

College Code: 018

Academic Excellence



## **Vision**

Our vision is to impart excellent academic & technical knowledge coupled with accurate understanding of values so as to mould the students into dynamic technocrats reaching the horizon of new developments.

## **Mission**

To serve the society and improve the quality of life by imparting high quality education in the field of technology and to create excellent academic environment through rigorous teaching and disseminating knowledge through research.

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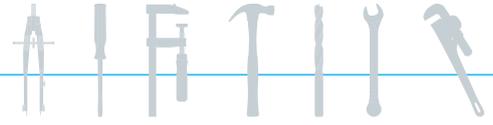
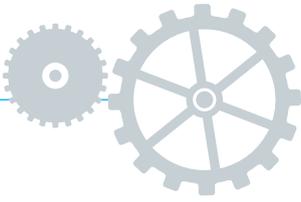
# The Society

JaganNath Gupta Memorial Educational Society is a registered non-profit organization imparting high quality professional and technical education to generate highly qualified and skilled technocrats. To fill the void in the industry demand, the society has ventured into establishing number of globally competitive institutes in Delhi and Jaipur for technical and management education at both undergraduate and postgraduate levels.

The intrinsic aim of the society is to harbour technical excellence. Further to keep its commitment, the society provides scholarships for deserving students so that they can successfully take up the role of entrepreneurs and translate their dreams into reality.

- 1 Jagan Institute of Management Studies**  
Sector-5, Rohini, New Delhi
- 2 JaganNath International Management School**  
Kalkaji, New Delhi.
- 3 JaganNath International Management School**  
Vasant Kunj, New Delhi
- 4 Jagan Institute of Management Studies**  
Jaipur, Rajasthan
- 5 JaganNath Institute of Management Studies**  
Greater Noida, U.P.
- 6 JaganNath Institute of Management Sciences**  
Mathura Road, New Delhi
- 7 JaganNath University**  
Jaipur, Rajasthan
- 8 JaganNath University**  
Bahadur Garh, Haryana





# The Institute

JaganNath Gupta Institute of Engineering and Technology is vested under the aegis of JaganNath Gupta Memorial Educational Society. Set up in 2004 with the intrinsic aim to promote academic excellence in the state of Rajasthan, the exceptional institute has emerged as a prestigious center for learning in a short span of time. Building on the phenomenal success of JIMS, the three well established institutes of management in Delhi, JNIT is dedicated to create technical manpower to meet the current and future challenges of technological advancement. The institute has been flourishing from strength to strength since it received affiliation from the National Board of Accreditation of All India Council for Technical Education (AICTE) and recognition from Rajasthan Technical University (RTU), Kota. The institute promotes not only the general advancement of knowledge by igniting the cerebral dimensions of the students but also trains individuals to meet the growing needs of the industry. Education for professional careers at JNIT is grounded in understanding of relevant technologies so that the individuals are provided with the tools for intellectual development over a lifetime thus contributing to the needs of the changing society.

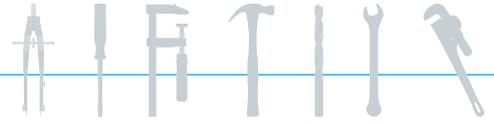
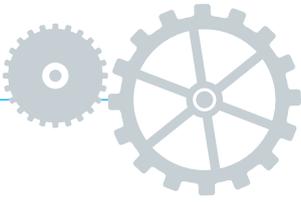




# JaganNath Gupta Institute of Engineering and Technology, Jaipur

## GOVERNING BOARD

S No.	Name of Person	Capacity
1	<b>Sh. Manish Gupta</b>	Chairman, JaganNath Gupta Memorial Educational Society, Delhi
2.	<b>Sh. Deepak Gupta</b>	Society Representative
3	<b>Sh. K. N. Mathur</b>	Society Representative
4	<b>Sh. M. M. Bhardwaj</b>	Society Representative
5	<b>Sh. Rajeev Arora</b>	Society Representative
6	<b>Justice S. N. Bhargava</b> Retd. Chief Justice, Sikkim High Court	Educationist
7	<b>Prof. M.K. Bhargava</b> Ex Vice - Chancellor, JaganNath University	Educationist
8	<b>Prof. S. G. Modani</b> Professor - MNIT, Jaipur	Educationist
9	<b>Prof. M.C. Govil</b>	Nominee of DTE- Director (Ex-officio)
10	<b>Prof. Y. C. Bhatt</b>	Educationist
11	<b>Rajeev Rajora</b>	Nominee of RTU KOTA



## Message from the **BOARD**

In the globalised world, we at JaganNath Gupta Institute of Engineering and Technology dedicate ourselves to provide high quality learning environment to the students to produce brilliant professionals and leaders in the field of Engineering. During the campus life, the virtues of hard work, discipline and ethics are imbibed in our students. JNIT provides a platform for students to SHARPEN their leadership skills, talents and interests through all round activities like sports, workshops, seminars and festivities, ranging from pure social to strictly professional. All these go a long way in making our student a thoroughbred professional and help students in developing their careers in industrial and technological advancements.

Our long cherished dream of establishing JNIT as a centre of excellence for COMPREHENSIVE development and global education for better life, environment and society has become a reality. JNIT has exhibited overall progress in a fairly rapid manner in the past years. We have always been driven and motivated by our basic principle to provide the best facilities to our students. This has not only shaped our student's future but has also has nurtured their talents.

We are confident that our students equipped with such capabilities will emerge as valuable contributory assets to the development of the organizations they serve as well as for the nation.





# Message

from the **CHAIRMAN**

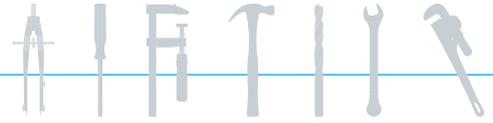
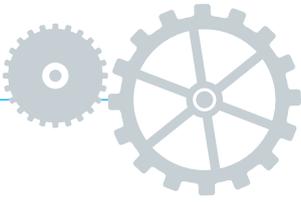


**Mr. Manish Gupta**

In a country where education holds a very high esteem and the teacher is equated to God, we at JaganNath Gupta Engineering College, have dedicated ourselves to impart education and also to develop the student to be a responsible Engineer and a good individual. Students of our College are groomed carefully and the virtues of hard work, discipline and ethical practices in profession are imbibed in them constantly during their campus life. Campus life here stresses the importance of curricular activities apart from academic learning, leading them to many new avenues. All these go a long way in making our student a thoroughbred professional, eminently suited to contribute in his chosen career with an ever open mind for new thoughts and ideas in industrial and technological advancements.

The college maintains high standards of excellence in the academic sphere and in the infrastructure intended to implement the educational programme. Individual attention, well-fitted study hours with periodical examination prepare students for all the challenges of highly competitive educational field and for future life.

We are hence confident that our students equipped with such capabilities will emerge as valuable contributory assets to the development of the organizations they serve as well as to the nation.



# Message

from the **PRINCIPAL**



JNIT not only believes in dreams but also strives to turn them into reality. All efforts are pooled in to develop leadership qualities, interpersonal skills, Creativity and human skills along with strong values and morals. We have continuous integration with industry through training and various projects. We are constantly innovating and setting new goals. The Institute has an environment conducive to the intellectual, moral and physical development of it's students. We have a team of dedicated, experienced and highly qualified teachers, who, through motivation, counselling and training, prepare the students to meet the challenges of the modern era. Our motive is to provide higher standards of education thus, enabling our students to achieve professional competence in their chosen fields.

**Dr. J. P. Agarwal**



# B.Tech

## PROGRAMME

The four-year B.Tech programme is duly approved by AICTE and affiliated to Rajasthan Technical University, Kota. B.Tech - an eight-semester programme, comprises of various core and elective subjects with a Summer/Industrial training of 60 days after sixth semester. Summer/Industrial Training provides an exposure to real life working with industrial commercial organization which stimulates young technocrats to foray into unforeseen grounds. The training is an integral part of the curriculum and is mandatory to all students. All the semesters are a blend of intense classroom learning and hands-on theoretical concepts.

The first year of the programme is the foundation in core engineering subjects with a perfect blend of Humanities and Applied Sciences. During the second year of B.Tech programme, students learn specific advanced technologies and enhance their skills. B.Tech programme of JNIT aims at nurturing highly motivated technocrats to meet the growing needs of the nation for skilled manpower to lead and operate in domestic and international market.

### ADMISSION PROCEDURE

According to the procedure adopted by the state government, students applying for B.Tech programme have to undergo a comprehensive entrance test of national level JEE (Main). Based on the rank in this test and result of 12th standard, students are admitted to the programme as per the merit.

### ELIGIBILITY

The minimum academic qualification for admission to B.Tech. program is a pass with atleast 45% marks (40% marks in case of candidates belonging to "SC/ST/OBC (Non creamy layer)/SBC (Non Creamy layer)" of Rajasthan state) in the subjects combination (Physics, Mathematics and Chemistry/Bio-Technology/ Computer Science/ Biology in the final examination of 10+2 (Class XII).

### FEE & SCHOLARSHIP

- Rs. 35,000/- per semester
- Scholarship is available for meritorious and needy students.
- Girl students may also avail the scholarship.
- All the eligible SC/ST, OBC, PwD students etc should submit their scholarship form for the academic year by February for processing scholarship to SC/ST, OBC, PwD etc. each year.

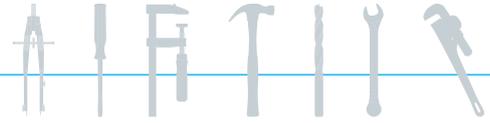
### INTAKE MATRIX OF B.TECH PROGRAMME AT JNIT

Branch	Total Seats	
	Shift I	Shift II
Electronics & Comm. Engg.	120	60
Computer Science Engg.	120	60
Mechanical Engineering	120	60
Electrical Engineering	60	60
Civil Engineering	120	–

\* Seat allocation is as per the rules of Rajasthan Technical University norms.



“JNIT- Ranked  
No. 1 Private  
Engineering College  
in the state of Rajasthan”



CSR-GHRDC

## ENGINEERING COLLEGES Survey 2009-2010

According to the survey GHRDC, a premier “Centre for Management Education & Research” with 10 years of past experience conducted this nation wide survey which is the most reliable report based on comprehensive parameters, weightage and transparent methodology. The result of this survey was published in the October '09 issue of Competition Success Review, one the most popular and largest circulated magazines in India. The vision was to help and motivate Engineering Aspirants and Corporate groups & Industries For Recruitments & Placements.

The survey looked at the holistic performance of an institute both from technical education point of view as well as the full gamut of its performance as an institute.



### HIGHLIGHTS OF THE SURVEY

- Transparency, Reliability, Research based methodology.
- Strong emphasis on validation of the data.
- Quantitative as well as Qualitative factors with absolute and relative value assigned to each data/unit.

The result of the survey is JNIT is adjudged as No. 1 Private Engineering College in the state of Rajasthan and got 29th rank in all over India with its embellished infrastructure (Physical & Academic), top class faculty along with unique Research & Consultancy facilities, MDP and other programmes, balanced and systemic Admission, curriculum and Delivery System and above all, robust Placement record (domestic & International) along with strong industry interface.

It is indeed a saga of glorious achievement with another feather in the cap of the institution.

PARAMETERS, FACTORS & WEIGHTAGE		
Parameters	Data / Supporting Evidence (Quantitative and Qualitative)	Weightage (%)
<b>INFRASTRUCTURE</b>		
<ul style="list-style-type: none"> <li>● Physical</li> <li>● Academic</li> </ul>	Built-up area, Number and size of classrooms, Hostel on campus/percentage of students provided accommodation, Lab facilities offered to each branch under Engineering, Layout plan, Physical verification, etc.  Library records, Engineering related books, No. of books added, National & international journals, Publications, E-Journals, No. of LCD projectors, Computing facilities in classrooms, etc.	22.81
<b>FACULTY, RESEARCH, CONSULTANCY</b>		
<ul style="list-style-type: none"> <li>● Faculty, Research, Consultancy, Publications and MDP</li> </ul>	Composition of faculty & output - Full time & visiting faculty, ratio of student & faculty, Research & consultancy, MDP & other programmes, Percentage of Ph.D., Industry experience of faculty, No. of publications / research papers (books, cases, working papers, etc.) and Conferences/ Seminars.	28.44
<b>ACADEMIC PROGRAMMES</b>		
<ul style="list-style-type: none"> <li>● Admission, Curriculum, Delivery Systems</li> </ul>	Entrance test, percent of curriculum devoted to core/ elective/ project work, course designed and offered, course timetable, College records, Competency building and soft skills, Total number of courses offered by the college, Social Sector initiatives and interventions etc.	19.37
<b>PLACEMENT</b>		
<ul style="list-style-type: none"> <li>● Placement and Industry Interface</li> </ul>	Offer-letters, recruiter details, final placement, average domestic/ international salary, cost of education,/ return against, alumni, etc.	29.38



# THE WEEK

## THE WEEK - HANSA RESEARCH SURVEY 2014



### TOP 76-128 COLLEGES ENGINEERING

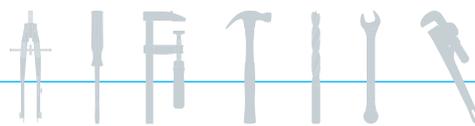
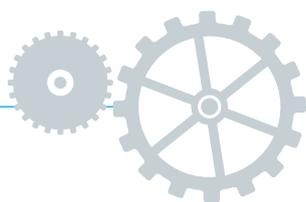
112	P	MLR Institute of Technology and Management	Hyderabad	167
114	P	SNS College Of Technology	Coimbatore	166
115	P	SVKM's NMIMS, Mukesh Patel School of Technology Management & Engineering	Mumbai	165
115	P	Mahatma Gandhi Institute of Technology (MGIT)	Hyderabad	165
117	P	Sambhram Institute of Technology	Bangalore	163
117	P	Sri Venkateswara College of Engineering & Technology	Chittoor	163
119	P	CMR Institute of Technology	Bangalore	159
120	P	CMR College of Engineering & Technology	Hyderabad	157
121	P	Nehru College of Engineering and Research Centre	Thrissur	155
122	P	Sri Ramakrishna Institute of Technology (SRIT)	Coimbatore	150
123	P	Accurate Institute of Management & Technology	Noida	148
124	P	V.S.B. Engineering College	Karur	147
125	P	Jagannath Gupta Institute of Engineering & Technology	Jaipur	145
125	P	Kuppam Engineering College	Kuppam	145
127	P	KCG College of Technology	Chennai	142
128	P	Keshav Memorial Institute of Technology (KMIT)	Hyderabad	141

### TOP 75 COLLEGES ENGINEERING (Pvt)

60	MLR Institute of Technology and Management	Hyderabad	167
62	SNS College Of Technology	Coimbatore	166
63	SVKM's NMIMS, Mukesh Patel School of Technology Management & Engineering	Mumbai	165
63	Mahatma Gandhi Institute of Technology (MGIT)	Hyderabad	165
65	Sambhram Institute of Technology	Bengaluru	163
65	Sri Venkateswara College of Engineering & Technology	Chittoor	163
67	CMR Institute of Technology	Bengaluru	159
68	CMR College of Engineering & Technology	Hyderabad	157
69	Nehru College of Engineering and Research Centre	Thrissur	155
70	Sri Ramakrishna Institute of Technology (SRIT)	Coimbatore	150
71	Accurate Institute of Management & Technology	Noida	148
72	V.S.B. Engineering College	Karur	147
73	Jagannath Gupta Institute of Engineering & Technology	Jaipur	145
73	Kuppam Engineering College	Kuppam	145
75	KCG College of Technology	Chennai	142

### TOP 10 COLLEGES ENGINEERING (Pvt) North zone

		Composite Score
1	Birla Institute of Technology & Science (BITS)	Pilani 545
2	Maharaja Agrasen Institute of Technology (MAIT)	Delhi 228
3	Guru Nanak Dev Engineering College	Ludhiana 227
4	Chitkara Institute of Engineering and Technology	Punjab 223
5	Amity School of Engineering and Technology	Noida 217
6	Jaypee University of Information Technology	Solan 207
7	Galgotias College of Engineering & Technology	Noida 205
8	G.L. Bajaj Institute of Technology & Management	Noida 188
9	Accurate Institute of Management & Technology	Noida 148
10	Jagannath Gupta Institute of Engineering and Technology	Jaipur 145



# JNIT

## RAGGING FREE Environment

### ANTI-RAGGING CELL

As per the decision of the Hon'ble Supreme Court of India in writ petition no – (C) 656/1998 regarding prevention and prohibition of ragging in technical institutions, JNIT has constituted an active Anti-ragging cell under the headship of Principal to curb the menace of ragging. A committee of teaching faculty and administrators takes anti-ragging measures and stringent steps against any act of ragging in the campus. The Anti Ragging Squad conducts surprise visits of hostels and keeps vigilance on entire campus.

The institute also takes the assistance of professional counselors to counsel students to prepare them for the life ahead, particularly for adjusting to life in hostels. Apart from this, Joint Awareness Drives and counseling of both freshers and seniors are also organized in the institution from time to time by professional counselors to generate an atmosphere of discipline by sending a clear message that “no act of ragging shall be tolerated and any act of ragging shall not go unnoticed or unpunished.”

Thus, the cell plays an invaluable role in ensuring the harmony of campus life and makes it a zero-ragging campus. The detail of Anti Ragging Committee as follows:

1. Dr. J. P. Agarwal	Principal
2. Dr. Rohit Kumar Jain	Vice-Principal
3. Mr. Virendra Singh Rathore	Representative of Local Media
4. Mr. Jitendra Sharma	Representative of Non Govt. Org. (NGO)
5. Dr. Pradeep Parashar	Representative of Parents
6. Ms. Vandana Jain	Representative of Faculty
7. Ms. Jyotsna Saini	Member
8. Mr. Sudhir Vaishnav	Representative of Non-Teaching Staff
9. Mr. Mohit Ghosh	Students representative
10. Ms. Siddhi Bhatnagar	Belonging to fresher
11. Mr. Talha Anwar	Students representative
12. Ms. Shivangi Das	Belonging to Senior
13. Ms. Aishvarya Srivastav	Belonging to Senior

### ANTI RAGGING SQUAD

In compliance of Hon'ble Supreme Court order and All India Technical Education (AICTE) New Delhi Notification No. of F.No.37-3/ Legal/AICTE/2009 dated July 01, 2009 for Prevention and Prohibition of Ragging in Technical Institutions the Anti Ragging Squad is constituted consisting the following members along with their contact detail.

1. Dr. J. P. Agarwal	9414248951
2. Mr. Chandresh Mathur	9214443336
3. Dr. Mukesh Kr. Gupta	9414229498
4. Ms. Sushila Chahar	9829477716
5. Mr. Mahesh Verma	9251456747
6. Mr. Piyush Vyas	9414738679
7. Mr. Sanjay Singh	9413888168
8. Dr. Kumud Tanwar	9251931931
9. Mr. Pawan Jhajharia	9929299954
10. Ms. Daljeet Kaur	9587079996
11. Mr. Avinash Yadav	9314878542
12. Mr. Piyush Attarwal	9828111241
13. Mr. Siddharth Singh	9829065770
14. Mr. Kunal Vyas	9982358185

### WOMEN SENSITISATION COMMITTEE

In the light of the growing cases of crimes against women. The institute has setup the following gender sensitisation committee to ensure safety and security of girl students and other women employees in the institute:

1. Dr. Vandana Jain	Convener
2. Ms. Arti Gupta	Member
3. Ms. Megha Gupta	Member
4. Dr. Anjali Goswami	Member
5. Ms. Daljeet Kaur	Member

### GRIEVANCE COMMITTEE

As per the direction of the All India Council of Technical Education (AICTE) New Delhi JNIT has constituted a Grievance Committee. The detail of Grievance Committee are as follows:

1. Dr. J. P. Agarwal	Principal	9414248951
2. Dr. Rohit Kumar Jain	Vice-Principal	9351717668
3. Dr. Mukesh Kumar Gupta	Member	9414229498
4. Mr. Mahesh Verma	Member	9251456747
5. Mr. Sidharth Singh	Member	9829065770

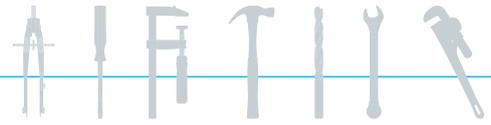
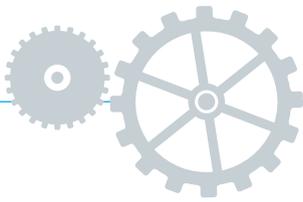


# B.Tech

at JNIT: **DISTINCT EDGE**



1. Unique Teacher- Student Ratio of 1:15 to give personalized attention to each student for their all round development.
2. Proper guidance of Soft skills and various exercise based teaching methodology to make student adaptable to the corporate world.
3. Curriculum emphasis on modern teaching methods with group sessions so as to inculcate professionalism and management skills to suit best corporate.
4. Students are stimulated to get the outer world exposure through various interactive sessions with corporate and industry professionals.
5. Highly qualified and experienced faculty drawn from Academics and Corporate world to sharpen the professional skills for personal effectiveness and technical development.
6. Regular national and state level seminars, case studies, competitions and cultural activities organized.
7. Highly disciplined environment.
8. Contemporary knowledge imparted through special lecture series and mentoring sessions.
9. Student Upgrading & Nurturing for personality evaluation.
10. Regular industrial visits and tours for maximum real time learning.



# Teaching METHODOLOGY

JNIT endeavors to make teaching participative and experimental. This essentially involves the use of innovative pedagogy to be adopted by the faculty. Classroom teaching, case studies, project, summer training, presentations, viva, assignments, role-plays, mock sessions, group discussions and seminars are used extensively to achieve this objective. Students are encouraged to be fully involved in these activities to make use of their talent. JNIT follows a unique 4-pronged approach for teaching the concepts to the students.

## LEARN

Learning process in JNIT is intended to be student centric and not teacher centric meaning that the onus of Learning is on the students. The best theoretical inputs are imparted by qualified and experienced faculties.

## REINFORCE

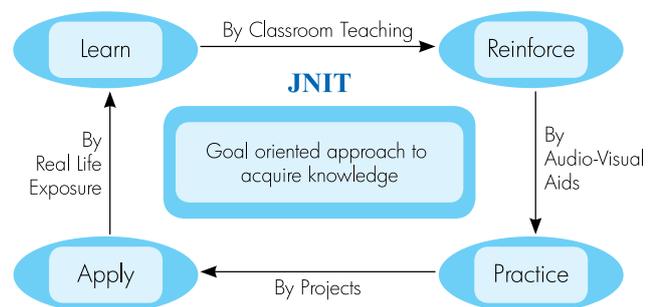
To make Learning interesting and easier, modern audio- visual teaching aids like over head projectors, LCD projectors, magnetic graph boards and EDUSAT link etc are used. Theoretical concepts are reinforced in students through these aids. These aids help in developing the concentration of the students on lectures and make the concepts clear in their mind.

## PRACTICE

“Practice makes a man perfect.” Students are required to undertake practice and inculcate to practice the theoretical concepts. It also involves presentation by the students on selected topics, assignments, home work, discussions and demonstrations. The students are encouraged to plan, hold and conduct workshops and seminars under the guidance of faculties and the overall personality of the students is enhanced through these practice sessions.

## APPLY

From summer internships to industrial tours and visits, interaction with visiting faculties, alumni and industry leaders, students should gain experience and apply the concepts what they learnt throughout their stay at JNIT. It gives practical exposure of the best prevailing environment, practices and strategies of the professional world to the students.

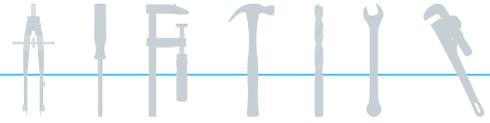
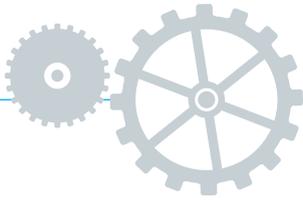




# Faculty



JNIT is proud to have a constellation of experienced faculties and specialized academic staff which is the driving force behind the success of the institution. The college harbours maximum faculty with Postgraduate and Doctorate degrees. This most committed and dedicated group of professionals adopts motivational teaching methodology for innovative learning which is 'learning centric' not 'teaching centric'. The faculty members are actively involved in teaching, training, research and consulting. Another component in this direction is the regular Faculty Development Programme that is carried out with equal zeal and zest in JNIT. All round the year faculty is involved and encouraged to attend workshops, seminars, training sessions etc to keep themselves updated with the latest developments in their respected areas of specialization.



# Departments

The rudiments of any professional institute of repute are its robust and vigorous department. In fact they are the production units creating intellectual capital. JNIT nurtures following basic department namely-

- 1) Computer Science Engineering
- 2) Electronics and Communication Engineering
- 3) Mechanical Engineering
- 4) Electrical Engineering
- 5) Humanities
- 6) Civil Engineering
- 7) Applied Sciences

## Department

### of **COMPUTER SCIENCE ENGINEERING** - 'Networking the Globe'

The world has entered into a new millennium. Information Technology has revolutionized the way and the engineers have to stand to the work standards as this area is being regarded as a fountain head over the world. The Computer Science and IT department of JNIT occupies huge area with 22 labs. All labs are well equipped with a great collection of 355 computers with latest configuration and accessories. The department focuses on imparting the theoretical and engineering aspects of computer architecture and its multipurpose applications.

#### UNIQUENESS

- All labs are on LAN having star topology.
- Labs are installed with latest accessories like Laser Jet Printers, Scanners, DVD Writers etc.
- Wi-Fi enabled campus.
- Round the clock Internet connectivity of 10 Mbps through Radio frequency.
- Online access to reputed International and National Libraries through DELNET
- A Hardware section for maintenance and repair of computers.
- Exclusive courses like CCNA, CCNP, RHCE, JCP, .NET, C++,C# etc conducted regularly
- Seminars & workshops on Real Time Systems, CDMA, GSM, Bluetooth, Wi-Fi, DB2, .NET technologies for maximum exposure.
- The software gallery equipped with the latest and essential softwares to cover the course curriculum.
- The block is managed with IBM-e Server x 206, IBM-e server x 226 with CISCO 2948G layers 3 managed switch managing Internet/Intranet.

#### COMPUTER LABS

- |                                   |                                       |
|-----------------------------------|---------------------------------------|
| 1 Graphical User Interface Lab    | 12 Design and Analysis of Algo. Lab   |
| 2 Object Oriented Programming Lab | 13 Computer Graphics & Multimedia Lab |
| 3 Computer Programming Lab        | 14 Compiler Design Lab                |
| 4 UNIX Shell Programming Lab      | 15 Internet Programming Lab           |
| 5 Unix Network programming Lab    | 16 UML Design Lab                     |
| 6 Software Testing Lab            | 17 Data Mining & Warehousing Lab      |
| 7 Data Compression Lab            | 18 Database Management Lab            |
| 8 Network Lab                     | 19 Operating System Simulation Lab    |
| 9 Software Engineering Lab        | 20 DHDL Programming Lab               |
| 10 FPGA Lab                       | 21 Data Structure Lab                 |
| 11 Embedded System Design Lab     | 22 Computer Aided Software Engg. Lab  |



# Department

of **ELECTRONICS & COMMUNICATION ENGG.**

- *'Building the Future'*



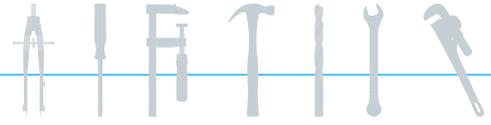
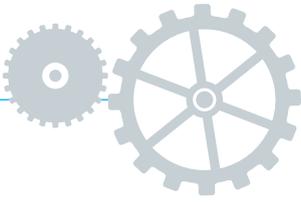
“Electronics has penetrated every layer of our existence. Looking at the need of the hour and keeping in mind the phenomenal growth of electronics, the department focuses on imparting an amalgamation of theoretical knowledge and practical expertise. There are 17 well-equipped ECE labs & workshops in the department.”

## SALIENT FEATURES

- Labs equipped with antenna training kits, microwave benches, digital communication trainer kits, multiple power supply, FPGA kits, different microprocessor interfacing cards etc.
- Softwares like Orcad, Active HDL, ULTI BOARD, MULTISIM, MATLAB, Xilinx etc. are used in simulation and synthesis of the hardware circuits.
- The department conducts highly advanced technical courses like PLC, CNC training, PCB design using cadence's ORCAD tool fabrication, VLSI design/training etc for in-house training and implementation.
- Regular seminars and workshops on Thin Film Technology, Integrated Circuits, Semi Conductor Wafer & Chip Design.

## LABS & WORKSHOPS (ELECTRONICS & COMMUNICATION ENGG.)

1. Electronics lab I & II
2. Computer Programming lab I & II
3. Digital Electronics Lab
4. Advanced Microprocessor Lab (8085,8086)
5. Communication Lab I & II
6. Microwave Engineering Lab
7. Antenna Lab
8. Electronics Engineering Design Lab
9. Electronics Workshop
10. 11. PCB Lab
11. 13. Signal Processing Lab I & II
12. Industrial Electronics Lab
13. 16. VLSI & Optical Fiber Lab
14. Wireless Communication lab



# Department of **ELECTRICAL ENGG.** - 'The Powered Pillar'



Electrical Engineering is a branch of Engineering that deals with the invention, design, development and commercial applications of electrical and electronics systems, components and devices. There is a wide variety of domains to which it applies. They go from the very small, as in the development of the one-electron transistor in nanotechnology to the very large power engineering generators and transmission lines and beyond, as in the satellite communication systems that allow for the GPS in your automobile, which by the way, belong to the domain of astronomical dimensions!

Electrical Engineering is a broad and challenging field that offers employment and career opportunities ranging from research and product development to engineering sales.

Electrical engineers have a vast amount of knowledge of electrical phenomena and technology, and work in any array of capacities that support total engineering efforts in the industries that employ them.

## **SALIENT FEATURES**

1. Well equipped lab with machines, electrical measuring instruments.
2. Software like MULTISIM, MATLAB, TINA PRO, PSPICE, Electrical CAD etc.
3. The department conducts regular advance technical courses like, Circuit design & analysis, Electrical CAD etc.
4. Regular seminars & workshops on latest electrical technology.
5. Frequent visits to industries for practical exposure.

## **LABS**

1. Electrical Machine Lab
2. Electrical Measurement Lab.
3. Electrical Circuit Analysis Lab.
4. MATLAB/PSPICE/TINA/MULTISIM/Simulation Lab
5. Microprocessor Lab
6. Control Lab
7. Power System Design Lab
8. Machine Design Lab
9. Power electronics Lab



# Department of **MECHANICAL ENGG.** - *'challenges of the modern times'*

In today's highly advanced time, support of machines and tools can hardly be overlooked. Mechanical Engineering is the mother branch of other engineering branches. It plays an important role in every sphere of engineering. Mechanical Engineering is the discipline which deals with the mechanism of various machines and power plants. The Department covers a vast area with a huge space for Mechanical Engineering Workshop.

## UNIQUENESS

- An automobile museum for maximum practical exposure.
- Highly advanced labs equipped with refrigerators, air conditioners and various other machineries in the department.
- Production Engg. Labs with most modern equipments like various CNC Lathes, heavy duty lathe, shaper, drilling, radial drilling, milling machines and conventional mechanical machines to train young technocrats.
- Various seminars and workshops are organized regularly to ensure overall growth of the students.
- Frequent visits to industries for practical exposure.
- Live projects and amazing latest working models practically manifesting the mechanical concepts.
- Constructive interaction with academia and corporate of Mechanical field to grasp practicality of knowledge.

## LABS & WORKSHOPS (MECHANICAL ENGG.)

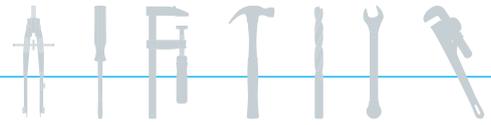
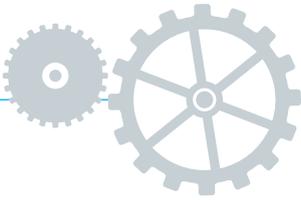
### Workshops

1. Machine shop
2. Fitting shop
3. Sheet metal shop
4. Welding shop
5. Foundry shop
6. Carpentry shop

### Labs

1. Automobile Lab
2. Fluid Mechanics Lab
3. Material Science & Testing Lab
4. Dynamics of Machines Lab
5. Thermal Engg. Lab
6. Production Lab
7. Heat transfer Lab
8. CAD/CAM, CNC & MAT Lab





# Department of **CIVIL ENGG.** - 'The Pillar of Strength'



Civil Engineering is the oldest engineering discipline. Civil Engineering addresses to all aspects of the infrastructure facilities necessary for modern living in housing, such as buildings, transportation systems water supply and waste-water treatments, environmental protection, urban development, sewage treatment. Along with these core sectors of civil engineering, there are allied sectors like thermal and hydropower plants, off-shore projects, mining projects, telecom sector, space program, & nuclear power plants which invariably require services of civil engineers. Civil Engineering actually plays the role of nation building.

The versatile branch of civil engineering is often referred to as evergreen branch as all new graduates do find some kind of job or more often entrepreneurs. The branch offers a wide range of career option in department of Railways, CPWD, Military Engineering Services (MES), State Bridge Corporations, state & central departments services like Rajasthan State Road Transport Corporations, Town Planning, Zila Parishads, Municipal Corporation, and Public sector undertakings like BHEL, NTPC, ONGC, Nuclear Power Plants, Electricity boards etc.

The B.Tech. degree in Civil Engineering is of four years duration & the intake capacity is 120 students.

## **SALIENT FEATURES**

1. Well equipped labs with all equipments, material testing machines & instruments.
2. Regular conduction of advance technical courses on Structural design, CAD, Building materials etc.
3. Regular seminars & workshops on latest building materials and technology around the globe.
4. Regular field survey and field work to get more practical exposures.
5. Frequent industrial visits for practical exposure.
6. Constructive interaction with academia and corporate of Civil engineering field to grasp practicality of the subject.

## **LABS**

1. Fluid Mechanics & Hydraulic Lab.
2. Material Testing Lab.
3. Concrete Lab.
4. Surveying Lab.
5. Structural Engineering Lab.
6. Environment Engineering Lab.
7. Engineering Mechanics lab
8. Soil Mechanics lab
9. Geotechnical Engineering Lab.



# Department of **APPLIED SCIENCE** - 'The Benchmark of Strength'

Physics, Chemistry and Mathematics are the core subjects of this department. Faculty is competent and the labs are well equipped. The course module is miscellaneous yet comprehensive to give intensive and practical knowledge of the subjects. The focus of the department is to equip the students with the latest know-how in these subjects as well as to use the knowledge in the present context.

## **CHEMISTRY LAB**

Embellished with comprehensive pH meter, conductivity meter, redwood viscometer-I, penskey- marten's apparatus, cloud and pour point apparatus etc to conduct intensive experiments.

## **ENVIRONMENTAL LAB**

Equipped with Modern instruments such as U.V. spectrophotometer (200-1100nm) with PC, digital PH-meter, digital conductivity meter, Muffule furnace, digital weighing machine for performing various environmental experiments.

## **PHYSICS LAB**

Various experiments on optics, electrical and electronics fields are conducted with ease. Difficult experiments of optics are done with great precision in the most appropriately designed Dark room of the Physics Lab. There are in all several

experiments on the above mentioned fields, however some of the important experiments are as follows.

Optics Experiments (Spectrometer, Polarimeter, Newton's ring, Bi-prism experiment.)

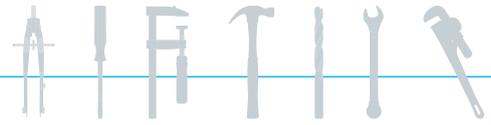
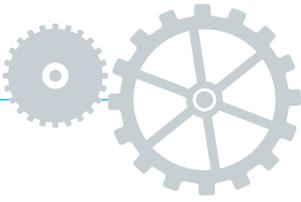
Electrical Experiments (Carey Foster Bridge, Geiger Muller Counter etc.)

Electronics Experiments (PN - Junction Diode, Laser Experiment, Optical Fiber Experiment etc)

## **MATHEMATICS**

Mathematics is the lifeline of modern technology as it provides the base for countless innovations. The department is committed towards facilitating academic excellence as well as professionalism. The curriculum covers intensive analytical areas like Discreet Mathematical Structure, Integral Transforms, Optimization Techniques, Numerical Analysis and Advanced Mathematics with high quality research in diverse fields.





# Infrastructure

- 'The Abode of Learning'



## CAMPUS

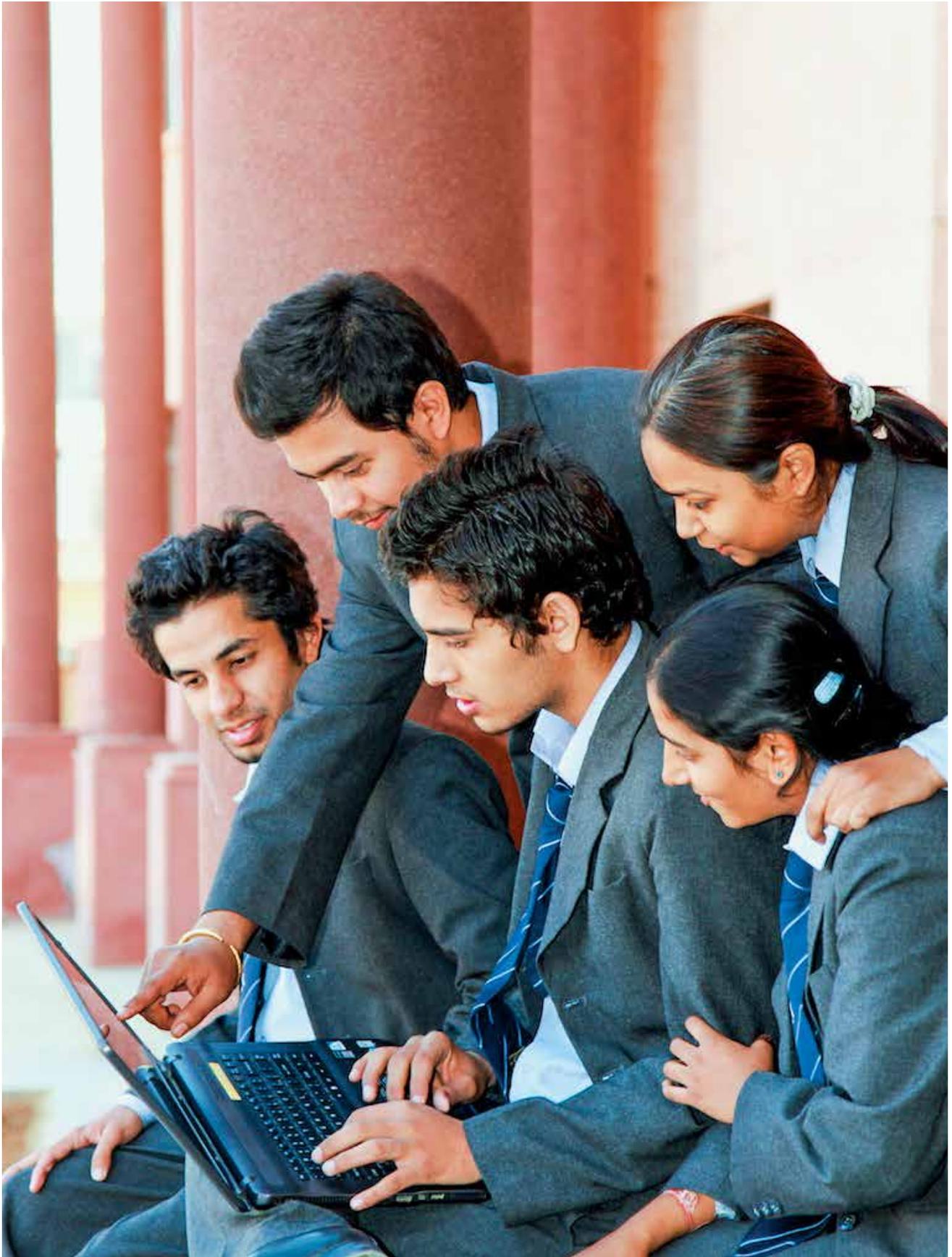
The institute is ideally nestled in a picturesque and serene campus. The lush green wide spread campus of more than 10 acres is situated in the heart of the state-Jaipur which is emerging as the choice destination of the technical world. The campus enjoys close vicinity to the airport and major locations of the city.

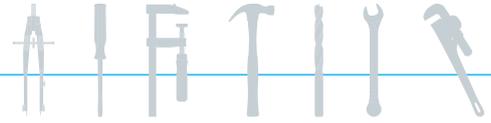
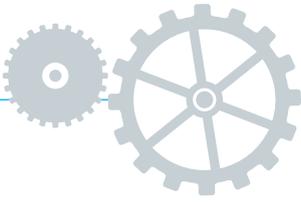
The institute is well served by an extensive transport network bridging almost all areas of the city. The most technology savvy campus of the state with Wi-Fi facility is embellished with well- planned and modernized infrastructure with state-of the art laboratories and most advanced library. It is in this serene locale that the students are given an abode to gently blossom into mature and capable individuals.

## CLASSROOMS

The Classrooms provide a platform to the students to expand their personal and professional horizons by learning, comprehending and expressing themselves in a conducive atmosphere. Classrooms are augmented by the audio visual facilities to create accurate atmosphere for technical learning. They are designed in a unique way where students imbibe the virtues of hard work, discipline, ethical practices and achieve the high standards of excellence in every sphere of life.







### CONFERENCE HALL

The Institute possesses a spacious, beautifully designed and sophisticated Conference Hall with a large seating capacity. The Conference Hall is equipped with ultra modern state-of-the-art acoustics and excellent audio visual aids. The Hall facilitates in organizing interactive sessions, seminars, symposiums and presentations of experts from the corporate world.

### LIBRARY

'No furniture is as charming as books, books are great transformers.'

Library is run according to an Open Access System. The library has a rich collection of about 20,000 volumes of books, periodicals, reports and reference material. A separate research center subscribes to major technical journals, magazines and newspapers. Xerox, lamination and spiral binding facilities are available for students in the library itself.

The institute focuses on providing maximum exposure of knowledge to students through its special facilities like e-journals and online journals. The institute adds new books to the library every year. The integral part of the institute and library is the IEEE and IETE journals. With DELNET facility, students are given a full range of electronic as well as traditional library research facilities. The state-of-the-art library has procured LMS (Library Management System) for the benefit of the students. It is embellished with Wi-Fi zone. In addition to the books from central library, more books are issued to the students from Book Bank. A Cluster of computer workstations are dedicated with the internet access in the library. The library also has a wide collection of Video CDs related to myriad subjects to impart information in a visually pleasing and interesting manner.





### SALIENT FEATURES

- Round the clock medical facility.
- Geysers in winter season.
- 24 hr. free Wi-Fi Internet facility.

### HOSTELS - A HOME AWAY FROM HOME.

JNIT recognizes that a major concern to all students and parents is the availability and quality of accommodation and other facilities. The institute provides on-campus living facility in elegantly designed hostels. The rooms are spacious and well furnished with attached facilities. Hostels possess spacious common rooms for recreational facilities. Round the clock security gives a constant vigilance and surveillance to all. Composition of administration is Warden, Caretaker, Mess assistant, Physical training instructor and Security officers.

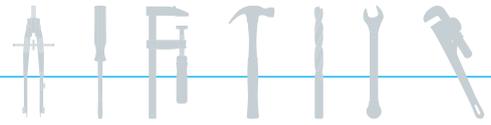
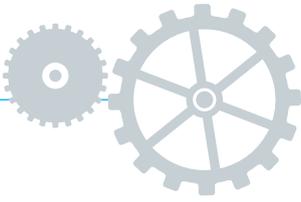
Special care is taken to maintain the status and hygiene of the accommodation as well as the surrounding habitat. Mess offers balanced and nutritious four meals per day to the students. The central R.O system provides 24 hr clean drinking water.

### CAFETERIA

A well furnished and spacious Cafeteria is located in the heart of the campus. It provides all type of nutritious and hygienic eatables and beverages to cater to the multi-ethnic tastes of the students, staff and visitors.

In the vibrant atmosphere of Cafeteria, students learn in an informal manner and share commitment in a group.





# CRMC

## CORPORATE RESOURCE MANAGEMENT CENTRE



*Alumni Meet 2014 Batch*

CRMC is literally the eye of the storm. CRMC at JNIT brings together corporate luminaries and the student community in intellectually stimulating and mutually beneficial interaction that forms the basis of firm relationships that have grown and strengthened. The division puts forward its dedicated efforts to build mutual relations with corporate. The center maintains liaison with industries, corporate, PSU, MNCs etc to facilitate in-plant practical training and most importantly inviting and organizing campus recruitment drives for prestigious technology driven companies. Besides these, education cum recreational tours are also being organized by the cell from time to time.

- CRMC provides vital inputs for updation of curriculum as per changing business requirements.
- The active placement division provides career guidance and counsels students about the final placements.
- Personality development workshops with students profiling for personality evaluation.

CRMC is actively engaged in providing motivation, guidance and career counseling to the students for potential job prospects and personality development. Group discussions, Mock interviews and PI sessions are conducted by the centre to add to the overall excellent academic curriculum. Seminars, symposiums, lectures by eminent personalities and high profile technocrats are being organized frequently for widening the horizons of the learners.



# Training and PLACEMENT CELL

## Message from T.P. Cell

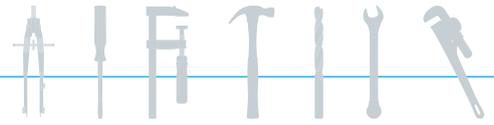
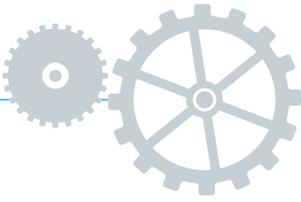
The Training & Placement Office, JNIT facilitates the process of placement of students passing out from the Institute besides collaborating with leading organizations and institutes in setting up of internship and training program of students. The office liaises with various industrial establishments, corporate houses etc which conduct campus interviews and select graduate students from all disciplines. The Training & Placement Office provides the infra-structural facilities to conduct group discussions, tests and interviews besides catering to other logistics. The Office interacts with many industries in the country, of which nearly 200 companies visit the campus for holding campus interviews. The industries which approach the institute come under the purview of:

- Core Engineering industries
- IT & IT enabled services
- Manufacturing Industries
- Consultancy Firms
- Finance Companies
- Management Organisations
- R & D laboratories

The placement season runs through the course of the year commencing the last week of July through to March. Pre-Placement Talks are also conducted in this regard as per mutual convenience. Job offers, dates of interviews, selection of candidates etc. are announced through the Training & Placement Office.

The Placement Office is assisted by a committee comprising representatives of students from the under-graduate and post-graduate engineering streams. The committee evolves a broad policy framework every year besides a set of rules which are inviolable. Student members are closely co-opted in implementing these policy decisions.





# E-Governance Cell



This is to congratulate that JaganNath Gupta Institute of engineering got selected for e gov. campus through Government of India in which we would work with the District Government, State Government & Central Government on the various projects like IRCTC updation of technologies and many more. We have received the award for best project submission on 23rd June 2013 at Constitution Club of India from the UN Resident Coordinator Miss Lese Grande. It is really an honor that they have selected only 100 colleges from all over India and Jagan Nath Gupta Institute of Engineering & Technology is one of them.



# Our Close

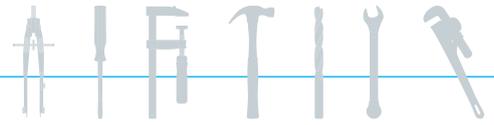
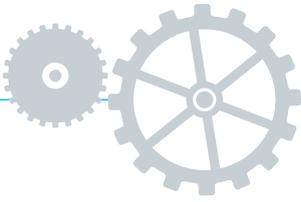
## ASSOCIATES

*JNIT is collaborated with various government firms as well as the industries for training.*

Some of the companies which offered Final Placements and Summer Training to our students.

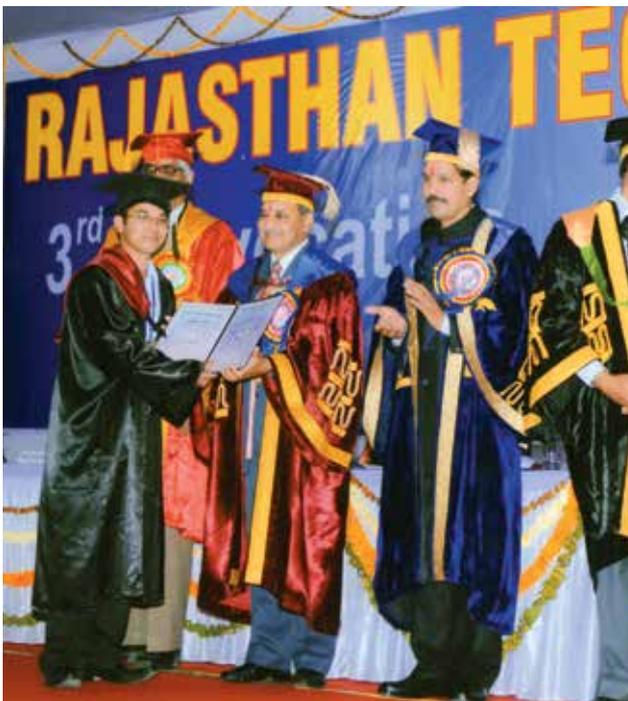
Infosys
TCS
CAPGEMINI
ITC Ltd (WIMCO)
Indian Army
Petronas, malaysia
IBM India Pvt. Ltd.
CMC
Dalmiya IT Solutions Pvt Ltd.
D&H Secheron
Dream Ajax
ECW, Ahmedabad
EquilibriseTechnologies
Erricsion
Genpact
GENUS
HCL – BPO
HCL Comnet
HCL Infosystems
Huawei Technologies
INT Corporate
Inter Globe Technologies
Jindal
Kaizen Robeonics
L & T Infotech
Life-BP
Mahindra Satyam
Mann India Technologies
Meta Cube
Mphasis
National Informatics Centre
NEC HCL Technologies

NewGen
NIIT Technologies
Patni Computers
Persistent System
A3 logics India Ltd
Arden Telecom
Birla Soft
Comsoft solutions
Beta Soft Solutions
Pheonix Maritime Pvt. Ltd.
Physical Research Laboratory
Dpt. of Space
Poornam Infotech
Q. Bit Systems
R Systems
Salah Software
Siemens
Synergy
SYNTEL
SYSCOM
Tele Performance
UTTAM GELVA STEEL
Vedanta
WIPRO – BPO
Zep Infratech
Genexis, Quattro & Igennie
DARP Mobilize Softech Pvt. Ltd.
Nicole Infosoft Pvt. Ltd.
HCL Technology
Sql Star International Ltd
Indian Air Force
INDIAN NAVY



# Our Achievers

2014-15



Satyam Shandilya of B.Tech. IV Year IT Secured 2nd Position in RTU



Udit Mamodiya EIC Branch Topped RTU Exam



**Abhaya Jain**  
Oracle, USA  
Package : 28.50 Lacs p.a.



**Preeti Ratnawat**  
Hindustan Petroleum Corporation Ltd. (HPCL)  
Package : 8.50 Lacs p.a.



**Ankit Sharma**  
Indian Navy  
Package : 8.50 Lacs p.a.



**Leynold P. Wilson**  
Indian Army-Lieutenant  
Package : 7.80 Lacs p.a.



**Arushi Sharma**  
Syntel, India  
Package : 6.80 Lacs p.a.



**Love Agrawal**  
Satyam Computers, Hyderabad  
Package : 6.50 Lacs p.a.



**Ankur Kumar**  
L & T  
Package : 6.50 Lacs p.a.



**Pooja Vijay**  
Syntel, India  
Package : 6.00 Lacs p.a.



# Campus Activities

2014-15



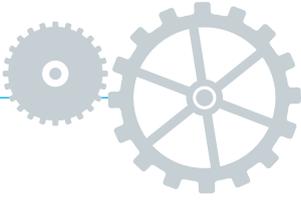
R & D cell Recently organised Technozia - 2015 ,AICTE sponsored “National Project Technical Exhibition” (Under Innovation Promotion Scheme of sponsorship Rs 2,00,000 , Chief Coordinator Mr. Nidhish Tiwari , Head R & D Cell)



Delegates @ E-Week under for Entrepreneurship Development Cell alias Elite club



Nourishing Aims and Aspirations in College (NAAC) @JNIT since 2011. Providing students a techno-cultural platform to showcase their skills



# Campus Activities

2014-15



“Bharti Mela - A National Job Fair & Industrial Meet” organized at the JNIT Campus in February, 2015



Plantation by N.S.S. Candidates.



Spic-Macay performance by Sarod Maestro “Shri Parthosarthy”



Blood donation camp organised by Rotary Club.



Guest lecture by Retd. Chief Justice S.N. Bhargava, on “Human Rights”.



# Campus Activities

2014-15



International star Shibani Kashyap performing at VERVE-2014.



Verve 2k15 Glimpses



Ramp walk by the students at VERVE-2015



Tiger Shroff & Kirti Shanon Performing @ JNIT



Badshah performing @ JNIT - Verve 2015



Juggy-D Performing @ Verve

# Location Map



Website: [www.jnit.org](http://www.jnit.org)

Our Academic Partners

Infosys®

ORACLE®

सी डैक  
CDAC

STP-2012  
Wegilant Net Solutions Pvt. Ltd.  
(An IIT Bombay Student's Initiative)

# JNIT

**JaganNath Gupta Institute of Engineering and Technology**

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