							
2,449,216	-	2,579,000	-	5,028,216	108,000	-	4,920,216



THE LNM INSTITUTE OF INFORMATION TECHNOLOGY (Deemed University)  
BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT  
Fixed Assets - Schedule 5

S.No.	DESCRIPTION	GROSS BLOCK			DEPRECIATION / AMORTISATION			NET BLOCK			
		As at 1.4.2014	Additions during the year	Deductions during the year	Cost / Valuation as at the year end	As at 1.4.2014	Additions during the year	Sale/Adjustment	Total Dep. Till Date	As at current year end 2015	As at previous year end 2014
1	COMPUTERS AND COMPUTERS ACCESSORIES	45,451,237	19,439,921	-	64,891,158	38,188,223.00	14,367,607.45	-	52,555,830.45	12,335,328	7,264,014
2	AIR CONDITIONERS AND AIR COOLING	18,674,960	7,723,645	-	26,398,605	12,191,299.00	2,063,115.45	-	14,254,414.45	12,144,191	6,483,661
3	ELECTRICAL AND OTHER EQUIPMENTS	73,346,834	6,278,477	-	79,625,311	37,369,285.00	6,106,428.13	-	43,475,713.13	36,149,598	35,977,540
4	FURNITURE & FIXTURES	68,171,742	9,303,019	-	77,474,761	32,524,292.00	4,359,441.85	-	36,883,733.85	40,591,027	35,647,450
5	LIBRARY BOOKS	6,035,281	642,143	-	6,677,424	6,035,281.00	642,143.00	-	6,677,424.00	-	-
6	VEHICLES CAR,AMBULANCE & SCOOTER	2,867,745	-	-	2,867,745	1,211,259.00	248,473.20	-	1,459,732.20	1,408,013	1,636,486
7	BUILDINGS	665,482,969	44,587,046	-	710,070,015	242,403,923.00	43,365,228.35	-	285,769,151.35	424,300,864	423,079,046
8	LAND	100,000	-	-	100,000	-	-	-	-	100,000	100,000
<b>TOTAL (A)</b>		<b>880,130,768</b>	<b>87,974,251</b>	-	<b>968,105,019</b>	<b>369,923,562.00</b>	<b>71,152,436.43</b>	-	<b>441,075,998.43</b>	<b>510,207,206</b>	<b>527,029,021</b>
<b>CAPITAL WORK IN PROGRESS (B)</b>											
<b>TOTAL (A+B)</b>											
PREVIOUS YEAR		838,870,445	54,536,012	13,275,689	880,130,768	320,348,902.00	60,651,567	11,076,906	369,923,562.00	527,085,714	524,337,781
PREVIOUS YEAR											



**BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT**

**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
(Deemed University)

**Schedules to the Accounts**

	March 31, 2015 Rs.	March 31, 2014 Rs.
<b>Schedule 6: Cash and Bank Balances</b>		
Cash on hand	63,245	28,892
Balances with scheduled banks:		
-On Deposit Accounts		
-Earmarked Funds		
Alumni Association Fund	2,126,573	1,275,573
Mess Fund	6,000,000	-
Endowment Fund	1,269,150	1,229,883
Research Fund	6,000,000	-
Student Welfare Fund	346,425	287,636
-Others (Includes Rs. 50,00,000; Previous Year Rs. 50,00,000 as per requirement of University Grant Commission)	111,500,000	97,500,000
-On Savings Accounts		
-Earmarked Funds		
Alumni Association Fund	629,913	142,537
Mess Fund	550,104	6,694,807
Endowment Fund	6,749	9,576
Research Fund	309,922	4,169,603
Student Welfare Fund	2,350	1,830
Gymkhana Fund	15,331	2,216
-Others	<u>5,122,304</u>	<u>27,584,815</u>
	<u>133,942,866</u>	<u>138,927,368</u>
<b>Schedule 7: Other Current Assets</b>		
Interest accrued but not due on Deposits	<u>2,619,503</u>	<u>1,915,832</u>
	<u>2,619,503</u>	<u>1,915,832</u>
<b>Schedule 8: Loans and Advances</b> <i>(Unsecured &amp; considered good)</i>		
Advances recoverable in cash or in kind for which value to be received	7,137,531	3,089,777
Tax deducted at source (receivable)	4,704,375	3,555,121
Security Deposits	1,799,644	1,808,644
	<u>13,641,550</u>	<u>8,453,542</u>
<i>(Unsecured &amp; considered doubtful)</i>		
Advances recoverable in cash or in kind for the value to be received	24,930	24,930
Less: Provision for doubtful advances	(24,930)	(24,930)
	-	-
	<u>13,641,550</u>	<u>8,453,542</u>
<b>Schedule 9: Current Liabilities</b>		
Retention money - Contractors	2,422,910	10,086,961
Security Money	1,119,080	1,422,222
Caution Money - Students (Repayable within one year Rs. 36,93,000 Previous Year Rs. 17,84,000)	11,870,000	11,595,000
Sundry Creditors	10,892,744	8,060,754
Sundry Creditors- Capital	2,234,951	4,180,336
Book overdraft	-	958,781
Students Mess Fund (Payable balance carried from Schedule-3)	6,318,369	9,090,557
Unutilized Contributions / Balances		
Digital Library	-	1,000,951
LNM Research Work	6,107,608	3,832,063
Temple Collection	24,608	50,495
Statutory Liabilities	<u>1,516,121</u>	<u>2,494,465</u>
	<u>42,506,391</u>	<u>52,772,585</u>
<b>Schedule 10: Provisions*</b>		
Gratuity	3,976,662	1,766,709
Leave Encasement	6,050,286	3,402,962
	<u>10,026,948</u>	<u>5,169,671</u>

\* As per Actuarial Valuation - Refer Note No. C-3 & C-4 of Significant Accounting Policies & Notes on Accounts (Schedule - 16)



## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

 THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University)

## Schedules to the Accounts

	March 31, 2015 Rs.	March 31, 2014 Rs.
<b>Schedule 11: Fee Income</b>		
Registration fees	7,452,700	7,614,000
Tuition fees	165,865,325	162,043,176
Admission & application fees	7,926,127	5,752,397
Hostel charges	40,890,470	39,908,291
Other charges/fee	17,162,781	-
Mess establishment charges	2,463,000	2,444,000
Penalty from Students	1,78,700	-
Less: Transfer to Student Welfare Fund	<u>1,78,700</u>	<u>-</u>
	<u>241,670,403</u>	<u>217,761,864</u>

## Schedule 12: Other Income

Interest on:		
Bank deposits*		
Deposits related to Earmarked Funds*	8,89,878	11,106,906
Less: Transferred to respective funds		
LNM IIT Alumni Association	1,68,446	-
Mess Fund	2,94,529	-
LNM IIT Endowment Fund	1,19,940	-
LNMIT Gymkhana Fund	476	-
LNM Research Fund	2,76,391	-
Student Welfare Fund	<u>30,096</u>	<u>-</u>
Rental income from mess, utility shops for students, others	1,471,419	559,235
Receipts from guest house	348,067	189,577
Liabilities no more payable	2,083,349	-
Others	<u>2,352,944</u>	<u>1,094,937</u>
	<u>17,362,685</u>	<u>12,612,056</u>

\*(Gross Tax deducted at source Rs. 327,992, Previous Year Rs. 388,982)

## Schedule 13: Personnel Expenses

Salaries and Allowances	81,500,347	63,572,007
Visiting faculty honorarium	4,095,990	7,008,914
Outsourced Academic Expenses	3,538,778	-
Employer contribution to provident and other funds	7,733,516	5,478,786
Employees Group Medical Insurance	550,947	5,849
Group Gratuity Insurance premium	76,368	81,760
Leave Encashment	3,075,811	2,170,278
Gratuity	<u>2,604,460</u>	<u>2,683,195</u>
	<u>103,176,157</u>	<u>81,000,789</u>

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## BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT

 THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
 (Deemed University )

## Schedules to the Accounts

	March 31, 2015 Rs.	March 31, 2014 Rs.
<b>Schedule 14: Administrative Expenses</b>		
Electricity expenses	15,338,242	15,303,205
Insurance	341,075	388,169
Repair and maintenance	12,982,035	11,945,953
Counseling Expenses	1,259,135	1,999,938
Advertisement and publicity expenses	6,398,928	7,018,699
Traveling & conveyance expenses	5,472,365	5,709,985
Communication expenses	2,512,284	2,229,506
Printing and stationery	2,587,917	1,967,202
House keeping and office maintenance expenses	5,940,601	5,625,272
Security expenses	4,901,336	4,372,020
Plantation/Gardening Exp.	2,215,657	2,434,897
Student activities expenses / Gymkhana expenses	13,904,292	10,635,087
Seminar & Conference	479,858	1,235,188
Books and periodicals	663,378	178,466
Legal & professional expenses	895,631	1,298,134
Auditor's remuneration		
-Audit Fee	456,000	636,550
-Out of pocket Expenses	9,225	17,100
Bank charges	383,686	202,092
Advances and other balances written off	69,726	-
Loss on fixed assets written off	-	2,032,725
Miscellaneous Expenses	2,740,090	2,342,222
	<b>79,471,462</b>	<b>77,572,410</b>
<b>Schedule 15: Financial Expenses</b>		
Interest on Overdraft/Cash Credit	3,674	619,160
	<b>3,674</b>	<b>619,160</b>

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**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY  
(Deemed University)**

**SCHEDULE ANNEXED TO AND FORMING PART OF THE ACCOUNTS AS AT MARCH 31,  
2015**

(Unless otherwise mentioned, all amounts are in Indian Rupees)

**SCHEDULE: 16 - SIGNIFICANT ACCOUNTING POLICIES & NOTES TO ACCOUNTS**

**A. NATURE OF OPERATIONS**

The LNM Institute of Information Technology ('Institute'), an autonomous Non-profit organization is jointly set up by the Government of Rajasthan and Lakshmi & Usha Mittal Foundation and is a deemed University as declared by the Government of India under Section 3 of UGC Act, 1956. The Institute is situated at Jaipur and is registered under Rajasthan Societies Registration Act, 1958. The objective of the institute is to produce leading Professionals in the field of Information Technology with a proper blend of communication, computers, management and social awareness.

**B. SIGNIFICANT ACCOUNTING POLICIES**

**1) Basis of Preparation**

The financial statements have been prepared to comply in all material respects with the Notified Accounting Standards issued by the Institute of Chartered Accountants of India. The financial statements have been prepared under the historical cost convention on an accrual basis except revenue from fees which is recognized on receipt basis. The accounting policies have been consistently applied by the Institute and are consistent with those used in the previous year.

**2) Use of Estimates**

The preparation of financial statements in conformity with generally accepted accounting principles requires the management to make estimates and assumptions that affect the reported amounts of Assets and Liabilities and disclosure of contingent liabilities at the date of the financial statements and the results of operations during the reporting period. Although these estimates are based upon management's best knowledge of current events and actions, actual results could differ from these estimates.

**3) Fixed Assets**

Fixed assets are stated at cost, less accumulated depreciation. Cost comprises the purchase price and any directly attributable cost of bringing the asset to its working condition for its intended use. Financing costs relating to acquisition of fixed assets are also included to the extent they relate to the period till such assets are ready to be put to use.



**THE LNM INSTITUTE OF INFORMATION TECHNOLOGY**  
 (Deemed University)

#### 4) Depreciation

Depreciation on Assets is calculated on Written down method (w.d.v) as per the rates specified in the Income Tax Act, 1961 except for library books and assets costing upto Rs. 5,000/-, which are depreciated fully in the year of purchase. The present rates of depreciation are as under:-

Particulars of Asset	Rates (%) (WDV)
Computers and Computers accessories	60
Air Conditioners and Air Cooling	15
Electrical and other Equipment	15
Furniture and fixtures	10
Library Books	100
Vehicles	15
Buildings Residential	5
Buildings Commercial	10

#### 5) Impairment

The carrying amounts of assets are reviewed at each balance sheet date if there is any indication of impairment based on internal/external factors. An impairment loss is recognized wherever the carrying amount of an assets exceeds its recoverable amount. The recoverable amount is the greater of the asset's net selling price and value in use. In assessing value in use, the estimated future cash flows are discounted to their present value at the weighted average cost of capital.

#### 6) Expenditure on new projects and substantial expansion

Expenditure directly relating to construction activity is capitalized. Indirect expenditure incurred during construction period is capitalised as part of the indirect construction cost to the extent to which the expenditure is indirectly related to construction or is incidental thereto. These expenditures are shown as Capital Work in Progress. Other indirect expenditure (including borrowing costs) incurred during the construction period which is not related to the construction activity nor is incidental thereto is charged to the Income and Expenditure Account. Income earned during construction period is deducted from the total of the indirect expenditure.

#### 7) Employee Benefits

- Employee benefit in the form of Provident Fund is a defined contribution scheme and such contributions are charged to the Income and Expenditure of the year when the contributions to the respective funds are due. There are no other obligations other than the contribution payable to the respective fund.
- Gratuity and Leave Encashment liabilities are defined benefit obligations and are provided for on the basis of an actuarial valuation on projected unit credit method made at the end of each financial year. Actuarial gains/losses are immediately taken to profit and loss account and are not deferred. The society has funded the Gratuity Liability under the Group Gratuity Scheme of LIC of India. The liability of Leave Encashment is unfunded.



**8) Government Grants and Subsidies**

Grants from the government are recognized when there is reasonable assurance that the grant/subsidy will be received and all attaching conditions will be complied with. Government Grant received in the form of non-monetary assets is free of cost, and is recorded at Nominal value.

**9) Revenue Recognition**
**a) Income from Students Fees**

The revenue from student fees is recognised on receipt basis. Fees is collected in advance two times in a year, once in July for the months July to December and then in January for January to June.

**b) Interest**

Interest income is recognised on time proportion basis taking into account the amount outstanding and the rate applicable.

**10) Provisions**

A provision is recognized when an enterprise has a present obligation as a result of past event; it is probable that an outflow of resources will be required to settle the obligation, in respect of which a reliable estimate can be made. Provisions are not discounted to its present value and are determined based on best estimate required to settle the obligation at the balance sheet date. These are reviewed at each balance sheet date and adjusted to reflect the current best estimates.

**C. NOTES ON ACCOUNTS**

1) There was no contingent liability as on 31-03-2015.

**2) Gratuity**

The Institute has defined benefit gratuity plan. Every employee who has rendered continuous service of five years or more is entitled to get gratuity at 15 days for each completed year or more subject to provisions of The Payment of Gratuity Act, 1972. Company has invested to meet such liability with Life Insurance Corporation of India under Group Gratuity Scheme. The liability for the same is recognized as per actuarial valuation report by Nalin Kapadia Actuarial & Financial Consultants, Mumbai.

Actuarial Assumptions:	2014-15
Discount Rate (p.a)	7.8% per annum
Mortality	Indian Assured Lives Mortality (2006-08)
Withdrawal Rate	1% to 3% depending on age
Salary Escalation (p.a)	7%
Expected Rate of Return (p.a)	8.75%
Valuation Method	Projected Unit Credit Method
Particulars	2014-15
<b>1. Table showing changes in PV of Obligations</b>	
PV of Obligation as at the beginning of year	61,94,589



Interest Cost	4,76,634
Current Service Cost	15,69,873
Actuarial (gain)/loss on obligations	7,89,166
Benefits Paid	(6,95,209)
<b>Present value of obligations as at end of year</b>	<b>83,35,053</b>
<b>2. Table showing Changes in the Fair Value of Plan Assets</b>	
FV of planned assets at the beginning of the year	44,27,880
Expenses deducted from the fund	(91,396)
Expected return on plan assets	3,89,866
Actuarial gain / (loss)	9,855
Contributions made	2,65,264
Benefits Paid	(6,43,078)
<b>FV of planned assets at the end of the year</b>	<b>43,58,391</b>
<b>3. Funded Status of the Plan</b>	
PV of obligation as at the end of the year	83,35,053
FV of planned assets at the end of the year	43,58,391
Funded Status	(39,76,662)
<b>Net Assets/(Liability) recognized in the balance sheet</b>	<b>(39,76,662)</b>
<b>4. Exp. Recognized</b>	
Current Service Cost	15,69,873
Interest Cost	4,76,634
Expected Return on plan assets	(3,89,866)
Net Actuarial (gain)/loss	7,79,311

The Value of plan assets and present obligation at the end of the year was Rs. 43,58,391/- and 83,35,053/- respectively. Net Liability of Rs 39,76,662/- has been recognised in the Balance Sheet. The benefits paid includes Rs.6,43,078/-, paid by LIC in May, 2015 for an employee retired in August, 2014.

### 3) Leave Encashment

The benefits are governed by the Company's Leave Policy and are payable to employees only on resignation, retirement or discontinuation from service. Maximum accumulation permitted is 60 days. The liability is unfunded and is recognized as per actuarial valuation report by Nalin Kapadia Actuarial & Financial Consultants, Mumbai.

<b>Actuarial Assumptions:</b>	<b>2014-15</b>
Discount Rate (p.a)	7.8% per annum
Mortality	Indian Assured Lives Mortality (2006-08)
Withdrawal Rate	1% to 3% depending on age
Salary Escalation (p.a)	7%
Expected Rate of Return (p.a)	Not Applicable
Leave Availment rate (p.a)	0.5% in all ages
Valuation Method	Projected Unit Credit Method



Particulars	2014-15
<b>1. Table showing changes in PV of Obligations</b>	
PV of Obligation as at the beginning of year	<b>34,02,962</b>
Interest Cost	2,60,309
Current Service Cost	18,78,778
Actuarial(gain)/loss on obligations	9,36,724
Benefits Paid	(4,28,487)
Benefits Payable	-
<b>Present value of obligations as at end of year</b>	<b>60,50,286</b>
<b>2. Table showing Changes in the Fair Value of Plan Assets</b>	
FV at the beginning and closing of the year	-
<b>3. Funded Status of the Plan</b>	
PV of obligation as at the end of the year	60,50,286
FV of planned assets at the end of the year	-
Funded Status	(60,50,286)
<b>Net Assets/(Liability) recognized in the balance sheet</b>	<b>(60,50,286)</b>
<b>4. Exp. Recognized</b>	
Current Service Cost	18,78,778
Interest Cost	2,60,309
Expected Return on plan assets	-
<b>Net Actuarial (gain)/loss</b>	<b>9,36,724</b>

The Value of plan assets and present obligation at the end of the year is Rs. NIL and Rs 60,50,286/- respectively. Net Liability of Rs 60,50,286/- has been recognised in the Balance Sheet.

- 4) Previous year's figures have been regrouped and rearranged wherever found necessary to conform to current year's classification.

In Terms of our Audit Report of even date

For Kalani & Company,  
Chartered Accountants,  
Firm Registration No. 000722C

Vikas Gupta  
Partner  
Membership No. 077076



Place of Signature: Jaipur  
Dated R

12 SEP 2015

For The LNM Institute of Information Technology

Member of  
Governing Council

Member of  
Governing Council



### ABBREVIATIONS

AC	-	Academic Council
AC-HMC	-	Academic Council – Hall Management Committee
AC-LMC	-	Academic Council – Library Management Committee
AC-PGC	-	Academic Council – Postgraduate Committee
AC-SAC	-	Academic Council – Student Activity Committee
AC-UGC	-	Academic Council – Undergraduate Committee
CCE	-	Communication and Computer Engineering
CSE	-	Computer Science and Engineering
DST	-	Department of Science and Technology
ECE	-	Electronics and Communication Engineering
HSS	-	Humanities and Social Sciences
IQAC	-	Internal Quality Assurance Cell
LAN	-	Local Area Network
LNMIIT	-	The LNM Institute of Information Technology
ME	-	Mechanical Engineering
MME	-	Mechanical and Mechatronics Engineering
NPTEL	-	National Program on Technology Enabled Learning
QARC	-	Quality Assurance Research Committee

### **Preamble:**

The LNMIIT Governing Council member and Standing Committee Chairperson, Mr. Vijay Bhatnagar, MBA (Harvard University) and ex-CEO of Arcelor-Mittal, India visits our institute regularly and discusses the progress along multiple tracks. He has considerable experience with quality principles, processes and their implementation. His passion for academics, leads to valuable suggestions for the functioning of the institute.

Dr S. S. Gokhale, Director of the LNMIIT, was in the past an ISO-9001 Management Representative during his tenure at IIT, Madras. He is an institution builder and was the Director of NITs at Calicut, Nagpur, Raipur and Mizoram. He has considerable experience with Quality Circles, 5-S Work Place Organization which is Japanese method.

With vast experience in industry practices in the country and outside; Professors Ravi P. Gorthi, Dean (Faculty Affairs) (past Dean (Student Affairs)) and Raghuvir Tomar, Dean (Research) (past Dean (Faculty Affairs)) have had experience with quality processes in their career.

Professor Ranjan Gangopadhyay, Distinguished Professor of ECE and Chair of Quality Assurance Research Committee (QARC) is a former professor and head of the department at IIT-KGP. He is the principal investigator on ITRA project involving three other institutes

The Deans' Committee meets every week and HODs / HSS along with Deans meets every month at specified date and time to review the progress of the institute along all functional lines and tracks the ATR (Action Taken Reports).

### **IQAC:**

The Internal Quality Assurance Cell (IQAC) was formed on 21 / 03/ 2015 with the following objectives:

### **Goals:**

1. To define Quality Committees, their Quality Goals and Quality Processes;
2. To audit the quality of research, teaching, admissions, and functional services on a periodic basis.

### **Members:**

- |                         |                    |
|-------------------------|--------------------|
| 1. Prof. Raghuvir Tomar | - Chair            |
| 2. Prof. R Gangopadhyay | - Member           |
| 3. Dr. Manju Dhariwal   | - Member           |
| 4. Dr. Subrat K Dash    | - Member           |
| 5. Dr. K K Khatri       | - Member           |
| 6. Dr Somnath Biswas    | - Member           |
| 7. Prof. Ravi Gorthi    | - (Invited Member) |
| 8. Mr. Rajeev Saxena    | - Secretary        |

Under the umbrella of IQAC, the following Quality Committees are functional:

**[1]. QARC:**

Quality Assurance Research Committee (QARC) was formed on 27 / 03 / 2014 with the following Goals, Members and Processes:

**Goals:**

1. To pro-actively guide young faculty members on conducting high quality research and writing high quality research papers;
2. To review each research paper submitted to a conference or journal, offer suggestions for improvements to quality and make suitable recommendations to the Director for financial support.

**Members:**

1. Prof. Ranjan Gangopadhyay (Distinguished Professor of ECE) – Chair
2. Dean (FA)
3. Dean (Research)
4. Dean (Academic)
5. Dean (Students)
6. Prof. Mohan Kadalbajoo (Distinguished Professor of Mathematics)

**Process:**

1. Each department is to maintain a list of top class conferences and journals which the faculty members and students of that department should aim to publish their research papers in;
2. Faculty members and / or students of LNMIIT to consult the members of the QARC in conducting and / or writing high quality research papers;
3. Every faculty member / student, whose research paper has been accepted at a conference or journal, should submit the following documents to QARC:
  - a. The comments of the reviewers of the conference or journal, as the case may be;
  - b. The final version of the research paper after incorporating the comments of the conference or journal reviewers;
  - c. The details of the conference (such as the details of the Technical Committee, Invited Speakers, whether sponsored by IEEE or ACM or similar professional organization, etc.) or journal (paid or unpaid, editorial board, etc.);
  - d. The details of the financial assistance sought;
4. The QARC members go through the details submitted and meet periodically to discuss the merits (or otherwise) of the research paper and the conference / journal and offer suggestions for improvements; QARC also makes a recommendation to the Director on the quality of the research paper;

5. Director, on receiving the recommendations of QARC on a given submission, meets the faculty member and / or student authors and advises them on improving the quality of research work; Director also decides on the quantum of financial assistance.

## [2]. QATC:

The Quality Assurance of Teaching Committee (QATC) was formed on <sup>08 05</sup> dd / mm/ 2015 with the following Goals, Members and Processes:

### Goals:

1. To pro-actively guide young faculty members on imparting high quality teaching and learning experience;
2. To periodically review the teaching and learning mechanisms used in courses and offer suggestions;

### Members:

1. Senior Professors of various departments of LNMIIT (including Director, Prof Gokhale)

### Process:

1. The faculty members are guided by the members on,
  - i. Breadth and depth of preparation for a topic of a course,
  - ii. Suitable examples to explain the ‘why, what and how’ of the topic;
  - iii. Pace of delivery of the lectures;
  - iv. Interactions with the students;
  - v. Use of digital media communication platforms appropriately;
  - vi. Conducting tutorials, quizzes for continuous learning experience;
  - vii. Setting question paper to reflect the breadth and depth of the topics covered;
  - viii. Mechanisms of evaluation of quizzes, mid & end-term examinations;
2. The lectures of faculty members are video recorded on a random basis, reviewed by members and suggestions to improve are offered to the respective faculty member;
3. The members sit in the lectures of faculty members, on a random basis to assess along some important parameters and make suggestions to improve;





## National Assessment and Accreditation Council (NAAC)

An Autonomous Institution of the University Grants Commission

P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore – 560 072

### The LNM Institute of Information Technology Jaipur, Rajasthan

To enhance rigour and objectivity to the assessment and accreditation process, the University is requested to upload and submit the following information along with the SSR to NAAC.

Sl. No.	A. Core Indicators	
1	Percentage of courses where major syllabus restructuring was carried out during last 3 years	25% (ref. section 1.3.3)
2	Temporal Plan in more than 50% of programmes (CBCS/ Semester/ Annual)	CBCS & Semester based
3	Percentage of teachers with Ph.D. qualification General Courses Professional courses (For ex.MD/ DM for medicine and ME/MS for engineering)	General Courses (by Physics, Mathematics and HSS): 21 / 21=100%  Professional Courses (by ECE, CSE and MME): 25 / 36 = 69.40%
4	Student computer ratio	444 institute's computers for 1231 students; besides, students bring their own laptops for some labs; All labs are conducted in small groups of students, where the ratio is 1:1
5	The number of departments with UGC/SAP/CAS/DST/FIST etc, in university	Nil
6	Number of Post-Doctoral Fellows/ Research associates working a) Locals b) outsiders	PDF: Nil RA: 03
7	Number of ongoing research projects /per teacher	7 Ongoing projects from 57 permanent Faculty;
8	Number of completed research projects/per teacher (Funded by National/International Agencies)	3 Completed projects from 57 permanent faculty;
9	Coordinated/ Collaborative projects (National and International)	2 National level collaborative projects: One with ITRA and another one with IIT-B

10	National recognitions for faculty for Teaching/Research/ Consultancy/Extension (Reputed/recognised bodies)	2 in ECE, 1 in Mathematics and 1 in Physics
11	Number of Patents (last 5 years)	8 Filed
12	Output of M.Phil & Ph.D per faculty	4 Ph.Ds awarded out of 57 faculty
13	Revenue generated from consultancy per year	MME: 1.16 lakhs + 5 lakhs in 2015-16
14	Number of MoUs with International recognized bodies	11
15 (a)	- Publications per faculty - Total number of publications of the university: .....	<i>Journals + Conferences</i> ECE: 26+107, CSE: 76+59, MME: 34+51, HSS: 15+51, Mathematics: 195+52, Physics: 100+50  <i>Total: 816 publications out of 57 faculty; 14.31 publications per faculty</i>
15 (b)	Percentage of papers published in journals listed in well-known international databases	26+76+34+03+195+100 434 journal publications out of 816 total publications; Percentage = 53.18%
16	Average impact factor of publications	3.43 (average of ECE, CSE, Math, Physics)
17	Number of papers with more than 10 citations	MME: 1, Mathematics: 60, Physics: 50, ECE: 15
18	Number of book titles per student (in the central library) excluding book bank	Titles: 16,000 e-books: 111 Total students: 1231 Ratio: 13.08 books per student;
19	Percentage of annual allocation for library spent on purchase of journals (national & international) and other library resources (CDs, Cassettes, etc.)	Journals and Digital Resources: 46.43% out of total library budget;
20	Number of national/international conferences /workshops organised per department per year and names of experts participated	<i>In the last 5 years:</i> ECE: 3 CSE: 4 CCE: 2 MME: 1 HSS: 4 Mathematics: 6 Physics: 7 The list of experts is approximately 10 per year by all departments put together and the details are given in each 'Evaluative Report of the Department';

21	Student performance in national/international level examinations (eg: ET/SLET/GATE/GMAT/CAT, GRE/TOFEL, Civil Services)	<i>Approximately in the last 5 years across all programs:</i> Defence: 10 NET/ SLET: 5 GATE: 100 CAT / MAT: 80 GRE: 80
22	Student Teacher Ratio(average across all disciplines )	1231::65 (57 Permanent + 8 Visiting Faculty)
23	University has the following- i) IQAC ii) Accreditation by national body iii) International accreditation/ ISO certification iv) AAA	IQAC
24	Outstanding Achievements/ Recognition by faculty/alumni both at national and international level	<i>Question 29 of each department:</i> ECE:6 CSE: 9 MME: 9 HSS: 2 Mathematics: 4 Physics: 1
<b>B. Desirable Indicators</b>		
25	Outstanding performance of students in sports/cultural activities at national level	LNMIIT students win at national level competitions in the areas of sports, cultural shows, technical and management events, quiz competitions at least once every two years (Section 5.3.2)
26	Feedback received from different stakeholders on syllabi etc. (i) Students (ii) Alumni (iii)Parents (iv) Employers (v) peers	Formal feedback on syllabi is received from students, alumni, employers and peers; from parents, informal feedback is periodically received;
27	Percentages of recommendations of the stakeholders implemented	All (approximately 100% of all formal and informal feedback) are discussed in Deans' Committee, HODs & HOSs Committee meetings and Department level meeting, Class Committee meetings periodically and required actions are initiated;
28	Number of interdisciplinary course combinations introduced during last five years as percentage of total programmes	8 inter-disciplinary courses out of around 100 courses of all the 20 programmes in the last 5 years;
29	Percentage of Departments conducting tutorial classes	6 out of 7 departments conduct tutorials for the core courses;

30	Number of courses, where continuous assessment of student performances is structured into the system	In ALL (100%) the courses, continuous assessment is part of the system;
31	Percentage of faculty availing international fellowship for advance studies	<p><i>a. While working at LNMIIT:</i>            ECE: 2            CSE: 2            MME: 1</p> <p><i>b. Before joining LNMIIT:</i>            ECE: 5            CSE: 2            Physics: 6            Mathematics: 1</p>
32	Percentage of courses/programmes that formally integrate e-learning resources from National Programmed Teaching Enhanced Learning (NPTEL) Digital library retrieval	In approximately 50% of all the courses, either the faculty member or students or both use e-learning resources such as NPTEL;
33	Percentage of annual budget allocated for augmentation of infrastructure facilities(average of last 3 years)	72.88% (Infrastructure expenses of Rs. 4747 Lakhs out of total expenditure of Rs. 6513 Lakhs of the last five years)
34	Total number of class rooms, seminar halls with LCD/OHP etc.	16
35	Declaration of results within	Within two weeks after the End-Semester Examinations;
36	Average pass percentage of students	> 99% (Only 03 students could not complete in the stipulated time out of more than 1325)
37	Student Placement percentage average per year	Approximately 85.60% among eligible, registered students
38	Percentage of student progression to higher education	ECE UG-PG 16% PG-PhD 11% CSE UG-PG 5% PG-PhD 30% CCE UG-PG 25%
39	Average drop-out percentage of students	~ 6.5% (Last 5 years) Percentage of migrated students out of admitted students from the Institute
40	Unit cost of Education (excluding salary)	1.09 Lakh INR/Annum

41	Aggregate percentage of seats filled against seats reserved for various categories as per applicable reservation policy	Admission is purely merit based there is no reservation policy UG- JEE/Adv JEE and / or PM marks in 10+2 PG- GATE/NET /LNMIIT Written Test and Interview
42	Number of differently-abled persons on roll: Teaching / Non Teaching/ Students	Teaching: 0 Non Teaching: 2 Students: No Data kept
43	Percentage representation of staff (teaching/ nonteaching) in decision making bodies	Teaching staff in all decision making bodies including GC, Deans' Committee, HODs Committee, All sub-committees of Academic Council (AC), Procurement Process, IT Management Committee, etc.  Non-teaching staff, Registrar, 3 Asst Registrars, Finance Officer, Civil Projects and Maintenance Manager, Systems Administrator, etc are involved in either Deans' Committee or sub-committee of AC or Procurement Process or Finance Committee, etc.
44	* Percentage of autonomous colleges to the total number of colleges	Not applicable
45	Percentage of teachers from other states	<i>From other states:</i> ECE: 13 out of 14 CSE: 11 out of 15 MME: 6 out of 7 HSS: 2 out of 5 Mathematics: 8 out of 8 Physics: 8 out of 8 Total: 50 out 57
46	Donations received for institution of Chairs, endowments, seminars, and lecture series in crores of INR in last 5 years.	Nil
47	Contribution of Alumni/parents (average of last 5 years) for development of university in lakhs	Nil
48	Percentage of Female Students	314 / 1231=25.5% (currently enrolled)
49	Programme for professional development of staff per year	<i>On an average:</i> Faculty: 10 per year Staff: 6 per year

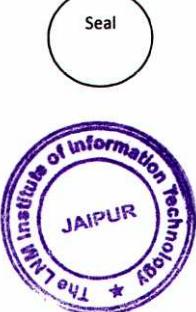
50	Projection of successful innovative practices	<p><i>We like to highlight three major ones (though we have a few more minor ones):</i></p> <p>A1. Academic Administration including step-wise, mirrored class time-table;</p> <p>A2. Participation of all faculty members in Academic Council meeting;</p> <p>A3. Institute-Industry Interaction, with IBM, SAP, Microsoft, TI, NI and HCL for knowledge and skill enhancement of students and faculty members;</p>
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*\*Applicable only to the affiliating Universities.*

Place:

Date: 16 MAR 2016

Seal



  
Signature  
Vice Chancellor

Dr. S.S. GOKHALE  
DIRECTOR

The LNM Institute of Information Technology  
Jaipur