



# INFORMATION BROCHURE 2019-20

for

## Under Graduate, Post Graduate and Research Programmes



**DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR-144011  
PUNJAB, INDIA**

EPABX-0091-181-2690301-02, 2690453, FAX: 0091-181-2690320

WEBSITE: [www.nitj.ac.in](http://www.nitj.ac.in)

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**Dr B R AMBEDKAR**  
**NATIONAL INSTITUTE OF TECHNOLOGY**  
**JALANDHAR-144011, INDIA**



**VISION**

To build a rich intellectual potential embedded with interdisciplinary knowledge human values and professional ethics among the youth, aspirant of becoming engineers and technologists, so that they contribute to society and create a niche for a successful career.

**MISSION**

To become a leading and unique institution of higher learning, offering state-of-the art education, research and training in engineering and technology to students who are able and eager to become change agents for the industrial and economic progress of the nation. To nurture and sustain an academic ambience conducive to the development and growth of committed professionals for sustainable development of the nation and to accomplish its integration into the global economy

**QUALITY POLICY**

- To develop technical human resource of excellence suitable for global requirements.
- To ensure good quality academic and industrial research programs in different area of engineering and technology.
- To generate industry-institute synergy for shaping technical education to meet the requirement of industry.

# Say No To Ragging

## NIT Jalandhar – A Ragging Free Campus

According to UGC guidelines, the definition of ragging states that any conduct whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness any other student, indulging in rowdy or undisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the student to do any act or perform something which such student will not in the ordinary course and which has the effect of causing or generating a sense of sham or embarrassment so as to adversely affect physique or psyche of a fresher or a junior student.

### Important Instructions For The Students

- » According to Hon'ble Supreme Court of India, Ragging in Educational Institutions is banned.
- » Ragging is a Cognizable Offence.
- » Students are advised not to indulge in Ragging.
- » Ragging entails heavy fines and/or suspension/expulsion.
- » Ragging is an undesirable social offence, which is totally banned in the Institute.
- » In case the applicant for admission in the institute is found to have indulged in ragging in the past or if it is noticed later that he has indulged in ragging, admission may be refused or he/she shall be expelled from the institution.
- » In case of Ragging, please do not keep quiet, report it to the Authorities immediately.
- » It is mandatory for the parents to report immediately to the Authorities of the Institute in case their wards inform them about ragging.

### Punishable Ingredients of Ragging

- » Abetment to ragging
- » Criminal conspiracy to rag
- » Unlawful assembly and rioting while ragging
- » Public nuisance created during ragging
- » Violation of decency and morals through ragging
- » Injury to body, causing hurt or grievous hurt
- » Wrongful restraint
- » Wrongful confinement
- » Use of criminal force
- » Assault as well as sexual offences or unnatural offences
- » Extortion
- » Criminal trespass
- » Offences against property
- » Criminal intimidation
- » Attempts to commit any or all of the above mentioned offences against the victim(s)
- » Physical or psychological humiliation
- » All other offences following from the definition of "Ragging"

### Punishment

Depending upon the nature and gravity of the offence as established by the Anti-Ragging Committee of the institution, the possible punishment for those found guilty of Ragging at the Institution level shaped any one or any combination of the following:

- » Suspension from attending classes and academic privileges
- » Withholding/ Withdrawing scholarship/ fellowship and other benefits
- » Debarring from appearing in any test/ examination or other evaluation process
- » Withholding results
- » Debarring from representing the institution in any regional, national or international meet, tournament, youth festival etc.
- » Suspension expulsion from the hostel
- » Rustication from the institution for period ranging from 1 to 4 semesters
- » Expulsion from the institution and consequent debarring from admission to any other institution for a specified period
- » Fine ranging between Rupees 25,000/- and Rupees 1 Lakh
- » Collective punishment: When the persons committing or abetting the crime of ragging are not identified, the institution shall resort to collective punishment
- » Fresher who do not report the incidents of ragging either as victims or as witnesses shall also be punished suitably.

As per the directions of the Hon'ble Supreme Court of India, if any incident of ragging comes to the notice of authority, the concerned student shall be given liberty to explain and if his/her explanation is not found satisfactory, the authority would expel him/her from the Institute"

## CONTACT DETAILS OF IMPORTANT FUNCTIONARIES OF THE INSTITUTE

Name	Designation	Email ID
Prof. Lalit Kumar Awasthi	Director	director@nitj.ac.in
Dr A Mukhopadhyay	Dean (Academic)	da@nitj.ac.in
Dr B S Saini	Dean (Planning & Development)	deanpd@nitj.ac.in
Dr A L Sangal	Dean (Students Welfare)	dsw@nitj.ac.in
Dr S K Sinha	Dean (Research & Consultancy)	drc@nitj.ac.in
Dr R K Garg	Dean (Faculty Welfare)	dfw@nitj.ac.in
Dr Anish Sachdeva	Associate Dean (Academic-PG)	as.dapg@nitj.ac.in
Dr Nitai Basak	Associate Dean (Academic-UG)	as.daug@nitj.ac.in
Dr S K Pahuja & Dr Hemant S. Chore	Associate Dean (Planning & Development)	as.dpd@nitj.ac.in & as1.dpd@nitj.ac.in
Dr Subhash Chander & Dr Rohit Mehra	Associate Dean (Students Welfare)	as.dsw@nitj.ac.in & as1.dsw@nitj.ac.in
Dr Harsh Manchanda & Dr J K Ratan	Associate Dean (Research & Consultancy)	as.drc@nitj.ac.in & as1.drc@nitj.ac.in
Dr H M Mittal & Dr Raman Bedi	Associate Dean (Faculty Welfare)	as.dfw@nitj.ac.in & as1.dfw@nitj.ac.in
Dr Rakesh K Sharma	Controller of Examination	coe@nitj.ac.in
Dr S K Mishra	Registrar	registrar@nitj.ac.in
Wardens	Hostel No	Email
Dr L P Singh	Chief Warden	singhl@nitj.ac.in
Dr Kapil Goyal	Warden Hostel No.1	goyalkk@nitj.ac.in
Dr Avtar Singh	Warden Hostel No.2	avtars@nitj.ac.in
Dr Rajeev Verma	Warden Hostel No. 3	vermar@nitj.ac.in
Dr Karnveer	Warden Hostel No. 4	veerk@nitj.ac.in
Dr Ashish Raman	Warden Hostel No. 5	ramana@nitj.ac.in
Dr Jatinder Kumar	Warden Hostel No. 6	kumarj@nitj.ac.in
Dr Uma Shankar	Warden Hostel No. 7 &7E	shankeru@nitj.ac.in
Dr Lalit Jajpura	Warden MBH A, Block	jajpural@nitj.ac.in
Dr Vinod Ashokan	Warden MBH B, Block	ashokanv@nitj.ac.in
Dr Mohit Tyagi	Warden MBH F, Block	tyagim@nitj.ac.in
Dr Rakesh Kumar	Warden Mega Mess	sharmark@nitj.ac.in
Dr Indu Chauhan	Warden GH-1	chauhani@nitj.ac.in
Dr Anee Mohanty	Warden GH-2	mohantya@nitj.ac.in
Dr Sathiya S	Warden MGH	sathiya@nitj.ac.in
Dr Tarun Sehgal	Medical Officer	sehgalt@nitj.ac.in

For Phone numbers see Telephone Directory (Alphabetical) given at the end of this prospectus.

**Dr B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY JALANDHAR**  
**Academic Calendar – Odd Semester (UG, PG and Ph D Courses)**  
**July – December 2019**

Day	July	August	September	October	November	December	
SAT							
SUN			1				
MON	1		2	1			2 *** 1
TUE	2		3	2 1	1		3 *** 2
				2 Mahatma Gandhi's Birthday			
WED	3		4	3			4 *** 3
THU	4	1	1 5 Minor 1	4 3	2		5 *** 4
FRI	5	2	2 6 Minor 1	5 4	3 1	1	6 *** 5
SAT	6	3	7 Minor 1	6 5	2		7
SUN	7	4	8	6	3		8
MON	8	5	3 9	7	4	2 Pre Registration for Open Elective	9 Showing of Answer Sheets
TUE	9	6	4 10 Muharram	8 Dussehra	5		3 10 Moderation of Grades
WED	10	7	5 11	8 9	5 6	4	11 Display of Grades
THU	11	8	6 12	9 10	6 7	5	12
FRI	12	9	7 13	10 11	7	8 TechNITI	13 Submission of Grades
SAT	13	10	14	12	9		14
SUN	14	11	15	13	10		15
	15 Start of Registration	12 Idul Zuhra	16	11 14	8 11	6	16 Start of Winter Vacation
TUE	16	13	8 17	12 15	9	12 Guru Nanak's Birthday	17
WED	17	14	9 18	13 16	10		18
THU	18		15 Independence Day	19 14	17 Minor 2	11	14 # Notification of detainee students 8 19
FRI	19		16 10 20	15	18 Minor 2	12 15	9 20
SAT	20	17	21	19 Minor 2	13 16		21
SUN	21	18	22	20	17		22
MON	22** Start of classes and last day of Regn without late fee	1 19	11 23	16 21	14	18 End Sem Exam	10 23
TUE	23**	2 20	12 24	17 22	15	19 End Sem Exam	11 24
WED	24**	3 21	13 25	18 23	16	20 End Sem Exam	12 25 Christmas Day
THU	25**	4 22	14 26	19 24	17	21 End Sem Exam	13 26
FRI	26** Last day of Regn with late fee	5 23	15 27	20	25 Mid Term Break	22 End Sem Exam	14 27
SAT	27	24	28	26		23 End Sem Exam	15 28
SUN	28	25	29	27 Deepawali	24		29
MON	29	6 26	16 30	21 28 Mid Term Break	25 End Sem Exam	16 30	
TUE	30	7 27	17	29 Mid Term Break	26 End Sem Exam	17 31	
WED	31	8 28	18	30	18 27 End Sem Exam	18	
THU		29	19	31	19 28 End Sem Exam	19	
FRI		30	20		29 End Sem Exam	20	
SAT		31			30 End Sem Exam	21	
SUN							
	Teaching Days:	8	20	21	19	21	5
	Commulative Teaching Days:	8	28	49	68	89	94

\* Registration will be held in respective departments without fine from July 15, 2019 to July 22, 2019.

\*\* Thereafter registration will be done with Late fee of Rs. 500/- in respective departments from July 22-26, 2019.

\*\*\* Final practical examinations.

Note 1: Winter vacation – December 16, 2019 to December 27, 2019. Start of Regn. for even semester – December 26, 2019.

2. Start of Classes for even semester January 1, 2020

3. #Notification regarding detainee students by HODs to the departments conducting examination: November 14, 2019.

4. The payment of fees online does not amount to registration which must be done separately by the student in person at the department.

**DR B R AMBEDKAR  
NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR-144011, INDIA**

## **1. Introduction**

Dr B R Ambedkar National Institute of Technology was established in the year 1987 as Regional Engineering College and was given the status of National Institute of Technology (Deemed University) by the Government of India on October 17, 2002 under the aegis of Ministry of Human Resource Development, New Delhi. Now the Ministry of Human Resource Development, Government of India has declared the Institute as "Institute of National Importance" under the act of Parliament-2007. A large number of reputed Industrial houses in the country visit the Institution and select the final year students as Engineers/ Management Trainees. As one of the National Institutes of Technology (NIT), the Institute has the responsibility of providing high quality education in Engineering, Technology and Sciences to produce competent technical and scientific manpower for the country. The Institute offers B-Tech, M-Tech, MSc, MBA and PhD programmes in the several disciplines of engineering, technology and Sciences.

### **1.1 Location**

The city of Jalandhar is situated between the rivers Sutlej and Beas on National Highway 1. It is one of the important towns of Punjab and is known for rich educational, cultural and literary activities. It is an internationally renowned industrial Centre for sports goods, leather goods and hand-tools. The city is 370 kms away from Delhi enroute to Amritsar and is easily accessible from Delhi by train or bus. The Shatabdi Express trains plying from New Delhi in the morning at 07.20 hrs and in the evening at 16.30 hrs. Are the best modes of travel to Jalandhar. This train takes less than 5 hours to reach Jalandhar City.

How to reach us: The institute is located on G.T Road Amritsar bye-pass at a distance of 15 km from Jalandhar Bus Stand, 12 km from Jalandhar City Railway Station, and 18 km from Jalandhar Cantt Railway Station.

### **1.2 Campus**

The Institute campus is wide spread over an area of 154 acres. It has many topographical features, various buildings of different nature with clean and wide roads surrounded by a green belt. The campus area has been broadly divided into different functional zones: (i) institution zone for teaching departments/centers/administration (ii) residential zone for the faculty and staff (iii) students' hostel zone. Other amenities on the campus include a guest house, a community Centre, a dispensary, shopping Centre, banks, post office, sports complex, playgrounds, new Tennis courts, Basketball courts, Volleyball courts, open air theatre, central seminar hall and night canteen etc.

### **1.3 Administration**

Dr B R Ambedkar National Institute of Technology Jalandhar is an autonomous Institution under the aegis of Ministry of Human Resource Development, Govt. of India, New Delhi. The Institution functions under the overall control and guidance of the Board of Governors, the Director being the Executive Head of the Institute. The other administrative bodies of the Institute are the Senate, the Finance Committee, and the Building and Works Committee-the Registrar, being the Secretary.

There are five Deans in the institute:

- Dean Academic
- Dean Planning and Development
- Dean Research and Consultancy
- Dean Faculty Welfare
- Dean Student Welfare

### **1.4 Collaboration**

The Institute is actively involved in collaborative programmes with national and international organizations for its overall development. Memoranda of Understanding (MOUs) have been signed with the following Organizations:

- University of Ecole Centrale De Lille, France
- University of Dundee, Scotland
- University of Bolton, UK
- University of Johannesburg, SA
- University of South Alabama, USA
- Technical University of Liberec, Czech Republic
- University of Illinois, USA
- University of Florence, Italy
- National Institute of Technology, Agartala
- National Institute of Technology, Kurukshetra
- National Institute of Technology, Arunachal Pradesh
- Desh Bhagat University, Mandi Gobindgarh
- Atal Bihari Vajpayee Govt. Institute of Engineering & Technology, Shimla
- National Institute of Technology, Delhi
- Indian Institute of Technology, Mandi ( Himachal Pradesh)
- National Institute of Industrial Engineering, Mumbai
- Valeur HR E-Solution Private Limited & V K Group of Industries- Company
- EMC information Systems International External Research & Academic Alliance Program, Ireland

## **2. PROGRAMMES OF STUDY**

The Institute offers following undergraduate, postgraduate and research programmes

### **2.1 UG Programme:**

The Institute offers 4-Year Bachelor of Technology Programme in the following discipline:

<b>Sr. No.</b>	<b>Name of the Bachelor of Technology Programme</b>	
1	Bio Technology	
2	Chemical Engineering	
3	Civil Engineering	
4	Computer Science & Engineering	
5	Electrical Engineering	
6	Electronics & Communication Engineering	
7	Mechanical Engineering	
8	Textile Technology	
9	Information Technology	
10	Instrumentation & Control Engineering	
11	Industrial and Production Engineering	117

For further details of the eligibility requirements, admission procedures etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in) and the Central Seat Allocation Board-2019 website [csab.nic.in](http://csab.nic.in).

### **2.2 PG Programme:**

**2.2.1** The Institute offers 2-Year Master of Technology Programme in the following discipline:

<b>Sr. No.</b>	<b>Name of the Master of Technology Programme</b>
1	Bio Technology
2	Chemical Engineering
3	Computer Science and Engineering
4	Control & Instrumentation Engineering
5	Design Engineering
6	Electronics and Communication Engineering
7	Geotechnical and Geo Environmental Engineering
8	Industrial Engineering
9	Information Security
10	Manufacturing Technology
11	Structural & Construction Engineering
12	Textile Engineering & Management
13	Thermal Engineering
14	VLSI Design

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in) and Centralized Counseling for M.Tech/M.Arch/M.Plan website [ccmt.nic.in](http://ccmt.nic.in)

**2.2.2** The Institute offers 2-Year Master of Science Programme in the following discipline:

<b>Sr. No.</b>	<b>Name of the Programme</b>
1	M.Sc. in Chemistry
2	M.Sc. in Mathematics
3	M.Sc. in Physics

For further details of the eligibility requirements, admission procedures etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in) and Centralized Counselling for M.Sc./M.Sc. (Tech) website [www.ccmn.nic.in](http://www.ccmn.nic.in).

**2.2.3** The Institute offers 2 year Master of Business Administration programme:

<b>Sr. No.</b>	<b>Name of the Programme</b>
1	MBA

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in)

**2.2.4** The Institute offers 1 year Post Graduate Diploma in Management (PGDM) programme:

Sr. No.	Name of the Programme
1	Post Graduate Diploma in Management (PGDM)

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in)

**2.2.5** The Institute offers 2-Year Master of Technology (Self-Sponsored) Programme in the following discipline:

Sr. No.	Name of M. Tech (Self-Sponsored) Programme
1	Bio Technology
2	Chemical Engineering
3	Computer Science and Engineering
4	Control & Instrumentation Engineering
5	Design Engineering
6	Electronics and Communication Engineering
7	Geotechnical and Geo Environmental Engineering
8	Industrial Engineering
9	Information Security
10	Manufacturing Technology
11	Structural & Construction Engineering
12	Textile Engineering & Management
13	Thermal Engineering
14	VLSI Design

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in)

**2.2.6** The Institute offers Post Graduate Diploma in Engineering in the following branches of Engineering:-

Sr. No.	Name of the Programme(PG Diploma in Engineering)
1	Chemical Engineering
2	Computer Science and Engineering
3	Electronics & Communication Engineering
4	Instrumentation & Control Engineering
5	Structural and Construction Engineering
6	Geotechnical and Geo Environmental Engineering
7	Textile Engineering and Management
8	Design Engineering
9	Thermal Engineering
10	Industrial Engineering

For further details of the eligibility requirements, admission procedure etc. to the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in)

### **2.3 Ph. D :**

The Institute offers PhD (Full Time & Part Time) Programme in Engineering, Sciences, Humanities and Management disciplines of the Institute. For further details of the eligibility requirements, admission procedure etc. of the programme, kindly visit the Institute website [www.nitj.ac.in](http://www.nitj.ac.in).

**Note: All the rules and regulations governing the UG/PG/Ph.D programmes as amended from time to time shall be displayed on the Institute website and the decision of the Institute Senate shall be final and binding.**

## **3 SEMESTER FEE AND OTHER CHARGES**

### **3.1 Tuition Fee for UG (B. TECH) students per semester:**

B. Tech (2019 Batch)	Category wise /Income wise	Tuition Fee
	Income below Rs.1 Lakh per annum (Gen/OBC)	--NIL--
	Income between Rs.1 to 5 Lakh per annum (Gen/OBC)	Rs.20840/-
	Income above Rs.5 lakh per annum (Gen/OBC)	Rs.62500/-
	For all SC/ST/PH Students	---NIL---

**NOTE:** Please note that the following points strictly for getting the tuition fee waiver as per norms:

- (i) The economically backward students of B. Tech (General/OBC Category) who wants to avail Tuition Fee waiver on the basis of Annual Family Income are required to submit Annual Family Income Certificate before submission of Institute academic fee.
- (ii) Students are required to submit Annual family Income certificate issued on or after 1st April of every financial year duly signed by the issuing authority of the concerned state. Certificate issuing authority list shall be uploaded on the Institute website before the registration process along with fee structure.
- (iii) Students who are not able to produce the Annual Family Income certificate at the time of reporting shall have to deposit the full fee.

### **3.2 Tuition Fee for PG and PhD students per semester:**

M. Tech/MBA	Gen/OBC/PH	Rs.35000/-
	SC/ST	--NIL--
M. Sc	Gen/OBC/PH	Rs.7500/-
	SC/ST	--NIL--
PhD (Regular)	Gen/OBC/PH	Rs.7500/-
	SC/ST	--NIL--

### **3.3 Detail of other institutional charges for all UG, PG and PhD students.**

Sr. No.	Particulars	Hostlers	Day Scholars	Day Scholars with bus facility
<b>MAIN ACCOUNT</b>				
1	Admission / Registration Fee	1000	1000	1000
2	Library Fee	1000	1000	1000
3	Room Rent (More than Single Seater) For single seater (Optional ) Rs.9000/-	6000	-	-
4	Transportation Charges	-		3000
<b>EXAMINATION ACCOUNT</b>				
5	Examination fee	1000	1000	1000
<b>HOSTEL FUND ACCOUNT</b>				
6	Mess and Utensil fee Hostel Maintenance Hostel & Mess Estb. Charges	2500	-	-
<b>SECURITY FUND ACCOUNT</b>				
7	Institute Security (Non - Refundable) One time at the time of Admission only	5000	5000	5000
<b>ALUMNI ASSOCIATION ACCOUNT</b>				
8	Alumni Association membership fee	500	500	500
<b>STUDENT FUND ACCOUNT</b>				
9	Stationery fee / Project Fee      Others Charges Student Welfare Fee Medical Fee Identity Card Fee	1500	1500	1500
10	Students Activity Fee	5000	5000	5000
11	International / National Conferences	500	500	500
12	Internet Fee/Computer Fee	1000	1000	1000
13	Medical and healthcare facility	500	500	500
<b>DEVELOPMENT FUND ACCOUNT</b>				
14	Development Fee	5000	5000	5000
	<b>Total Other Institutional Charges</b>	<b>30500</b>	<b>22000</b>	<b>25000</b>

**NOTE:** The Other Institutional charges shall vary time to time with the decision of competent authority.

#### **Mode of payment (Online)**

- Concerned shall visit Institute website for the fees payment.

## 4. POWER TO MODIFY

Not with standing all that has been stated above, the Senate can modify any of the above regulation from time to time.

## 5. AWARDS

### 5.1 Institute Awards/Medals

- Chairperson's gold medal is awarded to the overall topper of the institute at BTech level.
- A gold medal is awarded to the topper of each branch at BTech, MSc and MTech level.

### 5.2 Scholarship

Scholarship	Eligibility/Amount
Akash Saxena Memorial Scholarship	Rs. 10000/- with a Certificate to the topper in CSE branch up to six semesters at B. Tech Level
ONGC Scholarship for ME and CH students	Rs. 5000 per month for 3rd Year Topper students
Top Class Central Sector Scholarship for SC/ST students (GOI Sponsored)	Annual income less than Rs.4.5 Lacs. Top 12 SC students and Top 5 ST students admitted through JEE (Main).
Post matrix Scholarship for SC students of Punjab	The post Matrix scholarship will be awarded by the Pb. Govt. to the SC students whose annual income is less than Rs.2.5 lacs.

## 6. HOSTELS

There are eight boys' hostels (including one mega hostel) and three girls' hostels. The facilities of reading room, indoor games, etc. are available in each hostel. Internet facility is provided in most of the hostels. Other facilities like LCD/ LED TVs, geysers, water purifiers and water coolers are provided in all the hostels.

### 6.1 Council of Wardens

S.No	Name of the Faculty	Hostel	Mobile No	Email-id
1	Dr L P Singh	Chief Warden	8288947954	singhl@nitj.ac.in
2	Dr Kapil Goyal	Warden Hostel No. 1	8059000377	goyalkk@nitj.ac.in
3	Dr Avtar Singh	Warden Hostel No. 2	9418217275	avtars@nitj.ac.in
4	Dr Rajeev Verma	Warden Hostel No. 3	9464740847	vermar@nitj.ac.in
5	Dr Karnveer	Warden Hostel No. 4	9418003227	veerk@nitj.ac.in
6	Dr Ashish Raman	Warden Hostel No. 5	9888217273	ramana@nitj.ac.in
7	Dr Jatinder Kumar	Warden Hostel No. 6	9876850908	kumarj@nitj.ac.in
8	Dr Uma Shankar	Warden Hostel No. 7 &7E	7837588168	shankeru@nitj.ac.in
9	Dr Lalit Jajpura	Warden MBH A, Block	9996006620	jajpural@nitj.ac.in
10	Dr Vinod Ashokan	Warden MBH B, Block	7030287714	ashokanv@nitj.ac.in
11	Dr Mohit Tyagi	Warden MBH F, Block	8826841126	tyagim@nitj.ac.in
12	Dr Rakesh Kumar	Warden Mega Mess	8288012020	sharmark@nitj.ac.in
13	Dr Indu Chauhan	Warden GH-1	8881221934	chauhani@nitj.ac.in
14	Dr Anee Mohanty	Warden GH-2	9703991708	mohantya@nitj.ac.in
15	Dr Sathiya S	Warden MGH	9944300397	sathiya@nitj.ac.in

*For Phone numbers please see telephone directory at the end of this prospectus*

In case of emergency, students shall have to take special permission in advance from the concerned warden to stay out for late hours. The authority and the mode to operate the hostel funds is decided by the Director. The amendments in the hostel rules and other related matters can be made by the Director.

## **6.2 General Information regarding hostel:**

1. The hostel facility is available to the regular students who are on the rolls of the institute depending upon the availability. The students who wish to stay with their parents or guardians outside the campus for short period may be allowed to do so with the permission of the competent authority.
2. Hostel wardens are appointed for each hostel and they exercise 'general supervision' and 'control' over the inmates.
3. Hostel attendants are available round the clock in hostel. In case of any problem related to the hostel, the student should contact/meet the attendant.
4. In case of illness or medical emergency hostel resident should inform to the concerned warden through hostel staff.
5. Possessing any kind of motorized vehicle, e.g. car, scooter, motorcycle, moped etc. by the hostlers is not permitted.
6. Any hostler is allowed to go to his/her home (only) during vacations/weekends against intimation to the hostel office. It is mandatory to fill the hostel leave form and submit to the security guard at hostel gate.
7. Institute does not own the responsibility of theft and loss of any items possessed by the inmates (like laptop, mobile phone, tablet etc). However, in the interest of inmates it is advised here that they may get insured their valuables.
8. All hostlers are required to observe the hostel timings strictly. The gate timings of the hostels are decided by the competent authority from time to time. In case of un-avoidable circumstances students shall have to take special permission in advance from the concerned warden to stay out for late hours.
9. For any kind of meeting in hostel premise, prior written permission/approval is mandatory from the competent authority.
10. The students shall make proper use of common rooms having newspapers, literature and other articles meant for indoor games. The hostel warden will fix hours of the common room from time to time.

## **6.3 Hostel Rules**

### **6.3.1 Disciplinary Rules:**

1. No student should be in possession of fire-arm, lethal weapon, alcohol or drugs, poisonous thing or intoxicant of any kind in the hostel. If anyone found guilty of having said material is considered breach of the rule and shall be liable to be expelled from the hostel, apart from any other punishment that may be posed to him/her by the Chief Warden/Institute Discipline Committee or by law of land.
2. Any student found involved in making comments on political parties or govt and making anti national comments or statements and sharing it on social media (like twitter, face book, whats App etc) will be liable to strict disciplinary action including expulsion from hostel with immediate effect. He /She will be suspended from classes or may be rusticated and will be liable for suitable legal action.
3. No anti-social, gender-based, caste-based, religion-based and region-based comments/statements are acceptable from the students/hostel residents. This will be liable to strict disciplinary action as mentioned in para (2).
4. Any type of students' gathering/campaign/agitation/protest and threatening the faculty/staff/student is not permitted in the premises of hostel/Institute. However, any campaign for the social awareness or well-being or social concern may be organized with the prior permission of competent authority.
5. Any type of electrical appliances (electric kettle, heaters, iron, induction etc) is not allowed in hostel room. If any student is found keeping these things in his/her room, he/she will be liable to disciplinary action.
6. The students should not indulge in activities amounting to an act of indiscipline and misdemeanor such as:
  - Disturbing the classes, misbehavior with teachers and students taking examination or in any other academic activity.
  - Interfering with the functioning of various committees.
  - Defacing the building or any structure by writing slogans and pasting bills and damaging the Institute property.
  - Rash driving, driving on the pedestrian path, triple riding and parallel driving in restricted areas/Institute Campus.
  - Making obscene gestures in the campus while roaming and sitting in and around the campus.
  - Use of mobile phone in the classes, library and examination centre.

The students involved in indiscipline activities will be penalized as per decision of the Institute Discipline committee. However, may be directly imposed penalty as mentioned below:

1. Cancellation of admission.
2. Suspension from attending classes.
3. Withholding/withdrawing scholarship/fellowship and other benefits.
4. Debarring from appearing in any test/examination or other evaluation processes.
5. Withholding results.
6. Debarring from representing the institution in any national or international meet, tournament, youth festival, conference etc.
7. Suspension/expulsion from the hostel.
8. Rustication from the institution.
9. Expulsion from the institution and consequent debarring from admission in other institutions.
10. Fine up to Rs. 50,000/-
11. Collective punishment will be awarded if the individuals committing indiscipline are not identified.

#### **6.3.2 Room Allotment Rules:**

1. The student must be personally present at the time of allotment of rooms and he/she may be allowed to choose his/her roommates.
2. Every boarder is provided with a chair, a table and a cot. He/ She will be responsible for these items and other electrical fittings etc. Furniture and electrical fittings are not to be moved from one room to another.
3. All the boarders shall vacate the hostel rooms before they leave for vacation so that annual repairs/maintenance and white washing etc may be carried out.
4. All the hostel room articles issued (at the time of room allotment) to the students will be returned/ surrendered to the hostel staff/attendant/clerk before leaving the hostel during or at the end of the session.
5. The room occupants will be responsible for any loss or damage to the items issued to him/her (at the time of room allotment) and the same will be recovered from them as decided by the competent authority.
6. No boarder is allowed to change his/her room without the permission of the Warden and shall have to vacate accommodation as and when asked for.
7. Each room occupant should lock his/her room. Any room found unlocked due to the negligence of the student/resident will be charged fine as decided by competent authority.

#### **6.3.3 Mess Rules:**

The messes of all hostels operate on cooperative basis. A committee of the students from every hostel manages the affairs of the mess under the supervision of wardens.

1. While visiting the dining hall, the common room and canteen, the students should be in their proper dress.
2. All hostel inmates are required to follow the norms of the hostel/mess and required to deposit the mess advance (mess charges, maintenance charges, extra meal charges, service charges etc) as decided from time to time in each semester by the hostel authorities for availing mess facility. Minimum 55 diets are mandatory for every hostel resident. The remaining balance of mess advance (if any) will be refunded after one year or the student leaves hostel whichever is earlier.
3. Wastage of food is strictly prohibited; the same may be liable to charging of fine as decided by the competent authority.

#### **6.3.4 Student's Guest Rule:**

1. No outsider is allowed to stay in the hostel. However any relative/guest of the student may be allowed with prior permission of the competent authority.
2. The permissible guests include father/ brother and mother/sister (in case of girl students) provided he/she comes from a far off place.
3. Female guests are not permitted to stay in boys' hostel. Likewise male guests are not permitted to stay in the girls' hostel.
4. A boarder keeping a guest without the prior permission of the Warden is liable to be penalized.
5. Students/room occupants are not allowed to stay/sleep in the room of fellow student during daytime/night even with his/her consent..

### **6.3.5 Withdrawal/Expulsion from the Hostels:**

1. After the general allotment, application for withdrawal from the hostel should be counter-signed by the father/guardian and submitted to the hostel warden. It should also be ensured that the student does not owe any hostel dues.
2. The Director/ DSW/ Chief Warden may expel a boarder from the hostel, if he/she is in the habit of staying away without intimation to the hostel office, or hostel fee and mess dues are not cleared in time.
3. Students who do not clear their dues, such as dues of the hostel mess, canteen, fine etc. by the prescribed date will not be registered for the subsequent semester until and unless, they clear all their dues and submit "No Dues Certificate" from the Account Section and the concerned hostel warden.
4. The students who leave the Institute after completing the degree requirements or otherwise, their result as well as the provisional certificate/ degree will be withheld till NO DUE CERTIFICATE is produced.
5. No boarder shall leave the hostel without handing over the charge of the room as per the inventory issued at the time of allotment.

## **7. COMMON FACILITIES AND CO-CURRICULAR ACTIVITIES**

### **7.1 The Students' Activity Centre (SAC)**

The Students' Activity Centre is the nerve Centre of all the student activities on the campus. The Centre comprises of a club building, gymnasium hall, open-air theatre, and hobbies workshop, which cater to various extra-curricular activities of the students.

### **7.2 Canteen**

Day and night canteen facility is available for the students, staff and faculty.

### **7.3 Book Shop**

There is a bookshop situated in the shopping complex of the institute, where Xerox facility is also available. Additionally, a separate Xerox facility is available in the Library.

### **7.4 Students' Counseling Service (SCS)**

Faculty members are appointed as Academic Counselors for each batch and each discipline. Academic Counselors assist the students in sorting out their difficulties and dilemmas relating to their living in campus - away from their homes and competitive academic pressures.

### **7.5 Technical Club**

Technical Club functions under "clubs and hobbies activities" of the institute. The objective of the technical club is to bring together faculty and students on a common platform to exchange ideas, share knowledge on emerging technologies.

### **7.6 Benevolent Fund Scheme**

The Institute has setting up NIT Benevolent Fund Scheme for the benefit of its students. All students admitted to the institute are required to donate an amount of Rs. 100/- on one-time basis. This amount shall be claimed from the student at the time of their first registration.

### **7.7 Medical Facilities**

The Institute has a dispensary in the campus to provide the medical assistance to the students round the clock. There is one regular doctors (one male) and para-medical staff for the required medical service. The consultation is also provided to the members of the faculty/staff residing in the campus. In case of medical emergency, the ambulance van is available 24 hours for taking patient(s) to other hospitals for the necessary treatment.

Name	Designation	Qualification	Email
Dr Tarun Sehgal	Medical Officer	MBBS	sehgalt@nitj.ac.in

### **7.8 Bank and Post office**

There are two banks and a post office in the Institute premises to cater the need of the campus residents. Further, the ATMs by State Bank of Patiala and Canara Bank remain functional round the clock.

### **7.9 Newsletter**

The Institute brings out half yearly newsletters reflecting activities of students, faculty and staff in each year.

### **7.10 Identity cards**

Every student is required to keep with his/her identity card issued by the institute while moving in or outside the campus.

### **7.11 Curricular Activities**

Extra-Curricular Activities for the Odd Semester (August-December 2015) have been planned as mentioned below. It shall be notified at the appropriate time. The faculty advisor shall notify rules concerning different competitions two weeks before the start of each competition. The information concerning rules can also be obtained personally from the concerned faculty advisor.

#### **List of Events**

Sr No.	Competitive Event
1.	Photography Exhibition (Student's own work)
2.	Extempore
3.	Skit Competition
4.	On the spot Painting Competition cum Exhibition
5.	Debate Competition
6.	Geet /Ghazal Competition

7.	Rangoli Competition
8.	Instrumental Solo (Indian or Western) Competition
9.	Exhibition of Individual Collection of Stamps and Coins
10.	On the spot Sketching Competition cum Exhibition
11.	Creative Writing
12.	Abhiyakti
13.	Hindi Phakhwara

Students desirous of becoming office bearers/executive members are advised to appear for personal interview at the office of the respective faculty advisor: -

- Music and Dramatics
- Fine Arts
- Literary and Debating
- Photography and other hobbies
- Hiking and Trekking
- SPIC-MACAY

All the notices concerning extra-curricular activities shall be put up at the exit point near reprographic Centre of the Main Block. The faculty advisor shall announce the dates for Trip of Hiking and Trekking Society two weeks in advance.

## **DEPARTMENTS**

### **8. CHEMISTRY**

#### **Faculty**

Name	Designation	Qualification	Email
Dr B S Kaith	Professor & Head	Ph D (PU)	kaithbs@nitj.ac.in
Dr N C Kothiyal	Professor	Ph D (ISM)	kothiyalnc@nitj.ac.in
Dr Rajeev Jindal	Associate Professor	Ph D (PU)	jindalr@nitj.ac.in
Dr Sangeeta Obrai	Associate Professor	Ph D (GNDU)	obrais@nitj.ac.in
Dr Jaspreet Kaur Rajput	Associate Professor	Ph D (Pbi. Uni)	rajputj@nitj.ac.in
Dr Harsh K Manchanda	Associate Professor	Ph D (KU)	manchandah@nitj.ac.in
Dr Virender Singh	Assistant Professor	Ph D (CDRI, Lucknow)	singhv@nitj.ac.in
Dr Uma Shanker	Assistant Professor	Ph D (IIT-Roorkee)	shankerus@nitj.ac.in
Dr Sadhika Khullar	Assistant Professor	Ph D (GNDU)	khullars@nitj.ac.in
Dr Vimal Kumar	Assistant Professor	Ph D (GNDU)	bhardwajvk@nitj.ac.in
Dr Vickram Jeet Singh	Assistant Professor	Ph D (IISERM)	singhvj@nitj.ac.in

#### **Academic Programme**

#### **PhD Programme**

Full Time and Part Time PhD Programs in various areas: Ionic Liquids, Green Chemistry, Solution Thermodynamics, Advance materials and sensors, Organic Synthesis, Nanocatalysis, Environmental Chemistry, Carbon Based Nanocomposites, Surface Chemistry, Surfactants Chemistry, Graphics and Carbon Nanotubes based Nanocomposites, Environmental Chemistry (Polycyclic Aromatic Hydrocarbon, Water & Waste Water Treatment), Nonoadsorbents in Removal of Toxic Contaminants, Medicinal Chemistry and Natural Product Synthesis, Synthesis of Nanoparticles and their application in organic Synthesis, Synthesis of Nanomaterial using different routes and their catalytic applications. Transition-Metal assisted C-C and C-N coupling reactions, Hydrogels and their applications, Composites and their applications, Ion-exchangers, Smart materials and their applications, Nano-composites and their applications, Synthesis of Ion-exchangers, Smart Polymers, Nanochemistry, Mechanistic Organic Chemistry are offered by the Department.

## **M. Sc. Programme**

M. Sc. in Chemistry

### **Special features of M. Sc. Chemistry**

In addition to courses on Inorganic Chemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry and Spectroscopy the following courses are mandatory for all students:

- Intellectual Property Rights
- Pharmaceutical Chemistry
- Summer Training in IITs, IISER, NIPER, IISc, CSIR Labs, Good-University and Industries
- Project work in III and IV semesters
- More than 10 Departmental electives to be chosen by students as per their aptitude

### **Research and Development Activities**

The Faculty members of the Department are actively carrying-out research on areas like: Ionic Liquids, Green Chemistry, Solution Thermodynamics, Advance materials and sensors, Organic Synthesis, Nanocatalysis, Environmental Chemistry, Carbon Based Nanocomposites, Surface Chemistry, Surfactants Chemistry, Graphics and Carbon Nanotubes based Nanocomposites, Environmental Chemistry (Polycyclic Aromatic Hydrocarbon, Water & Waste Water Treatment), Nonoadsorbents in Removal of Toxic Contaminants, Medicinal Chemistry and Natural Product Synthesis, Synthesis of Nanoparticles and their application in organic Synthesis, Synthesis of Nanomaterial using different routes and their catalytic applications. Transition-Metal assisted C-C and C-N coupling reactions, Hydrogels and their applications, Composites and their applications, Ion-exchangers, Smart materials and their applications, Nano-composites and their applications, Synthesis of Ion-exchangers, Smart Polymers, Nanochemistry, Mechanistic Organic Chemistry.

### **Laboratory Facilities**

- Chemistry Laboratories (UG)
- Postgraduate Organic Chemistry Laboratory
- Postgraduate Inorganic Chemistry Laboratory
- Postgraduate Physical Chemistry Laboratory

### **Research & Development Laboratories:**

- Polymer and Nanotechnology Laboratory
- Natural Products and Medicinal Chemistry Laboratory
- Advanced Synthesis and Catalysis Research Laboratory
- Inorganic Green Chemistry Laboratory
- Smart Materials Research Laboratory
- Material Testing Laboratory
- Analytical Chemistry Lab
- Nano Surface and Environmental Research Laboratory
- Advance Thermodynamics Research Laboratory
- DST- FIST Instrumentation Laboratory

### Sponsored Projects Completed/Ongoing

Name of the investigator	Title of the program and duration	Amount sanctioned	Funding Agency
Prof B. S. Kaith	BTR-3 Project on "Gamma-radiation induced synthesis of super-absorbents and impact of swift heavy ions bombardment on the physico-chemical properties" "IUAC-New Delhi, 2014. Sanction No.- IUAC/XIII.7/UFR-57302, Dated 06.01.2015.Duration- 3 Year	40.00 Lakhs	IUAC-New Delhi IUAC/XIII.7/ UFR-57302,
Dr. Virender Singh	Development of New Platform for A3-Coupling and other Multicomponent Reactions towards Drug-Like Molecules using Transition Metal Catalysis. Duration- 3 Year	36.08 Lakhs	SERB-DST, New Delhi EMR/2017/ 000155 (2017-2020)
Dr Harsh Kumar Manchanda	Investigation on the Effect of ionic liquids on self-assembly of various surfactants in aqueous media. EMR/2015/002059 Duration- 3 Year	33.00 Lakhs	SERB-DST New Delhi, EMR/2015/ 002059
Dr. Virender Singh	Application of Building Blocks from Morita-Baylis-Hillman Chemistry for the Synthesis of Privileged Scaffolds. Duration- 3 Year	23.70 Lakhs	DST, New Delhi (SB/FT/CS-188/ 2011)(2013-2016)
Dr Harsh Kumar Manchanda	Synthesis of Functionalized Biomaterials With Biological Applications To Understand Protein-Protein Interactions. Duration- 3 Year	54.00 Lakhs	DST Nano Mission (2016-2019)
Dr. Virender Singh and Prof B S Kaith	Natural Product Inspired Design, Synthesis, and Anticancer Evaluation of $\beta$ -Carboline Derivatives. Duration- 3 Year	15.42 Lakhs	CSIR, New Delhi (02(0202)/14/EMR-II)(2014-2017)

### Extra Co-curriculum Activities

- Creative Chemistry Club (C<sup>3</sup>) instituted in Department to organize the various academic, cultural and scientific events in the Department for the faculty and students.

## 9. HUMANITIES AND MANAGEMENT

### Faculty

Name	Designation	Qualification	Email
Dr S J S Bedi	Associate Professor	PhD (GJUST)	bediss@nitj.ac.in
Dr Jagwinder Singh	Associate Professor & Head	PhD (PU)	singhj@nitj.ac.in
Dr. Sonia Chawla	Associate Professor	PhD (GNDU)	chawlas@nitj.ac.in
Dr. Gyan Prakash	Assistant Professor	PhD (IITDH)	prakashg@nitj.ac.in
Dr Aditya Prakash	Assistant Professor	PhD (JNU)	prakasha@nitj.ac.in
Dr. Preeti Puri	Assistant Professor	PhD (HPU)	purip@nitj.ac.in
Dr. Shyamkiran Kaur	Assistant Professor	PhD (CUP), MPhil (CUP)	kaursk@nitj.ac.in

### Academic Programmes

#### Under Graduate Programmes

The department offers the core and elective courses to the B Tech students of all the disciplines. The compulsory courses in the B Tech stream are Management Principles and Practices, English Communication and Report Writing, English Communication Laboratory, Economics for Engineers, Entrepreneurial Development and Management, Human Resource Management and Marketing Management. Open electives courses include Financial Management, Strategic Management, Organizational Behavior and Business Environment, Leadership and Organizational Change.

### **Post Graduate Programme**

The Department offers two years' full time MBA Programme at par with leading management schools with specialization in Human Resource Management, Marketing Management, and Financial Management.

### **PhD Programme**

The Department offers Full / Part Time PhD Programme in Business Management (Human Resource Management, Strategic Management, Marketing Management and Entrepreneurship Development & Management) & English Literature and Linguistics.

### **Laboratory Facilities**

**Communication Laboratory:** Communication leads to empowerment. To empower a student, a communication laboratory plays a pivotal role. It helps to polish and enrich the communication skills of the students. The objective is to groom an engineer with strong spoken and written communication skills.

**Computational Laboratory:** Computational Laboratory is an essential source of learning. It not only broadens the horizon and intellect of a student but also helps him to be articulate in his approach. Any formal medium of education is incomplete without Information Technology. Therefore, the Department has specially setup the computational laboratory for the students.

### **Research & Development**

Research is central to the vision of the department and consistent with this, a thriving research culture has been developed. The department has achieved significant success in terms of publications in internationally referred journals. In addition, an inclination towards research is evident in faculty members of the department who actively present and publish research work, reference papers and articles in national and international journals & conferences.

### **Consultancy Projects**

Consultancy is an essential component in public-private partnership. It helps to understand the requirement of the industry and to design the courses for the students accordingly. The Department offers consultancy in the field of Entrepreneurship Development and Management, Marketing Management, Human Resource Management, English Literature & Linguistics, communication and Soft Skills.

## **10. MATHEMATICS**

### **Faculty**

Name	Designation	Qualification	Email
Dr Jaspal Singh Aujla	Professor & Head	Ph D (PU), Post Doctorate	aujlajs@nitj.ac.in
Dr Damanjit Kaur	Associate Professor	Ph D (HPU)	kaurd@nitj.ac.in
Dr Geeta Partap	Associate Professor	Ph D (KUK)	pratapg@nitj.ac.in
Dr Raghaw Raman Sinha	Assistant Professor	Ph D (BHU)	sinharr@nitj.ac.in
Dr. Ravinder Singh	Assistant Professor	Ph.D. (IIT Kanpur)	singhr@nitj.ac.in
Dr. Anupam Yadav	Assistant Professor	Ph.D. (IIT Roorkee)	yadava@nitj.ac.in
Dr. Deepika Rani	Assistant Professor	Ph.D. (IIT Roorkee)	ranid@nitj.ac.in
Dr. Mohammed Zafar	Assistant Professor	Ph.D. (IIT Bombay)	zafarm@nitj.ac.in
Dr. Sukhjit Singh	Assistant Professor	Ph.D. (IIT Kharagpur)	kundalss@nitj.ac.in
Dr. Ravinder Kumar	Assistant Professor	Ph.D. (Himachal Pradesh University Shimla)	thakurk@nitj.ac.in

### **Academic Programmes**

#### **M Sc Mathematics**

#### **Ph D (Full and Part Time)**

In addition to the above mentioned programmes, B Tech/MTech core/elective courses are offered by the Department to the engineering disciplines

### **Field of expertise**

- Group Theory
- Optimization
- Matrix Analysis
- Solid Mechanics
- Numerical Analysis
- Statistics

### **Departmental Summary – Since Inception**

Journal Publications (International)	96	Journal publications (National)	
Workshops/Conferences conducted	05	STC conducted	
Books/Monographs/Book chapter published		Expert talks organized	04
Ph.D. students completed	10	Ph.D. students pursuing	05
Patents/IPR		Research Project completed	
Total R&D Funding	200000/-	Consultancy Generated	
Awards/Recognition to the faculty	Dr. Jaspal Singh was awarded Senior Associateship at Abdul Salem International Centre for Theoretical Physics, Triesta, ITALY(2011-2017)		
Membership of Societies	<p><b>Dr. Jaspal Singh Aujla</b></p> <ol style="list-style-type: none"> <li>1. Member of American Mathematical Society</li> <li>2. Member of Indian Mathematical Society</li> <li>3. Membership of Ramanjan Mathematical Society</li> <li>4. Member of Punjab Academy of Sciences</li> </ol> <p><b>Dr. Geeta Partap</b></p> <ol style="list-style-type: none"> <li>1. Member of Indian Society of Theoretical and Applied Mechanics</li> <li>2. Member of Calcutta Mathematical Society</li> <li>3. Member of Ramanujan Mathematical Society</li> <li>4. Member of Punjab Science Congress</li> </ol> <p><b>Dr. Raghw Raman Sinha</b></p> <ol style="list-style-type: none"> <li>1. Member of Indian Statistical Association</li> <li>2. Member of International Indian Statistical Association</li> </ol> <p><b>Dr. Deepika Rani</b></p> <ol style="list-style-type: none"> <li>1. Member of Operational Research Society of India</li> <li>2. Member of the International Association of Engineers</li> </ol>		

### **Research and Development**

The faculty of the department is interested in the following research areas: Wavelet & Finite Element Methods for Partial Differential & Integral Equations, Numerical analysis and Computer Programming, Linear Algebra, Operator Theory, Matrix Analysis, Statistics, Applied mathematics (Mechanics of Solids), Micro polar Elasticity.

Dr. Jaspal Singh Aujla has been selected as Senior Associate for a period of six years (2011-2016) at Abdul Kalam International Centre for Theoretical Physics, Trieste, Italy

### **Major collaboration (National/International)**

#### **Dr. Jaspal Singh Aujla**

Dr. F.C. Silva, University of Lisbon Pourtgal

Dr. J C Bourn, France

Dr. Mandeep Singh, SLIET, Longowal

#### **DR Mohammed Zafar**

Prof. V. D. Sharma (F.N.A, F.N Asc. IIT, Bombay)

Dr. T. Raja Sekhar (IIT Kharagpur)

#### **Dr. Deepika Rani**

Dr. T. R. Gulati, IIT Roorkee

Dr. Harish Garg, TIET, Patiala

Dr. Gourav Gupta, Baddi University, Himachal Pradesh

#### **Dr. Ravinder Kumar**

Prof. Rajesh Sharma, H. P. University, Shimla

#### **Dr. Sukhjit Singh**

Prof E Martinez University of Polytechnic Valencia

### **Laboratory Facilities**

- Computing Laboratory for M Sc/Ph D programme

### **Sponsored Research Projects**

DST-SERB Project entitled "Study of higher order iterative methods for solving non-linear equations"

## 11. PHYSICS

### Faculty

Name	Designation	Qualification	Email
Dr Arvinder Singh	Professor	Ph D (GNDU)	arvinders@nitj.ac.in
Dr H M Mittal	Associate Professor	Ph D (DU)	mittalhm@nitj.ac.in
Dr Jyoti Bharj	Associate Professor	Ph D (NITJ)	jyoti@nitj.ac.in
Dr Rohit Mehra	Associate Professor	Ph D (GNDU)	mehrar@nitj.ac.in
Dr Harleen Dahiya	Associate Professor & Head	Ph D (PU)	dahiyah@nitj.ac.in
Dr Praveen Malik	Assistant Professor	Ph D (TIET)	malikp@nitj.ac.in
Dr A P Singh	Assistant Professor	Ph D (JNU)	jaiswarsinghap@nitj.ac.in
Dr Arvind Kumar	Assistant Professor	Ph D (IITD)	kumara@nitj.ac.in
Dr Suneel Dutt	Assistant Professor	Ph.D (PU)	dutts@nitj.ac.in
Dr Vinod Ashokan	Assistant Professor	Ph.D (IIT,Rookee)	ashokanv@nitj.ac.in
Dr Kiran Singh	Assistant Professor	Ph.D (BU, Bhopal)	singhkp@nitj.ac.in
Dr Shishram Rebari	Assistant Professor	Ph.D(ISSER Mohali)	rebaris@nitj.ac.in

### Academic Programmes

#### M Sc Physics

A two year M Sc Programme in Physics is being offered by the Department w.e.f. Session 2006-2007.

#### Ph D Programmes

Full Time and Part Time Ph D Programmes in area of Laser-Plasma Interaction, Nuclear Physics, High Energy Physics, Radiation Physics, Liquid Crystal, Thin Films, Nanotechnology and Condensed Matter Physics are offered by the Department

In addition to the above mentioned programmes, B Tech/MTech core/elective courses are offered by the Department to the engineering disciplines

#### M. Tech Programme

Part time M Tech programme in Material Science and Technology

Full Time M Tech in Nuclear Science and Engineering

#### Research and Development

The faculty in the Department has interest in the following research areas:

Laser-Plasma Interaction, Nuclear Physics, High Energy Physics, Radiation Physics, Liquid Crystal, Thin Films, Nanotechnology and Condensed Matter Physics

### Laboratory Facilities

#### For Undergraduate Programme:

- Applied Physics Laboratory
- Material Science Laboratory

#### For Postgraduate Programme

- Electronics Laboratory
- Scientific Computation Laboratory
- Solid State Physics Laboratory
- Nuclear Physics Laboratory
- Plasma Physics Laboratory
- Spectroscopy Laboratory

#### Research Laboratory

- Computational Plasma Laboratory
- Radiation Physics Laboratory
- Liquid Crystal Laboratory
- Computational High Energy Physics Laboratory
- Advanced Nuclear Physics
- Environment Monitoring and Assessment Lab
- Carbon Nanostructures: Synthesis and Characterization Lab

- Thin film laboratory
- Multifunctional Research Laboratory
- Computational Quantum Many Body Physics Lab

#### **Sponsored Projects Undertaken**

- Some Universal Features of Nuclear Structure in Superdeformed Nuclei
- Strangeness and Charmness in Heavy Ion Collision Experiments
- Measurement of Radon, Thoron and progeny distribution in different type of houses in Bathinda, Mansa, Muktsar and Faridkot district of Punjab.
- Chiral Constituent Quark Model and Proton Spin Problem
- Hyperon Semi-leptonic Decays in the Chiral Constituent Quark Model
- Electromagnetic Structure of Hadrons at low-Q<sup>2</sup>
- Generalized and Transverse Momentum Dependent Parton Distributions
- Electro-optic and dielectric studies in nanomaterial's dispersed ferroelectric liquid crystals

#### **Sponsored Project on going**

- Efficient harmonic generation during laser plasma interaction
- Measurement of Terrestrial Natural Radionuclides in the environs of Moga and Ferozepur districts of Punjab
- Measurement of Radon, Thoron and their Progeny Distribution in the Different Type of Houses and Natural radioactivity in soil in Hanumangarh, Churu and Sri Ganganagar Districts of Rajasthan
- Semi-leptonic, radiative and non-leptonic rare B decays in the light front quark model
- Electrical and optical properties of Zinc and Strontium Stannate thin films
- Study of evolution of ZnSnO<sub>3</sub> phase in pure and doped Zinc stannate thin films with swift heavy ion irradiation
- Preparation and electro-optic studies of polymer stabilised Blue Phase Liquid Crystals for display applications
- Preparation and Investigations of Nanomaterials- polymer dispersed liquid crystal composites

## **12. BIOTECHNOLOGY**

#### **Faculty**

Name	Designation	Qualification	Email
Dr A K Jana	Professor and Head	Ph D (IITD)	janaak@nitj.ac.in
Dr Nitai Basak	Associate Professor	PhD (NITJ)	basakn@nitj.ac.in
Dr Anee Mohanty	Assistant Professor	Ph D (Nanyang Technological University)	mohantya@nitj.ac.in
Dr Indu Chauhan	Assistant Professor	PhD (IIT Roorkee)	chauhani@nitj.ac.in
Dr Mahesh Kumar Sah	Assistant Professor	Ph D ((NIT Rourkela)	sahmk@nitj.ac.in
Dr Nikhil G N	Assistant Professor	PhD (CSIR-Indian Institute of Chemical Technology, Hyderabad)	nikhilgn@nitj.ac.in
Dr Sumer Singh Meena	Assistant Professor	PhD (GGS Indraprastha University, Delhi)	meenass@nitj.ac.in

#### **Academic Programmes**

B Tech in Biotechnology

#### **Postgraduate Programme**

Full and Part Time Ph D Programmes in Biotechnology

#### **Departmental Summary**

Journal publications (International)	55	Journal publications (National)	8
Workshops/ conferences conducted/GIAN programme	2	STC conducted	3
Books/ Monographs/Book chapter published	4	Expert talks organized	2
Ph.D. students completed	4	Ph.D. students pursuing	7
Patents/IPR	0	Research Project completed	0
Total R&D Funding	5 lakhs	Consultancy Generated	0
Awards/Recognition to the faculty	-	Membership of Societies	19

#### **Field of expertise**

- Bioprocess Engineering
- Environmental Biotechnology
- Enzyme and Protein Engineering
- Bio Separation Engineering
- Bioremediation
- Stem cell Engineering
- Biofilm based bioprocesses
- Nanotechnology
- Biofuel and Bioenergy
- Biomaterials
- Bioinformatics

#### **Major Research Facilities**

- Biochemistry Laboratory
- Bioinformatics, Modelling and Simulation Lab
- Bio Instrumentation & Analysis Laboratory
- Biological waste treatment Laboratory
- Bioprocess Engineering Laboratory
- Cell and Tissue Culture Laboratory
- Genetic Engineering Laboratory
- Microbiology and Immunology Laboratory

#### **Laboratory Facilities**

- Microbiology Laboratory
- Biochemistry Laboratory
- Bioprocess Engineering Laboratory
- Molecular Biology and Genetic Engineering Laboratory
- Immunology Laboratory
- Cell and Tissue Culture Laboratory
- Separation Process in Biotechnology Laboratory
- Bioinformatics Laboratory
- Bioprocess Modelling and Simulation Laboratory
- Environmental Biotechnology Laboratory

#### **Major collaboration (National/International)**

Signed MOU on “Biotechnology and Process Engineering on Biofuel Production”, for Joint research Collaboration with Prof. Roberto De Philippis, Department of Agrifood Biotechnology, University of Florence, Italy on 11th May 2018, visited there May 09-13, 2018

#### **Achievement of Students**

- Mr Sujit J Patil, B.Tech Final Year passing out 2015, obtained All India Rank 2 in GATE 2015
- Ms Ankita, B.Tech Final Year passing out 2014, obtained All India Rank 12 in GATE 2014
- Mr Kapish Gupta B.Tech Final Year passed out 2012, obtained All India Rank 2 in GATE 2012
- Mr Kapish Gupta B.Tech Final Year passed out 2012, obtained All India Rank 5 in CSIR-UGC NET 2012

#### **Research and Development**

The faculties of the department are working in the research areas: Microbial Biotechnology, Enzyme Technology, Bioprocess Engineering, Green Biofuel production, Environmental Biotechnology.

## 13. CHEMICAL ENGINEERING

### Faculty

Name	Designation	Qualification	Email
Dr M K Jha (on leave)	Professor	Ph D (ISM)	jhamk@nitj.ac.in
Dr Ajay Bansal	Associate Professor & Head	Ph D (PU)	bansala@nitj.ac.in
Dr Renu Gupta	Associate Professor	PhD.(NITJ)	bansalr@nitj.ac.in
Dr Poonam Gera	Associate Professor	PhD.(NITJ)	chadhap@nitj.ac.in
Dr Sangeeta Garg	Associate Professor	PhD.(NITJ)	gargs@nitj.ac.in
Dr S Bajpai	Associate Professor	Ph D (NITJ)	bajpais@nitj.ac.in
Dr. Raj Kumar Arya	Associate Professor	PhD (IIT Bombay)	aryark@nitj.ac.in
Dr Jatinder Kumar Ratan	Assistant Professor	PhD (NITJ)	kumarj@nitj.ac.in
Dr. N K Srivastava	Associate Professor	MTech (IITR)	srivastavank@nitj.ac.in
Dr Neetu Divya	Assistant Professor	Ph D (NITJ)	divyan@nitj.ac.in
Dr Anurag Kumar Tiwari	Assistant Professor	Post Doc (Waterloo, Canada) PhD (IIT Kanpur)	tiwaria@nitj.ac.in
Dr Amit Dhruv Saran	Assistant Professor	Post PhD (USA) PhD (IIT Bombay)	saranad@nitj.ac.in
Dr Anjireddy Bhavanam	Assistant Professor	Post Doc (IIT Guwahati) PhD (NIT Warangal)	bhavanama@nitj.ac.in
Dr Shashikant Yadav	Assistant Professor	PhD (IIT Bombay)	shashikanty@nitj.ac.in
Dr Deepak Sahu	Assistant Professor	PhD (IIT Roorkee)	sahud@nitj.ac.in
Dr D Giribabu	Assistant Professor	PhD (IIT Kanpur)	giribabud@nitj.ac.in
Dr Nitin Naresh Pandhare	Assistant Professor	PhD (IIT Roorkee)	pandharenn@nitj.ac.in

### Academic Programmes

#### Undergraduate Programme

B Tech in Chemical Engineering

#### Postgraduate Programmes

MTech in Chemical Engineering

Full and Part Time Ph D Programmes in Chemical Engineering

#### Laboratory Facilities

- Fluid Mechanics Laboratory
- Unit Operations Laboratory
- Energy Engineering laboratory
- Chemical Technology Laboratory
- Heat Transfer Laboratory
- Mass Transfer Laboratory
- Chemical Process Control and Reaction Engineering Laboratory
- Pollution Abatement Laboratory
- Bio-Chemical Engineering Laboratory
- Process Modeling and Simulation Laboratory
- Departmental Computer Centre
- Post Graduate Lab

#### Research and Development

The faculty members of the department are actively engaged in guiding research in the areas of Chemical Engineering, Biochemical Engineering, Petroleum Engineering, Energy and Environment, Biodegradable Plastics, Multiphase Flow, Conversion of bio-mass to fuels and chemicals.

Kinetic modeling, Nanoplasmonics, Bio-Fluid Dynamics, Microfluidic, Complex Rheology Fluids, Fluid Mechanics, Heat Transfer, Process Safety, Fire Dynamics, Developing nanoparticle-based biosensors for glucose and similar biological analytes, CO<sub>2</sub> Sequestration, Multiphase Reactions, Mineral Carbonation, Waste Utilization and Management, Analytical, Numerical and Soft-Computing Modeling and Optimization of Reaction Processes, Social and Economic Engineering, Edible film etc.

### **Sponsored Projects**

- Effective Pollution Abatement and Efficient Biogas Generation from Molasses based Industrial Effluent
- Modernization of Chemical Technology Laboratory
- Modernization of Fuel Technology laboratory
- Modernization of Industrial Pollution Abatement Laboratory
- Thrust Area Project on Production, Recovery and Application of Enzymes
- Modernization of Chemical Process Control Laboratory
- TEQIP project for creating Bio-Engineering facility, up gradation of Mass Transfer Laboratory and expansion of Fluid Mechanics Laboratory
- Study on Treatment of Groundwater of AB Sugar Ltd

## **14. CIVIL ENGINEERING**

### **Faculty**

Name	Designation	Qualification	Email
Dr A K Agnihotri	Professor	Ph D (UOR)	agnihotriak@nitj.ac.in
Dr A P Singh	Professor	Ph D (PTU)	singhap@nitj.ac.in
Dr S P Singh	Professor & Head	Ph D (UOR)	spsingh@nitj.ac.in
Dr H S Chores	Associate Professor	Ph D (NIT Nagpur)	chorehs@nitj.ac.in
Dr Davinder Singh	Assistant Professor	Ph. D (NITJ)	singhdj@nitj.ac.in
Dr Rizwan Ahmad Khan (on lien to AMU)	Assistant Professor	Ph D (IITD)	khanar@nitj.ac.in
Ms Shailja Bawa	Assistant Professor	M Tech (PU)	bawas@nitj.ac.in
Dr. K. Senthil	Assistant Professor	Ph D (IITR)	kasilingams@nitj.ac.in
Dr. Shashi Kant Sharma	Assistant Professor	Ph D (IITR)	sharmask@nitj.ac.in
Dr. S. Rupali	Assistant Professor	Ph D (IITR)	satavalekarr@nitj.ac.in
Dr. Rajiv Kumar	Assistant Professor	Ph D (IITR)	kumarr@nitj.ac.in
Dr. Navdeep Singh	Assistant Professor	Ph D (NITJ)	navdeeps@nitj.ac.in
Dr. Kanish Kapoor	Assistant Professor	Ph D (NITJ)	kapoork@nitj.ac.in
Dr. Mahesh Patel	Assistant Professor	Ph D (NITJ)	patelm@nitj.ac.in

### **Academic Programmes**

#### **Undergraduate Programme**

B Tech in Civil Engineering

#### **Postgraduate Programmes**

M Tech Full Time in Structural and Construction Engineering

M Tech Full Time in Geotechnical and Geo-environmental Engineering

PG Diploma Full Time in Structural and Construction Engineering

PG Diploma Full Time in Geotechnical and Geo-environmental Engineering

Ph D Full Time and Part Time in various specializations of Civil Engineering

#### **Laboratory Facilities**

- Environmental Engineering Laboratory
- Geotechnical Engineering Laboratory
- Structures Testing Laboratory
- Concrete Technology Laboratory
- Transportation Engineering Laboratory
- Survey Laboratory
- CAD Laboratory
- Structural Analysis Laboratory
- Hydraulic Engineering Laboratory
- Computation Laboratory

## **Research and Development**

The faculty of the department has interest in the following research areas:

Structural Analysis and Design: Computer Applications and Finite Element Analysis Techniques, Linear and Non-linear Analysis.

Structural Materials: Applications of Steel Fibre Reinforced Concrete in Structural Components, Permeability Studies, High Performance Concrete, Fatigue Behaviour.

Geo-technical Engineering: Applications of Geotextiles and Geo-fibres in Foundation Engineering, Reinforced Soil Systems.

Geo-environmental Engineering, Pavement Design

As part of its efforts in forging a close relationship with the industry, the department maintains a close liaison with various government/public and private sector organizations by virtue of rendering them consultancy services in most of areas viz. structural analysis and design of steel and concrete structures, material testing, geotechnical investigations and survey work.

## **Sponsored Projects**

- UKIERI Collaborative Research Project –on Sustainable High Performance Concrete Infrastructure.
- Modernization of Concrete Structure Laboratory
- Earthquake resistant Design of reinforced concrete structural members.
- Modernization of Geotechnical Engineering Laboratory
- Engineering properties of fibre reinforced soil and its applications to shallow foundations
- Modernization of Surveying Laboratory
- Permeability of Steel Fibre Reinforced Concrete.
- DST-FIST Project
- Collaborative Project (University of Bath and NIT Jalandhar) sponsored by The Royal Society, UK.

## **15. COMPUTER SCIENCE AND ENGINEERING**

### **Faculty**

Name	Designation	Qualification	Email
Dr Ajay K Sharma	Professor (on lien)	Ph D (KUK)	sharmaajayk@nitj.ac.in
Dr A L Sangal	Professor	Ph D (NITJ)	sangalal@nitj.ac.in
Sh D K Gupta	Associate Professor	M.Tech (NITJ)	guptadk@nitj.ac.in
Dr Geeta Sikka	Associate Professor	PhD (NITJ)	sikkag@nitj.ac.in
Dr Harsh K Verma	Associate Professor & Head	Ph D (PTU)	vermah@nitj.ac.in
Dr Renu Dhir	Associate Professor	Ph D (Pbi U)	dhirr@nitj.ac.in
Dr Avtar Singh	Assistant Professor	Ph D	avtars@nitj.ac.in
Dr Krishna Pal Sharma	Assistant Professor	Ph D	sharmakp@nitj.ac.in
Dr Kuldeep Kumar	Assistant Professor	Ph D	kumark@nitj.ac.in
Dr Nonita	Assistant Professor	Ph D	nonita@nitj.ac.in
Sh Rahul Aggarwal	Assistant Professor	B Tech (GNDU)	aggarwalr@nitj.ac.in
Dr Rajneesh Rani	Assistant Professor	MTech (Pbi U)	ranir@nitj.ac.in
Dr Samayveer Singh	Assistant Professor	Ph D	veers@nitj.ac.in

### **Academic Programmes**

#### **Undergraduate Programme**

B Tech in Computer Science and Engineering

#### **Postgraduate Programmes**

M. Tech. in Computer Science & Engineering (45)

M. Tech. in Information Security (12)

Full and part Time Ph D Programme in Computer Science & Engineering (35)

### **Departmental Summary – Since Inception**

Journal publications (International)	285	Journal publications (National)	
Workshops/ conferences conducted	08	STC conducted	17
Books/ Monographs/Book chapter published	26	Expert talks organized	
Ph.D. students completed	25	Ph.D. students pursuing	35
Patents/IPR	03	Research Project completed	06
Total R&D Funding	199.19 Lakhs	Consultancy Generated	02
Awards/Recognition to the faculty	18	Membership of Societies	06

### **Laboratory Facilities**

- RDBMS
- Wireless Data and optical Networks
- Linux
- Computer Programming
- Microprocessor
- Project Laboratory
- Computer Network
- Robotics and Artificial Intelligence
- Natural Language & Pattern Recognition
- Data Communication
- Embedded Systems
- Software Engineering
- Information Security
- Computer Graphics
- Operating Systems
- Digital Circuit Logic Design

### **Research and Development**

The faculty of the department has interest in the following research areas: Algorithms, Information Security, Numerical Analysis and Scientific Computing, Wireless and Optical Computer Networks, Distributed Systems, Software Systems and Natural Language Processing, Optical Communication Systems, Optical Networks, Wireless Communication Systems, Wireless sensor networks, Wireless Adhoc Networks, Scientific Computing, Numerical Computing, Computer Networks, Information Security, Data Mining, Big data, Data Analytics, pattern Recognition, AI and Soft Computing Operating Systems, Digital Image Processing, Document Image Analysis, Cloud Computing, Internet of Things (IoT), Parallel and Distributed Computing, Software Engineering, Applied Machine Learning, Distributed Systems, Software Engineering, Steganography.

### **Sponsored Projects and Lab Development**

- Information Security Education and Awareness (ISEA) Project
- Modernization of Robotics and Artificial Intelligence Laboratory
- Modernization of PC Maintenance and Audio-Visual Laboratory
- Modernization of Microprocessor Laboratory
- Setting up of Advanced RDBMS Laboratory
- Setting up of Advanced Wireless Data & Optical Networks Lab
- Setting up of Advanced Sensor Networks Lab.
- Designing and Simulation of High Data Rate Optical Fiber Transmission Systems
- Studies on Dispersion and Fiber Nonlinearities for Optical Communication Systems and Networks
- Studies on broadband optical communication systems
- Development of Robust Document Image Analysis and Bilingual Recognition System for Printed Gurmukhi and, Roman Scripts
- Information Security Education and Awareness
- Learn able Indoor Transportation Robot (LITR)
- Analysis and Optimization of Attack Graphs
- CCDA: Tool support for Detecting and Analyzing High-level Code Clones in Software to re-engineer legacy systems for Reuse
- Inferring High-level Code Similarities in Software Systems using String-Metric Based Hybrid Technique,
- Course developed “Principles of Programming Languages” under Developing suitable pedagogical methods for various classes, intellectual calibers and research in e-learning
- Adopting PDC Topics from TCPP Core Curriculum in Data Structures and Computer Architecture Courses at Undergraduate level
- A Novel Method of FWM Suppression for DWDM and WDM Optical Transmission Links
- Method for hiding private information
- Copyright - Computer Software Work "Program for Attack Graph Generation, Optimization and Prioritization

## 16. INFORMATION TECHNOLOGY

### Faculty

Name	Designation	Qualification	Email
Dr Geeta Sikka	Associate Professor	PhD (NITJ)	sikkag@nitj.ac.in

### Academic Programmes

#### Undergraduate Programme

B Tech in Information Technology

## 17. ELECTRONICS & COMMUNICATION ENGINEERING

### Faculty

Name	Designation	Qualification	Email
Dr R K Sarin	Professor	PhD (St. Petersburg)	sarinrk@nitj.ac.in
Dr Arun Khosla	Professor	PhD (IPU)	khoslaak@nitj.ac.in
Dr B S Saini	Professor	PhD (NITJ)	sainibs@nitj.ac.in
Dr Ramesh K Sunkaria	Associate Professor & Head	PhD (IITR)	sunkariak@nitj.ac.in
Dr Mamta Khosla	Associate Professor	PhD (NITJ)	khoslam@nitj.ac.in
Dr Ashish Raman	Assistant Professor	PhD (NITJ)	ramana@nitj.ac.in
Dr Balwinder Raj	Assistant Professor	PhD (IITR)	rajb@nitj.ac.in
Dr Deepti Kakkar	Assistant Professor	PhD (NITJ)	kakkard@nitj.ac.in
Dr Indu Saini	Assistant Professor	PhD (NITJ)	sainii@nitj.ac.in
Dr Neetu Sood	Assistant Professor	PhD (NITJ)	soodn@nitj.ac.in
Dr Nitesh Kashyap	Assistant Professor	PhD (IIIT Jabalpur)	kashyapn@nitj.ac.in
Dr Pawan Kumar Verma	Assistant Professor	PhD (MNIT Allahabad)	vermapk@nitj.ac.in
Dr Sateesh Kumar Awasthi	Assistant Professor	PhD (IIT Kanpur)	awasthisk@nitj.ac.in
Dr Sukwinder Singh	Assistant Professor	PhD (IIT Roorkee)	sukwinders@nitj.ac.in
Dr Deepak Bharti	Assistant Professor	PhD (IIT Jodhpur)	bhartid@nitj.ac.in

### Academic Programmes

#### Undergraduate Programme

B Tech in Electronics and Communication Engineering

Minor Degree in Electronics and Communication Engineering

#### Postgraduate Programmes

M.Tech in Electronics & Communication Engineering (Full time)

M.Tech in VLSI Design (Full time)

Post Graduate Diploma (PGD) in Electronics and Communication Engineering

Full and Part Time PhD Programmes in Electronics & Communication Engineering

### Laboratories

- Basic Electronics Lab
- Biomedical Signal Processing and Telemedicine Lab
- Communication Systems Lab
- Devices and Circuits Lab
- Digital Signal Processing Lab
- Embedded System Lab
- Emerging Technologies Lab
- Medical Imaging and Computer Modeling of Physiological System Research Lab
- Microwave Engineering Lab
- Nano Electronics Research Lab
- VLSI Design Lab

### Research Areas

VLSI Design, RF Design, Semiconductor Device modeling, Biomedical Signal Processing, Machine learning, Physiological Variability Studies, ECG Signal Analysis and Interpretation, Image Processing, Wireless Systems design, OFDM and next generation wireless systems, Cognitive Radio, Intelligent Systems and Emerging technologies, Technology for Autism.

### **Sponsored Projects (Ongoing)**

- DST FIST funded Project Characterization of Semiconductor Devices, Chief Coordinator: Dr. Arun Khosla, Coordinators: Dr. Mamta Khosla and Dr. Balwinder Raj, 2014-2019
- SMDP C2SD (Special Manpower Development Programme Chip to System Design), Chief Coordinator: Dr. R K Sarin, Co-coordinator: Dr. Ashish Raman, 2015-2020
- Design and Development of Low Power ONOFIC for Smart Safety System, SERB, DST, Govt. of India, PI: Dr. Balwinder Raj, 2017-2020
- Design and Development of Anti-Eve teasing device for woman safety, Project cost: 15.00 Lac, Project type: R&D, Funding agency: Ministry of Electronics and Information Technology (MeitY), Investigating team: Dr Neetu Sood and Dr Indu Saini, 2018-2020

## **18. INDUSTRIAL AND PRODUCTION ENGINEERING**

### **Faculty**

Name	Designation	Qualification	Email
Dr Arvind Bhardwaj	Professor	Ph D (KUK)	bhardwaja@nitj.ac.in
Dr R K Garg	Professor	Ph D (TIET)	gargrk@nitj.ac.in
Dr Ajay Gupta	Associate Professor & Head	PhD (NITJ) & MBA (IGNOU)	guptaa@nitj.ac.in
Dr Anish Sachdeva	Associate Professor	Ph D (IITR)	asachdeva@nitj.ac.in
Er R K Bansal	Associate Professor	ME (IITD)	bansalrk@nitj.ac.in
Dr Sarabjit Singh Bal	Associate Professor	PhD (NITJ)	balss@nitj.ac.in
Dr Vishal S Sharma	Associate Professor	Ph D (KUK)	sharmavs@nitj.ac.in
Dr Rakesh K. Sharma	Associate Professor, COE	Ph D (IITR)	sharmark@nitj.ac.in
Dr Lakhwinder Pal Singh	Assistant Professor	Ph.D (NITJ)	singhl@nitj.ac.in
Dr Mohit Tyagi	Assistant Professor	PhD (IITR)	tyagim@nitj.ac.in
Dr Rajeev Trehan (*)	Assistant Professor	PhD (NITJ)	trehanr@nitj.ac.in
Dr Rajeev Verma	Assistant Professor	PhD (PEC)	vermar@nitj.ac.in
Dr Dilbagh Panchal	Assistant Professor	PhD (IITR)	panchald@nitj.ac.in
Dr Ravi Pratap Singh	Assistant Professor	PhD (NITK)	singhrp@nitj.ac.in
Dr Shailendra Singh Bhadauria	Assistant Professor	PhD (NITB)	bhadauriass@nitj.ac.in
Dr Kapil Kumar	Assistant Professor	PhD (IITR)	goyalkk@nitj.ac.in
Dr Varun Sharma	Assistant Professor	PhD (SLIET)	sharmav@nitj.ac.in

(\*) Dr Rajeev Trehan, Assistant Professor, Centre of Training and Placement are involved in the Department of Industrial and Production Engineering for teaching of UG & PG courses.

### **Academic Programmes**

#### **Undergraduate Programme**

B Tech. in Industrial and Production Engineering.

#### **Postgraduate Programmes**

M. Tech. in Industrial Engineering

M. Tech. in Manufacturing Technology

PG Diploma in Industrial Engineering

Full and Part Time PhD Programmes in Industrial and Production Engineering

#### **Laboratories**

- Mechanical Measurements and Metrology Laboratory
- Computer Aided Manufacturing and Automation Laboratory (CAMAL).
- Modern Tool Room/Non Traditional Machining Methods Laboratory.
- Work-study and Ergonomics Laboratory.
- Computational and CAD Laboratory

#### **Research and Development**

The faculty of the department has expertise in the following research areas: Supply Chain Management, EDM, PMEDM, Wire-EDM, Reliability and Maintenance Engineering, Stochastic Modeling and Simulation , Additive Manufacturing,

Machining, Condition monitoring, Operations Research, Theory of Constraints, Materials Management, Statistics, Human Factors Engineering, Ergonomics, Occupational Health and Safety, Statistical Quality Control, Project Management, Facilities Planning & Value Engineering, Lean, Six Sigma, Productivity Improvement, Manufacturing Flexibility, Factories of the Future, Design of Manufacturing Systems, Engineering Economics, Industrial Psychology and Entrepreneurship, Multi-objective Optimization and Discrete Event Simulation, Outcome Based Education (OBE); Engineering Education Optimization, Environment management, Green Manufacturing, Fuzzy Decision Making, Quality Management, Design, Planning, Scheduling and Performance optimization of Manufacturing Systems (CMS, FMS, RMS), Decision Science, Nature inspired optimization algorithms, Supply Chain (Green, Sustainable, Cold, Global, Food and Agriculture) Performance System, Reverse Logistics, 3PL and 4PL Logistics, Corporate Social Responsibility (CSR), New Product Development, Quality Control, Decision Analytics, Coating Technology, Computer Aided Engineering, Non-conventional manufacturing processes, Rotary Ultrasonic Machining, Ultrasonic Machining, Processing of Ceramic & Composite Materials, Surface Integrity, Microstructure Analysis, Analytical, Experimental and Computational Fracture Mechanics, Stress Corrosion Cracking, Welding, Metallurgy.

#### **Sponsored Projects handled**

- Investigation of Biodynamic Responses Among Indian Tractor Operators Exposed to Whole Body Vibration.
- Experimental investigations of inconel super alloys by EDM wirecut.

#### **Sponsored Research Projects**

1. Investigation of Stress Corrosion Cracking behavior of gas nitro carburizing heat treated AISI4340 steel.
2. Stress Corrosion Cracking of Gas Nitro Carburizing heat-treated AISI4340 steel at different R ratio.
3. Internally sponsored research project entitled as-“Performance Analysis of Milk Process Industry” under TEQIP-III.
4. Internally sponsored research project entitled as-“Study of Penetration Rate and Chipping Diameter in Rotary Ultrasonic Drilling of Macor Dental Ceramic” under TEQIP-III.
5. Internally sponsored research project entitled as-“Development and Evaluation of Durable Micro-Textured Superhydrophobic Surfaces” under TEQIP-III.
6. Investigation of Stress Corrosion Cracking resistance on 316L stainless steel with the coating of TiO<sub>2</sub>.
7. Investigation of Stress Corrosion Cracking of gate valve disc made of F306 stainless steel.

#### **Consultancy Services**

Date	Company	Description of problem	Concerned faculty
July-Dec 2018	M/S Mittal Industries	Verification of the product manufactured by M/s Mittal Industries Hoshiarpur	<b>Dr. Rajeev Trehan</b>
July-Dec 2018	Noise Assessment at Forgoing Industry	R K Forging, Jalandhar	<b>Dr. L P Singh</b>
Jan-June 2019	M/s ARK International Jalandhar	Consultancy to reduce Noise Pollution caused by forging Hammers	<b>Dr. Rajeev Trehan</b>
Jan-June 2019	M/s ARK Tools	Sound level measurement and control in case of power hammer at focal point, Jal.	<b>Prof. Arvind Bharadwaj</b> <b>Prof. Anish Sachdeva</b>

#### **Research Collaboration**

##### **International**

- University of Plymouth, UK
- Vilnius Gediminas Technical University, Vilnius, Lithuania
- Universidad Loyola Andalucia, Spain

##### **National**

- Delhi Technological University, Delhi
- IIM Lucknow
- Graphic Era University Dehradun
- IIT Roorkee
- NITIE Mumbai

##### **Patents/IPR:**

- Ergonomic Design of Transfer Assisting Device (filed).

### **PEO's of the department**

**To serve the nation by producing qualified and skilled engineers who will**

- I. Excel in professional career and/or higher education by acquiring knowledge in Engineering, Computational and Statistical principles.
- ii. Have the ability to analyze real life problems and develop solutions that are technically sound, economically feasible and socially acceptable.
- iii. Exhibit professionalism, ethical attitude, communication skills, team work in their profession and adapt to current trends by engaging in lifelong learning.

## **19. INSTRUMENTATION AND CONTROL ENGINEERING**

### **Faculty**

Name	Designation	Qualification	Email
Dr A K Jain	Professor	Ph D (NITJ)	jainak@nitj.ac.in
Dr Dilbag Singh	Associate Professor	Ph D (IITR)	singhd@nitj.ac.in
Dr Kuldeep Singh Nagla	Associate Professor & Head	PhD (NITJ)	naglaks@nitj.ac.in
Er. Narinder Singh Bhangal	Associate Professor	MTech (PAU)	singhn@nitj.ac.in
Dr Rajesh Singla	Associate Professor	PhD (NITJ)	singlar@nitj.ac.in
Mrs Roop Pahuja	Associate Professor	MTech (IITR)	pahujar@nitj.ac.in
Dr Sarwan Kumar Pahuja	Associate Professor	Ph D (IITD)	pahujas@nitj.ac.in
Dr Sheela Tiwari	Associate Professor	Ph D (NITJ)	tiwaris@nitj.ac.in
Dr Afzal Sikander	Assistant Professor	Ph D	afzals@nitj.ac.in
Dr Amit Kumar Singh	Assistant Professor	Ph D	singhak@nitj.ac.in
Dr Karan Veer	Assistant Professor	Ph D	veerk@nitj.ac.in
Dr Om Prakash Verma	Assistant Professor	Ph D	vermaop@nitj.ac.in
Dr Sathiya S	Assistant Professor	Ph D	sathiya@nitj.ac.in

### **Academic Programmes**

#### **Undergraduate Programme**

B Tech in Instrumentation and Control Engineering

#### **Postgraduate Programmes**

MTech (Full-Time) in Control and Instrumentation Engineering,

MTech (Part-Time) in Control and Instrumentation Engineering,

Ph D Programmes - Full Time and Part Time

#### **Laboratories**

- Analytical Instrumentation Laboratory
- Biomedical Instrumentation Laboratory
- Control Engineering Laboratory
- Electrical Machines Laboratory
- Fabrication Unit and Transducers Laboratory
- Measurement and Circuit Laboratory
- Microprocessor based Instrumentation Laboratory
- Computing Laboratory
- Process Control Instrumentation Laboratory
- Robotics Laboratory
- Signal Processing Laboratory
- Virtual Instrumentation Laboratory
- Human Machine Interface Laboratory
- Wireless Networks Laboratory

#### **Research and Development**

The faculty members of the department have interest in the following research areas: Wireless Network, Bio Medical Instrumentation and Signal Professing, Medical Imaging, Wireless Sensor Network, Applications and Virtual Instrumentation, Power System Operation and Control/ Artificial Intelligence, Artificial in Human Machine Interface, Robotics.

### **Sponsored Projects**

- Collaborative Project on **ECG data** base for Indian Healthy Population with IITR and University of Glasgow (Completed)
- Laboratory up gradation under TEQIP-II grant (Ongoing)
- Robot for cleaning the surface below the railway tracks at Railway Platform (Completed)
- INDO-KOREAN joint R&D Project entitled “Real time shared – autonomy systems for field mobile robots” (Joint research collaboration between NIT- Jalandhar and School of Electrical Engineering, Korea University, Seoul) (In process)

### **Consultancy**

- Collaborative consultancy on performance testing of small Hydroelectric plants with AHEC, IIT Roorkee.
- R&D consultant to Steinbeis GmbH & Co. KG fur Technologie transfer, Willi-Bleicher-Strasse 19, Germany.

### **IPR (Intellectual Property Rights)**

#### **Patents**

- Mechanism to Clean Bird Dropping (Garbage) within a Cage type Poultry Farm, Indian Patent no 210090, Granted on 18/9/2007, Inventor: KS Nagla
- An Intelligent Leg Exercise Machine, Patent application no 427/del/2007, First examination over, inventors: K S Nagla, Dr Moin Uddin, Amandeep Singh Kalra, Akshay Kathiyal.
- A Method and Mechanism to Control the Position and Orientation of Cleaning Nozzle of Robot, 2489/DEL/2009, Inventors: K S Nagla, Dr. MoinUddin, Dr. R.Jha
- Patent applied entitled “Induction Hardening Machine” with DAV Institute of engineering and Technology, Jalandhar, Patent application number 2269/del/2012, inventors Amit Kohli, KS Nagla, Hari Singh

#### **Designs**

- Decorative Article, Indian Design No 207315, Granted on 6th Dec.,2006, Designer: KS Nagla
- Industrial design Heat treatment tray, Indian Design No 254948, Granted on 3/7/2013
- Indian design patent titled “Door Handle”, Indian Design no 265973, Granted on 20-02-2015

#### **Copy Rights**

- Gralu kam karj lai bhawikh which robots the jogdan ©L-37672/2011 Dt. 18/03/2011, Copy Right of Dr KS Nagla
- Solar water heating system ate is the mohatav ©L-37671/2011, Dt. 18/03/2011, Copy Right of Dr KS Nagla
- IPR Ki Hai ©L-37370/2011, Dt. 18/03/2011, Copy Right of Dr KS Nagla
- Soorji photovoltaic upkarn ©L-37669/2011, Dt. 18/03/2011, Copy Right of Dr KS Nagla
- Pani de shudikharn dealn navian vidian ©L-36944/2011, Dt. 06/01/2011, Copy Right of Dr KS Nagla
- Discovering a twist on the stem of eucalyptus plants, Discovered by: KS Nagla, ©L-29494/2007 Dt. 12/11/2007
- Discovering a Unique Twist Pattern in of Nassella Neesiana, Discovered by: KS Nagla, ©L-35431/2010, Dt. 09/02/2010
- Discovering Buoyancy Force Based Perpetual Motion Machine, Discovered by: KS Nagla, ©L-35432/2010, Dt. 09/02/2010

#### **Computer Software Developed**

- Program tool Multi-sensor data fusion: focused on mobile robots mapping, Copy Right © Diary no 3390/2015-co/SW dated 08/04/2015
- Program tool corner extraction using laser range finder focused on mobile robot mapping applied for copy right © Diary Number 3390/2015-CO/SW, April, 2015.

## **20. ELECTRICAL ENGINEERING**

### **Faculty**

Name	Designation	Qualification	Email
Dr Kuldeep Singh Nagla	Associate Professor & Head	PhD	naglaks@nitj.ac.in

### **Academic Programmes**

#### **Undergraduate Programme**

B Tech in Electrical Engineering

## 21. MECHANICAL ENGINEERING

### Faculty

Name	Designation	Qualification	Email
Dr Joseph Anand Vaz	Professor	Ph D (IITKh)	anandvaz@nitj.ac.in
Dr Subhash Chander	Professor	PhD (IITD)	chanders@nitj.ac.in
Er Ajay Trehan	Associate Professor	MTech (NITJ)	trehana@nitj.ac.in
Dr Dinesh K Shukla	Associate Professor & Head	Ph D (IITD)	shukladk@nitj.ac.in
Dr Pramod Kumar	Associate Professor	Ph D (NITJ)	kushwahapramod@nitj.ac.in
Dr R S Bharj	Associate Professor	Ph D (NITJ)	bharjrs@nitj.ac.in
Dr Rajeev Kukreja	Associate Professor	Ph D(IITD)	kukrejar@nitj.ac.in
Dr Raman Bedi	Associate Professor	PhD (NITJ)	bedir@nitj.ac.in
Dr S K Tiwari	Associate Professor	PhD (NITJ)	tiwarisk@nitj.ac.in
Dr T Srinivas	Associate Professor	PhD (JNTUH)	srinivast.nitj.ac.in
Dr Sarbjot Singh Sandhu	Assistant Professor	Ph D (IITD)	sandhuss@nitj.ac.in
Dr Ranchan Chauhan	Assistant Professor	PhD (NITH)	chauhanr@nitj.ac.in
Dr Sumit Sharma	Assistant Professor	Ph.D (NITJ)	sharmas@nitj.ac.in
Dr Saurabh Kango	Assistant Professor	Ph.D (NITH)	kangos@nitj.ac.in
Dr Nitin Sharma	Assistant Professor	Ph.D (NITH)	sharman@nitj.ac.in
Dr Dwesh Kumar Singh	Assistant Professor	Ph.D (ISMD)	singhdk@nitj.ac.in
Dr Manoj Kumar	Assistant Professor	Ph.D (IITK)	kumarm@nitj.ac.in
Dr Rajan Kumar	Assistant Professor	Ph.D (IITM)	rajank@nitj.ac.in
Dr Sanjay	Assistant Professor	Ph.D (MNITJ)	sanjay@nitj.ac.in
Dr Satyender Singh	Assistant Professor	Ph.D (NITH)	satyenders@nitj.ac.in
Dr Ashok Kumar	Assistant Professor	Ph.D (IITD)	baghaak@nitj.ac.in

### Academic Programmes

#### Undergraduate Programme

B Tech in Mechanical Engineering

#### Postgraduate Programmes

MTech in Thermal Engineering

MTech in Design Engineering

Full and Part Time Ph D Programmes in Mechanical Engineering

PG Diploma in Thermal Engineering

PG Diploma in Design Engineering

#### Laboratories

- Automation and Mechatronics Laboratory
- Automobile Engineering Laboratory
- Advanced Heat Transfer Laboratory
- Computer Aided Design Laboratory
- Engines and Unconventional Fuel Laboratory
- Experimental Stress Analysis Laboratory
- Fluid Machinery Laboratory
- Fluid Mechanics Laboratory
- Fuels and Research Laboratory
- Heat Transfer Laboratory
- Heat Engine Laboratory
- Material Characterization Laboratory
- Mechanical Measurements Laboratory
- Refrigeration and Air Conditioning Laboratory
- Strength of Materials Laboratory
- Theory of Machines Laboratory
- Thermal Comfort & Building Energy Laboratory
- Vibrations Laboratory

#### Research and Development

The faculty of the department has interest in the following research areas: Mechatronics and Automation, Dynamics & Control, Vibrations, Composite Materials, IC Engines, Refrigeration and Air Conditioning and Combustion ,Machine Design, Robotics, CFD, Alternative fuels for IC Engines, Thermal System Design, Alternative Refrigerants, Heat Exchanger Design, Power Plant Engineering, Welding Technology, Renewable Energy, Bulk Material Handling, Synthesis of carbon Nano tubes and Nano- composite materials, Fatigue of Composite Materials, Active noise control, Active structural-

acoustic control, Active vibration control, Vibro-acoustics, Finite element methods, Experimental modal analysis, Finite element model updating, Numerical fluid flow, Continuum Damage Mechanics Model, Dynamic Fracture Mechanics, High Strain Rate Behavior, Large Deformation Elasto-Plastic Impact/Contact Problems, Design and Tribology of Bearings, Porous Journal Bearings, Hydrodynamic Lubrication, Surface Texturing, Non-Newtonian Fluid Rheology, Microfluidics, Nano-fluidics, Thermal comfort, Building Energy Efficiency, Energy Simulations, Sustainable Buildings, Fluid Flow and Heat Transfer Evaluation of Hydrophobic and Super-hydrophobic surfaces, Micro Surface Texturing/Grooving; Non-Newtonian Rheologies of lubricants, Mechanical Behavior of Materials, Molecular Dynamics, Density Functional Theory, Polygeneration, Power Free Solar Trackers, Hybrid Solar-Biomass Systems, Conducting Exergy Scrutinizing, Heat Recovery Options In Cement Factory, Desalination, Solar Cooling, Advanced Combined Cycle Systems, ORC And KCS Plants.

#### **Sponsored Projects**

- Modernization of Fluid Machine Laboratory
- Modernization and Removal of Obsolescence of Thermal Laboratory
- Establishment of CAD Laboratory
- Modernization and Development of Automobile Laboratory
- Augmentation of Facilities for Industrial Automation and Mechatronics Laboratory
- Modernization of Thermal Laboratory
- Study of Dynamic Behavior of Composite Materials (Thrust area project)
- Investigation of Damping in Fiber Reinforced Composites (R&D)
- Evaluation of In cylinder Combustion of Bio-diesels (R&D)
- Study on condensation characteristics of refrigerants in Macro and Micro Channels
- FIST program of DST in level-1 of Engineering Science area
- Comparative Performance Evaluation, Emissions and Combustion Characteristics of a Compression Ignition Engine using Castor Biodiesel (SERB sponsored)

#### **Consultancy Services**

Date	Company	Description of problem	Concerned faculty
Feb. 2019	M/S. Vertex International Private Limited 2nd Floor, Shabi Market, Mori Gate, Delhi-110006.	Flow of Water at Intake Section: (a) To Increase the Discharge at as per Design Value (b) Solution for the Hydraulic Jump in the Channel	Dr. Subhash Chander Dr. Satyender Singh
Feb. 2019	M/S. Vertex International Private Limited 2nd Floor, Shabi Market, Mori Gate, Delhi-110006.	Desilting Basin: (a) Solution for the reverse flow problem (b) Alternative design to maintain uniform flow	Dr. Subhash Chander Dr. Satyender Singh
March 2019	AGI Infrastructure	Natural Aeration Rotating Drum Composting Technique for Solid Waste Management-A Case Study of Gated Community in India	Dr. R.S. Bharj

#### **Research Collaboration**

##### **International**

- Ecole Centrale de Lille, France
- Ritsumeikan University, Kyoto, Shiga, Osaka, JAPAN

##### **National**

- CSIR National Metallurgical Laboratory, Jamshedpur
- CSIR, Central Building Research Institute, Roorkee
- Department of Energy, Tezpur University, Assam
- IIT Mandi
- IIT Roorkee
- Luminous Power Technologies
- SSS National Institute of Renewable Energy
- TATA Steel Limited Jamshedpur
- TBRL-DRDO Chandigarh

**Placement details****(For 2015-19 Batch)**

There was 100% placement of B.Tech students of Mechanical Engineering in core companies.

## 22. TEXTILE TECHNOLOGY

### Faculty

Name	Designation	Qualification	Email
Dr Vinay Midha	Professor & Head	Ph D (IITD)	midhav@nitj.ac.in
Dr S Ghosh	Professor	Ph D (IITD)	ghoshs@nitj.ac.in
Dr J N Chakraborty	Professor	Ph D (IITD)	chakrabortyjn@nitj.ac.in
Dr S K Sinha	Professor	Ph D (NITJ)	sinhask@nitj.ac.in
Dr A Mukhopadhyay	Professor	Ph D (MDU)	arunangshu@nitj.ac.in
Dr A Chatterjee	Professor	Ph D (IITD)	chatterjeea@nitj.ac.in
Dr N Bhowmick	Associate Professor	Ph D (NITJ)	bhowmickn@nitj.ac.in
Dr M D Roy	Associate Professor	Ph D (NITJ)	roymd@nitj.ac.in
Dr A K Choudhary	Associate Professor	Ph D (NITJ)	choudharyak@nitj.ac.in
Dr Monica Sikka	Associate Professor	Ph D (NITJ)	sikkam@nitj.ac.in
Dr. Lalit Jajpura	Associate Professor	Ph D (Tech.) (ICT Mumbai)	jajpura@nitj.ac.in
Dr. Palaniswamy N. K.	Associate Professor	Ph D (Anna University)	nkpalaniswamy@nitj.ac.in
Dr KVP Singh	Assistant Professor	Ph D (NITJ)	singhkv@nitj.ac.in

### Academic Programmes

#### Undergraduate Programme

B Tech in Textile Technology

#### Postgraduate Programmes

MTech (Full Time) in Textile Engineering and Management,

MTech (Part Time) Textile Technology

Ph D Programmes- Full Time and Part Time

### Departmental Summary – Since Inception in 1989

Journal publications (International)	328	Journal publications (National)	149
Workshops/ conferences conducted	24	STC conducted	14
Books/ Monographs/Book chapter published	34	Expert talks organized	25
Ph.D. students completed	16	Ph.D. students pursuing	36
Patents/IPR	5	Research Project completed	21
Total R&D Funding in lakh (Rs)	191.71	Consultancy Generated Amount in lakh (Rs)	11.43
Awards/Recognition to the faculty	10	Membership of Societies	3

### Laboratories

- Fiber Science Laboratory
- Yarn Manufacture Laboratory
- Fabric Manufacture Laboratory
- Textile Chemical Processing Laboratory
- Textile Testing Laboratory
- Garment Manufacturing Laboratory
- Advanced Fabric Research Laboratory
- Computer Lab

### Research and Development

The department conducts upbeat research in basic spinning, weaving, chemical processing, fibre reinforced composites, sewing threads, seam characterization, compression bandages, fibre shedding during knitting, friction spun yarns, garment manufacturing techniques and also on technical textiles like aerosol filtration, geotextiles surgical gowns, antimicrobial textiles, etc.

### Sponsored Research Projects

The department was sanctioned various research projects by various funding agencies. A few of them are as follows:

- Development of needle punched nonwoven blanket fabric' was sanctioned to the department by MHRD for Rs 15 lakhs from 2004-2009, PI of the project was Dr Vinay Midha'

- Optimisation of production of PP/ Carbon nanofibre composite filament' was sanctioned to the department by MHRD for Rs 22 lakhs from 2005-2008, PI of the project was Dr A Chatterjee
- Designing Nonwoven Fabric for Pulse-Jet Filtration' was sanctioned to the department by MHRD for Rs 15 lakhs from 2005-2010, PI of the project was Dr A Mukhopadhyay
- Design of Pulse-jet Filtration Apparatus' was sanctioned by Instrument Development Division, Department of Science & Technology for Rs 52.28 lakhs from 2011-2015. PI of the project was Dr A Mukhopadhyay.
- Development of Positive thread feeding device for Sewing Machine' was sanctioned by Instrument Development Division, Department of Science & Technology for Rs 22.11 lakhs. from 2015-2018. Dr Vinay Midha is the PI and Dr A Mukhopadhyay is the CO-PI.
- Designing of Fabric Tensile Impact Testing Instrument' was sanctioned by Instrument Development Division, Department of Science & Technology for Rs 36.02 lakhs. Dr A Mukhopadhyay is the PI and Dr Vinay Midha is the CO-PI.
- Designing of Fabric Wet Abrasion Tester' was funded by CSIR for Rs. 29.30 lakhs from 2017-2020. Dr A Mukhopadhyay is the PI.
- Optimization of pulse cleaning parameters for achieving high level performance of filter media during industrial pollution control' is sanctioned under India-Austria Scientific & Technological Co-Operation between Wissenschaftlich-Technische Zusammenarbeit (WTZ) and Department of Science And Technology (DST) from 2018 – 2020. Dr A Mukhopadhyay is the PI and Dr A K Chaudhary is the CO-PI.

#### **FIST Project:**

- The department was funded for Rs 59 lakhs for FIST programme (Fund for Improvement of S& T Infrastructure in higher educational institute under DST, GOI) from 2010 – 2015.

#### **Patents and Technology Transfer**

- NIT Jalandhar has transferred the right of manufacturing of test rigs (for characterizing filter media used for pollution control in industries) to Kanwal Enterprises, Gurgaon, Haryana. These test rigs, viz. a viz. pulse-jet filtration test rig and industrial filtration rig have been developed through a project supported by Instrumentation Development Programme (IDP) under Department of Science & Technology (DST), Government of India. The cost involved of this research project was Rs 52.28 lacs. Dr A Mukhopadhyay, Principal Investigator, DST Project has applied for patenting both of his invention viz. a viz. pulse-jet filtration test rig and industrial filtration rig.
  - \* Title: An Apparatus For Testing Cleanable Filter Media In Tubular Form
  - \* Title: An Apparatus For Testing Cleanable Filter Media In Flat Form
- **Bedsheet cum Patient Shifting device:** Bedsheet has been designed in such a manner that it can work as a patient shifting device. The bedsheets contain tubes/channels on both sides and the steel rods can be inserted to convert the bedsheets into a stretcher or patient shifting device. After the shifting of the patient, the steel rods can be removed and it can work as a bedsheets only. The patent has been applied in 2016 by Dr Vinay Midha.
- Development of device for measuring light transmittance' Patent has been applied in 2016 by Dr Vinay Midha
- **Instrument for testing soil erosion control performance of geomeshes:** an instrument with wider test cores has been designed, which can be used to measure the soil erosion control performance of the geomeshes. The patent filing is in process by Dr Vinay Midha.

#### **Awards and Recognitions:**

- Mr Gaurav Tomar, B.Tech Final Year (2019), obtained All India Rank 5 in GATE 2019.
- Dr Vinay Midha & Dr A Mukhopadhyay and N C Ray received 'Dr Triguna Charan Sen Prize' for paper 'Response of Slub Characteristics on Tensile Properties of Injected Slub Yarn' from the Institution of Engineers (India) in the year 2017
- Vinay Kumar Midha, Shubham Joshi, Suresh Kumar S (2018), received 'The Institution Prize' for paper 'Performance of Chemically Treated Jute Geotextile in Unpaved Roads at Different *in situ* Conditions' from The Institution of Engineers (India).
- Dr Vinay Midha awarded for the paper published in Journal by the Institution of Engineers (India) in the year 2018.
- Dr Vinay Midha awarded for outstanding presentation by Textile bioengineering and informatics society at International conference, Manchester, UK.
- Dr Vinay Kumar Midha, Sushma (2018), received 'The Outstanding Presentation award' for paper 'Effect of lubrication (%) on changes in tensile properties of sewing threads' from TBIS (Manchester).
- Suresh Kumar S (2019), Research scholar of Dr. Vinay Midha, received an 'IEI Young Engineers Award' for his contribution in the field of Textile Engineering.

- Suresh Kumar S (2016), Research scholar of Dr. Vinay Midha, received an international Student paper award from "International Geosynthetic society" for his research on 'structurally modified coir geomeshes for erosion control and disaster management in lower Himalayan region', nominated from India.

#### **Major Recruiters**

Vardhman Textiles; Trident; Aarti International Limited, Ludhiana; Rana Polycot Ltd, Chandigarh; SGS, Gurgaon; Welspun India Limited; Nahar Fibres, Nahar group of companies; Voltas Ltd, Coimbatore; Arvind; Alok Industries; JCT; Winsome Textile; L&T Infotech; Reliance Manufacturing; Reliance petrochemical; Tata Consultancy Services; Sportking; Mu-Sigma; LMW; etc. Highest package (batch - 2014-18): Rs 15 LPA.

## **23. PHYSICAL EDUCATION & SPORTS**

#### **Faculty**

Name	Designation	Qualification	Email
Dr. G. S. Dhaliwal	Associate Professor & Head	B.A, D.P.Ed, M.P.Ed, N.I.S (Athletics) & Ph.D (GNDU)	dhaliwalgs@nitj.ac.in

#### **SPECIAL REQUIREMENT FOR DEGREE**

The students entering in the Institute are required to undergo the following non-credit mandatory requirements towards completion of their degree:-

#### **N.S.O. (National Sports Organization)**

*The students have to opt (NSO, NCC & NSS) for one of these activities based on the enrolment procedure & Students is awarded "Satisfactory" Grade. A total of 100 hours of prescribed activities are to be completed after registration in the first year. In case the requirements are not met in the first year, the same shall be completed in the second year i.e. end of the 4<sup>th</sup> Semester. If a student does not obtain a satisfactory grade in the respective registered course within the first two years of his/her stay at the Institute, he/she will not be registered for the higher semester after second year.*

The students will be satisfactorily allowed to register in sports activities of the institute for completing their National Sports Organization requirement in the first year.

Sports is an important activity for overall development of the students. It has to be carried out in order to promote spirit of Sportsmanship amongst the students and is essentially an activity, which encourages sense of healthy competition feeling of love and to work in unison. Further the sports calendar crowded with sporting games/events is promoting enthusiasm in the day-to-day campus life of the students. The Department of Physical Education and Sports is geared to achieve the following motives

- Healthy mind in a healthy body**
- Fit people Fit Nation**
- Make-sports a way of life**
- Every human being has a fundamental right to access to physical education and sport, which are essential for the full development of his personality. The freedom to develop physical, intellectual and moral powers through physical education and sport must be guaranteed both within the educational system and in other aspects of social life.**

*By :- The UNESCO*

- Health and physical education and sports should be an integral part of the learning process and be included in the evaluation performance.**

*By :- The National Policy on Education*

The institute at present is providing facilities in number of outdoor and indoor games to be the budding engineering students.

#### **OUTDOORS GAMES FACILITIES (BOYS & GIRLS)**

SR. NO.	OUTDOOR GAMES	FACILITIES AVAILABLE
1	Athletics	400 meter Standard Track & Field
2	Cricket	Standard Cricket ground
3	Football	Standard Football ground
4	Basket ball	Two Basket Ball Standard Cemented Courts with Full Flood Lights & Sitting Arrangement
5	Volley ball	Three Volleyball standard grounds with Full Flood Lights & Sitting Arrangement
6	Lawn Tennis	Two Lawn Tennis Cemented courts With Full Flood Lights

### **INDOOR GAMES FACILITIES (BOYS & GIRLS)**

<b>SR. NO.</b>	<b>INDOOR GAMES</b>	<b>FACILITIES AVAILABLE</b>
1	Badminton	<b>Four Wooden Badminton Courts</b> With Light, Sitting Arrangement and Specific Gym Equipments in Badminton Indoor Hall
2	Table Tennis	T.T. Table is available in each hostel in addition to that Four tables are available in the New Students Activity Centre.
3	Carom	Covered space is available in each hostel in addition to that Carom Boards are available in the New Students Activity Centre.
4	Chess	Covered space is available in each hostel in addition to that Chess Boxes are available in the New Students Activity Centre.
5	Yoga & Sitting Exercise	Yoga & Exercise Mats is available in the New Students Activity Centre.

### **WEIGHT TRAINING GYM. FACILITY**

1	Multipurpose Modern Weight Training facilities	Weight training gymnasium is available in the New Students Activity Centre, <b>fully equipped with Modern Weight Training equipments.</b>
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### **RESEARCH AND DEVELOPMENT**

The Faculty member of the department are actively engaged in guiding research in the areas of Physical Education and Sports i.e. Olympics games, Asian Games, National Games, Inter-University Games, Psychology Study, Physiology Study, Heart Rate Variability Study, Measurement Study, Height Weight and Strength Study and Physical Fitness etc. in different games.

### **UPCOMING SPORTS & GAME FACILITIES / INFRASTRUCTURE :-**

1. Sports Stadium & Cricket Stadium with Flood Light
2. Synthetic Basketball Courts - Two
3. Synthetic Lawn Tennis Courts - Two
4. Swimming Pools
5. Water Sprinkling System in Play Grounds

## **24. NCC (National Cadet Corps)**

### **Faculty**

<b>Name</b>	<b>Designation</b>	<b>Qualification</b>	<b>Email</b>
Dr Dinesh Kumar Shuklal	Professor In-charge	Ph.D	shukladk@nitj.ac.in

The Institute had the NCC with the SD (Senior Division) wing with cadet's strength of 105 (both Boys & Girls). The NCC is a youth development movement. It has enormous potential for nation building. The NCC provides opportunities to the youth of the country for their all-round development with sense of duty, Commitment, Dedication, Discipline and Moral values so that they become able leaders and useful citizens. The NCC provides exposure to the cadets in a wide range of activities with a distinct emphasis on Social Services, Discipline and Adventure Training. The NCC is open to all regular students of the Institute on a volunteer basis. The students have no liability to active military service. Based on the aims of NCC, the Organization has laid down Training Syllabi for the cadets. The syllabus for the Senior Division is three years. Except for minor variations, the syllabus is similar for both Boy and Girl cadets. The training year is w.e.f. 01 Apr to 31 March. Training schedules planned for cadets ensure that the optimum benefits of the organization reach maximum number of cadets. On successful completion of the laid down syllabi, cadets of Senior Division are eligible for 'B' & 'C' certificate examinations.

### **Eligibility Conditions for Certificate Examinations**

#### **Certificate 'B'**

- i. The cadet must have attended a minimum of 75 of total training period laid down in the syllabus for the first and second years of Senior Division Wing NCC (All Wings).
- ii. Break in the NCC Service of the cadets prior to his appearing in the examination should not exceed more than 12 months at one time.
- iii. The candidate must have attended one ATC.
- iv. Cadets possessing 'A' certificate will be awarded 10 bonus marks.

### Certificate 'C'

The candidate must be in possession of Certificate 'B'.

The cadet must be in the third year of SD/SW NCC Training.

The cadet must have attended a minimum of 75% of the periods of 3<sup>rd</sup> year syllabus during the academic session.

Break in the NCC Service of the cadet SD/SW prior to appearing in the exam should not exceed more than 18 months at one time.

The cadet must have attended one ATC and one of the other listed national camps.

### NCC Activities

Year	Enrollment			No of cadets attended the various camp	B Certificate	C Certificate	Other Activities
	1st year	2nd year	3rd year				
2016	51	19	35	<ul style="list-style-type: none"> <li>National Integration Camp at Odisha-3 Cadets.</li> <li>Combined Annual Training Camp (CATC) at Ropar (Pb) - 31 cadets.</li> <li>National Integration Camp (NIC) at NCC Academy Ropar (Pb) - 05 cadets.</li> <li>Combined Annual Training Camp (CATC) at Sant Baba Bhag Singh University Padhiana, (Pb) - 09 cadets.</li> </ul>	13 Cadets	26 Cadets	<ul style="list-style-type: none"> <li>Ceremonial parade on 26th January in the Institute.</li> <li>Ceremonial parade on 15th August in the Institute.</li> <li>Cadets were also engaged in activities as Blood Donation, Tree plantation on Independence Day, Campus cleaning drive etc. throughout the year as per the direction of the DG NCC through 21 Pb Bn NCC.</li> <li>Cadets participated in the firing (shooting) competition.</li> </ul>
2017	54	38	13	<ul style="list-style-type: none"> <li>Combined Annual Training Camp (CATC-57) at Sant Premji Complex Begowal-28 cadets.</li> <li>Combined Annual Training Camp at NCC Academy Ropar, (Pb- 06 cadets.</li> </ul>	32 Cadets	15 Cadets	<ul style="list-style-type: none"> <li>Ceremonial parade on 15th August in the Institute.</li> <li>Cadets were also engaged in activities as Blood Donation, Traffic rules awareness, Tree plantation on Independence Day, Polio Camp vaccination campaign, Campus cleaning drive etc. throughout the year as per the direction of the DG NCC through 21 Pb Bn NCC Kapurthala unit.</li> </ul>
2018	40	36	29	<ul style="list-style-type: none"> <li>Combined Annual Training Camp No 51 at Sant Baba Bhag Singh University Padhiana, (Pb)- 20 cadets.</li> </ul>	32 Cadets	27 Cadets	<ul style="list-style-type: none"> <li>Cadets participated in the firing (shooting) competition.</li> <li>Ceremonial parade on 26th January in the Institute.</li> <li>Cadets participated in the firing (shooting) competition held at Hoshiarpur during 19-21 March, 2018.</li> </ul>

## 25. NSS (National Service Scheme)

### Faculty

Name	Designation	Qualification	Email
Dr Ajay Bansal	Professor	Ph.D	bansala@nitj.ac.in

NSS is a non-credit mandatory requirement towards the completion of B Tech degree. No. of NSS Students in 2018-19 Batch: 70 (Boys) and 23 (Girls). Total hundred hour's activities are to be completed in the first year of registration. The Main objectives of National Service Scheme (NSS) are:

- Understand the community in which they work
- Understand themselves in relation to their community
- Identify the needs and problems of the community and involve them in problem-solving
- Develop among them a sense of social and civic responsibility
- Utilize their knowledge in finding practical solutions to individual and community problems
- Develop competence required for group-living and sharing of responsibilities
- Gain skills in mobilizing community participation
- Acquire leadership qualities and democratic attitudes
- Develop capacity to meet emergencies and natural disasters and
- Practice national integration and social harmony

The various activities which were undergone by the students are:

- i. First Aid Training (Red Cross Society)
- ii. Polio Camp vaccination campaign
- iii. Blood Donation
- iv. Horticulture
- v. Eye-check-up Camp
- vi. Expert Lectures on various social issues
- vii. Transforming Society by Imparting Social Values
- viii. Cultural Activities
- ix. Yoga and Meditation
- x. Physical Education
- xi. Recreating Activities
- xii. Adoption of Children (poor background) for education
- xiii. Campus cleaning
- xiv. Tree plantation

Innovation Club Details could be obtained at : [www.nitj.ac.in/Innovation\\_Club/](http://www.nitj.ac.in/Innovation_Club/)  
TechNiti and UTKANSH are two annual festivals

## 26. COMPUTER CENTRE

### Faculty

Name	Designation	Qualification	Email
Dr Geeta Sikka	Head	PhD (NITJ)	sikkag@nitj.ac.in
Ms Daljeet Kaur	Principal Scientific Officer	MCA (GNDU)	daljeetkaur@nitj.ac.in
Mr Bhupinderjit Singh	Scientific Officer	M.Tech (NITJ)	bhupinderdhani@nitj.ac.in
Mr Ashwani Sharma	Technical Assistant (SG-1)	MCA	ashwanisharma@nitj.ac.in
Mr Subhash Yadav	Technical Assistant (SG-1)	MCA, MCSE	yadavs@nitj.ac.in
Mr Hemant Thapar	Technical Assistant (SG-1)	MCA	thaparh@nitj.ac.in

### **The Main assignments and activities of this centralized facility are to:**

- Provide, manage and ensure the satisfactory operation of joint computer and software facilities for the students and departments that require these facilities.
- Provide technical assistance to various users.
- Ensure the monitoring of the computer network at the institute and the coordination of inter-connections and the management of overall computer facilities for the whole institute.
- Provide computer facilities for the institute administration.

Dr B R Ambedkar National Institute of Technology visualizes centralized computing facility, campus-wide networking and information technology as a means to enrich the educational experience and invigorate emerging areas of scholarly research and education. Telecommunication and IT is a mixture of tools that can improve the nature and efficiency of country and institute as well.

The campus-wide Networking consisting of Academic Zone, Hostel Zone and Residential Zone is with fiber optics (single mode) as backbone. Managed Layer 2/3 Switches are installed. The entire Academic Zone is on 10G. The commissioning of this CWN has been done for 2250 nodes. The Campus, Girls and Boys Mega Hostel has been put on Wi-Fi.

Two Leased Line caters for the Internet facility of the institute, The ISPs being, BSNL (500 Mbps) and Reliance (500 Mbps).

For the Computational Services Centre has High-End Computational Servers on which accounts are given to students, staff and faculty of the Departments and Centre's in the campus. The Campus Network connects to Departments and Centre. Network Connectivity is also provided to the remote locations, which include both boys and girls Hostels. Computer Centre manages and administers the Internet links and the internet services such as electronic mail, World Wide Web, DNS, FTP and other services. A UTM has been installed for authenticity and managing users connectivity to the internet services. Computer Centre has created the facility of video conferencing for the students, faculty and staff members.

Center provides various advanced and special purpose software such as Oracle 10g, NMS etc for all the campus users. Centre also provides computer and network facilities to various festivals, events and seminars held at Institute lecture theatre and at department and centres. Computer Centre also manages the centralised Biometric attendance system and CCTV Surveillance System.

### **Hardware and Software**

To strengthen the data centre capabilities 12 Cisco Blade Servers and 20 TB SAN Storage has been procured by the institute.

The various software, catering to the needs of the students such as CREO, Automation Studio, Abaqus FEA, Visual Basic, .Net, Visual C++, C++, Prolog, MS Office etc are installed on the machines. 150 Nos. 64-bit machines, 50 P V Duo Core and other infrastructure such as printers and scanners constitute to the students need.

### **Working Hours (All Working days of the week):**

**09.00 AM to 09.00 PM**

## **27. CENTRE OF TRAINING AND PLACEMENT**

The Centre of Training & Placement of Dr B R Ambedkar National Institute of Technology, Jalandhar, which started its activities in December 1990, serves as a Central facility for all the Departments.

### **Faculty**

Name	Designation	Qualification	Email
Dr. S Ghosh	Professor In-Charge	Ph.D.	ctp@nitj.ac.in
Dr. Rajeev Trehan	Associate Professor Head, Centre of Training and Placement	Ph D (NITJ)	trehanr@nitj.ac.in

**Placement Details 2015-19 batch till 10.05.2019**

<b>Discipline</b>	<b>No. of Eligible Students</b>	<b>No. of Job Offers</b>	<b>No. of Double Job offers</b>	<b>No. of Students Placed</b>
Electronics & Communication Engg	78	80	7	73
Computer Science Engineering	84	93	15	78
Chemical Engineering	63	61	3	58
Instrumentation and Control Engg	67	57	4	53
Civil Engineering	62	44	3	41
Industrial and Production Engg	55	37	1	36
Mechanical Engineering	68	67	0	67
Biotechnology	21	13	1	12
Textile Technology	44	23	0	23
<b>Total</b>	<b>542</b>	<b>475</b>	<b>34</b>	<b>441</b>

## 28. LIBRARY

### Faculty

<b>Name</b>	<b>Designation</b>	<b>Qualification</b>	<b>Email</b>
Dr Sarbrinder Kaur	Librarian	Ph D (GNDU)	kaurs@nitj.ac.in

Library is housed in a multi storied air conditioned building situated in the midst of all departments and hostels and is easily accessible to all/everyone in the campus. The total carpet area of library is 1540 sq. feet. All students, faculty members and staff of the institute are entitled to make use of the library facilities. Industrial establishment/corporate houses can also avail the library services on taking institutional/corporate membership of the library. Library consultation facilities are also available to faculty and students of outside institute/ organization on request.

Library Hours: 9.00 AM to 9.00 PM.

Extendable till 12.00 midnight during examinations days.

**Library Resources and membership:** The library has 1,28,635 volumes comprising of books, standard Theses, CD-ROM, bound volumes of journals and videocassettes pertaining to various disciplines of Science, Engineering and Technology. Central Library catered to the information needs of about 3995 members during the current academic year.

**Video Library and E-media resources center:** The institute library is equipped with video viewing facility also. Audio-Visual section is equipped with 29" T.V> & VCP, Multimedia Projector, Projection screen etc. It has a collection of about 1994 videocassettes. CDs., and DVDs. Library has a well- equipped e-medial resources center to provide access to virtual resources.

**Print Journal and Access to Electronic Journals:** The institute Library subscribes to about 89 current journals and magazines in print form and almost all dailies. In addition to the above, with the help of special financial aid from MHRD. Library provides the online access to the various electronic resources being published by almost all the major publishers of the world in all subjects of Engineering, Technology, Sciences, and Management etc.

## 29. CENTRAL WORKSHOP

### Faculty

Name	Designation	Qualification	Email
Dr Joseph Anand Vaz	Chairman Central Workshop	Ph D	anandvaz@nitj.ac.in
Dr Vishal S Sharma	Faculty Incharge	Ph D (IITD)	sharmavs@nitj.ac.in

### Staff of Central Workshop

Name	Designation	Qualification	Shop Name
Rakesh Kumar Shukla	Technical Assistant SG-II	Machinist 2 Year , B.A	Machine Shop
Sukhvinder Singh	Technical Assistant SG-II	10+2, ITI	Electrical Shop
Sukhvinder Singh	Technical Assistant SG-II	10+2, ITI, Apprenticeship A.V.T.S	Welding Shop
Bahadur Chand	Technical Assistant SG-II	B. Tech Mechanical	Smithy Shop
Gurbachan Singh	Technical Assistant SG-II	10th, ITI (Two Year)	Sheet Metal Shop
Rachhpal Singh	Technical Assistant SG-II	ITI, Graduations	Fitting Shop
Shinder Pal	Work Assistant SG-I	10th, ITI	Carpentry Shop
Daljit Singh	Work Assistant Tech-II	10th	Smithy & Sheet Metal
Ranbir Singh	Work Assistant SG-II	10th, ITI	Carpentry Shop
Mohinder Pal	Lab Assistant SG-I	M.A, Political Science	Machine Shop
Hardeep Singh	Secretary	B.A.	Office

In this dynamic world, Technology plays a significant role in the learning. It is an established fact that one can have a strong grip on the concept of science and technology by seeking logic and reasoning behind them rather than just mugging them up. The youth of today is brimming with curiosity and inquisitiveness. They are perpetually on the move. The rapid pace of technological advancement has made it imperative for us to be well informed in the global scenario. Each day in our life dawns with new challenges to be faced. One needs to be geared up to face these challenges with determination, righteousness and well directed thoughts. All these geared mechanisms are boosted only with the help of practical aspects which are only and only possible on the floor of "**workshop**" A workshop is an informative or instructional class focused on teaching specialized skill or exploring a particular subject.

The workshop has eight constituent shops viz, Carpentry Shop, Electrical Shop, Fitting Shop, Foundry Shop, Machine Shop, Sheet Metal Shop, Smithy Shop, Welding Shop and a part from the Tool Room facilities available in the department of Industrial and Production Engineering. The Tool Room has CNC Lathe, EDM Wire-Cut and EDM Spark Erosion Machines. Tool and Cutter Grinder is also available in the workshop.

B Tech 1<sup>st</sup> year student undergo two weeks training program during summer vacation at the Central workshop after the completion of second semester. This is mandatory Non-credit course for students. B Tech major and minor projects of especially Mechanical engineering and Industrial & Production Engineering are Manufacture and Fabricated in the Central workshop. In addition to the above mentioned program. The B.Tech, M.Tech, PhD students are enrolled in Central workshop for to complete their projects, thesis work respectively.

## NIT Jalandhar IT Infrastructure Usage Policy

NIT Jalandhar endeavors to provide all faculty, students and staff with a modern, fully networked computing and IT environment for academic use.

Users of NITJ computing, networking and IT facilities are expected to abide by the following rules, which are intended to preserve the utility and flexibility of the system, protect the privacy and work of students and faculty, and preserve our right to access the international networks to which the system is connected. In case of complaints, appropriate action to be taken will be decided and taken by the person in-charge of the facility in consultation with the Director, Dean of Planning & Development, Dean of Students Welfare and System Administrator as appropriate.

1. Faculty, staff, and students with authorized accounts may use the computing and IT facilities for academic purposes, official Institute business, and for personal purposes so long as such use
  - does not violate any law, Institute policy or IT act of the Government of India.
  - does not interfere with the performance of Institute duties or work of an academic nature (as judged by the NIT, Director).
  - does not result in commercial gain or private profit other than that allowed by the Institute.
2. Users are expected to respect the privacy of other users and they may not allow any other person to use their password or share their account. It is the users' responsibility to protect their account from unauthorized use by changing passwords periodically and using passwords that are not easily guessed. Sharing of passwords for any purpose whatsoever is strictly prohibited. Users may share the required files through a sharing software with proper ACL (**Access control list**).
3. Any attempt to circumvent system security, guess others' passwords, or in any way gain unauthorized access to local or network resources is forbidden. Users may not use another person's computing account, attempt to forge an account identity, or use a false account or e-mail address.
4. Transferring copyrighted materials to or from the NITJ systems without express consent of the owner is a violation of international law. In addition, use of the internet for commercial gain or profit is not allowed from an educational site. If done so, it will be sole responsibility of the user.
5. Downloading and installing of new software has to be done with the explicit consent of the respective facility in-charges. Installation of unlicensed software on NITJ facilities, or on individual machines connected to the NITJ network, is strictly prohibited.
6. Setting up of any facility requiring password transmission over clear text is prohibited.
7. To the extent possible, users are expected to use only their official email addresses provided by NIT Jalandhar for official communications with other members of the Institute.
8. It is forbidden to use electronic mail and other network communications facilities to harass, offend, or annoy other users of the network, including impeding their computing systems, software, or data. Chain letters are not allowed. Neither is any form of commercial advertising, or soliciting allowed. Spamming is strictly disallowed. Subscribing to mailing lists outside the Institute is an individual's responsibility. Subscribing someone else to any group outside NIT Jalandhar is illegal.
9. It is forbidden to send frivolous or academically unimportant messages to any group. Broadcast of messages to everyone in the system is allowed only for academic purposes and emergencies. Violations of this (as decided by concerned authorities) will result in immediate freezing of user's account for an extended period as determined by the authorities.
10. Shared email accounts for any purpose whatsoever are not allowed. Any special accounts, if need to be set up for conferences and other valid reasons as determined by the institute authorities, must have a single designated user.
11. Recreational downloads and peer to peer connections for recreational purposes are banned.
12. To the extent possible, users are expected to connect only to the official NITJ Wi-Fi network for wireless access. Setting up of unsecured Wi-Fi systems on the NITJ network is prohibited in accordance with a Government of India ban.
13. Users are expected to take proper care of equipment, and are expected to report any malfunction to the staff on duty or to the in-charge of the facility. Users should not attempt to move, repair, reconfigure, modify, or attach external devices to the systems.
14. NO FOOD OR DRINK is permitted in the laboratories. Smoking is strictly prohibited. Also making noise either through games/ music or even talking and/or singing loudly is prohibited.
15. Playing of Games in Institute laboratories or using Institute facilities is strictly prohibited. Internet chat is also banned.
16. Display of offensive material (either on computer screens or through posters etc.) is strictly disallowed and serious action will be taken against offenders.
17. Violations of policy will be treated as academic misconduct, misdemeanor, or indiscipline as appropriate. Depending upon the nature of the violation, the institute authorities may take an action by issuing a warning through disabling the account. In extreme cases, the account may be completely deleted and/ or the user prohibited access to IT facilities at NITJ, and/ or sent to the Institute disciplinary action committee as constituted by the Institute authorities.
18. The policy may change as and when it is considered appropriate and new policies or the changes in policy will take effect immediately after a brief announcement by any means, e-mail, printed notices, or through the news groups.

# Dr B R A National Institute of Technology, Jalandhar

## Computer Centre

### Undertaking with respect to NIT, Jalandhar IT Usage Policy

#### **Whom this Document Concerns**

All Users of IT infrastructure (Computers and the Network) at NIT, Jalandhar.

#### **Reason for Policy**

This policy outlines the responsible use of the Information Technology Infrastructure at NIT, Jalandhar.

#### **Statement of Policy**

All users of NIT, Jalandhar will be subject to the following **Acceptable Use Policy**

1. **[Content]** I shall be responsible for all use of this network. In case I own a computer and decide to connect it to NIT, Jalandhar network, I will be responsible for all the content on it, especially that which I make available to other users. (This provision will also apply to any computer or device for which I am responsible, and is included in the meaning of "my computer".) In case I do not own a computer but am provided some IT resources by NIT, Jalandhar, I will be held responsible for the content stored in the designated workspace allotted to me (examples: file storage area, web pages, stored/archived emails, on Computer Centre or Department machines).
2. **[Network]** I will be held responsible for all the network traffic generated by "my computer". I understand that network capacity is a limited, shared resource. I agree that physically tampering with network connections/equipment, sending disruptive signals, or making EXCESSIVE USE of network resources is strictly prohibited. Repeated offenses of this type could result in permanent disconnection of network services. I shall not share the network connection beyond my own use and will not act as a forwarder/ masquerader for anyone else.
3. **[Academic Use]** I understand that the IT infrastructure at NIT, Jalandhar is for academic use and I shall not use it for any commercial purpose or to host data services for other people or groups. Also, I shall not host or broadcast information that might harm others or may be otherwise considered objectionable or illegal as per Indian law.
4. **[Identity]** I shall not attempt to deceive others about my identity in electronic communications or network traffic. I will also not use NIT, Jalandhar IT resources to threaten, intimidate, or harass others.
5. **[Privacy]** I will not intrude on privacy of anyone. In particular, I will not try to access computers (hacking), accounts, files, or information belonging to others without their knowledge and explicit consent.
6. **[Monitoring]** I understand that the IT resources provided to me are subject to monitoring, with cause, as determined through consultation with the NIT, Jalandhar administration, when applicable. The monitoring may include aggregate bandwidth usage to effectively manage limited IT resources as well as monitoring traffic content in response to a legal or law enforcement request to do so. I authorize NIT, Jalandhar administration to perform network vulnerability and port scans on my systems, as needed, for protecting the overall integrity and efficiency of NIT, Jalandhar network.
7. **[Viruses]** I shall maintain my computer on this network with current virus detection software and current updates of my operating system, and I shall attempt to keep my computer free from viruses, worms, Trojans, and other similar programs.
8. **[File Sharing]** I shall not use the IT infrastructure to engage in any form of illegal file sharing (examples: copyrighted material, obscene material). In particular, I have noted the following:  
Electronic resources such as e-journals, e-books, databases, etc. made available by the Central Library, NIT, Jalandhar are for academic use. These resources can be searched, browsed, and material may be downloaded and printed as single copies of articles as is done in the case of printed library material. Downloading or printing of a complete book or an entire issue or a volume of one or more journals (called systematic downloading) is strictly prohibited. Use of robots, spiders or intelligent agents to access, search and / or systematically download from the e-resources is also prohibited. Any violation of this policy will result in penal action as per the rules and regulations of the Institute. I am aware that Systematic downloading will result in the publisher blocking the entire community of users at NIT, Jalandhar from accessing these resources.
9. **[Security]** I understand that I will not take any steps that endanger the security of the NIT, Jalandhar network. Specifically, I will not attempt to bypass firewalls and access rules in place. This includes not setting up servers of any kind (examples: web, mail, proxy) that are visible to the world outside the NIT, Jalandhar campus. In critical situations, NIT, Jalandhar authorities reserve the right to disconnect any device or disable any account if it is believed that either is involved in compromising the information security of NIT, Jalandhar.
10. **[Penalties]** I understand that any use of IT infrastructure at NIT, Jalandhar that constitutes a violation of NIT, Jalandhar Regulations could result in administrative or disciplinary procedures.

**TELEPHONE DIRECTORY (ALPHABETICAL)**  
**Director Office: 1000/1002**

**A**

A. Agnihotri	9876082977	2304
A. Bhardwaj	9465758362	2804
A. Chatterjee	9417091644	3305
A. Chaturvedi	9464886034	4001
A. Mukhopadhyay	9463283698	3307
A.K. Chowdhary	9417710385	3308
A.K. Jain	9815425163	2904
A.K. Jana	9417710388	2101
A.K. Tiwari	7508663569	3002
A.P. Singh	9915849178	2303
Abhay Sharma	9815944194	1621
Abhinav P Singh	9915240730	3250
Aditya Prakash	9988600156	2703
Afzal Sikander	7017638266	
Ajay Bansal	9417223839	2404
Ajay Gupta	9501030373	2810
Ajay K. Sharma	9878402704	2503
Ajay K. Trehan	9872462782	3106
Ajay Kumar	9256342789	2954
Ajay Kumar	8757870464	
Alka Bhalla	9878545272	3006
Amandeep Singh	8847238030	
Amarjeet	9915121334	4052
Amarjit Singh	9779420055	1002
Amit Kumar	9878523087	1807
Amit Kumar	9654140757	2311
Amit Kr.Singh	9286501979	
Amit D Saran	9819215440	
Anand Kumar	9417223818	1612
Anee Mohanty	9703991708	
Anji Reddy	8148371241	2417
Anish Sachdeva	9501019873	2808
Anita	9501554432	3002
Anju Bala		1272
Anshu Sharma	8437046634	2402
Anup Gupta	9464383867	1803
Anupam Yadav	9627273447	3908
Anurag Tiwari	9956356951	2420
Arun Khosla	9888068332	2604
Arun Ram	9417307889	1213
Aruna Rani	9815319393	2402
Arvind Agnihotri	9876082977	1161
Arvinder	9464013491	4006
Arvinder Singh	9988803134	3203
Asha Rani	8437687456	2202
Ashish Raman	9888217273	2611
Ashok Kumar	9478364618	2902
Ashok Kumar	9650632885	
Ashwani Sharma	9855589610	3502
Avtar Chand	9779401577	1311
Avtar Singh	9418217275	2515

**B**

B. S. Kaith	9780684883	2205
B. S. Saini	9872660337	2606
Bahadur Chand	9779782886	4045
Balbir Singh	9465236872	3302
Baljit Kaur	9888823838	1900
Balkar Singh	9780946826	1810
Balwinder Raj	7589480655	2612
Bhisham Arora	9914594880	1002
Bhupinder Singh	9417822409	1712
Bikram Chand	9888691913	2502
Bikram Singh	9876372544	2302
Bimla Saini		3559
<b>C</b>		
Chaman Lal	9988541520	1211
Chinderpal Kaur	9878399756	2656
<b>D</b>		
D. K. Gupta	9464126241	2506
Daljeet Kaur	9872222443	3503
Daljit Singh	9779530088	3901
Damanjeet Kaur	9872861220	3005
Darshan Ram	9872868629	2557
Davinder Singh	9815451690	2307
Deepak Bharti	9530203200	
Deepak Sahu	8219215064	2419
Deepika Rani	8439590716	3906
Deepti Kakkar	9815753334	2610
Dev Dutt	9876261192	3901
Dilbag panchal	9639965310	
Dilbag Singh	9888492132	2906
Dimple Sharma	181-2690048	
Dinesh	9501165469	4004
Dinesh Shukla	9478128407	3109
Dwesh kumar	7527833773	
<b>G</b>		
Ganesh Parsad	9463230633	3557
Geeta Partap	9463932479	3007
Geeta Sikka	9888582299	2505
Gian Chand	9646564691	2653
Giri Babu	9123509181	
GN Nikhil	8978093897	
Gurbhachan Singh	9872356984	3901
Gurdeep Singh	9417115855	1311
Gurmail Singh	9872331970	3254
Gurmej Singh	9872218066	3701
Gurnam Singh	9872666628	1900
Gurpreet	9465145877	4003
Gurpreet Singh	9988694840	2951

<b>H</b>						
H. M. Mittal	9417119665	3205	Kuldeep Nagla			
Hardiyal Singh	9463538430	2302	Kuldeep Singh			
Harinder Ram	9915789981	1211	Kulwant Rai			
Harleen Dahiya	9888980154	3208	Kulwinder Kaur			
Harmesh Bhatt		1232	Kulwinder Singh			
Harpreet Singh	9872813073	1808	Kumar Parag			
Harsh Malhotra	9216055240	1713	<b>L</b>			
Harsh Manchanda	9876498660	2207	L. P. Singh	8288947954	2811	
Harsh Verma	9463001601	2504	Lalit Jajpura	9996006620	7308	
Harvinder Singh	9501551761	2153	<b>M</b>			
Hemant Shore	9920936323	4025	M. D. Roy	9417361680	3310	
Hement Thaper	9878889419	3505	M. K. Jha	9417290668	2403	
<b>I</b>				Madan Lal	9463574728	1701
Indu Chauhan	8881221934	7604	Mahesh Kumar	8340774578		
Indu Saini	9876950214	2608	Mahesh Patel	9085684240	2310	
Ish Sharma	9876694777	3155	Mahesh Sharma	9872772510	2955	
<b>J</b>				Malkiat Singh	9463539209	3302
J. N. Chakrborty	9417139036	3304	Malkit Singh	9888148219	2402	
Jagdeep Singh	9876372908		Mamta Khosla	9888604632	2605	
Jagdish Kumar	9876920903	1802	Mani Ram Yadav	9463248195	3601	
Jagir Singh	9876948839	3158	Manish	9508511551	4007	
Jagwinder Singh	9501103708	2704	Manjit Kaur		3502	
Jaidev Sharma	9878504568	2902	Manjit S. (Electrical)	9876941799	1805	
Jaspal Aujla	9463364744	3003	Manjit S. (Textile)	9888105467	3302	
Jaspreet Rajput	9464620971	2208	Manjit Singh			
Jaswant Singh (Lib)	9465593708	3601	(Horticulture)	9464383845	1804	
Jaswant Singh(Mech)	9815975783	3154	Manoj Kumar	9793557548		
Jatinder Kumar	9876850908	2408	Manju	8427511914	4008	
Jatinder Singh	9888439836	1711	Manmohan Bhala	9876435940	1212	
Jeevan Lata	9815388333	3601	Mathura Parsad	9815724009	2802	
Jitender Kumar	9876850908	2408	Milap Dogra	9888152525	1311	
Joga Singh	9815779508	1802	Mohd. Alim	9888435852	2502	
Joseph Anand Vaz		3104	Mohd Zafar	8828821955	3907	
Jyoti Bharaj	9872852158	3207	Mohinder Pal	9876290612	2657	
<b>K</b>				Monica Sikka	9872995546	3312
K. V. P. Singh	9592108338	3313	Monu Sharma	9464012062	4009	
K Senthil	9458948743	2314	Mohit Tiyagi	8826841126		
Kamboj Chauhan	9815909328	2405	Mrutyunjay Rout	9861162431		
Kamta Parsad	9463768723	1701	<b>N</b>			
Kanish Kapoor	9463359998	2312	N. Basak	9417338290	2104	
Kapil	8059000377		N. Bhowmik	9357321822	3309	
Karan Veer	9418003227		N. C. Kothiyal	9417274496	2204	
Khushpal Singh	9417016293	2302	N. K. Srivastava	9888712889	2409	
Kiran Singh	9893134824		Nachhattar Singh	9872486648	2251	
Krishan	9569912687	4005	Narinder Kumar	9463088957	3408	
Krishan Giri	9464791468	3102	Narinder Singh	9872272255	2905	
Krishna Pal	9882774691	2555	Navdeep Singh	9872078662	2315	
Kuldeep Kumar	9461210063	2514	Navneet Sharma	9463708930	3302	
			Neeraj Kumar	9888244001	2502	

Neetu Divya	7837588326	3405	Rajinder Kumar	9872884560	2655			
Neetu Sood	9501311644	2609	Rajinder Pathak	9872607114	2020			
Nidhi Khanna	9872223384	2502	Rajinder Uniyal	9463359837	1002			
Nitesh Kashyap	9753301930		Rajiv Kumar	9557529945	2306			
Nitin N Pandhare	7579200586	2416	Rajiv Jindal	9779914264	2206			
Nitin Sharma	9418573982		Rajiv Trehan	8146500951	3803			
Nonita Sharma	9896255117	2503	Rajneesh Rani	8146800757	2509			
<b>O</b>								
Om Prakash	7579279839		Rajni	9914111570	3202			
<b>P</b>								
Palainswamy NK	9942373108		Rakesh	9463535975	4002			
Palvinder Singh	9463708635	3302	Rakesh Kakkar	9988902882	1271			
Paramjit Mahey	9888000211	3253	Rakesh Sharma	8288012020				
Paramvir Singh	9915664446	2510	Rakesh Kumar	9501938193	2051			
Pardeep Kumar	9465762564	2554	Ram Kewal	9988342654	3802			
Pargat Singh	9463935315	1311	Ram Kirpal	9417223865	1712			
Parmod Kumar	9465242268	3107	Ram Pal Sharma	9463007880	2502			
Partap Singh	9417694044	2306	Ram Parsad	9872649809	1232			
Parveen Kumar	8527437682		Raman Bedi	9815981054	3112			
Parveen Malik	9888382021	3209	Ramesh Kumar	(Photostat)	9463056288			
Parvinder Kumar	9888280124	2152	(Physics)	9256092822	3252			
Pawan Kumar	7065456042		Raminder Kaur	9988265914	1712			
Poonam Arora	9876902961	3802	Ranchan Chauhan	9418011870				
Poonam Chadha	9855098226	2407	Ranbir Singh	9465236907	1311			
Pramod Kumar	9465242268	3107	Ranjit Singh	8427433911	1152			
Pratibha	9915715897	1711	Ravi Dogra	9217832046	2856			
Preeti	7831078758		Ravinder Singh	9463359119	3156			
<b>R</b>								
R. Chandra	8968666351	3103	Ravi Pratap Singh	9411001551				
R. K. Bansal	9463251233	2807	Ravinder Kumar	9459259931	3909			
R. K. Bhardwaj	9915939562	3601	Ravinder Singh	9459521385				
R. K. Garg	9417549528	2803	Renu Dhir	9417199050	2508			
R. K. Mishra	9915581811	1202	Renu Gupta	8283022833	2405			
R. K. Sarin	9501289845	2603	Renu Kakkar	8054803848	1232			
R. K. Shukla	9815977921	3901	Renu Verma	9780489052	1902			
R. K. Singla	9815998767	2910	Rizwan A. Khan	9876497242	2308			
R. K. Sunkaria	9780979984	2607	Rohit Mehra	9888534590	3206			
R. R. Sinha	9417326496	3008	Roop Pahuja	9988651877	2908			
R. S. Bharj	9779284553	3110	Rubal Preet	9878664119	2410			
Rachpal Singh	9478018112	3901	Rupail S	8265999739	2308			
Raghu Sharma	9988361517	1202	<b>S</b>					
Rahul Aggarwal	9478128764	2511	S. Badhuria	9779030399	2812			
Rajan	8894990325		S. Bajpai	9888895253	2411			
Raj Kumar	9819588825		S. Chander	9417864015	3105			
Rajbir Saini	9463253231	2051	S. Ghosh	9463553727	3303			
Rajeev Arora		1252	S. J. S. Bedi	9815270971	2701			
Rajeev Kukreja	9872070037	3108	S. K. Pahuja	9888482910	2907			
Rajeev Verma	9464740847	2852	S. K. Sinha	9417366906	3306			
Rajesh Sharma		1272	S. K. Syal	9872011170	4040			
			S. K. Tiwari	9815987789	3111			
			S. P. Singh	9814088475	2305			
			S.K. Pahuja	9888482910	2907			

Sangeeta Garg	9872826903	2406	Sunita Rani	9023340974	1214
Sangeeta Handa	9463141755	1272	Suresh Kumar	9417293006	1701
Sangeeta Oberoi	9814245310	2209	Surinder Kumar		1802
Sanjeev Jethi	9780724886	1212	Surinder Sandhu	9915932286	2254
Sansar Chand	9417861208	1311	Surinder Singh	9465754548	2302
Sant Singh	9464383854	1311	Sukhwinder Singh	8174802076	
Sarabjit S. Bal	9872867347	2809	Sukjit	7018749250	3905
Sarabjit Singh	9988013870	3204	Suneel Dutt	8219577957	
Sarabjot S. Sandhu	9988892511	3113	Sumit Sharma	8146871758	
Sarbrinder Kaur	9988783715	3601	Sumer Singh	9911253494	
Sarita	9463060565	1213			
Satish Kumar	9872727999	1802	<b>T</b>		
Satish Walia	9915576752	1311	Talwinder Singh	9872632726	1805
Sadhika Kullar	8054628675		Tarlok Chand	9876554611	3555
Sanjay	7728991075		Tarro		1211
Santokh Kumar	9888527667		Tarsem Lal	9465238172	2402
Saurabh Kango	9882728386		Tarsem Singh	9779531738	3701
Satyender Singh	7018047897		Tarun Sehgal	9814753537	1901
Sateesh Kumar	7752846453		Tejinder Singh	9915766293	1271
Samayveer Singh	9953741966	2507	Tejvinder Singh	9988250721	3602
Santosh Singh	7409850327	2513			
Sathiya S	9566843944		<b>U</b>		
Shailja Bawa	8283821380	2309	Uday Bhan	8054476239	3701
Shankuntla Devi		1641	Uma Shankar	7837588168	2258
Shawinder Singh	9463764812	2652	Umesh Ram	9501470990	1252
Sheela Tiwari	9779090688	2909			
Sheo Kumar	9876125185	3004	<b>V</b>		
Sher Singh	9872043416	3002	Varun Sharma	8591113750	
Shinder Pal Singh	9888022132	3901	Vijay	9592954485	3159
Shiv Kumar	9317547560	2402	Vijay Kumar	9463186208	1806
Shashi Kiran	8360610589		Vijay Takhi	9463088979	2956
Sham Kiran	8427333415		Vickramjeet Singh	6283859419	
Sheo Kumar	8146396635		Vinay Midha	9815948608	3311
Sheetal Soda	9646027171		Virender Singh	9780998060	2259
Shishram Rebari	8054160882		Vishal S. Sharma		2806
Shashikant Sharma	7018377403	3009	Vimal Kumar	8968155223	
Shashikant Yadav	9757412593	2418	Vinod Ashokan	9518578813	
Sonia Chawla	9888250412				
Srinivasan	8056300923		<b>Y</b>		
Subhash Yadav	9872212440	3555	Yash Pal Arora	9872662789	1272
Sudesh Sharma	9464383820	1232			
Sudhir Kumar	9780248424	2102			
Sukhjit Kaur	9463632917	1900			
Sukhminder Singh	9888013838	2959			
Sukhvinder S.	9815540624	3901			
Sukhvinder S.	9988295103	3901			
Sukhwinder Singh	8146528989	3155			
Sunil Arora	9780721054	1712			
Sunil Joshi	9872617129	1311			
Sunil Kumar	9465236861	4103			
Sunita		2556			
Sunita Arora	9888128257	3202			



## GLIMPSES OF HAPPENINGS AT NITJ



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