

ANNUAL REPORT (2018-2019)



Institute of Engineering and Technology

Sitapur road, Lucknow

(An autonomous Institute of AKTU)

Contents

Director's Message	
Institute's Basic Information	5
Vision and Mission	7
Administration	8
Organisation Structure	9
Academic Calender	10
Programmes Offered	11
Student Strength	12
Department Profile with Infrastructure and Facilities	13
Technical Education Quality Improvement Programme (TEQIP) and IET	21
Faculty Publications during the Academic Year 2018-19	24
2019	24
2018	25
Training programme held for Teachers and Staff	30
Dean Student Welfare Report for 2018-19	30
GATE Qualified Students Data	32
Start-ups and innovations	33
Linkage with Industries	34
Campus Placement	35
Collaborative Activities	37
Student Internship	37
Infrastructure Growth	38
Laboratory Upgradation	38
Co-curricular Achievement	40
Awards/Prizes won by students	45
Financial Information	50
Techshots of Industrial Visits	49
IET in News	51



Director's message

Dear Friends,

Institute of Engineering and Technology Lucknow is known for its excellence in the field of Engineering and Technology education producing highly skilled human capital for the development of a Nation. The Institute was established in the Year 1984 aiming to provide leadership in education and research with a focussed approach on science and technology. We here at IET, strongly support interdisciplinary research and development for the benefit of Industry and Society. This has led us to emerge as a leading Institution for education in engineering, management, and pure sciences.

In my opinion, development of an economy lies in the classroom where ideas transform into inventions and discoveries under the aegis of teaching excellence. It is the classroom environment of an Institute that stimulates the student to mark his presence with a development of devices and machines in the field of engineering and technology.

The Institute emphasises on holistic development of students to which varied skill enhancement sessions, experiential trainings, sports, cultural, incubation clubs and social platforms are developed. These activities help in inculcating skill sets and competencies required by the Industry. In this highly competitive Industrial era, the blend of hard skills and soft skills can lead to a better placement opportunity leading to bridge the Industry-Academia gap. The composition of technology and management skills that an IETian possesses makes him/her a valuable asset to any organization he/she works for. The esteemed reputation of Institute and the coveted positions our alumnus holds in India and abroad fosters the Industries to mark us as the first priority in terms of training and placements. The Institute has signed MOUs and is under process of signing many more MOUs with Industries of reputation which may uplift the count and quality of placement in every stream.

I am confident that the focused efforts of the team and stakeholders of IET Lucknow would scale up to the greater heights of quality excellence in the years to come. The combined efforts of team IET would continue producing 'Knowledge workers' for the societal development of country.

I extend my best wishes to all the students for their momentous, commendable and valuable stay at IET Lucknow. I also thank and appreciate all the faculty and staff members for their priceless efforts in building IET Lucknow as an Institute of 'Knowledge Management'.

'Together we can and we will mark the difference'

---- H. K. Paliwal

Institute's Basic Information



Institute of Engineering and Technology, Lucknow (popularly known as the “Engineering College” in Lucknow) is one of the premier and top ranked institute among all technical institutions associated/affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow. IET was established by the government of Uttar Pradesh in 1984 as a society governed Institute. The Institute is financed by Government of Uttar Pradesh and is being administered by the Executive Council of AKTU.

The Institute is fully residential. The institute was formerly affiliated (1984-1999) to The University of Lucknow, currently An Autonomous Institute and recognised by AICTE. The institute is a constituent college of Dr. A.P.J. Abdul Kalam Technical University.

Institute of Engineering and Technology, Lucknow (here after called IET) (popularly known as the “Engineering College” in Lucknow) is one of the premier and top ranked institute among all technical institutions associated/affiliated to Dr. A. P. J. Abdul Kalam Technical University, Lucknow (here after called “AKTU”). IET was established by the government of Uttar Pradesh in 1984 as a society governed Institute. The Institute is financed by Government of Uttar Pradesh and is being administered by the Executive Council of AKTU.

IET Lucknow was started as the ‘Faculty of Engineering and Technology’ of University of Lucknow. Initially in the year 1984 it offered B. Tech. Degree in three programs namely Computer Science and Engineering, Electrical Engineering and Electronics & Communication Engineering. In the subsequent year, two more programs i.e. B. Tech. in Civil Engineering and B. Tech. in Mechanical Engineering came into existence. IET campus comprises of Administrative Blocks, Academic Blocks, Boys’ and Girls’ Hostels and nearly 100 residences for Teaching and Non-Teaching Staff Members. Lucknow Development

Authority (LDA) provided required support for construction of external roads, electric supply, drainage and sewage for the Institute.

Under graduate students are admitted through UPSEE (Uttar Pradesh State Entrance Examination) on the basis of the rank obtained by the candidate in this examination. At present this examination is conducted by AKTU. Around 1,50,000 students appear in this examination every year seeking admission to more than 800 engineering colleges affiliated to AKTU. The Institute is one of the most preferred Institute by top rankers during UPSEE counselling.

There are eight Boy's and three Girl's Hostels, accommodating around 2000 students. All the hostels are located within the Institute campus. Each hostel has its own mess, managed by student representatives. Hostels are provided with Television, Water-Purifier, Water-Cooler, Geyser, and facilities for Indoor Games. Various hostels are Vishveshwariya Bhawan-A, Vishveshwariya Bhawan-B, Raman Bhawan-A, Raman Bhawan-B, Bhabha Hostel, Aryabhata Hostel, Ramanujam Hostel, Ram Manohar Lohia Hostel, Gargi Bhawan (Girl's Hostel) Apala Hostel (Girl's Hostel) and Sarojni Bhawan (Girl's Hostel). A newly constructed 'Maitrayee Hostel is ready for the allotment to the girl-students.

The Annual Cultural and Literary Fest of the Institute named "Encore" is organized every year. Students from various institutions of Northern India participate in the fest. The event is intended to provide a platform for co curricular activities which lead to selfdevelopment by providing opportunities to enhance the management, organizational and other skills of the students. "Shauryotsava" is the Annual Sports and Games Fest, and "Parakram" is the Technical Fest held every year. All departments/departmental societies of the Institute organize events in their respective fields. IET Lucknow is having a vibrant Alumnus. Institute organizes "Convergence", an event to mark the Silver Jubilee Reunion of its graduates every year, along with alumni of other batch.

The institute has hostel facilities for boys and girls, committees consisting of elected student representatives manage them. All the hostels are located in the campus.

Vision and Mission

To effectively contribute towards the national endeavour of producing world class manpower and to usher in technology driven economic development of the country in order to enrich the quality of life of its citizen by promoting innovative technologies and optimal utilization of resources for sustainable development.

M1. To establish global state-of-art facilities and resources that will prepare and enrich the human resource by promoting all-inclusive research and developments.

M2. To inculcate entrepreneurship skills in the students in order to optimize resources to achieve the economic growth by improving the quality of life of the citizens.

M3. To instil problem-solving skills for overcoming real life challenges by imparting values based professional education.

Governance Structure

S.No.	Details	Capacity
1.	Prof S.K. Awasthi Ex. Director, B.I.E.T., Jhansi.	Chairman
2.	Prof Jagbir Singh Ex. Professor , Faculty of Architecture, Dr. A. P. J. Abdul Kalam Technical University, Lucknow.	Member
3.	Sri Ram Niwas Jain Managing Director, B.P.Engineers Pvt. Ltd.,Lucknow.	Member
4.	Prof R.P. Singh Ex. Director, H.B.T.I., Kanpur.	Member (AKTU Nominee)
5.	Prof A.K. Katiyar Professor, Applied Science Department IET Lucknow	Member
6.	Prof J.B. Srivastava Professor, Civil Engineering Department IET Lucknow	Member
7.	Sri Awadh Kishor Dy. Secretary, Department of Technical Education Government of Uttar Pradesh	Member (Govt Nominee)
8.	Prof K.B. Nayak Ex. Director, KNIT Sultanpur.	Member (AKTU Nominee)
9.	Prof H.K. Paliwal Director IET Lucknow	Member

Administration (Executive Council)

S.No.	Details	Capacity
1.	Prof. Vinay Kumar Pathak Vice-Chancellor Dr. A. P. J. Abdul Kalam Technical University, Lucknow	Chairman
2.	Principal Secretary Department of Technical Education, Government of Uttar Pradesh	Member
3.	Principal Secretary Department of Finance, Government of Uttar Pradesh	Member
4.	Prof. Kailash Narayan Pro Vice-Chancellor Dr. A. P. J. Abdul Kalam Technical University, Lucknow	Member
5.	Director Indian Institute of Technology, Roorkee	Member
6.	Director Indian Institute of Technology, Kanpur	Member
7.	Prof. S.K. Awasthi Ex. Director, B.I.E.T., Jhansi	Nominated Member
8.	Nominated Industrialist by the Honorable Governor of Uttar Pradesh	Member
9.	Nominated Industrialist by the Honorable Governor of Uttar Pradesh	Member
10.	Nominated Technologist by the Honorable Governor of Uttar Pradesh	Member
11.	Nominated Technologist by the Honorable Governor of Uttar Pradesh	Member
12.	Director Rajkiya Engineering College, Banda.	Member
13.	Director Rajkiya Engineering College, Sonbhadra.	Member
14.	Registrar Dr. A. P. J. Abdul Kalam Technical University, Lucknow.	Secretary

Executive Council is the apex body for governing administrative, financial and academic activities. The detailed roles and responsibilities are given in the University acts and regulations, which is available on AKTU website and annexed also.

Organisation Structure

Name of Position	Name of Faculty Member
Director	Dr. H.K. Paliwal
Co-ordinator, Self-financed courses	Prof. AK Katiyar
Dean Academics Associate Dean Academics	Dr. Sanjay Srivastva (a) Dr.Santosh Kumar Singh (b) Dr. Karunesh Kumar Singh
Dean P.G & Research Associate Dean P.G & Research	Dr. Shailendra Sinha Dr. Seethalekshmi K
Dean Research & Consultancy	Dr. K.V.Arya
Dean Student Welfare Associate Dean Student Welfare	Dr. S. P. Tripathi Dr. Upendra Kumar
Head , Department of Applied Sciences	Dr. Alka Tripathi
Head, Department of Civil Engineering	Dr. A.K. Shukla
Head, Department of Computer Science & Engineering	Dr. Y.N. Singh
Head, Department of Chemical Engineering	Dr. Dhananjay Singh
Head, Department of Electronics & Communication Engineering	Dr. Subodh Wairya
Head, Department of Electrical Engineering	Dr. Satyendra Singh
Head, Department of Mechanical Engineering	Dr. Arun Kumar Tiwari

Academic Calendar


INSTITUTE OF ENGINEERING & TECHNOLOGY, SITAPUR ROAD, LUCKNOW

Academic Calendar

Session 2018-19

Activity	Dates	
	Odd Semester	Even Semester
	I st , III rd , V th and VII th Semester	II nd , IV th , VI th and VIII th Semester
Commencement of Semester	July 24, 2018	January 11, 2019
Registration of Students in B. Tech. I st year, MBA I st year, MCA I st year, B. Tech. II nd year (Lateral entry) and MCA II nd year (Lateral entry)	July 20- 23, 2018	January 11, 2019
Registration of Students in B. Tech. II nd year (except students directly admitted to II nd year in 2018), M. Tech. II nd year, MBA II nd year and MCA II nd year (except students directly admitted to II nd year in 2018) and Pre-Ph.D. Course work.	July 24, 2018	January 12, 2019
Registration of Students in B. Tech. III rd year and MCA III rd year	July 25, 2018	January 14, 2019
Induction Programme for New Students	July 25- August 14, 2018	----
Registration of Students in B. Tech. IV th year	July 26, 2018	January 14, 2019
Registration of Pre- Ph.D. (for courses offered in M. Tech. I st year), M. Tech. I st year	As per AKTU schedule	January 11, 2019
Commencement of Classes	August 01, 2018	January 15, 2019
Online ERP Registration of New Students	September 06-10, 2018	----
Filling of Enrollment forms of newly admitted students in hard copy	September 28- October 03, 2018	----
Filling up of the examination forms for end semester examinations by the students	October 04-08, 2018	February 25- 28, 2019
Online Enrollment of the newly admitted students on AKTU website	As per AKTU schedule	--
I st Class Test	October 13-17, 2018	March 14- 18, 2019
Departmental Societies Function Week*	November 12-18, 2018	
Sports /Cultural Meet	To be decided by Chairman ISSACC/Director	To be decided by Chairman ISSACC/Director
II nd Class Test	November 27-30, 2018	April 24-27, 2019
End Semester Theory & Practical Examinations	December 11-30, 2018	May 06-25, 2019
Winter/Summer vacation for Faculty & Students	December 31, 2018 – January 09, 2019	May 27- July 20, 2019
Commencement of Odd semester for the session 2019-20		July 24, 2019

*On working days, Departmental Societies Functions to be conducted after 04:30PM


(Prof. Sanjay Srivastava)
Dean Academics

Programmes Offered

Programme	Branch/Specialization
Bachelor of Technology	Electronics and Communication Engineering
Bachelor of Technology	Computer Science and Engineering
Bachelor of Technology	Electrical Engineering
Bachelor of Technology	Mechanical Engineering
Bachelor of Technology	Civil Engineering
Bachelor of Technology	Chemical Engineering
Bachelor of Technology	Electronics and Instrumentation Engineering
Bachelor of Technology	Information Technology
Master of Technology	Structural Engineering
Master of Technology	Environmental Engineering Biotechnology
Master of Business Administration	Master of Business Administration
Master of Computer Application	Master of Computer Application

Student Strength

	Sanctioned Intake	Actual Intake	Female	OBC	SC	ST
Undergraduate	480	494	94	172	78	9

Total no of post graduate students= 461

M. Tech Programme

Admission is done through Counselling of students qualified in GATE and entrance examination conducted by AKTU. All GATE Qualified students are given scholarship by AICTE/AKTU.

Number of MTech Programmes: Six (6)

Name of Programme	Sanctioned Intake	Actual Intake
Mtech , Biotechnology	18	10
Mtech, Environmental Engineering	18	17
Mtech, Micro-Electronics	15	15
Mtech, Mechanical Engineering	18	8
Mtech, Electric Drive & Control	18	0
Mtech, Structural Engineering	18	18

Total = 68

PhD Programme

PhD scholars are awarded fellowship/scholarship of Rs 40,000/- by AKTU under **Homi Bhabha Research cum Teaching Assistant Fellowship scheme**. Admission is done twice in an academic year by the AKTU through Written examination and Interview conducted by the University (AKTU).

In the year 2018-19, the number of students admitted = 19.

Programme wise breakup is given as below.

Name of Department/Programme	Admission
Applied Science	01
Biotechnology	01
Civil Engineering	03

Computer Science & Engineering	03
Chemical Engineering	02
Electronics Engineering	03
Electrical Engineering	02
Mechanical Engineering	04

Department's Profile with Infrastructure and Facilities

Department of Applied Sciences and Humanities

The Department of Applied Sciences was established with the mission to connect pure and basic sciences and humanities with engineering practices. The department offers core course in Mathematics, Physics, Chemistry and Humanities to impart basic input among undergraduates and post graduates students. The department provides well-equipped laboratories to students in the field of Physics, Chemistry and Language lab for their practical training and skill development.

The department also facilitates interdisciplinary Ph. D. programme in Mathematics, Physics, Chemistry and Humanities with the help of highly qualified faculties.

Department of Chemical Engineering

The department offers an academic programme leading to B.Tech degree in chemical engineering. The department has a highly qualified faculty to guide the students at every step. The department has strength of highly qualified faculty, which give their valuable guidance to the students.

The curriculum is fully updated and meets the industry requirements and trends in the industry. The electives provide an opportunity to the students to hone their practical skills and strengthen their practical and theoretical base.

The students who engage themselves in project work, seminars and have periodic visits at various research institutes.

Core curriculum:

It offers a well-planned and balanced curriculum to enable students to cope up with the latest knowledge and rigorous industrial trends.

Electives

Along with inter-disciplinary core courses, the department offers some specialized courses that include Petroleum Refining Engineering, Fertilizer Technology, Hazard and safety analysis, design catalytic reactors, advanced Separation technique, high polymer technology, Surface coating and technology, oil technology, Biochemical Engineering.

Laboratories:

The department has many laboratories that are fully-equipped and well maintained. These laboratories not only enhance the practical skills, but also strengthen the theoretical concepts. The various laboratories in the department include:

- Fluid mechanics and particle laboratory
- Heat transfer lab
- Mass transfer laboratory having computerized distilling column
- Chemical reaction engineering laboratory having plug flow reactor
- CSTR along with Batch Reactor
- Process instrumentation lab with experiments on proportional controller, PI controller, PID controller etc.
- CAD laboratory

For project reports, seminar works or for knowledge of latest developments, the students continuously visit CDRI, CMAP and CSIR. Every year a good percentage of students employed in reputed companies and pursue higher studies. With hard and proper guidance of faculty members, the students make their way to IISC, IITs and BARC.

Department of Civil Engineering

Vision of Department

To provide globally competitive, high quality human resource having expertise in area of Civil Engineering and contribute towards development of technologies and innovations appropriate to sustainable economic growth and enrichment of quality of human life.

Mission of Department

- To attract, retain and nourish faculty and resource persons of international standards
- To admit talented and meritorious students and transform them into successful professionals

- To offer UG programs in cutting-edge technologies with updated curriculum at par with global standards.
- Enhance the doctoral programs research output, especially in refereed journals with citations.
- Upgrade and improve the academic infrastructure and ambience to nourish professional excellence.
- Create and optimally utilize advanced centres of studies for research, consultancy and demand-driven sponsored problem solving.
- Promote and foster partnerships and strategic alliances with industry, profession and social development agencies to effectively utilize faculty competencies and enhance synergy.
- Enhance and expand, beyond national boundaries, its contribution to the betterment of technical education and offer international; programs of teaching, consultancy and research.

The Department of Civil Engineering was established in the year 1985. In the ever changing scenario of modern day industry, the civil engineers are the ones who are bridging the gap between the normal civil engineers and the need of the modernization.

The Civil Department has a highly qualified faculty. The department has developed an excellence in various fields especially in the area of Transportation Engineering. The Transportation Engineering Section had carried out two AICTE, New Delhi sponsored Projects under the major scheme (Nationally coordinated Projects) in the area of “Urban Transport Environment Interaction” & “Road Traffic Safety” jointly with IIT Roorkee, PEC Chandigarh, MNIT Allahabad and University of Bangalore respectively. Prof N B Singh also completed one TAPTEC AICTE project of Rs 12 Lacs in 2005. Earlier in the year 1990 AICTE had sanctioned Rs.17.5 Lacs for modernization of Traffic and Transportation Engineering Laboratory, & it is the only Laboratory in the UP Government State Colleges which has got Central assistance for the modernization. Almost all technical members are Ph.D holder and have experience of more than 25 years. The Department of Civil Engineering is approved as STATE TECHNICAL AGENCY for Pradhan Mantri Gramin Sadak Yojana, by the Central Government and UP Government as well. Prof. J.B. Srivastava is the Coordinator & Prof. A.K. Shukla is the Deputy Coordinator of the PMGSY Scheme. Department carries out consultancy Project of work Rs. 1 crore/annum. Presently Department

has sanctioned strength of Nine Faculty Member. The department has student intake of 60 students. Many of the senior faculty members are holding post of Deans/Associate Deans in Abdul Kalam Technical University. Department was given enough funds for up-gradation of labs by TEQUIP III.

Department of Computer Science and Engineering

Vision of Department

To contribute at national and international scenario through excellence in science and technology by providing a transformative education and research in the field of computer science and engineering and to cultivate the attitude and skills of employability, entrepreneurship, start-up among students so that they can become a valuable resource not only for the industry but also for the society.

Mission of Department

- M1. To achieve high academic standards and values to prepare computer science professionals who can augment the industrial, educational, research, innovations and social needs of the nation and the world at large.
- M2. To provide the education to the students by rigorous course work etc. in such a way that they should be an excellent technocrat.
- M3. To develop human technical potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions to achieve the needs of society and industry.
- M4. To preserve the core values as an enduring principle adopted by the department are Integrity, Excellence, Transparency, and Empathy.

The Computer Science and Engineering Department, IET is a premier and dynamic center for imparting quality education in the field of Computer Science.

The Department has been the pioneer department since the college was established and has developed itself in leaps and bounds.

The Department is a center for advanced studies, keeping pace with the latest in the rapidly changing environment of information technology. It has been consistent endeavour of the

department to adapt itself and its programmers to mirror the requirements of the constantly evolving IT environment in India and abroad.

Department of Electrical Engineering

Vision of Department

To outshine in edification, research and industrial services in electrical engineering in tune with societal aspirations.

Mission of Department

M1. To impart value education to produce globally competent electrical engineers proficient of extending industrial services

M2. To engage in research & progress in cutting edge and sustainable technologies.

M3. To nurture scientific personality, professional ethics and industrial cooperation.

The department of electrical engineering, at the Dr. APJ Abdul Kalam Technical University, Lucknow, is one of the eight departments in the Institute of Engineering and Technology and offers degrees at the Bachelor, Master and PhD level. It was created in 1984 and is recognised by AICTE, New Delhi. The department is one of the largest and oldest departments in the Institute, and has a well qualified faculty, all holding degrees from renowned institute in India. The Department of Electrical Engineering is committed to grow further as a socially responsible and research-oriented centre of learning. Department was accredited twice by the AICTE, New Delhi.

Department of Electronics & Communication Engineering

Vision of Department

To make the department a center of excellence in the field of Signal Processing and Microelectronics.

Mission of Department

M1: To Develop and deliver quality academic programmes in emerging & innovative field of Engineering to empower students to meet Industry requirements.

M2: To empower student with high ethical standards to undertake R&D in thrust areas in line with national and international requirements.

M3: To create center of excellence to meet global research challenges and produces manpower capable to compete with that elsewhere.

The Electronics & Communication Engineering Department of the Institute of Engineering and Technology, Lucknow was established in year 1984. Initially department started undergraduate programmes and gradually started postgraduate programs and research work. The department has experienced and well qualified faculty. Faculty members are actively involved in research activities and have many research publications in national and international journals and have participated in international & national conferences. Faculty members have also undertaken sponsored research projects. In consonance with the rapidly evolving technology, specialized laboratories have been established with a view to strengthening research and development. Equipped with state-of-art equipment and instruments, these assist students in learning various concepts through practical experience.

Objectives

Use technical, teamwork and communication skills in line with leadership principles to successfully pursue Electronics and Communication Engineering career in areas such as Electronic Circuits, Instrumentation and Controls, Communication Engineering, VLSI Design and Signal Processing.

To develop manpower equipped with computational skills suited to the requirements of Indian and multi-national companies and use modern engineering techniques, skills and tools and to function ethically in their professional Electronics and Communication Engineering roles.

Infrastructure and Department Laboratories

State-of-the-art laboratories containing the requisite equipment have been set up to ensure that the students get modern facilities to thoroughly understand the concepts of electronics taught in the class-room. Specifically keeping in mind the fact that the Institute is located in a region where day-to-day industrial interaction is difficult, the equipment provided in the laboratories itself ensures that the students are kept abreast of the new technologies being used in the industry. The department is underway to acquire expertise in the area of Signal Processing, Wireless & Optical Communication, Microwave & Antenna system design, Testing and verification of VLSI design and Embedded system design. The following

laboratories have been established to provide the students with facilities for enhancing the value of the learning process:

- Electronics Engineering lab
- PCB & Workshop Design Lab
- Analog Electronics (Integrated Circuits) Lab
- Digital Electronics Lab
- Electronic Measurement & Instrumentation Lab
- Microprocessor Lab
- Microcontrollers & Embedded Systems Lab
- CAD Lab
- Communication Engineering Lab
- Advanced Communication Engineering Lab (Optical Fiber Communication)
- Microwave Engineering & Antenna Design Lab
- Digital Signal Processing Lab
- Analog Signal Processing (Microelectronics Circuit Design) Lab
- VLSI Lab

Department of Mechanical Engineering

Vision of Department

To produce world class Mechanical Engineers and good human being, to contribute towards socio-economic, environmental and technological development of nation.

Mission of Department

To make the department of Mechanical Engineering one of the best in region through

- M1. Producing technically sound Mechanical Engineers.
- M2. Developing entrepreneurial capabilities so that they may contribute towards socio economic development.
- M3. Inculcating the good human values

The Mechanical Engineering department is considered as the heart of the institute. The strength of the department is the highly qualified faculty which guides the students during the programme. A mechanical engineer designs, develops, operates and maintains systems

required for all what happens in industry whether in a power plant, space & nuclear establishment, steel plant, military establishments or automobile industry, etc.

Core Curriculum:

The syllabus is fully updated and made according to the present day need of the industry. The department of Mechanical Engineering is embellishing the following subjects that fulfil the technology needs.

Applied Thermodynamics, Product Development and Design, Machine Design, Strength of Materials, Courses in Microprocessor Application, CAD/CAM, Industrial Engineering and Management, Entrepreneurship and Project Planning, Value Engineering, Organizational Behaviours, Condition Monitoring and Diagnostic & Mechanical Vibration, etc.

Laboratories:

The department provides the following labs:

- Material Science lab
- Measurements and Metrology lab
- Material Testing lab
- Machine lab
- Thermal lab Vibration lab
- I.C. Engine lab
- Heat Transfer lab
- Mechanical Workshop
- Kinematics and Dynamics of Machine lab
- CAD lab

It's the only department which provides exposure to its students to softwares like MATLAB, and now is in the process of procuring Pro-Engineer & Finite Element Analysis software to further hone their skills.

Technical Education Quality Improvement Programme (TEQIP) and IET

Technical Education Quality Improvement Programme of Government of India (TEQIP) is being implemented as a World Bank assisted Project to improve the quality of technical education system in the country. TEQIP was conceived in pursuance of the National Policy on Education 1986 with a Goal to scale-up and improve quality of technical education and enhance existing capacities of the Institutions to become dynamic, demand driven, quality conscious, efficient and forward looking, responsive to rapid economic and technological developments occurring both at national and International levels. The broad objectives of the programmes are as follows:

- To create an environment in which Engineering Institutions selected under the programme can achieve their own set targets for excellence and sustain the same with autonomy and accountability.
- To support development plans including synergistic Networking and Services to Community and economy of competitively selected Institutions for achieving higher standards.
- To improve efficiency and effectiveness of the technical education management system in the states and Institutions selected under the Programme.

Institute of Engineering and Technology (IET) Lucknow had one of the few Institutions selected for TEQIP-I and latter again selected for TEQIP-II. Both the above phases are completed successfully whereas the last phase was ended in 31st March, 2017.

Based on the performance of the Institute, IET Lucknow has been again selected for TEQIP-III for which an MoU between the State of UP and IET Lucknow was signed in the first quarter of 2017. TEQIP-III will focus on improving quality and equity in the Institution, improve the efficiency of the system through reforms and governance and twinning arrangements to build capacity and improve performance of participating Institutions.

The broader objectives of IET Lucknow for TEQIP-III are as follows:

- Increase enrolments in PG, PhD programmes in various disciplines.
- Establishing state-of-the-art laboratories, CoE for focused applicable research, innovation and start up centers.

- Improvement in teaching, learning and research competence i.e., improve student learning, student employability, development of a better system for assessment of student learning, increasing faculty productivity and motivation.
- Developing state-of-the-art center facilities e.g., computer center, library and data center, etc.
- To achieve better academic standards through accreditation.
- Mentoring & twinning arrangement activities.
- Efficiency Improvement through reforms and governance, better administration of the Institute with improved financial/academic autonomy.

Training Programmes held for Students

Electrical Engineering

S.No.	Activity	Title	Organiser/s
1	Expert Lecture	Electrical Design Practice in Steel Power Plant	Dr. Sachin Singh
2	Expert Lecture	Smart Micro Grid	Dr. Nitin Anand Srivastava
3	Expert Lecture	Harmonics in Power System	Dr.Seethalakshmi K
4	Faculty Development Program	Simulation & Modelling of Power System in MATLAB	Dr.Kuldeep Sahay Dr.PushkarTripathi

Chemical Engineering

S.No	Activity	Title	Organiser/s
1	FDP	Renewable energy and environment	Dr. Dhananjay Singh
2	Expert Lecture	From IITK/NIT/Universities/Industrial Persons	Dr. R.P.Ram
3	Workshop	Advances in Chemical Energy and Technology	Dr. Pradeep Kumar
4	Expert Lecture	From IITK/NIT/Universities/Industrial Persons	Dr. Dhananjay Singh
5	Workshop	Advances in Chemical Engineering and Technology (ACET-2018) by Department of Chemical Engineering	Dr. Pradeep Kumar

Mechanical Engineering

S.No.	Activity	Title of the Programme	Organiser/s
2	FDP	Computational Fluid Dynamics for Beginners	Dr. Arun Kumar Tiwari

Computer Science and Engineering

S.No	Activity	Title	Organise/s
1	FDP	Mobile Application Development using Android Programming	Mrs. Parul Yadav
2	FDP	Advance Digital Image processing	Dr. Upendra Kumar
3	FDP	Soft Computing techniques	Dr. Pawan Kumar Tiwari

Electronics and Communication Engg

S.No	Activity	Title	Organiser/s
1	FDP	Recent Trends in High Frequency Devices and Applications (RTHFDA-2019)	Dr. Rajiv Kumar Singh
2	FDP	IPR, Entrepreneurship, and Innovation (IPREI-19)	Dr. Rajiv Kumar Singh
3	Expert Lecture	Micro- Electro-Mechanical Systems by Prof. Rudra Pratap, PhD Cornell University, M.S. University of Arizona	IEEE Student Chapter and SEED

Faculty Publications during the Academic Year 2018-19

2019

- Rashid Jamal, Indra Kumar Singh, and Rajiv Kumar Singh, Development of 2.45 GHz Patch antenna and measurement of SAR over Human head model, International Journal of Applied Engineering Research ISSN 0973-4562 vol. 14, no. 2, pp. 221-226, 2019, 2019.
- Preeti Verma, Bharti Dwivedi, Seethalekshmi K, Key Issues and Challenges in Generation, Integration and Control of Offshore Wind Energy Conversion System, Journal of Applied Engineering and Research, 2019.
- Ashish Kumar Rao, Rajiv Kumar Singh, and Neelam Srivastava, In-band Full Duplex Radio: A survey, International Journal of Applied Engineering Research ISSN 0973-4562 vol. 14, no. 2, pp. 183-189, 2019 , 2019.
- R Srivastava and Y N Singh, ECG Analysis for Human Recognition using Nonfiducial Methods, IET Biometrics, IET Digital Library,, 2019, DOI : pp. [TBA]
- R. P. Ram, A. K. Dhiman, R. P. Bharti, Aiding buoyancy mixed convection flow and thermal features across a periodic array of heated cylinders, International Journal of Heat and Mass Transfer, Publisher: Elsevier Science-SCI, Impact factor: 3.458, 2019.
- A Agarwal and Y N Singh, Unconstrained Face Recognition using Deep Convolution Neural Network, International Journal of Information and Computer Security, 2019, DOI
- A.K. Shukla, Ankit kumar, Avneesh Tiwari, Tauqeer Alam, “Carbon Footprint of solid Waste in Lucknow, India”, International Journal of Technical Innovation in Modern Engineering & Science, 2019.
- Adarsh Kumar Tiwari, Shubham Shrivastava, Kamal Singh, D Kishan, evaluation of strength characteristics of pavement quality concrete mixes using ekosoil, international research journal of engineering and technology, 2019, doi : e-issn:2395-0056
- A.K. Shukla, Ankit kumar, Avneesh Tiwari, Tauqeer Alam, Control of Odour, Volatile Organic Compounds (VOCs) & Toxic Gases Through Bio-filtration An-Overview, International Journal of Technical Innovation in Modern Engineering & Science, 2019.

- Nandita Dasgupta, Shivendu Ranjan, Chidambaram Ramalingam, Mansi Gandhi, Silver nanoparticles engineered by thermal co-reduction approach induces liver damage in Wistar rats: acute and sub-chronic toxicity analysis, 3 Biotech, 2019, DOI : 10.1007/s13205-019-1651-6
- Nandita Dasgupta, Shivendu Ranjan, Mansi Gandhi, Nano emulsions in food: market demand, Environmental Chemistry Letters, 2019, DOI : 10.1007/s10311-019-00856-2
- R. P. Ram, A. K. Dhiman, R. P. Bharti , Non-Newtonian power-law fluid's thermal characteristics across periodic array of circular cylinders, Brazilian Society of Mechanical Sciences and Engineering, in press, 2019, DOI : 10.1007/s40430-019-1584-3
- Upadhyay E, Almass M, Ahmad A, Dasgupta N, Rahman S, Kim J, Datta M, Assessment of Occupational Health Hazards Due to Particulate Matter Originated from Spices, Int J Environ Res Public Health, 2019, DOI : 10.3390/ijerph16091519
- Walia N, Dasgupta N, Ranjan S, Chidambaram R, Gandhi M , Methods for nanoemulsion and nanoencapsulation of food bioactives, Environmental Chemistry Letters, 2019, DOI : 10.1007/s10311-019-00886
- Rashid Jamal, Indra Kumar Singh, Vinay Kumar, Aishwarya Chandel, Rajiv Kumar Singh, Introduction to Multiphysics Simulation for Integrated PCB Design, J. Mechatronics & Automation, vol. 6, Issue 1, pp. 31-36, 2019. ISSN: 2455-1988, 2019.
- Vikas Verma, Bharti Dwivedi, Satyendra Singh, Gaurav Kumar, A Novel Approach to Study Electrical, Mechanical and Hydraulic Activities of Heart and Their Coordination Based on ECG and PCG, "Journal of Applied Engineering and Research, 2019.

2018

- A.K.Shukla, Ajay kumar Vasanwal, Study Of Noise Exposure Level (Annoyance) And Noise Parametre At Diwali Festival In Metropolitan City: Lucknow, India, Journal of Emerging Technologies and Innovation Research, 2018.
- Parul Yadav, Manish Gaur, A Process Calculi for Intrusion Detection System in Mobile Ad-hoc Networks, Journal of Communications, 2018.
- Sharma, A.K., Tiwari, A.K., Dixit, A.R., Prediction of temperature distribution over cutting tool with alumina-MWCNT hybrid nanofluid using computational fluid dynamics (CFD) analysis., International Journal of Advanced Manufacturing and Technology. Publisher: Springer-SCI. Impact factor: 2.209., 2018.

- Shubham Tiwari, Bharti Dwivedi and M.P Dave, Optimized Generation Scheduling of Thermal Generators Integrated to Wind Energy System with Storage, International Journal of Renewable Energy Research, 2018.
- S.Sharma, Tiwari A.K. Tiwari S, Prakas R., Viscosity of hybrid nanofluids: Measurement and comparision., Journal of Mechanical Engineering and Sciences; Scopus., 2018.
- Parul Yadav, Manish Gaur, A Behavioural Theory for Intrusion Detection System in Mobile Ad- hoc Networks, Proc. Of the International Conference on High Performance Compilation, Computing and Communications, 2018, DOI : 10.1145/3195612.3195617
- Kumar V, Tiwari A.K., Ghosh S. K., Exergy analysis of hybrid nanofluids with optimum concentration in a plate heat exchanger., Materials Research Express-SCI., 2018.
- Singh, N., Pant, M., &Goel, A, ANN embedded data envelopment analysis approach for measuring the efficiency of state boards in India, International Journal of System Assurance Engineering and Management, Springer, 2018, DOI : <https://doi.org/10.1007/s13198-018-0743-8>.
- R.K. Singh, EM Analysis of RF Interaction Structures for Gyrotron Devices, VCAS 2018 Int. Conference on VLSI, Communication and Signal Processing, MNNIT Allahabad, Nov. 29 – Dec. 01, 2018, 2018.
- Amrita Singh, Manoj Kumar Jain, and Subodh Wairya, Novel Lossless Grounded and Floating Inductance Simulators Employing a Grounded Capacitor Based in CC-CFA, Journal of Circuits, Systems and Computers, World Scientific , 2018.
- Neha Tiwari, S.R.P.Sinha, , Design of High Gain and Large Voltage Swing Two Stage Miller Compensated CMOS Operational Amplifier, JETIR, Vol. 5, Issue 11, pp. 724-732, November 2018. , 2018.
- VermaS.K.,Tiwari A.K., Tiwari S., Chauhan D.S., Performance analysis of hybrid nanofluids in flat plate solar collector as an advanced working fluid., Solar Energy, Publisher: Elsevier-SCI. Impact factor: 4.018., 2018.
- R.K.Singh, Chandan Kumar Maurya, Ambient backscatter, Electronics for you, vol. 9, pp. 36-38, Sept. 2018, 2018.
- Shruti Pandey, Bharti Dwivedi, Anurag Tripathi, Performance analysis of supercapacitor integrated PV fed multistage converter with SMC controlled VSI for different load conditions, International Journal of Power Electronics and Drive Systems, 2018.

- Raj Vikram Singh, Subodh Wairya, Rakesh Kumar Singh and Harsh Vikram Singh, Robust watermarking using genetic algorithm in DCT domain, International conference on New Technological Opportunities in Networking and Science (NEWTONS), June 2018.
- A.K.Shukla, Sudhanshu Bhushan, Development of Noise map using GIS for Lucknow Metropolis, International Conference on Infrastructure and development, 2018.
- S. Kidwai and S. Wairya , Study of QCA based Digital Logic Circuits to be used in Nanotechnology, Global Journal of Engineering Science and Researches , 2018.
- R.K.Singh, EM radiation from cell towers and mitigation techniques, J. of Telecommunications, 2018.
- Anubhav Mishra, Rajeev Kumar, Arun Mittal, A study on leak tightness of composite sleeves butt joints, Int J MechEngg& Tech, 2018.
- Ahmad, Tiwari A.K., Effect of Inclination Angle in Performance Evaluation of Heat Pipe with Zinc Oxide Nanofluid, International journal of Mechanical Engineering& Technology, Scopus, 2018.
- Satnam S, Ranjan S, Dasgupta N, Chidambaram R, Nanotechnology in Functional Foods and Their Packaging, Nanobiotechnology Human Health and the Environment, 2018, DOI : 10.1201/9781351031585-12.
- A.K.Shukla, Sudhanshu Bhushan, Study Of Noise Pollution Level Using Noise Indices in the Study Of City Of Lucknow, Uttar Pradesh, India, Journal of Emerging Technologies and Innovation Research, 2018.
- Meghani N, Patel P, Kansara K, Ranjan S, Dasgupta N, Chidambaram R, Kumar A , Formulation of vitamin D encapsulated cinnamon oil nanoemulsion: Its potential anti-cancerous activity in human alveolar carcinoma cells, Colloids and Surfaces B: Biointerfaces, 2018, DOI : 10.1016/j.colsurfb.2018.03.041
- Aman Kumar, Tiwari A.K., Sinha S., Energetic and Exergetic Performance of Plate Heat Exchanger, International journal of Mechanical Engineering & Technology, Scopus, 2018.
- Raj Vikram Singh, Subodh Waria, R.K. Singh, Harsh Vikram Singh, Robust Watermarking using Genetic Algorithm in DCT Domain, Int. J. of Engg. & Tech., 7, 3.12, 1202 -1204, 2018.

- A.K.Shukla , Rajeev Upadhyay, Assessment Of Auditory And Non Auditory Impact Of Noise In Hospitals And Mitigation Measures To Provide Sustainable Hospital Environment, Journal of Emerging Technologies and Innovation Research, 2018.
- Asha Ram Gairola, Vishnu Narayan Mishra, Karunesh Kumar Singh,, A Kantorovich Type Integral Modification of q - Bernstein-Schurer Operators, Filomat, 32, 2018, 1335–1348, 2018.
- Singh, N., &Goyal, S. ,Determination and Segmentation of Brain Tumor Using Threshold Segmentation with Morphological Operations, Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, Springer, Singapore, 2018, DOI : https://doi.org/10.1007/978-981-10-5699-4_68
- Sheel A.D., Tiwari A.K., Sinha S., Analysis of Parabolic Trough Solar Collector Using TiO₂ /Water Nanofluid, International journal of Mechanical Engineering & Technology, Scopus, 2018,
- Raj Vikram Singh, Subodh Waria, R. K. Singh and Harsh Vikram Singh, Robust Watermarking using Genetic Algorithm in DCT Domain, International Conference on New Technological Opportunities in Networking and Sciences, , SIT Pithoragarh, 8-10 June 2018., 2018.
- Aditi J, Ranjan S, Dasgupta N, Chidambaram R , Nanomaterials in food and Agriculture: an overview on their safety concerns and regulatory issues, Critical Reviews in Food Science and Nutrition, 2018, DOI : 10.1080/10408398.2016.1160363
- Satnam S, Ranjan S, Dasgupta N, Chidambaram R, Nanotechnology in Functional Foods and Their Packaging, Nanobiotechnology Human Health and the Environment, 2018, DOI : 10.1201/9781351031585-12
- R.K.Singh, EM Analysis of Wideband Disc-Loaded Gyro-TWT, 2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer Engineering UPCON, MMMUT Gorakhpur, UP IEEE Conference Record Number: 43684, 2-4 Nov 2018, pp. 1-6., 2018, DOI : 10.1109/UPCON.2018.8597042.
- Aman Kumar, Tiwari A.K., Sinha S., Energetic and Exergetic Performance of Plate Heat Exchanger, International journal of Mechanical Engineering & Technology, Scopus, 2018.
- R.K.Singh, Large Signal Analysis of a Tapered Disc-Loaded Gyro-TWT, 2018 5th IEEE Uttar Pradesh Section International Conference on Electrical, Electronics and Computer

Engineering UPCON, MMMUT Gorakhpur, UP IEEE Conference Record Number: 43684, 2-4 Nov 2018, pp. 1-6, 2018, DOI : 10.1109/UPCON.2018.8596922.

- A.K.Shukla , Rajeev Upadhyay, Assessment Of Auditory And Non Auditory Impact Of Noise In Hospitals And Mitigation Measures To Provide Sustainable Hospital Environment, Journal of Emerging Technologies and Innvation Research, 2018.
- Ranjan S, Dasgupta N, Sudandiradoss C, Ramalingam C, Kumar A , Titanium dioxide nanoparticle-protein interaction explained by docking approach, International Journal of Nanomedicine, 2018, DOI : 10.2147/IJN.S125008.
- S. Kidwai, D.Tripathi and S. Wairya, Design of Full Adder with Self Checking Capability using Quantum Dot Cellular Automata, International Conference on VLSI, Communication and Signal Processing VCAS 2018 MNNIT Allahabad, pp. 1-11,Nov. 2018, 2018.
- Singh R.K., Sharma A.K., Dixit A.R., Tiwari A.K., Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants, International Journal of Surface Science and Engineering, Publisher: Inderscience-SCI, Impact factor: 1.377., 2018
- Singh, N., & Pant, M., Evaluating the efficiency of higher secondary education state boards in India: a DEA-ANN approach, Intelligent Systems Design and Applications. ISDA 2017. Advances in Intelligent Systems and Computing, Springer, Cham, 2018, DOI : https://doi.org/10.1007/978-3-319-76348-4_90
- Savitri Joshi, K K Jose, Wrapped Lindley Distribution, Communication in Statistics: Theory and Methods, 2018, DOI : 10.1080/03610926.2017.1280168
- Prabal Gupta, R. K. Singh, Balpreet Singh, B. Arun Kumar, PAPR Performance Analysis of SLM with Hadamard Matrix based Phase Sequence under M-PSK Modulation for Diminishing PAPR of OFDM System, 2nd International Conference on Intelligent Circuits and Systems ICICS 2018, LPU, Punjab, 20-21 April, 2018., 2018.
- Gupta N.K., Tiwari A.K., Ghosh S.K, Experimental study of thermal performance of nanofluid-filled and nanoparticles-coated mesh wick heat pipes., Journal of Heat Transfer, Transactions of ASME-SCI., 2018.
- Verma S.K.,Tiwari A.K., Tripathi M., An evaluative observation on impact of optical properties of nanofluids in performance of photo-thermal concentrating systems., Publisher: Elsevier-SCI. Impact factor: 4.018., 2018

Training Programmes held for Teachers and Staff

Training category name	Training mode	Title of training	Sponsored by	Training venue with location
Subject domain	FDP	Recent trends in high frequency devices and applications (RTHFDA)	TEQIP -III	Department of Electronics Engineering, IET, Lucknow
Subject Domain	FDP	IPR, Entrepreneurship, and Innovation (IPREI-19)	TEQIP-III	Deptt of Electronics Engineering, IET, Lucknow
Value Education	FDP	Universal Human Values and Professional Ethics	AKTU UHV Cell	IET, Lucknow
Subject Domain	FDP	Advances In Microwave Engineering (AME-19)	AKTU-AICTE	Deptt. of Electronics Engg, IET, Lucknow

Dean Student Welfare Report for 2018-19

Dean Student welfare (D.S.W.) is an essential department of the institute looking after the welfare about the students. Department issues identity card to the first year students of all the courses running in the Institute every year and also the other required documents like character certificate, migration etc. to the students as and when required. DSW is also equipped with the task to allocate elective courses to students based on their choice and also the implementation of proper time table of classes.

The most important work of the department is to provide facility to the students to fill up online UP post-matric scholarship forms as per guidelines provided by category-wise respective government departments. The department verify and forward the online

scholarship forms of the students to the respective departments, who are eligible for UP post-matric scholarship as per guidelines provided by them and send the hardcopy of relevant documents (self-attested photocopy) to Samaj Kalyan Vibhag, Lucknow, Uttar Pradesh required by them.

Students who have applied in UP Scholarship for the session 2018-19

Category				
	General	OBC	SC/ST	Minority
Total Students	465	571	SC-204 S.T -18	92

Students who received Scholarship for the session 2018-19

Category				
	General	OBC	SC/ST	Minority
*Total Students	464	541	S.C- 200 S.T- 17	91

GATE Qualified Students Data

The Institute has been providing the facility for in-house training of the third year and final year students by a NPIU empanelled training agency and fully funded by TEQIP-III. The training was provided free of cost to students after the teaching hours in the Institute. The GATE registration fees of the students was also reimbursed by TEQIP-III cell and the total reimbursement amount was approximately Rs. 3,70,000/-.

The GATE results of the IET Lucknow have always been exemplary and this year also the students of the institute have performed exceedingly well in the GATE 2019. Out of the 346 final year students applying for the exam, 223 have qualified with good ranks and the percentage of qualifying students is 64.45%. The branch wise summary is given below.

S.NO	Department Name	Total No of students	Applied for GATE 2019	GATE 2019 Qualified
1	Mechanical Engineering	65	49	38
2	Electronics & Communication Engineering	60	40	29
3	Electrical Engineering	66	50	27
4	Computer Science & Engineering	69	34	22
5	Chemical Engineering	64	57	34
6	Information Technology	63	26	12
7	Civil Engineering	63	53	34
8	Electronics & Instrumentation Engineering	49	37	27
TOTAL		499	346	223

Start-ups and Innovations

- Students of the institute attended the **Start-up Yatra Event** organized at Shri Ramswaroop Memorial College, Lucknow to make the students aware about the Start-up ideas and practices.
- Start-up Committee members attended a two-day workshop organized by NPIU on **‘Start-up Activities & Preparation of Action Plan’** at ‘AKTU, Lucknow’. A **Micro Action plan** has been submitted by the Start-up committee.
- To find target students for startup activities, which have appropriate enterprising tendency, a **General Enterprising Tendency (GET) Test** has been conducted for all the students of the Institute. Total **1039 students** have participated in the test
- Start-up Committee, IET Lucknow has organized a **workshop on “Getting Started with Startup”** to promote the innovations and entrepreneurship among the students and alumnus of IET Lucknow and other engineering institutes of Uttar Pradesh. The workshop was funded by Technical Education Quality Improvement Programme-III (TEQIP-III) and supported by K-CIIS, AKTU (Kalam Centre for Innovation and Incubation of Startup, Dr. A.P.J. Abdul Kalam Technical University) and conducted at Institute of Engineering & Technology Lucknow.
- Along with the above workshop, an **idea pitching competition** was also conducted on same date and place. From fifteen teams, ten were selected for pitching their ideas in front of experts. Three winners were declared from these ten teams. These winners were given opportunity to present their ideas on Investors’ Summit, organized by K-CIIS at Noida, U.P. First **Winner team** was Smart Group India from SRIMT, Lucknow. **First Runner-up team** was UNEARGO from IET, Lucknow. Second Runner-up team Cultro Band was also from IET, Lucknow.
- Our faculty members, Dr. Satyendra Singh and Dr Pushkar Tripathi attended **“Startup Conclave 2018”** at ESIC, Hyderabad, held from 27/07/2018 to 29/07/2018.
- Applications were invited (last date 10 August 2018) from students of the institute for being part of the Startup Committee the institute. Where, students having high score in GET has been encouraged to participate.

- After analysing applications received from students, interviews have been held on 22 August 2018. From interviews, core **team of four student members** is **formed** and two members are attached to each member of the core team. Additionally, six members are associated with Chairman Startup Committee.
- Panel Discussion on “*Shouldn’t you start a startup when you are a student?*” has been organized on 29th September 2018. Three expert panellists have motivated students for attempting to start their startup. Two panellists are from well reputed incubation centres (CIE, IIIT Hyderabad and dLabs, ISB Hyderabad), and another is CEO of CEO, Dr. A.P.J. Abdul Kalam Centre. Approximately 100 students participated in the event.

Linkage with Industry

Sl. No.	Activity (Expert Lecture / Invited Talks/FDP/Workshop/Conference s/ Any other Activity undertaken)	Title	Duration	Organiser/s
1	Expert Lecture - Safal Kapoor Game Designer – Miniclips Games Lisbon, Portugal	Getting your footsteps into the Gaming Industry	2 Hours	Dr Arun Kumar Tiwari, Deptt. of Mech. Engg.
2	Invited Talk - Mr Shashikant Katiyar Intel Corp, USA Mrs Pooja Bhat, IDAS, Civil Services	Alumni Speaks 1.0	3 Hours	Dr Arun Kumar Tiwari, Deptt of Mech. Engg.
3	Expert Lecture by T N Kaushal , Ex- IFS, IRS & SDM	Career Challenges and Opportunities in UPSC for Engineering Students	2 Hours	Dr. Arunima Verma, Deptt. of Electrical Engg.

Campus Placement

IET draws on a reserve of extraordinary talent as a by-product of its selective & stringent UPSEE exam and has an acceptance rate of less than 0.32 %. Our students strive for excellence and have been consistently maintaining excellent results in academics, co-curricular activities, placement records, and competitions of National importance.

The Placement Office is responsible for campus placement at IET Lucknow. The Placement-in-Charge, the Deputy In-charge, the Placement Office staff and the student representatives handle various crucial tasks in the office like reaching out to companies, scheduling & executing placement related activities and carrying out all official communication with recruiters and with students. The team strives to strike a match between recruiter expectations and student aspirations. The team of student representatives consists of the Placement Managers who coordinate the activities of the other student members and ensure compliance with various Institute policies;



Placement Cell

Company Coordinators who execute coordination with the recruiting organizations; and Department Placement Coordinators who steer student preparedness and employability enhancement initiatives. The Placement Office is well-equipped with excellent infrastructure to support every stage of the placement process.

RECRUITERS



Collaborative Activities

Institute has been recognized as an ACTIVE Local Chapter of NPTEL.

<u>Course Duration</u>	<u>Present</u>	<u>Gold</u>	<u>Elite</u>	<u>Silver</u>	<u>Successful</u>	<u>Participation</u>	<u>Topper</u>
<u>Jan-Apr 2019</u>	130	14	37	62	16	1	23
<u>Jul-Oct 2018</u>	83	10	59	0	12	2	17

SWAYAM and SWAYAMPRAKHA: Infrastructure for telecasting of SwayamPrakha channels for faculty and students has been created in the institute. For this purpose, two 55'' LED Television sets along with DTH connections have been installed in two halls of the institute for the benefit of faculty and students. Further, a grant of Rs 2000 is being given to each faculty member for installation of DTH connection in the homes for accessing Swayam Prakha channel. The faculty members are registering themselves on the Swayam portal and students are instructed to register themselves on the portal.

Value Education Programme

In the month of December, the value education cell of IET successfully organized an eight days workshop for training of faculty mentors for conduction of Induction programme for the students. The workshop was attended by 40 participants including 10 faculty members from IET Lucknow. Eight days induction programme for the first year students was conducted in the Institute from 4th to 11th January 2018.

Student's Internship

Three compulsory internships for the undergraduate students have been planned during the summer vacation. TEQIP-III team along with I/C Training and Placement are also contacting different industries like TELCO, HAL, BSNL, L&T etc. which are nearby our institute for arranging internships for the Undergraduate as well as Postgraduate students.

Reengineering the campus

Infrastructural Growth

- The Institute has observed growth in the number of admissions of female candidates. To accommodate all undergraduate girls inside the campus, a newly constructed girl's hostel of student capacity 300 is ready for the allotment.
- Similarly, for the boys, a hostel is currently under construction. After completion of this hostel, Institute will be able to accommodate all the undergraduate male students inside the campus premise.
- Mechanical Engineering and Chemical Engineering departments are currently located in the buildings of Civil and Computer Science and Engineering departments respectively. The new buildings for these two departments are now under construction with an estimated cost of Rs. 34 Cr., which is likely to be completed within a year.
- A Sport Stadium with modern and standard facilities and a new multi-purpose hall is also under construction in the campus with the amenities for various indoor games such as Badminton, Basket Ball, Table Tennis, Squash, Billiards, Gymnasiums is likely to be completed within a year. Approximate cost of the project is Rs.45 Cr.

Laboratory Upgradation

IET Central Library now has a WEB OPAC as <http://library.ietlucknow.ac.in:8080> The Library now uses an Open Source Library Management System Koha. Students and Staff can search for Books online using [WebOPAC](#), can login using their @ietlucknow.ac.in E-Mail Account Credentials and view books issued to them etc.

Renovation of Lecture Theatre 11



Co-curricular Achievement



Societies/Clubs/Bodies/Chapter/Activities (2018-19)

PARMARTH : SOCIAL CLUB OF IET

Parmarth is the social club of IET Lucknow. This journey was started nearly four years back in Sept 2015 by some enthusiastic and young minds of IET College with a vision of upbringing the change. It was decided to use education as a tool for desired changes in their lives. Students of college started visiting nearby slums to visualise things and finally laid the foundation of a social club named PARMARTH. It mainly works for the education and empowerment of the underprivileged children of the slums near to the college campus. Parmarth has also a wing named POOJA, that totally aims of providing basic education, awareness and develop moral values to the Girls & Women of the slums. It also organises other events for the cause of Social Welfare like Clothes Distribution, Blood Donation Camps, Sanitation Campaigns etc. More than 200 student volunteers are currently working with 50+ core members of Team Parmarth, affecting several lives positively, presenting one of the best structures of a Team.

Work done by PARMARTH during 2018-19

The prime objective of club is to provide education to slum dwellers so that it can shape their lives. We educate more than 150 slum kids on a daily basis in the college's campus, making effective utilisation of college's infrastructure. Along with our prime motive of educating slum children, we have also organised certain events in Session 2018-19. They are as followed.

- Flag was hoisted in the Slum on 15th August, 2018, and patriotic pieces were made to



include the slum dwellers and to make them aware of our nation, it's pride and it's celebration of independence.

- The festival of Rakhi was celebrated by our volunteers with the slum kids where sisters tied Rakhi and Brothers gave them sweets and blessings.



Blood Donation Event was organised on 23rd September, 2018. A team of doctors was called from reputed hospital SGPGI in College campus and IETians donated their blood. Nearly 70 students from college donated their blood in this event.





- Marking the birth anniversary of Gandhiji, cleanliness drive was organised on 2nd October, 2018 in slum in which slum was cleaned thoroughly, and some kits were distributed to slum dwellers to ensure their participation in A Clean India.
- Going with tradition of VC house, Dr. Vandana Pathak celebrated 14th November, 2018 , special day of children with our kids in the college's auditorium.



- Parmarth organised its winter's cloth distribution event on 19th November, 2018, in which clothes were collected from them who have a plenty of it and distribute it among them who have its scarcity. Approximately 300 people were offered winter clothes in the college's campus.



- Flag was hoisted on 26th January, 2019 in the slum along with slum dwellers and Republic Day celebration was made in college campus. Bags to each child was distributed with help of our alumni Mr. Anjani Srivastava.



- With the help of Biotech students and faculty of college, Parmarth celebrated National Science Day on 28th February 2019 with its kids by different science related activities and different awareness pieces.



- In the summer edition of cloth distribution event, summer clothes were distributed among more than 350 slum dwellers, on 31st March 2019, which have been collected from students and faculties of the college.




- A tour of our kids was organised to the science city of Lucknow on 1st April, 2019, where they learned many new things and got golden opportunity to interact with outer world.



- Girl volunteers of the college organised Menstrual awareness campaign on 3rd May, 2019 in which they made women and girls of the slum aware about the menstrual hygiene and also distributed 4800 sanitary pads among them so that they can adopt it in practice.



In the Right to education scheme, PARMARTH team admitted 23 slum kids in private schools of Lucknow, making it a total of 115 students to get admitted in private schools till the date of 4th My, 2019.



Institute of Engineering & Technology, Lucknow
an Autonomous Constituent Institution of U.P. State Open Technical University, Lucknow & I.T.
 Skopur Road, Lucknow, Uttar Pradesh - 226021



परम्परा - SOCIAL CLUB OF IET

RTE ADMISSIONS (2019-20)

23 children of FARMHART get admissions in various private schools this year through RTE.

Details of Names of children, their Class & School are listed below:

S.N.	STUDENT	CLASS	SCHOOL
1	DAMINI	PRE PRIMARY	TAGORE MEMORIAL SC.
2	Ms. SHAHAJAZ	PRE PRIMARY	TAGORE MEMORIAL SC.
3	AKSHIKA	PRE PRIMARY	TAGORE MEMORIAL SC.
4	AADITY GAUTAM	PRE PRIMARY	TAGORE MEMORIAL SC.
5	RUJIVAN	PRE PRIMARY	TAGORE MEMORIAL SC.
6	KRISHNA	PRE PRIMARY	TAGORE MEMORIAL SC.
7	SANIYA BANO	1	TAGORE MEMORIAL SC.
8	MANSHI	1	TAGORE MEMORIAL SC.
9	RAM RAJESH	1	TAGORE MEMORIAL SC.
10	ANJLI	1	TAGORE MEMORIAL SC.
11	KRISHNA GAUTAM	1	TAGORE MEMORIAL SC.
12	KAMINI	PRE PRIMARY	SEVENSEAI PUB SCH AZIZ NAGAR
13	RAASHI	PRE PRIMARY	SEVENSEAI PUB SCH AZIZ NAGAR
14	ALFA	PRE PRIMARY	M.L.M MON ACH SEC STP ROAD LKO
15	ADARSH KUMAR	PRE PRIMARY	M.L.M MON ACH SEC STP ROAD LKO
16	ADARSH KUMAR	PRE PRIMARY	M.L.M MON ACH SEC STP ROAD LKO
17	SANDEEP	1	M.L.M MON ACH SEC STP ROAD LKO
18	NISHA	PRE PRIMARY	VINHYATYACHAL DEV JR. HIGH SC.
19	SHIV RAO	PRE PRIMARY	VINHYATYACHAL DEV JR. HIGH SC.
20	DIVYANSH	PRE PRIMARY	VINHYATYACHAL DEV JR. HIGH SC.
21	SANIYA	PRE PRIMARY	VINHYATYACHAL DEV JR. HIGH SC.
22	NEW B W MANAND D	10-10 SEC I	ALIGANJ LKO
23	DHRUV	1	NEW B W MANAND D-10 SEC I ALIGANJ LKO

Gmail: ietfarmhart@gmail.com

-Contact us-

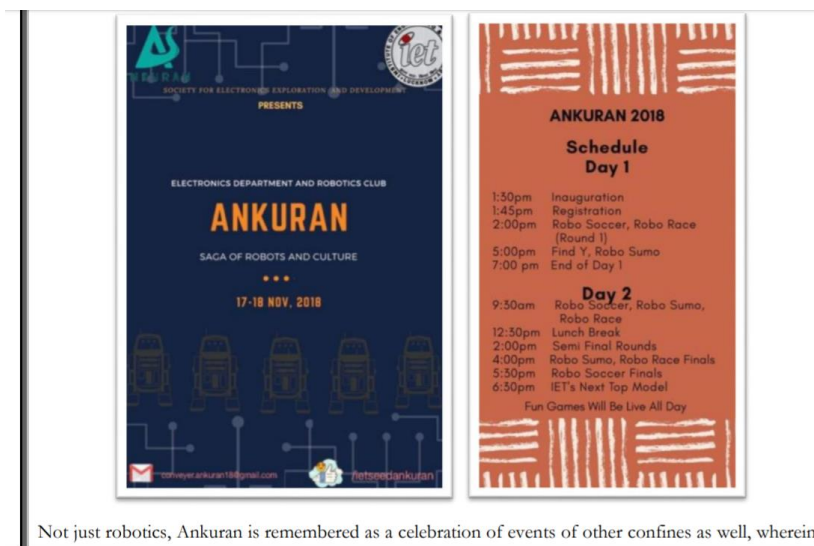
Facebook page: fb.me/jagatfarmhart

- A medical camp was organised on 7th May, 2019 in the slum with the help of doctors from KGMU and Common Health Centre, Jankipuram to stop the spread of fatal Chicken pox in the slum, which got success in its motive.



Magazines/Newsletter

- Electrical department publishes Electrical Digest magazine, which is an annual publication. OORJA is the bimonthly newsletter by Electrical department.
- Robotics Club Magazine is an annual publication of Electronics Department.
- Department of computer science & engineering publishes half yearly technical magazine KRITIZINE.

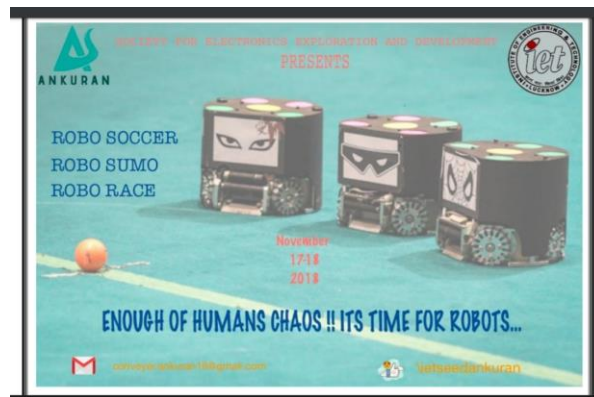


Awards/Prizes won by Students

Technical Club

The collegiate club of SAE IET Lucknow took shape in August-September 2015. It was due to the vision and support of from Mechanical Department, IET, Lucknow. SAE IET Lucknow consists of over 50 students from Mechanical, Electrical and Electronics and Communication Engineering department. During 2018-19, IET team under the name of **‘Team EQUINOX’** participated in SKDC session 2 held by SMAE in Hyderabad in September 2019. The overall rank is 23rd and in virtual 5th rank. In Entrepreneurship plan it got 1st rank.

The Emphyreans team from IET participated in Go Kart Design challenge-6 held in Greater Noida Buddha international circuit and Galgotia University in 2018-19. The Emphyreans got 1st rank in Skid pad test, 1st rank in Endurance, 1st rank in Dissasm, Best female participants from the team and Overall champion. This is the best performance of any team under SAEINDIA COLLEGIATE CLUB, IET LUCKNOW.



Excelsior (Literary Club)

The club is home to the students having a passion for literature, debating, poetry writing, creative writing, elocution etcetera; to showcase talent. It is largely viewed as a unique platform to all the literary enthusiasts in IET Lucknow.

Whiteboard (Student Media Body)

www.ietwhiteboard.com is the student media body of college. IET Whiteboard covers all the events, activities and issues inside the college; acts as a bridge between Faculties, students, alumni and other stakeholders of IET.

Other Activities

Students here at the Electronics Department, are not only imparted academic knowledge, but also virtues of selflessness, sharing and support. Owing to which, the third and second year students conducted a 45-days workshop from 20 January 2019 to 5th March 2019, for the first year students, sharing their practical approach, experience and adeptness in much relevant topics such as-

- Manual Robot
- Autonomous Robot
- Embedded Systems
- RC Plane (Aeromodelling)
- Robot Operating System
- Internet of Things

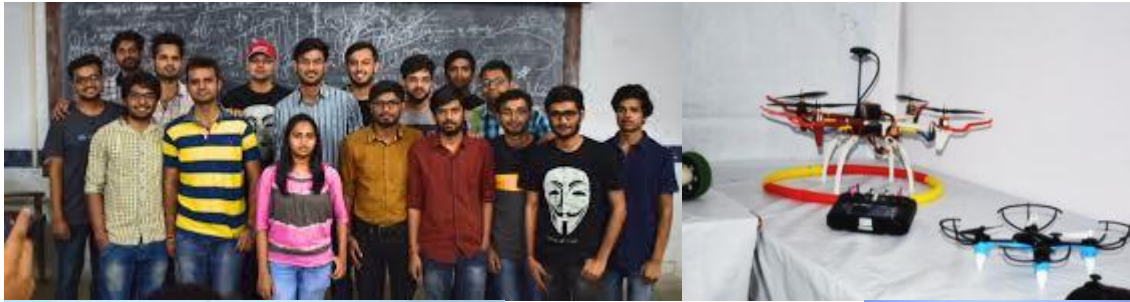
- Artificial Intelligence

This led to the students building self-designed, self-constructed robots for various technical contests on both intra and inter-college levels.

Smart India Hackathon 2019

The smart India Hackathon 2019 (www.sih.gov.in) Software edition took place in 48 nodal centres across the country in March 2019. A total of 1100 teams participated from all parts of the country out of which **5 teams were from Institute of Engineering and Technology Lucknow**. The teams took in their hands the task to solve various industrial problem statements. **Team IET from Electronics and Communication Engineering Department developed an android application for Indian languages to sign language conversion and help bridge the gap between deaf and dumb community and us. The app is multilingual and can convert more than 10 Indian languages to sign language.** The teams trained an open NLP model in Hindi, integrated it with the android application and secured first position in their nodal center Manipal Institute of Technology. Team IET members from Electronics and Communication Engineering Department: Harsh Jain, Shruti Joshi, Jyotsna Sharma, Shivendu Yadav, Nitin Siani, Paras Gupta.

Winner of final round of Smart India Hackathon conducted by Govt. of India in the initial phases of 2019. Multiple teams participated in the final round to the competition with one team of our third-year students standing out and emerging victorious at the national level.



Techshots of Industrial Visits



Financial Information

Total Income in CFY:			Actual expenditure in CFY (till 31.03.2019):			Total No. of students in CFY: 2545
Fee	U.P. Govt. Grant(s)	Other Sources (specify)	Recurring including Salaries	Non-recurring	Special Projects/Any other, Specify	Expenditure per student
18,86,89	4235	NIL	24,93,23	NIL	NIL	1,44.75442

Total Income from Fees/Consultancy and all other Sources	University Fund (To IET) (as per demand)	Total Expenditure	Percentage Utilization of available Fund
222432	4215	(-) 249323	100%

[illegible]

तकनीकी-व्यावसायिक शिक्षा को संस्कार से जोड़ना जरूरी

अमर उजाला ब्यूरो

लखनऊ। मानवीय शिक्षा संस्कार संस्थान, कानपुर के गणेश बस्तरिया ने कहा है कि आज हमारा समाज विभिन्न उद्देश्यों के साथ जी रहा है, जो एक भीड़ या युद्ध के मैदान जैसा दिखाई देता है। जबकि एक शिष्ट समाज की परिकल्पना समान उद्देश्यों के साथ जीने से पूरी हो सकती है। इसके लिए तकनीकी व व्यावसायिक शिक्षा के साथ मानवीय शिक्षा व संस्कार को भी जोड़ने की जरूरत है।

इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (आईईटी) में यूनिवर्सल ह्यूमन

आईईटी में मानवीय मूल्यों पर तीन दिवसीय राष्ट्रीय कार्यशाला शुरू



वैल्यूज इन हायर एजुकेशन विषयक तीन दिवसीय राष्ट्रीय सम्मेलन के उद्घाटन सत्र में उन्होंने कहा कि आज समस्या से मुक्ति के

लिए मानवीय प्रयासों की आवश्यकता है। मुख्य अतिथि सचिव प्राथमिक शिक्षा भूयुक्त कुमार ने कहा कि मूल्य शिक्षा पढ़ाने वाले

शिक्षक पहले खुद में जीकर अनुभव करें, उसके आधार पर बच्चों को इस दिशा में मार्गदर्शन करें। तभी इस पाठ्यक्रम की सफलता सुनिश्चित होगी। राजेश तकनीकी विश्वविद्यालय के सचिव अस्थाना ने कहा कि आज की शिक्षा मुख्यतः कौशल विकास आधारित हो गई है। एकटीय कुलपति प्रो. विनय कुमार पाठक ने कहा कि मूल्य शिक्षा प्राप्त किया हुआ शिक्षक आज कॉलेजों में अधिक गंभीरता के साथ अपनी जिम्मेदारियों का निर्वहन कर रहा है, जो इस विषय की सफलता का द्योतक है।

एकटीय के डीन यूजी प्रो. विनीत कंसल ने प्रस्तावना रखी। इस अवसर पर डॉ. उपासना मिश्रा, एकटीय के डीन पीजी प्रो. केवी आर्य, एचबीटीयू की डॉ. रचना अस्थाना आदि उपस्थित थे।

कलाम सेंटर फॉर इनोवेशन एंड इनव्यूबेशन ऑफ स्टार्टअप के तहत विद्यार्थियों ने तैयार किए स्पास मॉडल, स्मार्ट हेलमेट से मिलेगी एक्सीडेंट की सूचना

शराब पीकर गाड़ी चलाई तो पुलिस के पास जाएगा मौसेज

लखनऊ। कारालय लगादाला

अगर आपने शराब पीकर कार चलाई तो नजदीकी पुलिस स्टेशन पर मौसेज पहुंच जाएगा, बाइक ओवरसीड होई तो घरवालों को और यदि बाइक का एक्सीडेंट हुआ तो नजदीकी अस्पताल को इसकी जानकारी मिल जाएगी। इससे समय पर इलाज भूँखा की संकेता। ऐसी ही एक डिवाइस च एक स्मार्ट हेलमेट डॉ. एपीजे अहमद कलाम प्राथमिक शिक्षा विभाग के संयुक्त संस्थाओं के छात्रों ने बनाए हैं। ये मॉडल कलाम सेंटर फॉर इनोवेशन एंड इनव्यूबेशन ऑफ स्टार्टअप के तहत तैयार किए गए हैं। कानपुर निवासी आधुनिक तैयार ने पीएसआईटी कानपुर से इसी वर्ष

बीटेक (इलेक्ट्रॉनिक्स एंड कम्प्यूटेशन) पास किया है। आधुनिक ने एक डिवाइस तैयार की है। ये डिवाइस सेंसर से लैस है। आधुनिक ने बताया कि डिवाइस में जीपीएस भी है। इसे कार की स्टेयरिंग में फिट किया जा सकता है। जब कोई शराब पीकर कार चलाएगा तो शराब की गंध से डिवाइस एक्टिवेट हो जाएगी। उसके बाद एक तेज अलार्म बजनेगा और फिर नजदीकी पुलिस स्टेशन के पास कार की लोकेशन व कार का नंबर सेंसर के जरिए पहुंच जाएगा। इसके जरिए कार को आसानी से ट्रैक किया जा सकेगा।

आधुनिक तकनीकी से लैस है हेल्मेट। प्रोफेसर एंस्टीट्यूट के शिवम यादव ने उनकी टीम ने एक आधुनिक तकनीकी से लैस हेलमेट



आधुनिक डिवाइस



यह डिवाइस पुलिस को भेजेगी वीडियो तैयार किया है। शिवम ने बताया कि हेलमेट में ब्लूटूथ कनेक्टिविटी उपलब्ध है। ऐसे में बाइक चलाते



शिवम यादव



स्मार्ट हेलमेट में जीपीएस इन्स्टॉल है वक्त कॉलिंग कर सकते हैं। इसके साथ ही जीपीएस भी इन्स्टॉल है। इससे आसानी से किसी की भी रिबल

इनोवेटिव आईडियाज को मिली पहचान

कलाम सेंटर फॉर इनोवेशन एंड इनव्यूबेशन ऑफ स्टार्टअप के सचिव कलम सिंह ने बताया कि कुछ दिन पहले इनोवेटिव गैलरी कार्यक्रम चलाया गया था। इसमें प्रदेश भर के इंजीनियरिंग के छात्रों ने अपने-अपने आईडियाज प्रस्तुत किए थे। अखिर में कुछ आईडियाज का चयन कर उन्होंने 12-13 हजार रुपए दिए गए थे। साथ ही अन्य संसाधन उपलब्ध कराए थे। इसी के तहत ये आधुनिक मॉडल तैयार किए गए हैं।

छात्रों ने इनोवेटिव मॉडल में काफी प्रेरणा ली है। विवि की इनोवेटिव सेल इसी तरह से आगे भी कार्यक्रमों का आयोजन करती रहेगी। इससे छात्रों को खुद की प्रतिभा प्रदर्शित करने का मौका मिलता है। प्रो. विनय कुमार पाठक, एकटीय कुलपति

टाइम लोकेशन भी भेजी जा सकेगी।

शिवम ने बताया कि सबसे खास यह है कि इसमें एक सेंसर लगाया है जो इसकी जानकारी डिवाइस के जरिए डिजिटल फॉर्म में पहुंच जाएगा। यह जानकारी एक अलर्ट

की तरह होगी। इसके अलावा हेलमेट में एक कैमरा भी है। जो सड़क के काले-सफेद रंगों को भी देख सकता है। शिवम की टीम में पंडित, सती सिंह और रविश कुमार भी शामिल हैं।