JK LAKSHMIPAT UNIVERSITY
Education for Life

Institute of Engineering and Technology
Placement Brochure
Batch 2015
VISION

To encourage a value based innovative learning environment that engages deep intellectual, spiritual and moral stimulation and to promote holistic personality development for nurturing leadership.

MISSION

To practice a 'mentoring' based education system with intellectual, moral and spiritual culture of its own rooted in Indian ethos and in tune with the global vision of the times;

To inculcate learning through understanding, knowledge enhancement, skill development and industry ready training;

To encourage innovative thinking and technopreneur attitude;

To develop a mind set for action without fear, with self-discipline and care for society.

VALUES

Caring for people.

Integrity including intellectual honesty, Openness, fairness & trust.

Commitment to excellence.
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Board of Management

Shri Bharat Hari Singhania  Chairperson
Industrialist

Dr. Raghupati Singhania  Co-Chairperson
Industrialist

Members

Prof. Devi Singh  Educationist
Prof. Anil K. Gupta  Michael Dingman Chair
The University of Maryland, USA
Maj. Gen. D.N. Khurana  Former Director General
AIMA
Shri H.P. Singhania  Industrialist
Prof. K. Kasurirangan  Professor Emeritus
National Institute of Advanced Studies
IISc, Bangalore
Prof. M.S. Ananth  Academic Council
Visiting Professor, IISc Bangalore
Former Director, IIT Madras
Prof. Pritam Singh  Former Director
IIM Lucknow & MDI Gurgaon
Smt. Vinita Singhania  Managing Director
JK Lakshmi Cement Ltd.
Nominee, Govt. of Rajasthan
Shri S.K. Roopala  Managing Director
Vadanta Aluminium Ltd. and
Former CMD, Steel Authority of India
Dr. Subhash C Jain  Director
CIBER, University of Connecticut, USA.
Shri SurendraMalhotra  Director – JK Group
Shri S. A. Bidkar  Chief Financial Officer
JK Lakshmi Cement Ltd.
Dr. Swapan Kumar Majumdar  Director - IM, JKL
Dr. Anupam K Singh  Director - IET, JKL

Academic Council

The Academic Council has been constituted as the principal academic body of the University, which exercises general supervision over the curriculum and the academic policies of the university. It consists of Vice Chancellor (President) as its Chairman and other eminent educationists in the field of management, engineering and other disciplines as members.

Prof. Devi Singh  Vice Chancellor - JKL
Dr. D. M. Pestonjee  GSPL Chair Professor
SPM, Pandit Deendayal Petroleum University
Gandhinagar
Former L&T Professor of Management
IIM, Ahmedabad.
Prof. I. K. Bhat  Director
Malaviya National Institute of Technology
Dr. Mangesh G Kargeonker  Director General,
National Institute of Construction
Management and
Research, Pune
Professor A. Sridharan,
Formerly Professor of Civil Engineering
and Deputy Director, IISc Bangalore
Dr. Anupam Tiwari  GM – HR Ranbaxy Laboratories Ltd.
Devas (M.P.)
Mr. Sanjay Jain  Company Secretary cum GM (Accounts)
Mumbai World City Jaipur (Ltd.),
SEZ Project Office
Dr. Swapan Kumar Majumdar  Director
IM, JKL
Dr. Anupam K Singh  Director
IET, JKL
Dr. Sandeep Kumar Tomar  Associate Professor
IET, JKL
Shri Bharat Hari Singhania

Shri Bharat Hari Singhania is the Chairman & Managing Director of JK Lakshmi Cement Ltd, Chairman of JK Paper Ltd, Chairman of JK Tyre & Industries Ltd, Chairman of JK Agri-Genetics Ltd and Director of other JKO Companies.

Shri Bharat Hari Singhania is also the Director of the JK Organization; an Industrial Group founded over 120 years ago. The Group is a multi-business, multi-product and multi-location organization.

His vision of creating and enabling touch points at the societal and human level find expression in the CSR and HRD focus across Group companies.

The mentoring legacy of his father, Late Lala Lakshmipat Singhania, resonates in his world-view and finds a uniquely individual expression that is always distinct and memorable.

An avid proponent of the importance of creating knowledge capital and equitable development, Shri Bharat Hari Singhania is associated with the various philanthropic organizations and Academic Institutions run by JK Group.

From the Desk of Chancellor

Indian technocrats are known for their skills and expertise throughout the world. With information technology leading the bandwagon, other sectors such as manufacturing, telecommunication, power transmission and infrastructure development have also witnessed numerous success stories. With India geared up to achieve above 10 percent growth rate mark in the years to come, bridging the demand - supply gap in the technical education sector, both qualitatively as well as quantitatively, must be the first step in this riveting journey.

Indian education system has always fascinated the world since ages. The Gurukul system of ancient India, where students used to live at the Gurukul or at the teacher’s home to complete their education, till date offers no parallel education system. There is no arguing to the fact that despite all odds and non-uniformities, the modern day education system in the country has fueled the growth of Indian economy and has brought glory to the country, the world over. Making available quality education to all has been on the priority list of all governments in the post-independence era.

JK Lakshmipat University has been established precisely with this solemn objective of providing quality education, training, research and consultancy. The Institute of Engineering and Technology is a constituent of the University and is aimed at offering best-of-the-world technology education to its students. With a focus on incubating the creativity and ingenuity of its students, the institute will equip them to face the global challenges. With world-class infrastructure and well-qualified and experienced faculty members as their mentors, the students, I am sure, will be able to excel in their respective fields and emerge as future leaders of the globe.
From the Desk of Vice Chancellor

We are witnesses of and partakers in the most crucial transition our nation has ever seen. India is metamorphosing economically, technologically, culturally and even socially. As the demographic dividend becomes a household term, the Indian higher education system is redefining the quality of future professionals, who will lead this transition and address the needs of the global industry and society, at large. The influence of professional education is thus undeniable, and it is binding that the educational institutes produce industry-compatible quality professionals. The definition of industry compatibility has evolved beyond intellectual capacity, and has embraced the essentiality of human values and emotional genius. The University thus, as the representative of the higher education system, plays a fundamental role in initiating and automating principled professional and personal growth in a future technocrat.

The Institute of Engineering & Technology at JK Lakshmipat University, takes pride in cultivating competent thought leaders, focused on finding answers to the problems of the society. We measure the qualitative strength of our academic and co-curricular design by the extent of intellectual, moral and spiritual stimulation and in developing innovation-driven leadership among students. Students form the axis and drivers of all activity on the campus. With the encouraging insights from learned faculty and nurturing leadership of the management, students drive the vision of the institute, and undertake a journey of professional and personal self-discovery.

At the Institute, we understand the significance of industry-academia interaction. Promoting industry-based learning and exposure lies at the core of our beliefs, which we actuate in the form of cross-disciplinary research projects, industrial training & visits, expert lectures from various Industrialists. IET offers Industrial training programmes to its under-graduate students, PS-1 during summers after 4th semester & PS-2 for 8th semester. With collaborative efforts of the industry, our students find continuous opportunities to measure their learning against corporate expectations. We sponsor multi-cultural experiences for global-attuned learning through our association with foreign universities and companies.

It is indeed a pleasure to work together with you in providing our students an opportunity to benefit your organization and the society. I am assured of the collective accomplishment our students shall drive, as they have driven JKLU to become pivotal in the growth of national and global economy.

Prof. Dr. Devi Singh

Dr. Devi Singh, Vice Chancellor, JK Lakshmipat University, is recognized as one of the top academic leaders in India who have created and transformed institutions of higher learning. A well-known professor in the area of International Finance & Management, Dr. Singh served as Director, IIM - Lucknow for ten years and Director, Management Development Institute (MDI), Gurgaon for four and half years. He has worked as visiting full professor at the Faculty of Management, McGill University, Canada for five years. He has been a Ford Foundation and UNDP Fellow (International Management Education). He has been a visiting faculty at the International Centre for Public Enterprises, Slovenia, ESCP Europe, SKK Graduate School of Business, Seoul, and Kelly School of Business, Indiana.


Dr. Singh is author of three books in Finance and Management. He has been on several policy level Committees of Government of India, All India Council for Technical Education, PHD Chamber of Commerce & Industry (PHDCCI), Standing Committee on Public Enterprises (SCOPE) and All India Management Association (AIMA). Dr. Singh has served as Member on the RBI'S Appointments Board for two years (2011-12). Dr. Singh was on the Board of India Fulbright for two years (2005-07). He has received several awards including ISTE National Fellow (2007), UP Ratna (2008), Best Director of a Business School (1999), Ravi J Mathai Fellow (2013), and Bharat Ashmita Award (2013).
Prof. Dr. Anupam K Singh

Prof. Dr.-Ing. Anupam Kumar Singh is a staunch researcher and academician working as Director Institute of Engineering and Technology, JKLU.

Prof Singh has been associated with Karlsruhe Institute of Technology Germany, Pandit Deendayal Petroleum University Gandhinagar and Nirma University Ahmedabad. Earlier, he has been associated with IWWI Colombo Sri Lanka, School of Planning & Architecture New Delhi, and Government of Madhya Pradesh at Bhopal. Prof Singh has obtained PhD (Doktor-Ingenieur) and MS in Water Engineering both from University of Karlsruhe Germany. He also holds PG Diploma in Urban & Regional Planning from Technical University of Szczecin in Poland. Prof Singh has been Associate Editor of International Journal of Water Resources and Environmental Management and reviewers for Journal of Hydrology, Journal of Hydrologic Science, Journal of Applied Hydrology, Journal of Agro-meteorology, Current Science, Journal of Indian Society of Remote Sensing, Journal of Geomatics and few more.

He has been awarded with Indian Society of Technical Education Best Engineering College Teacher Award for 2009, Stockholm International Water Institute Sweden’s 2002 Best poster award, Association of Agro-meteorology best paper award for 2008.

He has received fellowships from DAAD of Germany, DFG of Germany, EPFL at Switzerland, GATE of India, NAUKA of Poland, and MEXT of Japan during various professional stages.

From the Desk of Director - IET

India is emerging as a global player due to rapid economic growth resulting into exponential registration of engineering graduates during last 2-decades. The future scenario on engineering manpower will double to 1.5 million during 2008 - 2015. This daunting task of educating and training large number of technical manpower can be achieved through establishing specialized institutions. With the far sighted vision of JK Organization, a modern temple of learning and training - the Institute of Engineering and Technology (IET) under JK Lakshmipat University has been established in 2011. It gives me pride to share that engineering graduates at IET - JKLU are growing intellectually, analytically, professionally and culturally. As we aspire to produce global technocrats for present needs in Indian and Abroad, we are ensuring that our curriculum remain industry desirable, employment oriented, worldwide acceptable and human value based. I hope our graduating students will make significant impact on techno-economic development of this great national.

Thus, to ensure greater learning outcome, we have introduced innovative interventions in class rooms, hands on training in laboratories, field exposure through practice schools, progressive teacher training programs, and additional preparations to students in need. I heartily welcome prospective students, parents, industry professionals, and research institutions to this modern temple of learning. Welcome aboard.
From the Desk of Director
Corporate Relations & Placements

Forces like globalization, economic liberalization, and advances in science and technology are changing the needs for relevant and prepared talent in organizations. Industry is looking for candidates that are not only ready for the needs of today but are also prepared for the challenges of tomorrow.

This is the underlining thread on which the Institute of Engineering and Technology of JKLU has developed its curriculum, and is engaged in imparting the most update technical education to its students through the B.Tech programme. The programmes focus on a holistic approach to the development of students with an emphasis on leading edge course contents. Extra-curricular activities and sports at the University, provide the students excellent teaming and leadership experiences that they carry forward with them into work.

A foundational element of the programme is giving students exposure to industry through industrial trainings named as Practice School - I (4-6 weeks) and Practice School - II (One Semester) where students are involved in meaningful projects with sponsoring organizations.

We invite you to participate in campus recruitment programme of this year. We are confident that you will find our students as an asset to your organization. We look forward to establishing a growing relationship and stronger bonds of cooperation with you.

Mr. Munish Bhargava

Mr Munish Bhargava, Director (Corporate Relations & Placement), has over 35 years of progressive senior management experience with leading industrial groups like Aditya Birla, Eicher, Dunlop India, Shriram and DLF. He has been associated with academia since last 11 years in various capacities. Prior to his current role, he was Corporate and Placement Advisor at IIIT and Dean, Industry - Academia Interface at Rai Foundation.

He completed his graduation from IIT BHU and has a Masters degree in Electrical Engineering from IIT, Roorkee. He also completed an Executive Development Programme in Marketing Management from IIM Calcutta. In addition, he is actively involved in community service having been the President of Rotary Club of Delhi Panchshila Park. He authored the book “Winning Resumes & Successful Interviews” published by McGraw - Hill Education in 2012.
JK Lakshmipat University (JKLU) has been promoted by the JK Organisation, one of the leading Indian industrial conglomerates of the country with a rich heritage of more than 120 years. It is recognized by Government of Rajasthan and covered u/s 2(f) of the UGC Act. The University presently offers management and engineering programmes matching world class standard of academic excellence. Besides IM, Institute of Engineering & Technology is another constituent institute of the University that offers various technology Programmes.

To cater the needs of various areas professional education, JKLU offers different degree programmes through two institutes, Institute of Management (IM) and Institute of Engineering and Technology (IET). The University does not focus only on providing education to students but it provides training to the corporate executives through Management Development Center. The University has recently established Institute of Skill Development (ISD) that will run various skill development and enhancement programmes.

**UGC:** As per the State Government Notification No. F. 2 (23) Vidhi/2/2011 dated September 15, 2011, the JK Lakshmipat University, Jaipur (Rajasthan) has been established by an Act No. 19 of 2011 - The J.K. Lakshmipat University, Jaipur Act, 2011 of State Legislature of Rajasthan as a State Private University and is empowered to award degrees as specified by the UGC under section 22 of the UGC Act 1956 through its main campus in regular mode with the approval of statutory bodies / councils, wherever required. This Act is effective from June 4, 2011.

**IAO:** The International Accreditation Organisation (IAO) evaluated the University last year through its website and references in India, and certified that JKLU complied with the standards and criteria established by the International Accreditation Organisation. It thence, granted Candidacy Status to the University along with all the services and privileges of regional, national and international professional recognition.
Awards and Rankings

- Quality Initiative Mission Educational Leadership Award 2013' in the field of 'Management and Technical Education' by Knowledge Resource Development & Welfare Group
- Positioned in Top 20 Private Universities in India 2013 by Silicon India
- Productivity Excellence Award 2011-2012' in testimony of Sustainable Achievements in Productivity by Rajasthan State Productivity Council, Jaipur
- Ranked 9th in the Top 10 Emerging Universities in India survey conducted by Higher Education Review Magazine
- Rated A++ among Best 500 Engineering Colleges in India survey conducted by The Education Post
- "Best Emerging Private University in North India" by One Planet Research during the 'Education Excellence Awards 2013'

Overview of Programmes

- **Management**: MBA, BBA + MBA, B. Com + MBA, and Ph. D
- **Skill Development**: Electrical Engg., Mechanical Engg.

Overview of Future Programmes

- **Engineering**: Bio Informatics, Nano Technology, Mechatronics, Built Environment and Material Science Engineering
- **Law**: LLB, LLM, LLD and Integrated Programme (BLM+LLB)
- **Sciences**: M.Sc. and Ph. D in Pure & Applied Sciences, such as Biotechnology (science-based, focusing on fundamental aspects), Bio-chemistry, Nano Sciences, etc.
- **Social Sciences**: Masters Degree (Integrated Programmes) and Ph.D. in Economics, Psychology, Sociology and Mass Communication
- **Languages**: Masters Degree and Ph.D. in various languages
- **Pharmacy**: B. Pharma, M. Pharma and Ph. D
Institute of Engineering and Technology (IET) is the high-tech constituent of the University. It has been established to nurture budding professionals into new age technocrats. The institute strives to provide a nurturing context for imagination and ideation with its faculty providing the right stimulus to bright young minds. The vision is to create not just engineering graduates, rather professionals with the drive to make a difference.

The Institute is well equipped in terms of world-class infrastructure as well as intellectual capital. With state-of-the-art facilities in terms of Wi-Fi enabled campus, amphitheater type classrooms equipped with all modern audio-visual equipment, rich library, well equipped labs, comfortable residential facilities for boys and girls on the campus, shopping complex, gymnasium, sports facilities for indoor and outdoor games and round-the-clock availability of faculty and staff on the campus, the Institute is all set to become one of the most sought-after engineering and technology institutes in the country.

IET is positioned to cater to the needs of meritorious students by offering quality education in the field of Engineering and Technology. The Institute offers UG Programmes (B. Tech), 5-year Integrated Dual Degree Programme (B.Tech + M.Tech), 5-year Integrated Dual Degree Programme (B.Tech + MBA), PG Programmes (M.Tech), and Doctoral Programmes in various Engineering Disciplines.

**UG Programmes**

- B.Tech
  - Chemical Engineering
  - Civil Engineering
  - Computer Science Engineering
  - Electronics & Communication Engineering
  - Electrical Engineering
  - Information Technology
  - Mechanical Engineering

**PG Programmes**

- M.Tech
  - Computer Science Engineering
  - Electronics & Communication Engineering

**Integrated Dual Degree Programmes**

- B.Tech + M.Tech (5 Years)
- B.Tech + MBA (5 Years)

**Doctoral Programmes**

- Ph.D. in Engineering
- Ph.D. in Science
- Ph.D. in English Literature
Admission Procedure for UG Programmes

Eligibility Criteria
10+2 with at least 50% aggregate and minimum 50% marks or equivalent in Physics, Mathematics and any one of the four optional courses (Biology, Bio-technology, Chemistry, Computer Science) from a recognized Central/State Board/University Examination in India or in any foreign country recognized as equivalent to 10+2 system by the Association of Indian Universities (AIU). Students appearing in the final examination of 10+2 may also apply. The diploma holders (3-year Polytechnic programme by a recognized Institute) in any branch of Engineering (offered by JK Lakshmipat University, Jaipur) with minimum of 45% aggregate are eligible for a lateral entry into 2nd year of B. Tech Programme. The applicants are required to appear in one of the National level Engineering admission tests, such as JEE (Main), BITSAT, JKLU - EET (JK Lakshmipat University-Engineering Entrance Test) or any other equivalent state level engineering entrance examination. Foreign Nationals/Persons of Indian Origin/Non-Resident Indian candidates are also considered for admission on the basis of their marks in 10+2 or equivalent examination only.

Selection Process
Candidates shortlisted on the basis of their performance in the different components of Entrance Test are called for counseling. The final selection is made through counseling based on the candidate's performance in the written test and 10+2 examination.

Merit-cum-Means Scholarships (Second Year Onwards)
Seven Merit-cum-Means scholarships equivalent to 25% of the Tuition Fee are awarded to the students, whose parental income is Rs. 3,00,000/- or less per annum and have obtained CGPA of 7.5 and above but less than 8.5 in a programme.

Steps towards Academic Excellence...

Latest Curricula
Students are exposed to the latest techniques in their domains. Courses are flexible and are updated continuously.
Foundation Courses

Emphasis on strong fundamentals in sciences, communication skills and engineering principles is an integral part of the course design. Syllabus and core courses developed in close coordination with the industry, keeping the requirements of the future in mind.

The Science programmes offer basic and advanced courses of an inter-disciplinary nature. The advanced courses are in cutting-edge areas of nano-science and materials, bio-science communication networks including optical fiber and wireless communication, and compound semiconductors.

Courses in Wavelets, Optimization Techniques, Advanced Simulation and Reliability are also be offered as electives.

Engineers are expected to interact with their own professional community as well as with people from allied fields. The professional development programmes supplement engineering education with knowledge of social sciences and the inculcation of good communication skills so as to make them more enterprising and competitively oriented to succeed in the outside world.

In all the undergraduate engineering programmes, industrial training (Practice School) is made compulsory to combine the philosophy of working while learning.

Guest Lectures & Seminars

Eminent professionals from the country and abroad drawn from academic institutions, research laboratories and industry are invited for delivering lectures and seminars and for interaction with the institute's fraternity.

Group & Self Learning

This is a very effective means towards preparing professionals who are proactive in seeking and acquiring knowledge rather than having it imparted only in the classroom.

Free exchange of ideas among the group members through discussion and presentation not only leverage on time, idea exchange and effort but also enhances teaching and communication skills. Aptitude is developed for self-study and use of web resources and data banks to foster lifelong learning.

Problem Solving Exercises

Problem solving is an integral part of the teaching - learning process. Lectures emphasize this aspect through carefully set, open - ended design problems. Students are organized in small groups where an opportunity is provided to carry out problem solving exercises, engage in design activities, and perform information search and processing.

Computing Facilities

IET has well equipped computer laboratories with Multiprocessor servers and latest PCs, Networking equipment and devices. The software available includes various operating systems, compilers, simulation and modeling packages and development tools. These software packages and tools are useful for laboratory work as well as for professional development work.

Internet/Intranet/Wi-Fi Facilities

All the computer systems on Campus Area Network are connected to 25 Mbps exclusive leased line for internet connectivity. All the computers/laptops are connected to internet through a secure UTM Device using SSL security. The Firewall is connected to 25 Mbps exclusive leased line through Optical Fiber. Internet surfing, E-Mail Service is available round the clock. Hostel rooms have been provided Wi-Fi facility so as to enable the students to use internet/intranet round the clock. The institute has campus wide Wi-Fi facility.
Set up in a new age high-tech campus in Jaipur, JKLU is differentiated by quality higher education with its unique pedagogy and a world-class infrastructure for tomorrow’s front-runners - the youth.

The Institute of Engineering and Technology is situated on the campus of JK Lakshmipat University, approximately 19.5 km from the State Road Transport Corporation Bus Stand (Sindhi Camp), 18.5 km from the Jaipur Railway Station and 25 km from Sanganer Airport on the Jaipur-Ajmer National Highway No. 8. This sprawling 30-acre campus set in picturesque surroundings provides a refreshing environment for stimulating intellectual alertness and creativity. The lush green yet Wi-Fi enabled ultra-modern campus has several amphitheatres and syndicates, a computer centre, a fully automated library, a Management Development Centre, modern sports facilities, academic and administrative blocks, conference rooms and other facilities. A thoughtful blend of modernity and tradition, aesthetics and grandeur characterize the building complex.

**Learning Resource Centre**

The Library is automated through KOHA software which is integrated with University ERP system. KOHA is equipped with Acquisition, Cataloging, Circulation, Serial Control and OPAC modules. Online Public Access Catalogue (OPAC) provides the bibliographic information and location of various collections as well as links to the online resources in the disciplines of management and engineering as subscribed by the university library. The university subscribes to leading national and international periodicals and journals and an impressive collection of databases, such as IEEE [IET Electronic Library (IEL)], EBSCO, Indiostat.com, ET intelligence, IMF e-library, corporate & technical annual reports and CDs.

**Classrooms**

The classrooms are air-conditioned and have Multi-media and audio-visual equipment to facilitate effective learning. The classrooms are designed to optimize interaction between the faculty and the students. Each classroom has Internet connectivity through wireless local area network.

**Hostels**

The University has residential facility with separate hostel facilities for boys and girls. Both the hostels are located on the campus. The hostel rooms are spacious and well furnished. The hostels have sports and other recreational facilities, such as Dish TV, common room for interaction, etc.

All the hostel rooms have Internet connectivity round the clock. Hygienic and healthy food is provided in a centrally located mess, adjacent to the hostels under the guidance of the Mess Committee having both students and faculty members. The hostels have open space around with greenery and plantation. Students’ working on their laptops in the open lawns through Wi-Fi internet connectivity is a common sight in the evenings.
Other Facilities

Branch of a bank with ATM facility is available to the students in the campus. The University is also equipped with a cafeteria and a healthcare centre. The University has extensive sports facilities and a well-equipped modern gymnasium.

Cafeteria

The University has a well-furnished cafeteria to cater to the refreshment needs of the students, faculty, staff and guests. It serves as a formal and informal interaction point of the Institute.

Bank

IDBI Bank has a branch inside the campus with ATM facility exclusively for the University.

Gymnasium

A well-equipped modern gymnasium caters to the health needs of the students, faculty and staff under the guidance of a professionally qualified trainer.

Healthcare Centre

The University has a well-equipped Healthcare Centre with a full-time nursing staff and a visiting doctor.

Utility Store

It caters to the daily needs of the students and the staff.
Academic Collaborations

The University has signed MOUs with Universities of International Repute for establishing alliances relating to exchange of faculty, students and researchers.
1. Hanyang University, Seoul, South Korea (August 2, 2010)
2. St. Cloud State University, USA (July 1, 2011)
3. University of Wales, UK (July 29, 2011)
4. University of Houston, Texas, USA (February 4, 2012)
5. Széchenyi István University, Hungary (March 19, 2012)
6. The Queens University, Belfast, UK (Expected, 2014)
7. Michigan Tech, USA (Expected, 2015)
The above MoUs are aimed at establishing alliances relating to
a. Exchange for faculty, students and researches
b. Cooperation in joint research, lectures, symposia and country visit for students
c. Exchange of data, documentation and research material in the field of mutual interest
d. Cooperative educational programmes
e. To evolve new courses with the integrated multi-disciplinary approach offering multiple skills

Centre of Technology Excellence with IBM: JKLU signed an MOU with IBM India Limited for establishing a “Centre of Technology Excellence” for undertaking technology development projects involving faculty members and students, developing curriculum and courseware on next generation technologies to increase career opportunities for students, starting new programme aimed at creating leaders and specialists for the fast growing IT industry and helping IBM to nurture and acquire the top talent of the university.

Microsoft IT Academy: JKLU is a registered member of the Microsoft IT Academy. The IT Academy program enables classroom and online learning, hands-on labs, and access to hundreds of courses, books, cutting-edge resources, and collaboration tools. We encourage our students to earn a Microsoft Certification after completing their course to give them the added advantage of entering the IT workforce with proven technical skills and an internationally-recognized Microsoft Certification. Microsoft Certification is one of the most demanding and respected endorsements in the industry, stressing both technical knowledge and real-world experience. Microsoft has certified more than three million professionals worldwide.

CISCO Networking Academy: This academy is functioning at JKLU with CCNA - RSE certification (Routing and switching essential).

Bentley Network Community: IET has become the first member of Bentley Network Community in the state of Rajasthan by installing Bentley software tools for building planning, structure designing, waste water engineering, transportation engineering and water resource engineering in its computing lab.

National Entrepreneurship Network: JKLU is the institutional member of National Entrepreneurship Network (NEN) to develop and run exciting, high-impact entrepreneurship educational programmes on campus for students and new entrepreneurs and to forge a dynamic ecosystem that inspires, educates and supports India’s high-potential entrepreneurs.

Indian Society of Geomatics (ISG): ISG has opened its Jaipur Chapter at IET with its objective to promote interaction various professionals and also promote the advancement of technology and applications of Geomatics so that it becomes a part of information management and decision taking process.

Solar Energy Society of India (SES): IET has become the Organizational Member of SESI with the objective to take part in all of its activities of renewable energy, including characteristics, effects and methods of use. SESI provides a common ground to all those concerned with the nature and utilization of this renewable non-polluting resource. SESI has agreed to open its Jaipur Chapter at the University.
Industrial Orientation

It is essential to link the theory learnt in the classroom of a University system with the professional world by infusing the reality of the world of work into the educational process. As a part of this process, IET offers two 'credit-based structured courses' on Practice School (PS-I and PS-II) for its students.

Industrial Training

A 4 -6 weeks programme after the completion of 4th semester during summer term. The objective of this programme is to provide the students with an understanding of the working of corporate world in various functions associated with an Industry/ Organization. During this programme, the students observe and learn various real world applications of their curricula and develop an understanding of vast engineering operations and its various facets such as inventory, productivity, management, information systems, human resource development, data analysis etc. The general nature of PS-I assignments is of study and orientation.

Practice School - I
(PS - I)

This is for one semester in final year. The objective of this programme is to provide the students, an opportunity to work on live projects of corporate world in various fields. During this programme, they work on real world applications of their curricula through organizational function of their choice. The learning of PS - I helps them in completing PS - II successfully.

Practice School - II
(PS - II)

These practice schools are extremely beneficial in giving the students an understanding and in fact an opportunity to apply their theoretical technical knowledge on real industry applications. This is also helpful in creating an industry - academia interface and will surely fill the existing gap between academics and industries.
JKLU recruits faculty as per UGC recommendations (revised 6th pay commission). The profile is as below:

Prof. Dr.- Ing. Anupam K. Singh
Professor & Director
M S (KIT, Germany); Ph.D. (KIT, Germany)
director.let@jklu.edu.in
Research Areas:
Urban Water System, Engineering Hydrology,
Surface water and ground water interaction
systems and Runoff modelling,
Reservoir and canal operations.

Dr. Sandeep Kumar Tomar
Associate Professor (Chemistry)
Ph.D., M.Sc.
sandeep.tomar@jklu.edu.in
Research Areas:
Chemistry, Polymer electrolyte, ion conducting
composite electrolyte, Solar cells, Dye
sensitized solar cells (DSSC)
and Nanotechnology

Dr. Vipin Jain
Associate Professor (Physics)
Ph.D., M.Phil., M.Sc.
vipin.jain@jklu.edu.in
Research Areas: Opto - electronic properties of
thin films,
Transparent Conducting Oxides
(TCO) thin films,
Nan Science and Nanotechnology

Dr. Sanjay Kumar
Associate Professor (English)
Ph.D., M.Phil.
sanjay.kumar@jklu.edu.in
Research Areas: Post Colonial, Feminist,
 Diasporic Fiction in English, Film Studies
Professional Communication Skills

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Energy Accounting & Auditing,
Renewable Energy
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Integral Transforms,  
Fractional Calculus  
and Statistical Distribution Theory

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Research Areas:  
Fiber Optic: Temperature Measurement

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Research Areas: Queueing theory,  
Probability theory,  
Stochastic modeling and  
Optimization

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Optimization

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Research Areas: Energy Engineering  
(Renewable Energy)  
Internal Combustion Engines.
Dr. Neha Sharma  
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Research Areas: Production Technology, Material science

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Research Areas: Computational fluid dynamics (CFD) and Renewable Energy

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Research Areas: Energy Conversion Technique, Renewable Energy System, Process Control

Aditya Sharma  
Lecturer (Civil Engineering)  
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Research Areas: Transportation engineering and Traffic engineering.

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Research Areas: Switching schemes of power electronic devices

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Research Areas: High Performance Computing (Cloud Grid, Distributed and Parallel Computing)
The Department of Civil Engineering is driven by its goal to prepare all students with a technical background anchored in the fundamental of civil engineering together with breadth of related knowledge needed to follow diverse career path in civil engineering and also:

- To provide a firm education in Mathematics, Science and Engineering which underline all technological development so that our students will be well equipped to adapt to changing technology.
- To establish elaborated laboratories conforming to the codes and the best for research level also.
- To provide the broad and fundamental technical base needed by students who plan for advance study in specialized area with the help of proper training and the guest lectures by the field specialist.

The department has been offering the B. Tech Programme since the year 2011. The Department actively promotes curriculum development activity by updating existing courses, developing new courses and preparing resource material for teaching. The Department has a number of ongoing research projects and sponsored research schemes from public and private sector organizations. It undertakes industrial consultancy works as a part of its interaction with industry and also organizes seminars/symposia for professional interaction. The Department contributes to the interdisciplinary academic and research activity of the Institute.

## Course Curriculum

### Semester I
- English Communication Skills
- Engineering Mathematics - I
- Engineering Physics - I
- Computer Programming & IT
- Engineering Mechanics
- Engineering Chemistry - I
- Engineering Physics - I Lab
- Engineering Chemistry - I Lab
- Computer Programming & IT Lab
- Practical Geometry
- Workshop Practice

### Semester II
- Professional Communication Skills
- Engineering Mathematics - II
- Engineering Physics - II
- Environmental Studies
- Electrical & Electronics Engineering
- Engineering Chemistry - II
- Engineering Physics - II Lab
- Engineering Chemistry - II Lab
- Electrical & Electronics Engineering Lab
- Machine Drawing
- Language Lab

### Semester III
- Strength of Materials & Mechanics of Structures - I
- Fluid Mechanics
- Building Material & Construction
- Engineering Geology
- Engineering Mathematics - III
- Principles of Management

### Semester IV
- Strength of Materials & Mechanics of Structures - II
- Concrete & Construction Technology
- Surveying - I
- Elective - I
- Statistical Techniques
- Principles of Economics
Semester V
- Theory of Structure
- Concrete Structures - I
- Steel Structures - I
- Surveying - I
- Environmental Engineering
- Geotechnical Engineering
- Numerical Analysis
- Practice School - I

Semester VI
- Concrete Structures - II
- Steel Structures - II
- Water Resource & Irrigation Engineering
- Transportation Engineering
- Estimating and Costing
- Construction Project Management
- Optimization Techniques

Semester VII
- Elective - II
- Elective - III
- Elective - IV
- Elective - V
- Elective - VI
- Seminar

Semester VIII
- Practice School - II

Elective Courses

Elective - I
1. Hydraulics & Hydraulic Machines
2. Rock Mechanics
3. Building Technology

Electives - II/III/IV/V/VI
1. Geographical Information System
2. Solid Waste Management
3. Repair & Rehabilitation of Structures
4. Finite Element Analysis
5. Disaster Management
6. Design of Pre-stressed Concrete Structures
7. Advanced Transportation Engineering
8. Earthquake Engineering
9. Design of Bridge Structures
10. Water Power Engineering
11. Rural Water Supply & Sanitation
12. Earthquake Resistant Design & Techniques
Student Activities & Achievements

1. Karnov Bishnoi, student of B.Tech Civil Engineering, final year student won Gold medal in the 10 metre Air Pistol team event at the International Shooting Grand Prix, Kuwait.


3. Abstract and project concept of Arsalan obaidi (B.Tech CE final year), Gourav Suthar (B.Tech CE 3rd year), and Naseem Khan (B.Tech CE final year) were selected at International council of research and innovation in building construction at Abu-Dhabi University (CIB-MENA 2014).


Department Activities


3. An expert talk on the topic “Application of Remote Sensing and GIS in Civil Engineering” of Er. Kamal Kant Mishra (State Nodal Officer (GIS & IT) & Executive Engineer, Public Works Department, Govt. of Rajasthan) on the topic “Application of Remote Sensing and GIS in Civil Engineering” on 7th March 2014.

4. A guest lecture of Dr. Chandan Ghosh, (Professor and Head (Geo-Hazard), National Institute of Disaster Management (NIDM), New Delhi Ministry of Home Affairs, Govt. of India) on the topic “Disaster planning, Assessment and Management with special reference to recent Kedarnath Disaster 2013” on 10th April 2014.

5. A seminar on “Energy and Built - environment conducted by Prof. Dr. David Mark Leifer; formerly Director at University of Sydney, Australia, Prof. Dr. Anil Kashyap; RICS School of Built Environment, Amity University Noida, Prof. Dr. Ing. Anupam K Singh; IET - JK Lakshmipat University Jaipur and Prof. Keith McKinnell; University of Melbourne, Australia on 5th April 2014.

Industrial Visits

1. Building Technology Park Mansarover Jaipur
2. Sewage Treatment Plant (STP) Delwas Jaipur
3. JK Lakshmi Cement, Sirohi

Lab Facilities

Surveying Lab

Surveying is a basic requirement for all Civil Engineering projects. The planning and design of projects such as construction of highways, bridges, tunnels, dams, etc. are based upon surveying measurements. Moreover, during execution, a project of any magnitude is constructed along the lines and points established by surveying. The Surveying Lab has been designed to give our students the necessary skills in this important domain. It is equipped with Metallic Chain, Ranging Rod, Dumpy level, Auto level, Total Station, Plane Table its accessories, Electronic Theodolite, Prismatic Compass and Surveyor Compass. It will shortly equip with Global position system and e-Surveying.

Concrete Lab

The Concrete Technology Laboratory in the department of Civil Engineering at JKLU is one of the best concrete technology laboratories currently existing. The laboratory serves a wide spectrum of activities covering those related to teaching, research, development and consultancy. The primary activities include experimental studies on different types of materials, which are used in concrete and testing of concrete specimens in various exposure conditions. The Concrete technology Laboratory is equipped with Compression Testing Machine, Oven, Wicket Apparatus, Cement mortar vibrating machine, Cement mortar mixing machine, Test Sieves, Concrete workability apparatus, Compaction factor apparatus, Slump cone, Ultrasonic Concrete Tester, Rebound hammer, Concrete mixer, Different Mould cast, other facilities of physical and chemical testing of cement concrete and aggregates, Flow table, Permeability apparatus, Flexure Testing machine, Abrasion resistance machine and Buoyancy balance.

Transportation Engineering Lab

We believe in the fact that only bookish knowledge is not enough for the overall understanding of our students. So our pedagogy includes every measures that impacts practical knowledge and carries out all the tests required for complete understanding of the subject. The laboratory of transportation engineering in civil department is well equipped with all the required instruments and equipment that are helpful in the overall understanding and practical knowledge of a student. The lab has facilities such as CBR, Los angles abrasion instrument, Aggregate Impact test; Buoyancy balance, Specific Gravity, Water Absorption test and Bulk density test for Aggregate; Flakiness Index and Elongation Index Test, etc.
Engineering Geology Lab

Engineering geology is the application of the geologic sciences to engineering practice for the purpose of assuring that the geologic factors affecting the location, design, construction, operation and maintenance of engineering works are recognized and adequately provided for. Engineering geologists investigate and provide geologic and geotechnical recommendations, analysis, and design associated with human development. The realm of the engineering geologist is essentially in the area of earth - structure interactions, or investigation of how the earth or earth processes impact human made structures and human activities. The laboratory of Engineering Geology in Civil Department is well equipped with all the required sample minerals, ores, metals, non-metals and maps, etc. that are helpful in the overall understanding and practical knowledge of subject to the students.

Fluid Mechanics Lab

Fluid Mechanics is an important sub-discipline of engineering. This lab has the basic fluid mechanics and hydraulics machine set - up to help students understand these fundamental concepts. Fluid mechanics and Hydraulic machines laboratories have all comprehensive experimental set - ups catering to the requirements of course curriculum. The lab is outfitted with different flow measuring set - ups such as venturimeter, orifice-meter, Pitot tube, etc. The laboratory is equipped with Meta-Centric Height Apparatus, Bernoulli’s Apparatus, Venturimeter & Orifice Meter Apparatus, Notch Apparatus, Reynolds Apparatus, Rotameter Apparatus, Laminar & Turbulent Flow Apparatus, Friction Losses Apparatus, Impact of jet Apparatus, Pelton wheel Turbine Test Rig, Centrifugal Pump Test Rig and Reciprocating Pump Test Rig.

Computing Lab

The Department offers state-of-the-art computing facilities to the graduate students, research scholars and faculty members. In addition every faculty member is given one personal laptop and most of the laboratories have their own computing facilities to meet their specialized requirements. A high-speed Local Area Network connection through the Institute’s central facilities, ensures that all students and faculty have the most modern computing facilities, including round-the-clock internet and e-mail connection, to meet their academic and research needs. The major software packages available are 3D CAD Design and Modeling (MicroStation PowerDraft V8i and MicroStation V8i), Transportation (Bentley MX Road Suite V8i and Bentley PowerCivil for Country), Building Information Modeling (AECOsim, Building Designer V8i, AECOsim Energy Simulator V8i, Bentley Navigator and Bentley Connections Passport), Offshore (Bentley Maxsurf Enterprise, SACS Marine Enterprise, SACS Offshore Structure), Structural (STAAD.Pro V8i, STAAD Foundation Advanced, STAAD Global Design Code, Bentley PowerRebar and RAM Concept V8i), Water and Waste water (SewerGEMS V8i, WaterGEMS V8i, StormCAD V8i, CivilStorm V8i and HAMMER V8i), 3D Imaging, Point Clouds and Mapping (Bentley Descartes V8i, Bentley MAP Enterprise and Bentley Pointools V8i).

Geotechnical Engineering Lab

An understanding of soil is critical for the success of most engineering projects. Geotechnical Engineering laboratory is well equipped with all equipment required for identification and classification of soils. Some of those are Liquid limit device, Cone penetrometer, Shrinkage limit test, Pycnometer, Plastic Limit set, Direct shear apparatus, Core cutter, Compaction test apparatus both heavy and light compaction, Standard penetration set, Hydraulic jack, Sieve shaker (motorized) and Hot air oven.
The Computer Science Department is novel in its approach for imparting professional training to its students with a clear-cut focus. The curriculum is practical oriented, guided by technology, performance driven and interactivity. It focuses on the fundamentals of theory, followed by practical, projects and industrial training. There is widespread interaction between the Computer Science & Engineering Department and corporate world in the field of teaching and research. The Department regularly upgrades its academic curriculum components to suit industry needs, which assists students in getting appropriate placements for their bright future.

The department has initiated the process to become channel partners of some of the big software giants like IBM and Microsoft, to name a few. Computer Science & Engineering and Information Technology Department is equipped with state-of-the-art laboratories with licensed software.

The department has been offering B.Tech and M.Tech Programme since the year 2011. The department of Computer Science Engineering has emerged as a Centre of Excellence. It has landscaped its academic programmes extensively with aim to train engineers at UG and PG levels, equip them with the fundamental concepts and techniques of computing and applications, relevant to emerging technological advancements. Department fosters a learning environment that produces high quality computer professionals readily employable by the industry and research organizations.

### Course Curriculum

#### Semester I
- English Communication Skills
- Engineering Mathematics - I
- Engineering Physics - I
- Computer Programming & IT
- Engineering Mechanics
- Engineering Chemistry - I
- Engineering Physics-I Lab
- Engineering Chemistry - I Lab
- Computer Programming & IT Lab
- Practical Geometry
- Workshop Practice

#### Semester II
- Professional Communication Skills
- Engineering Mathematics - II
- Engineering Physics - II
- Environmental Studies
- Electrical & Electronics Engineering
- Engineering Chemistry - II
- Engineering Physics-II Lab
- Engineering Chemistry - II Lab
- Electrical & Electronics Engineering Lab
- Machine Drawing
- Language Lab

#### Semester III
- Data Structure Using C
- Object Oriented Techniques
- Electronic Devices & Circuits
  - Network Analysis & Synthesis
  - Engineering Mathematics - III
  - Principles of Management

#### Semester IV
- Digital Electronics
- Computer Organization
- Discrete Structure
- Elective - I
- Statistical Techniques
- Principles of Economics
Semester V
- Operating System
- Relational Database Management Systems
- Computer Networks
- Theory of Computation
- Elective - II
- Numerical Analysis
- Practice School - II

Semester VI
- Web Technologies using JAVA
- Design & Analysis of Algorithms
- Compiler Design
- Software Engineering
- Elective - III
- Optimization Techniques

Semester VII
- Elective - IV
- Elective - V
- Elective - VI
- Elective - VII
- Elective - VIII
- Seminar

Semester VIII
- Practice School - II

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Elective Courses

Elective - I
1. Information Technology & Project Management
2. Computer Graphics

Elective - II
1. Object Oriented Analysis and Design
2. Management Information System

Elective - III
1. Microprocessor & Interfacing
2. Network Security

Electives - IV/V/VI/VII/VIII
1. Robotics
2. Artificial Neural Network
3. Cryptography
4. Network Management
5. Wireless Networks
6. Artificial Intelligence
7. Data Mining & Data Warehousing
8. Digital Image Processing
9. Modeling & Simulation
10. Distributed Operating Systems
11. Cyber Laws and Intellectual Property Rights
12. Mobile Computing
13. Parallel Processing
14. Soft Computing
15. Computer Project
Student Achievements

1. Apoorva Kedia bagged Runner Up position in the LNMIIT sports meet in Girls category Table Tennis Team Event 2014.
2. Kshitiz Kedia won the India Intelligence Contest 2012.

Department Activities

Department of Computer Science Engineering has been regularly conducting workshops, seminars and expert lectures on the varied topics like Design Thinking, Ethical Hacking, Linux Administration, Search Engine Optimization, Embedded systems, Network Security, ERP Experiences at JK Paper, Current Trends in Web Technologies, Big data and Analytics, Mobile App Development, Game Development, Robotics to name a few. Students attended TechVista 2014, Microsoft Research India’s annual research symposium held at Jaipur.

Research and Development

With an emphasis on research, department of Computer Science Engineering has offered Ph.D. and M.Tech programmes from its founding year. Faculty, Doctoral students and Post graduate Students are pursuing research in areas of Brokerage in Federated Cloud Structures, Optimization in Routing in Ad-hoc Sensor Networks, Software Cost Estimation, Usages of Evolutionary Computation Techniques, and Technology for Education etc. Undergraduate students are encouraged to be part of these research works in form of subjects like Seminar.

Lab Facilities

Department of Computer Science ensures cutting edge laboratories with latest hardware and software bundle in each lab, where students gain the experience needed to help meet the growing demand of professionals. The lab also has adequate projection facilities for presentations so that both the instructor can deliver the lecture content and the students can present their projects effectively.

Programming Language Lab

This lab is utilized by students to attain a grip on the development of programs using computer languages like C, C++, C#, Java, Python and Prolog. IDE’s installed in the lab includes Eclipse, Turboc3, Visual Studio and Borland C++ including compilers for the required languages.

Professional Communication Lab

Special focus has been given in improvement in Communication skills of students by the Department. Oréll Digital Language lab Suite is being installed on the systems. Students have the flexibility of downloading of the recorded lesson from the teacher’s console. The student can listen to the native speaker’s lessons and pronunciation, see video clippings and read the text. The student has the provision to type the text material on the screen. The student can repeat the lesson assigned by the linguist, record, and replay. Continuous repetition of the correct pronunciation gives fluency. This paves way to excellent communication. The student can be part of a group discussion.
Linux Lab

This lab facilitates familiarity of students with the Linux operating system. It is designed to take them well beyond being a casual, personal user of Linux. Students deal with fundamentals and explore the various tools and techniques commonly used by Linux users, programmers, and system administrators to do their day-to-day work.

Networking Lab/CISCO Network Academy

The Networking lab includes kits and modules designed to help students build 21st century skills such as collaboration and problem solving while encouraging practical application of knowledge through hands-on activities and network simulations. Kits include Benchmark Netsyst and 1 - Secureit and CISCO Academy Bundle. Cisco Network Academy facilitates networking skills foundation. Through Networking Academy Courses can earn Cisco career certifications and help fill gap in the networking jobs around the world. The online assessments provide personalized feedback to support the learning process.

Web Technologies Lab:

Innovations such as websites, social networking, cloud computing, e-commerce, web conferencing are changing the way we work, collaborate and play. These capabilities are all powered by the web as a backbone. Infrastructure of this lab is utilized by students to gain a hands-on grip on web technologies. The machines are equipped with relevant software tools like Eclipse, Visual Studio 2010, 2012, 2013, PHP, Web server, XAMPP, WAMP, LAMP, and Net Beans to name a few.

Database Technologies Lab

This laboratory supports experimental work for the courses related to Database Systems. The machines are equipped with tools for designing databases like the Oracle development suite, MS SQL Server 2010, 2012, MySQL Server, Postgres as well as software for creating design diagrams like Microsoft Visio. Students work individually as well as in teams, utilizing the skills and knowledge they have acquired during their studies to design and implement functioning databases.
Historically, the field of electrical engineering is one of the most important engineering disciplines that have changed the course of the world. Some of our important areas of teaching are Electrical Machines, Industrial Electronics, Circuits and Systems, Engineering Materials, Linear and Non-linear Control Systems, Power System, Machines Drives, FACTs and High Voltage Engineering. The department of electrical engineering has been playing a vital role in producing technologists of highest caliber ever since it was established. The department has distinguished faculty, all holding Master/Ph.D. degrees from renowned institutes in India. The faculty of the department has been constantly carrying out research on many cutting edge technologies, providing students with the right guidance and inspiration to achieve excellence in their chosen discipline.

The Department has been offering B. Tech Programme since the year 2011. The infrastructure and lab facilities are upgraded from time to time and provide adequate opportunities for students and researchers to learn, innovate and create the perfect foundation for a successful professional career.

### Course Curriculum

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
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<tbody>
<tr>
<td>English Communication Skills</td>
<td>Professional Communication Skills</td>
</tr>
<tr>
<td>Engineering Mathematics - I</td>
<td>Engineering Mathematics - II</td>
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<tr>
<td>Engineering Physics - I</td>
<td>Engineering Physics - III</td>
</tr>
<tr>
<td>Computer Programming &amp; IT</td>
<td>Environmental Studies</td>
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<tr>
<td>Engineering Mechanics</td>
<td>Electrical &amp; Electronics Engineering</td>
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<tr>
<td>Engineering Chemistry - I</td>
<td>Engineering Chemistry - II</td>
</tr>
<tr>
<td>Engineering Physics - I Lab</td>
<td>Engineering Physics - III Lab</td>
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<tr>
<td>Engineering Chemistry - I Lab</td>
<td>Engineering Chemistry - II Lab</td>
</tr>
<tr>
<td>Computer Programming &amp; IT Lab</td>
<td>Electrical &amp; Electronics Engineering Lab</td>
</tr>
<tr>
<td>Practical Geometry</td>
<td>Machine Drawing</td>
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<tr>
<td>Workshop Practice</td>
<td>Language Lab</td>
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<tr>
<th>Semester III</th>
<th>Semester IV</th>
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<tr>
<td>Network Analysis &amp; Synthesis</td>
<td>Electrical Machines - II</td>
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<tr>
<td>Electrical Machines - II</td>
<td>Transmission &amp; Distribution of Electrical Power</td>
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<tr>
<td>Electronic Devices &amp; Circuits</td>
<td>Elective - I</td>
</tr>
<tr>
<td>Electronic Measurements &amp; Instrumentation</td>
<td>Digital Electronics</td>
</tr>
<tr>
<td>Engineering Mathematics - III</td>
<td>Statistical Techniques</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>Principles of Economics</td>
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<tr>
<th>Semester V</th>
<th>Semester VI</th>
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<tbody>
<tr>
<td>Linear Control System</td>
<td>Generation of Electrical Power</td>
</tr>
<tr>
<td>Power System Switchgear &amp; Protection</td>
<td>Power System Analysis</td>
</tr>
<tr>
<td>MATLAB Programming</td>
<td>Industrial Electronics</td>
</tr>
<tr>
<td>Linear Integrated Circuit</td>
<td>Restructured Power System</td>
</tr>
<tr>
<td>Engineering Signal &amp; Systems</td>
<td>Elective - III</td>
</tr>
<tr>
<td>Elective - II</td>
<td>Optimization Techniques</td>
</tr>
<tr>
<td>Numerical Analysis</td>
<td>Practice School - I</td>
</tr>
</tbody>
</table>
Semester VII

• Elective - IV
• Elective - V
• Elective - VI
• Elective - VII
• Elective - VIII
• Seminar

Semester VIII

• Practice School - II

Elective Courses

Elective - I
1. Electromagnetic Field & Theory
2. Electronic Materials & Processes

Elective - II
1. Electrical Material
2. Advanced Distribution System
3. Data Structure Using C

Elective - III
1. Microprocessors Interfacing
2. Digital Communication
3. Digital Signal Processing

Electives - IV/V/VI/VII/VIII
1. Power Quality & Utilization of Electrical power
2. Electrical Installation, Commissioning & Maintenance
3. EHV AC & DC Transmission
4. High Power Semiconductor Devices
5. Flexible AC Transmission System
6. Advanced PID Control
7. Communication Systems & Network
8. Electrical Machine Design
9. High Voltage Engineering
10. Digital Image Processing
11. Artificial Neural Network
12. Robotics
13. IC Technology
14. Verilog Hardware Description Language
15. Biomedical Engineering
16. Mechatronics
17. Energy Management & Efficiency
18. Total Quality Management
19. Renewable Energy Resources
Student Activities

The students are encouraged to plan and organize various co-curricular activities at Institute and University level. The Institute of Engineering & Technology is shortly opening Solar Energy Society of India JKLU Student chapter.

Student Achievements

Students have presented the following research paper in various conferences.


Department Activities


Industrial Visits

Industrial Visits is to modified as under
1. RT5 Power Corporation Limited, Jaipur.
2. 220 KV Grid Substation, Kukas and Area Store Kunda ki Dhani Kukas, Jaipur.
3. Anil Steel Industries at Kankpura, Jaipur.
4. 220 KV Grid Substation, Mahindra SEZ - I, Jaipur.

Research & Development

Electrical Engineering Department is shortly setting up a new lab on Renewable Energy System.

Lab Facilities

Electrical and Electronics Engineering Laboratory

This is the basic lab for all the branches of B.Tech. Here students interact with various theorems, machines and network. They get the basic skill to operate & control the electrical machines. This lab is fully equipped with equipment like motors, generator (both A.C and D.C), transformers, all measuring instruments (voltmeters, ammeters, watt-meters, and energy meters), rheostats, capacitors, and inductors, to conduct the experiments.
Network Analysis & Synthesis Laboratory

This laboratory is equipped with MATLAB software. In this lab students simulate circuit problem on MATLAB. Some of problems addressed are: interconnection of two - part network, resonance network theorems, RL/RC circuit, T and Pi network and home electrical wiring training system.

Electrical Machine - (I & II) Laboratory

The electrical machine laboratory is intended specifically to meet the needs of modern courses in electrical machines. There are equipment's like single - phase, step - up, step - down and isolation transformers, dc shunt, series motor, three phase induction motor, induction motor, dc generators, and various machines for performing various tests related with the specific machine. This lab gives us the precise opportunity to get a hands - on experience with machines and help us develop clarity and clear perception.

Linear Control System Laboratory

The course introduces students to the fundamental control systems theory with an emphasis on design and implementation. The lab focuses on technical implementation issues of classical control theory in the frequency domain and modern control theory in the state - space. Here students learn the various control methods, which are being used in the industries now-a-days.

Modeling & Simulation Laboratory

In this Lab, students get to work on much efficient software like MATLAB and Virtual Labs. Virtual Labs provides a complete Learning Management System where the students can avail the various tools for learning, including additional web - resources, video - lectures, animated demonstrations and self - evaluation.

Power System Analysis Laboratory

In this Lab, Simpower System is used for modeling and analysis of Electrical Machine, FACTS Devices and Load flow Methods.

Power System Switchgear & Protection Laboratory

Protective relaying is a vital part of any electric power system: unnecessary during normal operation but very important during emergencies, faults, and abnormal disturbances. Power system Laboratory comprises protection, simulation, high voltage and machine related experiments. Facilities are available for over - current, under - voltage, directional, differential and distance relays including different numerical relays.

Industrial Electronics Laboratory

This lab includes learning of Power semiconductor devices like IGBTs, Power MOSFETs, triggering circuits, and other devices for making and testing analog and digital circuits, Thyristor converters, DC chopper modules, Pulse transformers and other related commutating components.

Testing And Commissioning of Electrical Machines Laboratory

This lab emphasizes on the knowledge of working, measuring controlling and testing of various AC / DC machines.
Department of Electronics & Communication Engineering

This programme is aimed at producing high quality engineers in the field of Electronics and Communication Engineering (ECE), well equipped to take up the challenges in this highly upbeat branch. Students will be developing their foundation skills in basic sciences and engineering courses before moving on to take up the core courses in Electronics and Communication Engineering. They will also be taking up a number of concurrent professional development courses in various areas, such as Languages, Humanities, Social Sciences and Management, enabling them to excel in their branch of specialization.

Some of the important compulsory courses include Analog & Digital Electronics, Signals & Systems, Analog & Digital Communications, Digital Signal Processing, Electromagnetic Engineering, Telecommunication Networks and VLSI Design. Comprehensive design oriented laboratory practice in the core courses will augment the understanding of the intricacies of every course. The Department has been offering B.Tech and M.Tech Programme since the year 2011.

Course Curriculum

**Semester I**
- English Communication Skills
- Engineering Mathematics - I
- Engineering Physics - I
- Computer Programming & IT
- Engineering Mechanics
- Engineering Chemistry - I
- Engineering Physics - I Lab
- Engineering Chemistry - I Lab
- Computer Programming & IT Lab
- Practical Geometry
- Workshop Practice

**Semester II**
- Professional Communication Skills
- Engineering Mathematics - II
- Engineering Physics - II
- Environmental Studies
- Electrical & Electronics Engineering
- Engineering Chemistry - II
- Engineering Physics - II Lab
- Engineering Chemistry - II Lab
- Electrical & Electronics Engineering Lab
- Machine Drawing
- Language Lab

**Semester III**
- Electronic Devices & Circuits
  - Electronic Measurements & Instrumentation
  - Network Analysis & Synthesis
    - Object Oriented Techniques
    - Engineering Mathematics - III
    - Principles of Management

**Semester IV**
- Analog Electronics
- Digital Electronics
- Elective - I
- Electromagnetic Field Theory
- Statistical Techniques
- Principles of Economics
Semester V
- Linear Integrated Circuits
- Analog Communications
- Engineering Materials & Components
- Microwave Engineering - I
- Linear Control Systems
- Elective - II
- Numerical Analysis
- Practice School - I

Semester VI
- Microwave Engineering - II
- Digital Communications
- Digital Signal Processing
- Industrial Electronics
- Elective - III
- Optimization Techniques

Semester VII
- Antenna & Wave Propagation
- Elective - IV
- Elective - V
- Elective - VI
- Elective - VII
- Seminar

Semester VIII
- Practice School - III

Elective Courses

**Elective - I**
1. Signals & Systems
2. Electronics Materials & Processes

**Elective - II**
1. Information Theory & Coding
2. Artificial Intelligence

**Elective - III**
1. Computer Communication Networks
2. Microprocessors & Interfacing
3. Embedded Systems

**Electives - IV/V/VI/VII/VIII**
1. Wireless Communication
2. Biomedical Engineering
3. Optical Fiber Communication
4. Telecommunication Engineering
5. IC Technology
6. Verilog Hardware Description Language
7. RADAR & Satellite Communication
8. VLSI Design
9. Robotics
10. Artificial Neural Network
11. Digital Image Processing
Student’s Achievements
Nitin Jain, student of B.Tech ECE presented research paper titled "Monitoring a water efficient Irrigation system through SCADA" in conference "ADMET - 2014" held at Thapar University, Patiala from 19-21 February, 2014.

Department Activities

Industrial Visit
1. Industrial visit to OMEGA Electronics, Jaipur
2. Ericsson India Pvt. Limited, Jaipur

Lab Facilities
Department of Electronics & Communication Engineering ensures cutting edge laboratories with latest hardware and software bundle in each lab, where students gain the experience needed to help meet the growing demand of professionals.
The lab also has adequate projection facilities for presentations so that both the instructor can deliver the lecture content and the students can present their projects effectively.

Electronic Devices and Circuits Laboratory
This is the main lab where the basic experiments like device characteristics and basic analog circuits are done. The lab consist of oscilloscopes, function generators and power supplies. Here the students carry out different experiments which include the study of the characteristics of devices such as diodes, BJT, FET, Basic amplifiers, Oscillators and Waveform generators using electronic devices.

Digital Electronics Lab
This laboratory provides Hands-on experience in designing and implementation of digital logic circuits and systems. The laboratory experiments involve the design and testing of digital systems using small and medium scale integrated circuits. Each standard setup in the lab has basic trainer kits and IC testers.

Analog Electronics Laboratory
This lab is in continuation of electronic device and circuits (EDC) lab. Here, students perform the practical on the different kind of amplifiers, oscillators, and frequency filters. There all are made using the properties of the components studied in EDC which are different transistors, diodes, inductors etc. Students also learn about uses of these devices according to requirements in real life situations.
Analog Communication Lab

The objective of this lab is to understand the basic communication techniques and perform them on kits/ Breadboard to consolidate basic knowledge in Analog Communication. This will cover the AM, FM, PM, Noise and various forms of these modulation methods.

Digital Communication Lab

The objective of this lab is to understand the advanced digital communication techniques and perform them on kits/ Breadboard to consolidate basic knowledge in Digital Communication. This will cover the ASK, PSK, FSK, Probability of error, Noise, CDMA, FDMA and various other methods.

Linear Integrated Circuits Laboratory

The objective of this laboratory to learn the basic concepts in the design of electronic circuits using linear integrated circuits and their applications in the processing of analog signals. The standard setup in the lab contains basic and advanced trainer kits, oscilloscopes and function generators. In addition to these experiments, different applications of timers, DAC and ADC are performed.

Digital Signal Processing Lab

The purpose is to introduce the various digital signal processing techniques using MATLAB environment. The lab has more than 30 numbers of computers along with latest version of MATLAB which is a user friendly tool for the students. The knowledge of MATLAB software enables the students to design a digital filter of required specifications.

In addition to above labs, Department of ECE also have Microwave Engineering Lab and Antenna and Wave Propagation Lab.
Department of Chemical Engineering

The Chemical Engineering Department is one of the premier engineering departments of IET. The instruction at the undergraduate level aims at providing the students a broad-based education with emphasis on theory and practice of Chemical Engineering, keeping in views the current and future requirements of the country. The students are taught the basic fundamentals of chemical engineering used in the industries and research organizations. The students also gain specialist knowledge and expertise as a Chemical engineer to produce finished products through processes, involving various physical or chemical changes in organic and inorganic materials and in renewable sources, like agricultural and biological materials or non-renewable materials, such as ores, coal and petroleum. The department has been offering B.Tech Programme since the year 2012.

Lab Facilities

The department is well equipped with state-of-art laboratories relating to Heat Transfer, Fluid Mechanics, Mass Transfer, and Chemical Reaction Engineering.

Department of Mechanical Engineering

The Department of Mechanical Engineering has been established with the vision to train students who can pioneer techniques in the production of useful materials. The curricula of our undergraduate program has been designed to fill the existing gap between the industry and academia, so that we produce thorough professionals ready to face the challenges of the real world, including an understanding of the socio-economic, environmental, regulatory and ethical issues relevant to the engineering profession. To achieve this goal, the department is absorbing the best talent globally by hiring faculty members who have wide-ranging experience of academics and research as well as industry. In addition, we are focusing on collaborations with various industries to design relevant curricula and to provide students with an exposure to the real world. The department has laboratory and workshop facilities with modern sophisticated equipment to carry out research in all areas related to Mechanical Engineering. The department is offering B.Tech Programme since the year 2012.

Lab Facilities

The department has Strength of Material Laboratory, Dynamics of Machines Laboratory, Mechanical Vibration and Noise Control Laboratory, CAD Laboratory, IC Engine and Gas Turbine Laboratory, Heat Transfer Laboratory, Refrigeration and Air Conditioning Laboratory, Fluid Mechanics and Fluid Machinery Laboratory, Renewable Energy Laboratory, Steam Power Engineering Laboratory, Computational Fluid Dynamics (CFD) Laboratory, Machine Tool Laboratory, Metrology Laboratory, Foundry and Forming Engineering Laboratory and Welding Laboratory.
Besides undergraduate programmes, the Institute also offers Integrated Dual Degree Programme, M.Tech (Post Graduate Programme) and Ph.D. in Engineering.

**Integrated Dual Degree Programmes**

**B.Tech + MBA (5 years) Integrated Dual Degree Programme**

The programme covers topics from engineering and technology along with management related topics. Students, apart from their core area of engineering, will be getting knowledge of Marketing, General Management, Research Methodology, Finance, Human Resources, Production, International Business, Operations and Information Technology.

The programme covers basic and advance level courses of Engineering and Technology in the area of Computer Science Engineering and Electronics & Communication Engineering.

**B.Tech + M.Tech (5 Years) Integrated Dual Degree Programme**

**PG Programmes**

**M.Tech - Computer Science Engineering**


The programme covers a number of areas at advanced level, such as Mobile, Wireless, Satellite and Optical Communication and Computer Communication Systems & Networks, Signal Spread Spectrum Communication, Error Control Coding Techniques, Microelectronics, VLSI Design, and Information & Communication Theory through suitable core and elective courses and extensive project and dissertation work.

**M.Tech - Electronic & Communication**

**Doctoral Programmes**

The Ph.D programme is available in various specializations, such as Electronics & Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Civil Engineering, Mechanical Engineering, Chemical Engineering, Physics, Chemistry, English and Mathematics. The scholars are required to take up intensive research work under the guidance of a supervisor on a specific problem for a minimum of two years in this programme.

The research work is expected to result in new findings, contributing to knowledge in the chosen field. The doctoral research programme gives an opportunity to students to demonstrate their analytical, innovative and independent thinking, leading to the enhancement of creativity and application of knowledge. The scholars are required to deliver seminars on their research progress regularly and publish their work in refereed journals. Finally, they are required to submit the thesis embodying their research findings for the award of the Ph.D degree. They are also required to take some advanced level course work.
### Student Profiles

#### Civil Engineering

**Akash Kumar**  
**Industrial Training:** GVK, Srinagar  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Structural Engineering

**Akshay Gupta**  
**Industrial Training:** L&T BPP Toll way Ltd.  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Structural Engineering

**Anand Singh**  
**Industrial Training:** Kashyap Infrastructure Pvt. Ltd., Ghaziabad  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Environmental Engineering

**Aniruddh Choudhary**  
**Industrial Training:** L&T BPP Toll way Ltd.  
**Academic Achievements:**  
- Selected in UES 24 – Indian Army (Technical)  
- Merit Scholarship in 2nd & 3rd year in JK Lakshmipat University, Jodhpur  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Environmental Engineering

**Ansalan Obaidi**  
**Industrial Training:**  
1. ICF-GHK International  
2. UCIL And NHAI  
**Academic Achievements:** Working on Research paper related to waste water treatment plant for CIB MENA 2014, Abu Dhabi University  
**Areas of Interest:** Environmental Engineering

**Dev Narain Tewari**  
**Industrial Training:** KIPL, Ghaziabad  
**Areas of Interest:** Construction Engineering, Transportation Engineering

**Jagjeet Singh**  
**Industrial Training:** KIPL, Ghaziabad  
**Areas of Interest:** Construction Engineering, Transportation Engineering

**Karnav Bishnoi**  
**Industrial Training:** Simplex Infrastructure Limited, Bikaner  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Structural Engineering

**Manpreet Singh**  
**Industrial Training:** MAGO Construction Pvt. Ltd.  
**Areas of Interest:** Construction Engineering, Transportation Engineering, Structural Engineering
Mohammad Naseem Khan
Industrial Training:
1. ICF - GHK, Bhopal
2. NHA, Deesa
Academic Achievements:
Project Concept selected in “CIB - MENA 2014" organized by Abu-Dhabi University for Smart, Sustainable and Healthy Cities.
Areas of Interest:
Construction Engineering, Transportation Engineering
Environmental Engineering

Nikhil Sharma
Industrial Training:
KIPL, Ghaziabad
Areas of Interest:
Construction Engineering
Transportation Engineering

Prashant Pandey
Industrial Training:
Alaknanda Hydro Power Company Ltd.
GVK, Srinagar (Uttarakhand)
Areas of Interest:
Construction Engineering
Transportation Engineering
Environmental Engineering

Pushpraj Dubey
Industrial Training:
Alaknanda Hydro Power Company Ltd.
GVK, Srinagar (Uttarakhand)
Areas of Interest:
Construction Engineering
Transportation Engineering
Environmental Engineering

Rajat Srivastava
Industrial Training:
1. Mago Construction Pvt. Ltd., Agra
2. Public Works Department, Lucknow
Areas of Interest:
Construction Engineering
Transportation Engineering
Structural Engineering

Rishabh Gupta
Industrial Training:
Vijaytech Consultants Pvt. Ltd., Jaipur
Areas of Interest:
Construction Engineering
Transportation Engineering

Roshan Chaudhary
Industrial Training:
JK Lakshmi Cement (RMCI), Jaipur
Areas of Interest:
Construction Engineering
Structural Engineering
Geotechnical Engineering

Saurabh Chaudhary
Industrial Training:
ICF - GHK, Bhopal
Areas of Interest:
Construction Engineering
Transportation Engineering
Environmental Engineering

Vikas Gupta
Industrial Training:
JK Lakshmi Cement (RMCI), Jaipur
Areas of Interest:
Construction Engineering
Structural Engineering
Environmental Engineering

Ashutosh Shukla
Industrial Training:
Kashyapi Infrastructure Private Ltd.
Delhi
Areas of Interest:
Construction Engineering
Transportation Engineering
Structural Engineering
Computer Science Engineering

Apoorva Kedia
Industrial Training:
- Tata Teleservices Ltd, Jaipur
Areas of Interest:
- Internet Technology
- System Programming
- Mobile Applications Development

Kamini Jain
Industrial Training:
1. Tata Teleservices Pvt. Ltd, Jaipur
2. Aplsys, Ahvaz
Areas of Interest:
- Internet Technology
- System Programming
- Mobile Applications Development

Kshitite Kedia
Industrial Training:
- Tata Teleservices Ltd, Jaipur
Areas of Interest:
- Internet Technology
- System Programming
- Networking and Cyber Security
- Mobile Applications Development

Nichit Bodhak Goel
Industrial Training:
- JCB Pvt. Ltd.
- Ballabgarh, Haryana
Academic Achievements:
- Winner of C - Debugging competition consecutively for two times and NNSC Zonal round Winner
Areas of Interest:
- System Programming

Nitin Verma
Industrial Training:
1. Campus Labs Pvt. Ltd.
2. Apnesh Computer Education, Bhagalpur, Bihar
Areas of Interest:
- Internet Technology, System Programming
- Networking and Cyber

Prachi Chhatwani
Industrial Training:
1. Tata Teleservice Pvt Ltd, Jaipur
2. Computer Education.Com Pvt. Ltd
Areas of Interest:
- Internet Technology
- System Programming
- Mobile Applications Development

Profull Johri
Industrial Training:
- Elcosoft Pvt Ltd., Gurgaon
Academic Achievements:
- Zonal round winner of NNSC (National Network Security Championship)
- System Programming
- Mobile Applications Development

Pritam Kalwaniya
Industrial Training:
- TATA Teleservices Ltd., Jaipur
Areas of Interest:
- System Programming
- Networking and Cyber Security
- Mobile Applications Development

Samyak Jain
Industrial Training:
- Campus Labs Pvt Ltd, Noida
Areas of Interest:
- Internet Technology
- System Programming
- Mobile Applications Development

Shalab Sharma
Industrial Training:
1. Tata Teleservices Ltd, Jaipur
2. LC Gestareps, AIESEC Turkey
Academic Achievements:
- KIITSEEE Volunteers
- 3rd in Blog Competition Nationwide
Areas of Interest:
- Internet Technology, System Programming
- Networking and Cyber Security
- Mobile Applications Development

Surendra Singh Sherawat
Industrial Training:
- Supersonic Tumers Pvt. Ltd., Jaipur
Areas of Interest:
- Internet Technology
- System Programming
- Networking and Cyber Security

Tara Chand Choudhary
Industrial Training:
- Supersonic Tumers Pvt. Ltd., Jaipur
Areas of Interest:
- Internet Technology
- Networking and Cyber Security
- Mobile Applications Development

Yash Gupta
Industrial Training:
- JCB India Pvt. Ltd., Ballabgarh, Haryana
Areas of Interest:
- Internet Technology
- Networking and Cyber Security
- Mobile Applications Development

Yogesh Choube
Industrial Training:
- Campus Labs Pvt. Ltd., Noida
Areas of Interest:
- Internet Technology
- System Programming
- Mobile Applications Development
Shiva Johari
Industrial Training:
Tata Communication Pvt. Ltd., Delhi
Areas of Interest:
Internet Technology
System Programming
Networking and Cyber Security
Mobile Applications Development

Manak Soni
Industrial Training:
BSNL, Bikaner
Areas of Interest:
Internet Technology
Networking and Cyber Security
Mobile Applications Development

Electrical Engineering

Aniruddh Mathur
Industrial Training:
1. Kota Super Thermal Power Plant, Kota
2. Denshree Solar Light on 100 kw Solar OHybrid Plant
Academic Achievements:
Winner of India Intelligence Contest
Areas of Interest:
Hybrid Energy Systems
Smart Grid & Energy Audit

Jaswant Nagauri
Industrial Training:
1. Kota Super Thermal Power Station
2. Electrolux (as per JKLU - SCUS Internship Exchange Programme with St. Cloud State University, MN, USA)
Areas of Interest:
Hybrid Energy Systems
Energy Audit
Nature Inspired Algorithms

Kumar Vaibhav
Industrial Training:
IPGCL - PPPC (Rajghat Thermal Power Station and Indraprastha Power Station) Rajghat, New Delhi
Areas of Interest:
Hybrid Energy Systems
Smart Grid
Modeling and Simulation

Mayur Kumar Sharma
Industrial Training:
1. Kota Super Thermal Power Station
2. Varan Industries
Areas of Interest:
Hybrid Energy Systems
Smart Grid
Energy Audit
Modeling and Simulation

Raj Kumar
Industrial Training:
IPGCL - PPPC (Rajghat Thermal Power Station and Indraprastha Power Station) Rajghat, New Delhi
Areas of Interest:
Hybrid Energy Systems
Smart Grid
Energy Audit

Varun Sharma
Industrial Training:
1. IPGCL - PPPC (Rajghat Thermal Power Station and Indraprastha Power Station) Rajghat, New Delhi
2. Sofcon India Pvt. Ltd., Jaipur
Areas of Interest:
Hybrid Energy Systems
Smart Grid
Modeling and Simulation

Shivam Saxena
Industrial Training:
IPGCL - PPPC (Rajghat Thermal Power Station and Indraprastha Power Station) Rajghat, New Delhi
Areas of Interest:
Smart Grid
Energy Audit
Modeling and Simulation

Mridul Sharma
Industrial Training:
1. IPGCL - PPPC (Rajghat Thermal Power Station and Indraprastha Power Station) Rajghat, New Delhi
2. Sofcon India Pvt. Ltd., Jaipur
Areas of Interest:
Hybrid Energy Systems
Smart Grid
Modeling and Simulation
**Electronics and Communication Engineering**

**Aditya Rathore**
*Industrial Training:*
1. Delhi Metro Rail Corporation, Delhi
2. Multisoft Systems
*Areas of Interest:*
Telecom Technology & Management
Radio Frequency Design & Technology
VLSI Design

**Anjali Dubey**
*Industrial Training:*
North Central Railways, New Delhi
*Areas of Interest:*
Telecom Technology & Management
Embedded Systems
VLSI Design

**Ankush Mishra**
*Industrial Training:*
1. Tata Teleservices Pvt. Ltd, Jaipur
2. PIC, Scada By Sofcom India Pvt Ltd.
*Areas of Interest:*
Telecom Technology & Management
Embedded Systems
VLSI Design

**Anu Mohan**
*Industrial Training:*
1. TESCA Technologies Pvt. Ltd. Jaipur
2. RTTC, BSNL, Kerala
*Areas of Interest:*
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems

**Arunav Agarwal**
*Industrial Training:*
1. Bharti Airtel, New Delhi
2. ADRDE, DRDO, Agra
*Academic Achievements:*
Presented Project based Research Paper in NCSE 2014
*Areas of Interest:*
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems

**Bhavesh Hotchandani**
*Industrial Training:*
Siemens Ltd, Mumbai
*Areas of Interest:*
Telecom Technology & Management
Embedded Systems
VLSI Design

**Chetan Parashar**
*Industrial Training:*
1. Supersonic Turners Pvt Ltd, Jaipur
2. CRISP, Bhopal
*Areas of Interest:*
Telecom Technology & Management
Radio Frequency Design & Technology

**Dinesh Kumar Goyali**
*Industrial Training:*
1. Central Electronics Limited, Gaziabad
2. BSNL, Bangalore
*Areas of Interest:*
Telecom Technology & Management
Radio Frequency Design & Technology
Gaurav Harsh
**Industrial Training:**
1. Tata Teleservices, Jaipur, Rajasthan
2. International Centre for Radio Science, Jodhpur, Rajasthan

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
VLSI Design

Gopal Rakhecha
**Industrial Training:**
TESCA Technology Pvt. Ltd., Jaipur

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems

Jitender Narayan Joshi
**Industrial Training:**
1. Northern Railways, Delhi
2. Cognintel, Haryana

**Areas of Interest:**
Telecom Technology & Management
Embedded Systems
VLSI Design

Jyotsana Goswami
**Industrial Training:**
Tiesco Pvt. Ltd., Jaipur

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems, VLSI Design

Meghna Jain
**Industrial Training:**
Siemens Healthcare Ltd.

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems

Namita Pandey
**Industrial Training:**
Goel India Ltd.

**Areas of Interest:**
Radio Frequency Design & Technology
Embedded Systems

Nitin Jain
**Industrial Training:**
1. Central Electronics Ltd, Gazipur
2. PLC and SCADA training at DH Plus Automation Pvt. Ltd., Jaipur
3. Indian Institute of Technology, Bombay on “9 in 1 Electronic Laboratory Equipment”

**Academic Achievements:**
1. Jointly awarded summer research fellowship by IAS, NASI, INSA.
2. Worked at IIT Bombay under this fellowship
3. Won India Intelligence Contest

**Areas of Interest:**
Radio Frequency Design & Technology,
Embedded Systems, VLSI Design

Raghuvir Seervi
**Industrial Training:**
Central Electronics Limited, Ghaziabad

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems
VLSI Design

Raunaq Singh Junejo
**Industrial Training:**
Supersonic Tumers Pvt. Ltd., Jaipur

**Areas of Interest:**
Telecom Technology & Management
Embedded Systems
VLSI Design

Robin Gupta
**Industrial Training:**
Indian Railways, Agra

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Saurabh Dhawan
**Industrial Training:**
1. Northern Central Railway (NCR), Agra
2. Solid State Physics Lab (ORDO), New Delhi

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
Embedded Systems

Shubham Shukla
**Industrial Training:**
1. IPGCL - PPCI (Rajghat Thermal Power Station and Indraprastha Power Station)
   Rajghat, New Delhi
2. Rays Power Infra, Jaipur

**Areas of Interest:**
Telecom Technology & Management,
Radio Frequency Design & Technology
VLSI Design

Tushar Mohan
**Industrial Training:**
JCB Ballabgarh

**Areas of Interest:**
Embedded Systems
VLSI Design

Utkarsh Chinmay Palival
**Industrial Training:**
Airtel, Delhi

**Areas of Interest:**
Telecom Technology & Management
Embedded Systems
VLSI Design

Zubin Pareek
**Industrial Training:**
IPGCL-PPCI (Rajghat Thermal Power Station and Indraprastha Power Station)
Rajghat, New Delhi

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
VLSI Design

Ashok Kumar
**Industrial Training:**
Tata Teleservices Pvt. Ltd., Jaipur

**Areas of Interest:**
Radio Frequency Design & Technology
Embedded Systems
VLSI Design

Shivam Joiswal
**Industrial Training:**
1. Supersonic Turners Pvt. Ltd., Jaipur
2. CETTI, IITN, Mumbai
3. Reliance Industries Limited, Allahabad

**Academic Achievements:**
1. Got shortlisted to demonstrate a prototype on Structured Web Geo-spatial Channel Mapping and Data Visualization and also presented on Speech Control at the ISB, Hyderabad in August 2012 at iWeekend start-up conference
2. Designed a Microprocessor based Obstacle detector using ATMEL’s ATMega128Microcontroller in 2014

**Areas of Interest:**
Telecom Technology & Management, Radio Frequency Design & Technology, VLSI Design

Deepak Kumar Soni
**Industrial Training:**
Tasco Technologies Pvt. Ltd., Jaipur

**Areas of Interest:**
Radio Frequency Design & Technology
Embedded Systems
VLSI

Ashish Tomar
**Industrial Training:**
Supersonic Turners Pvt. Ltd., Jaipur

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
VLSI Design

Pranjal Bhardwaj
**Industrial Training:**
Airtel, Delhi

**Areas of Interest:**
Telecom Technology & Management
Radio Frequency Design & Technology
VLSI Design
The rising flame epitomises leadership through enlightenment
The bright orange colour represents brilliance.

The lotus symbolises divine knowledge and wisdom
The colour blue reflects serenity and infinity.

 KNOWLEDGE IS DIVINE

Knowledge is divine