

# ANNUAL PROGRESS REPORT 2019-20

## Institute of Engineering & Technology, Lucknow



Formally inaugurated with the entry of first batch  
in August 1984 - The institute has grown from  
Strength to Strength.



## 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

## **Background of the College with Vision, Mission and Objectives**

Institute of Engineering and Technology (IET), 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 (AKTU), 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.

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.

The Campus was developed by Uttar Pradesh Rajkiya Nirman Nigam Ltd (UPRNN) on a 100-acre (0.40 km<sup>2</sup>) land provided by the government of Uttar Pradesh. 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.

The institute was formerly affiliated to the University of Lucknow from year 1984 till 1999. It got affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow in the year 2000. Currently Institute is a constituent college of Dr. A.P.J. Abdul Kalam Technical University, Lucknow since 2008 and is recognized by AICTE.

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 presently being 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 counseling.

## **Vision of the Institute**

To effectively contribute towards the national endeavor 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.

## **Mission of the Institute**

**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 instill problem-solving skills for overcoming real life challenges by imparting values based professional education.


**INSTITUTE OF ENGINEERING & TECHNOLOGY, SITAPUR ROAD, LUCKNOW**

**Academic Calendar**

**Academic Session 2019-20**

Activity	Dates	
	Odd Semester	Even Semester
	I <sup>st</sup> , III <sup>rd</sup> , V <sup>th</sup> and VII <sup>th</sup> Semester	II <sup>nd</sup> , IV <sup>th</sup> , VI <sup>th</sup> and VIII <sup>th</sup> Semester
Commencement of Semester	July 24, 2019	January 07, 2020
Registration of Students in B. Tech. I <sup>st</sup> year, MBA I <sup>st</sup> year, MCA I <sup>st</sup> year, B. Tech. II <sup>nd</sup> year (Lateral entry) and MCA II <sup>nd</sup> year (Lateral entry)	July 05- 29, 2019	January 07, 2020
Registration of Students in B. Tech. IV <sup>th</sup> year	July 24, 2019	January 07, 2020
Registration of Students in B. Tech. III <sup>rd</sup> year and MCA III <sup>rd</sup> year	July 25, 2019	January 07, 2020
Registration of Students in B. Tech. II <sup>nd</sup> year (except students directly admitted to II <sup>nd</sup> year in 2019), M. Tech. II <sup>nd</sup> year, MBA II <sup>nd</sup> year and MCA II <sup>nd</sup> year (except students directly admitted to II <sup>nd</sup> year in 2019) and Pre-Ph.D. Course work.	July 26, 2019	January 07, 2020
Induction Programme for New Students	August 01- 21, 2019	----
Registration of Pre- Ph.D. (for courses offered in M. Tech. I <sup>st</sup> year), M. Tech. I <sup>st</sup> year	July 31, 2019	January 07, 2020
Commencement of Classes	August 01, 2019	January 08, 2020
Filling of Enrollment forms of newly admitted students in hard copy	September 23- 28, 2019	----
I <sup>st</sup> Class Test	October 10-12, 2019	March 04- 07, 2020
Filling up of the examination forms for end semester examinations by the students	October 13-18, 2019	March 14- 19, 2020
Online Enrollment of the newly admitted students on AKTU website	As per AKTU schedule	--
Mid Semester Break	October 26-30, 2019	March 08- 15, 2020
Departmental Societies Function Week*	November 11-16, 2019	--
Sports /Cultural Meet	To be decided by Chairman ISSACC/Director	To be decided by Chairman ISSACC/Director
II <sup>nd</sup> Class Test	November 18-21, 2019	April 15-18, 2020
End Semester Theory & Practical Examinations	December 10- 30, 2019	May 01- 22, 2020
Winter/Summer vacation for Faculty & Students	December 31, 2019- January 06, 2020	May 23- July 19, 2020
Commencement of Odd semester for the session 2020-21		July 20, 2020

\* Departmental Societies Functions are to be conducted ONLY during this period. On working days, these Functions will be conducted after 04:30PM only.

  
 (Prof. Sanjay Srivastava)

## 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

### UG Programmes in Academic Session 2019-20

S · N o ·	Course/Program Name	Dur atio n (in Yea r)	Program Intake Strength in Academic Session 2019- 20				No of Registered Students in Session 2019- 20 on ERP				
			Intak e	F W	EW S	Later al (2 <sup>nd</sup> Yr)	1 <sup>st</sup> Yr	2 <sup>nd</sup> Yr	3 <sup>rd</sup> Yr	4 <sup>th</sup> Yr	Tot al
1	B. Tech. in Electrical Engineering	4	60	03	04	06	69	67	70	65	271
2	B. Tech. in Civil Engineering	4	60	03	04	06	68	68	71	74	281
3	B. Tech. in Electronics & Communication Eng. Engineering	4	60	03	04	06	69	67	69	67	272
4	B. Tech. in Mechanical Engineering	4	60	03	04	06	70	68	70	69	277
5	B. Tech. in Computer Science & Eng.	4	60	03	04	06	71	72	70	71	284
6	B. Tech. in Chemical Engineering	4	60	03	04	06	66	60	63	57	246
7	B. Tech. in Information Technology	4	60	03	04	06	65	69	68	61	263
8	B. Tech. in Electronics & Instrumentation Engineering	4	60	03	04	06	64	56	62	58	240
	<b>TOTAL</b>										<b>2134</b>

### PG Programmes in Academic Session 2019-20

S. No.	Course/Program Name	Dur atio n (in Yea r)	Program Intake Strength in Academic Session 2019-20 in First Yr and 2ndYr Lateral				No of Registered Students in Session 2019-20 on ERP			
			Intake	F W	EW S	Later al (2 <sup>nd</sup> Yr)	1 <sup>st</sup> Yr	2 <sup>nd</sup> Yr	3 <sup>rd</sup> Yr	Tota l
1	MCA	2	60	03	04	00	66	64	56	186
<b>1A</b>	<b>MCA</b>	3	60	03	04	06				0
2	MBA	2	60	03	04	00	65	56	NA	121
3	M. Tech. in Biotechnology	2	18	00	01	00	14	10	NA	24
4	M. Tech. in Environmental Engineering	2	18	00	01	00	19	18	NA	37
5	M. Tech. in Microelectronics Engineering	2	15	00	01	00	7	14	NA	21
6	M. Tech. in Structural Engineering	2	18	00	01	00	18	18	NA	36
7	M. Tech. in Mechanical Engineering	2	18	00	01	00	10	7	NA	17
8	M. Tech. in Electrical Drive and Control (admitted before Academic Session 2020-21)	2	18	00	01	00	13	8	NA	21
<b>8A</b>	<b>M. Tech. in Power and Energy System * (admitted from Academic Session 2020-21)</b>	2	18	00	01	00				0
	<b>TOTAL</b>									<b>463</b>

**Academic Year: 2019-20**

**B. Tech :** Sanctioned Intake/year: 480 + 24 (Fee Waver) + 48 (Lateral) + 32 (EWS),  
Actual strength (4 Yrs): 2135

**M. Tech :** Sanctioned Intake/year: 105 + 6 (EWS), Actual strength (2 Yrs): 156

**MBA:** Sanctioned Intake/year: 60 + 4 (EWS), Actual strength (2 Yrs): 121

**MCA:** Sanctioned Intake/year: 60+ 6(Lateral)+4(EWS),  
Actual strength (3 Yrs): 186

**Number of MTech Programmes: Six (6)**

Programme

Name of Programme	Sanctioned Intake	Actual Students
MTech , Biotechnology	18	14
MTech, Environmental Engineering	18	19
MTech, Micro-Electronics	15	06
MTech, Mechanical Engineering	18	10
MTech, Electric Drive & Control	18	13
MTech, Structural Engineering	18	18



## **PhD Programme:**

### **Homi Bhabha Research cum Teaching Assistant Fellowship scheme**

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).

#### **No of Students Admitted**

Name of Department/Programme	Admission 2019-20 Phase-I	Admission 2019-20 Phase-II	Total
Applied Science	1	0	1
Biotechnology	0	1	1
Civil Engineering	1	3	4
Computer Science & Engineering	1	1	2
Chemical Engineering	0	1	1
Electronics Engineering	1	2	3
Electrical Engineering	0	2	2
Mechanical Engineering	0	1	1

## Approval of NBA Accreditation in 2019-20

An Expert team conducted on-site evaluation of the programs from 27th to 29th September, 2019. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programs as given in the table below. Five B. Tech. programs have been accredited under Tier-I.

S. N.	NBA Accredited B. Tech. Programs under Tier-I	Period of accreditation
1	Electrical Engineering	Academic Year 2019-20, 2020-21 and 2021-22, i.e., up to 30/06/2022.
2	Civil Engineering	
3	Electronics & Communication Engineering	
4	Mechanical Engineering	
5	Computer Science & Engineering	

## Faculty Publications during the Academic Year 2019-20

### 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.

## Faculty Publication in 2020

- Deeksha Singh , Seethalekshmi K A Review on Various Virtual Inertia Techniques for Distributed Generation, International Conference on Electrical and Electronics Engineering , 2020,
- Shujaat Husain , Nitin Anand Shrivastava A Comparative Analysis of Multi-objective Optimization Algorithms for Stand-Alone Hybrid Renewable Energy System, International Conference on Innovative Mechanisms for Industry Applications , 2020, DOI : 10.1109/ICIMIA48430.2020.9074903
- Shubham Sharma , Sandeep Tiwari , Arun Kumar Tiwari , Gopal Nandan, Ravi Prakash [Thermal Performance Enhancement of Flat-Plate Solar Collector Using CeO<sub>2</sub>-Water Nanofluid](#), Advances in Solar Power Generation and Energy Harvesting, 2020, DOI : [https://doi.org/10.1007/978-981-15-3635-9\\_12](https://doi.org/10.1007/978-981-15-3635-9_12)

- Abhinav Kumar Gond , Er. Hans Pal , Mr. Sandeep Kumar Verma [A Review Paper On Conventional And Advanced Biological Nutrients Removal Techniques From Municipal Waste Water](#), Journal Of Engineering Science, Volume 11, Issue 05, May-2020, 2020, Doi : 10.15433/JES
- Vivek Kumar Tripathi , P.K. Jain , Rakesh Kumar , Deepak Kumar Yadav Unconfined Compressive strength of Black cotton soil mixed with cement and polypropylene fibre, International Journal for Research in Applied Science and Engineering Technology, 2020,
- Natthan Singh , Millie Pant [Efficiency assessment of Indian paper mills through fuzzy DEA](#), Journal Materials and Manufacturing Processes , 2020, DOI : <https://doi.org/10.1080/10426914.2019.1662034>
- Anuj Kumar Sharma , Arun Kumar Tiwari , Amit Rai Dixit , Rabesh Kumar Singh [Measurement of machining forces and surface roughness in turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid](#), Measurement, 2020, DOI : <https://doi.org/10.1016/j.measurement.2019.107078>
- Jitesh Singh , RCS Chauhan [An Assessment on Delay and Power in Sequential Circuits and Efficient Designing Architectures](#), International Journal of Emerging Technologies and Innovative Research(JETIR), 2020,
- Ms. Arika Singh , Dr. Hemant Ahuja , Dr. Vikas Bhadoria , Dr. Sachin Singh [Control Implementation of Squirrel Cage Induction Generator based Wind Energy Conversion System](#), Journal of Scientific & Industrial Research, 2020,
- Nikita Gupta , Stuti Shukla Dutta , Seethalekshmi K Wavelet based Real-Time Monitoring of Electrical Signals in Distributed Generation (DG) Integrated System, Engineering Science and Technology, an International Journal, Elsevier, 2020,
- Kapil Kumar Gupta , Namrata Dhanda , Upendra Kumar [A Noval Hybrid Method for Segmentation and Analysis of Brain MRI for Tumor Diagnosis](#), Advances in Science, Technology and Engineering Systems Journal, 2020, DOI : 10.25046/aj050303
- Ram Chandra Singh Chauhan , Arvind Kumar , Prateek Raj Gautam [Optical orthogonal code generation scheme and grouping of codes for optical CDMA systems](#), International Journal of System Assurance Engineering and Management, 2020,
- Natthan Singh , Millie Pant [Performance of Elementary Schools by Data Envelopment Analysis and Differential Evolution](#), Soft Computing: Theories and Applications. Advances in Intelligent Systems and Computing, Springer, Singapore, 2020, DOI : [https://doi.org/10.1007/978-981-15-0751-9\\_40](https://doi.org/10.1007/978-981-15-0751-9_40)
- Sujit Kumar Verma , Arun Kumar Tiwari [Application of Ag/H<sub>2</sub>O nanofluid in flat plate solar collector \(FPSC\) for heat transport performance analysis](#), Indian Society for Heat and Mass Transfer, 2020,
- Abrar Ahamad , Pradeep Kumar Effect of reinforcing ability of halloysite nanotubes in styrene-butadiene rubber nanocomposites, Composites Communications, 2020, DOI : <https://doi.org/10.1016/j.coco.2020.100440>
- Ravi Kumar , Ajay Kumar Sharma , Devendra Singh [Endurance Study Of A Single Cylinder Diesel Engine Using Jatropha Biodiesel](#), International Journal Of Scientific & Technology, 2020, DOI : 04/04/2020
- Ritika Saxena , Nitin Anand Shrivastava Optimization and Analysis of Stand-alone Hybrid Renewable Energy System, Conference, 2020, DOI : 10.1109/GCAT47503.2019.8978365

- Mohammed Reza Hajizadeh , Elham Abohamzeh , Arun Kumar Tiwari Discharging of PCM for ventilation system incorporating nanoparticles, Journal of Molecular Liquids, 2020, DOI : <https://doi.org/10.1016/j.molliq.2020.113696>
- AK Sethi , VK Dwivedi , Sudhanshu Sharma , AK Sharma [Thermal Modeling and Analysis of Double-Slope Solar Still](#), Springer, Singapore, 2020,
- Adarsh Kumar Tiwari , Shashwat Nagar , A. K. Shukla [Innovative Technologies for Construction of Rural Road Pavements using Local Resources](#), IJEAT, 2020, DOI : 10.35940/ijeat.E9989.069520
- Reoti Raman Mishra , Pushkar Tripathi [Recent Developments in PV-Static Synchronous Compensator](#), 2nd International Conference on Innovative Mechanisms for Industry Applications ICIMIA), 2020, DOI : <https://doi.org/10.1109/ICIMIA48430.2020.9074904>
- Anjali Rai , Madan Chandra Maurya Performance of bacterial concrete based on strength criteria, International Journal of Research and Analytical Reviews, 2020,
- Kapil Kumar Gupta , Namrata Dhanda , Upendra Kumar Depth Analysis of Different Medical Image Segmentation Techniques for Brain Tumor Detection, Advances in Bioinformatics, Multimedia, and Electronics Circuits and Signals. Advances in Intelligent Systems and Computing, 2020,
- Kuwar Mausam , Sumit Kumar , Subrata Kumar Ghosh , Arun Kumar Tiwari, Mudit Sehgal [Solicitation of nanoparticles/fluids in solar thermal energy harvesting: A review](#), Materials Today: Proceedings, 2020, DOI : <https://doi.org/10.1016/j.matpr.2020.02.495>
- Ms. Shivangi Upadhyay , Dr. Sachin Singh [Comparative analysis of different problem formulation for optimal capacitor allocation in distribution system](#), Proceedings of AECSS 2019, 2020, DOI : 10.1007/978-981-15-5262-5
- Saumya Singh , Dr. Jyoti Sarup , Dr. Vivek K Katare [Temporal Land Surface Temperature and its Effects on Built-up Areas using RS and GIS](#), International Research Journal Of Engineering And Technology, 2020,
- Naimish S. Pandya , Harshang Shah , Maysam Molana , Arun Kumar Tiwari [Heat transfer enhancement with nanofluids in plate heat exchangers: A comprehensive review](#), European Journal of Mechanics - B/Fluids, 2020, DOI : <https://doi.org/10.1016/j.euromechflu.2020.02.004>
- Mr. Mohd Amir , Mr. Mohd Yasir , Mr. Himanshu Bhushan , Dr. Sachin Singh [A Review Paper on Modelling, Generation and MPPT Techniques of Solar PV System](#), ICEECS - 2020, 2020, DOI : <http://testmagazine.biz/index.php/testmagazine/article/view/3395/3017>
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- Gaurav Bharadwaj , Kamal Sharma [Performance analysis of hybrid PCM by doping Graphene](#), Materials Today: Proceedings, 2020, DOI : <https://doi.org/10.1016/j.matpr.2020.01.052>
- Arun Prakash , Devendra Singh , Ajay Kumar Sharma [Static Structural Simulation Analysis of Leaf Spring using Ansys Workbench](#), International Journal of Innovative Technology and Exploring Engineering, 2020, DOI : DOI: 10.35940/ijitee.H6281.069820

- Vikash Yadav , Anurag Bajpai Seismic study of diagrid structure with braced frame structure of different arrangement, IJSRD - International Journal for Scientific Research & Development| Vol. 8, Issue 3, 2020, 2020,
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- Ram Kishan , Devendra Singh , Ajay Kumar Sharma [Cfd Analysis Of Heat Exchanger Models Design Using Ansys Fluent](#), International Journal of Mechanical Engineering and Technology, 2020,
- Arun Kajla , Syed Abdul Mohiuddine , Abdullah Alotaibi , Meenu Goyal and Karunesh Kumar Singh Approximation by v-Baskakov-Durrmeyer-Type Hybrid Operators, Iranian Journal Of Science And Technology Transaction A-Science, 2020, DOI : <https://doi.org/10.1007/s40995-020-00914-3>
- Gaytri Tiwari , RCS Chauhan [A review on inter satellite links free space optical communication](#), Indian Journal of Science and Technology, 2020, DOI : 10.17485/ijst/2020/v13i6/147998
- Shweta , Nand Kishor Time-Frequency based detection of faulted line and fault instant using wide area signals, 6th IEEE International Conference in Electrical, Electronics and Computer Engineering, UPCON, 2020,
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- Rajat Kumar , Devendra Singh , Ajay Kumar Sharma [Static Thermal Analysis Of Fins Models Using Ansys](#), International Journal of Mechanical Engineering and Technology, 2020,
- Yogendra Kumar , P.K. Jain , Rakesh Kumar , Vivek Kumar Tripathi Bearing Capacity Of Sand Reinforced With Waste Plastic Cups, International Research Journal Of Engineering And Technology, 2020,
- Brahma Nand Agrawal , Shailendra Sinha , Desh Bandhu Singh , Gagan Bansal Effects of blends of castor oil with pure diesel on performance parameters of direct injection compression ignition engine, Materials Today: Proceedings , Volume 21, Part 3, 2020, 2020, DOI : <https://doi.org/10.1016/j.matpr.2019.10.137>

## Training Programmes held for Teachers and Staff in 2019-20

Training category name	Training mode	Title of training	Sponsored by	Training venue with location
Subject domain	Workshop	Advances in application of Computational fluid Dynamics (ACFD-2019), Allahabad	TEQIP -III	Department of Mechanical Engineering, IET, Lucknow
Subject Domain	Workshop	2nd International Conference on Sustainable Technologies for Environmental Management	TEQIP-III	Deptt of Civil Engineering, IET, Lucknow
Value Education	FDP	Art of Living Workshop	TEQIP-III	IET, Lucknow
Subject Domain	FDP	Recent Trends in High Frequency Devices and Applications (RTHFDA-2019)	Department of Electronics Engineering	Deptt. of Electronics Engg, IET, Lucknow

## List of Academic Activities during 2019-20

Programme	Title	Department	Program co-ordintaors and members	Date From	Date To
Programme	Digital India-Genesis, Perspective and Prospective	CSE	Prof. D.S Yadav, Mr. Manik Chandra, Mr. Natthan Singh, Dr. Pawan Kuamri Tiwari	14.12.2019	14.12.2019
Seminar	Water Conservation Challenges and Technical Solutions	IET	Chief Guest- Rajendra Singh	16.10.2019	16.10.2019
Programme	NASSCOM Diagnostic Assessment	EED	Dr. Nitin Anand Shrivastava	05.12.2019	06.12.2019

FDP	Advances In Renewable and Bioenergy	CHED	Dr. Dhananjay Singh	19.10.2019	23.10.2019
Expert Lecture	A Special Lecture on Air Pollution	EED	Dr. Neeraj Dhirendra Singh	18.11.2019	18.11.2019
workshop	Recent Trends in Environmental Engineering (one Week )	CED	Er. Hans pal		
Seminar	Employability Skill Development Program (Time Coaching)	IET	Dr. Arun Kumar Tiwari	16.09.2019	16.09.2019
Conference	Faculty Advisors TEDx Conference	IET	Mr. Kshitij jaiswal	05.10.2019	05.10.2019
Programme	Twinning Activities	IET	Dr. Aurn Kumar Tiwari	12.12.2019	12.12.2019
Programme	Induction Programme	IET	Dr. S.N. Mishra		
Expert Lecture	Expert Lecture in Structural	CED	Er. Anjali Rai, Er. Anurag Bajpai	Last Week of march 2020	
workshop	Traffic Noise Modelling & Design of Barriers	CED	Dr. Brind Kumar	13.09.2019	14.09.2019
NBA Accreditation	Mock NBA Accreditation	IET			
Programme	Robowars and Maneuverer	CSED	Students	08.11.2019	09.11.2019



Programme	Short Term Training Program on UI Designing & Programming	CSED	Mrs. Parul Yadav, Dr. Upendra kumar	06.11.2019	30.11.2019
	Python & Computer System Security				
Expert Lecture	Vaigyanik Adhayatamwaad	TEQIP-III	Dr. Pushkar Tripathi	03.02.2020	03.02.2020
Expert Lecture	Industry 4.0	ME (IET)	Dr. Arun Kumar Tiwari	24.04.2020	24.04.2020
Expert Lecture	IET Distinguished Lecture Series (17)	All Dept	Dr. Seetha Lekshmi K.	28.04.2020	03.05.2020
Training	Cresset Software	BT	Dr. Suneel Kumar (Trainer)	13.07.2019	13.07.2019
workshop	Environmental Engineering	CED	Prof. AK Shukla	08.02.2020	08.02.2020
workshop	Structural Engineering	CED	Prof. AK Shukla	15.11.2019	16.11.2019
workshop	Introduction to Smart Grid (REE-072)	EED	Dr. Pushkar Tripathi	03.12.2019	03.12.2019
workshop	PSCAD Software Training	EED	Dr. Sachin Singh	21.01.2020	22.01.2020
Expert Lecture	Environmental Engg	CED	Prof. AK Shukla	18.11.2019	18.11.2019
Expert Lecture	External Academic Audit	ME (IET)	(Expet) Dr. Satya Sheel, Dr. Palak Mohan Pandey	19.09.2019	19.09.2019
Expert Lecture	Support Vector Machines for Classification and Regression Problems on	CSE	Dr. Pawan Kumar Tiwari,	07.09.2019	07.09.2019
Industrial Visit	Metro Rail corporation LTD	EED	Dr. Nitin Anand Shrivastava, Er. Saurabh Kumar Jha (Students)	09.08.2019	09.08.2019
Expert Lecture	Advanced Electric Machines	EED	Dr. Seetha Lekshmi K.	15.10.2019	15.10.2019
Placement Visit	Global Logic (MNC)	TEQIP-III	Dr. Arun Kumar Tiwari	29.08.2019	30.08.2019
Expert Lecture	Green Computing through Multi-core Architectures	CSED	Mrs. Parul Yadav, Dr. Pawan Tiwari	03.02.2020	03.02.2020

## List Academic Activities by PG/PhD/Research Scholars during 2019-20

workshop	Learning and Control (WLC)	EED	Anshikha Gupta, Rohit Kr. Gupta, Shivangi Upadhyay, Rakesh Sharma, Saurabh Kumar, Saurabh Kr. Jha	22.07.2019
Conference (NIT, Durgapur)	First International Conference on Clean and Renewable	Environmental Engineering	Mr. Tauqeer Alam, Mr. Ankit Kumar, Avneesh Tiwari	10.07.2019
Paper present	International conference on 'Recent Advancements in Civil Engineering & Infrastructural Development	CED	Tavqeer Alam, Avneesh Tiwari, Ankit Kumar	05.07.2019
Cressent Training (IET, Lucknow)	Cressent Software Training	BT	Students	13.07.2019
Conference	International Conference on Clean and Renewable Energy	Environmental Engineering	Tauqeer Alam, Ankit Kumar, Avneesh Tiwari	10.07.2019
Paper present (Aligarh)	Conference IEEE-UP Con-2019	EED	Mr. Deepak kumar Prasad	08.10.2019
Conference	Diabetic Foot Society of India DFSISON 2019, (Ganga Hospital/ Le Meridien, Coimbatore)	Biotechnology	Riya Agarwal (Ph.D Scholar)	23.08.2019
Conference	Dispersion of halloysite nanotubes (HNTs) in PEEK/PEI blend based nanocomposites	CHED	Abrar Ahamad (Ph. D Scholar)	18.12.2019
Conference (Ambedkar Nagar)	National Conference on Computational and Characterization Technique in Engineering	Applied Science	Princy Mishra (Research Scholar)	06.09.2019

Short Course	Computational Biology and Translational Bioinformatics	CHED	Dr. Pradeep Kumar	30.09.2019
workshop	Start UP Cell	EED	Faculty and Students	31.08.2019
Short Term Course	Design of Water Retaining Structure, MNNIT, Allahabad	CED	Shri Anand Patel, Ms. Anjali Ray	14.10.2019
Conference (Ambedkar Nagar)	National Conference on Computational & Techniques in Engineering & Science	ME	Mr. Abhishek Kumar Pandey	06.09.2019
Conference (Noida)	3 rd International Conference on Recent Development in Control, Automation & power Engineering	EED	Mr. Rohit Kumar Gupta	10.10.2019
Conference (Noida)	3 rd International Conference on Recent Development in Control, Automation & power Engineering	EED	Mr. Kumar Yatendra, Mr. Ram Singh -	10.10.2019
Course (Allahabad)	Short Term course design for water retain structure MNNIT Allahabad	CED	Mr. Vikash Yadav, Mr. Nitin Jain, and Mr. Vivek Singh	14.10.2019
Workshop (Aligarh)	Zakir Husain College of Engineering & Technology Aligarh Muslim University, Aligarh	EED	Mr. Deepak kumar Prasad	08.10.2019
Conference	3rd International Conference -Amity Noida		Mr. Kumar Yatendra, Mr. Ram Singh -	2019
Conference	Advanced Electric Machines	EED	Expert Speaker: Prof Ajay Srivastava	15.10.2019
Conference	ACM India Winter School-2019-2020	CSE	Miss. Versha Biswas , (B. Tech final year)	05.12.2019
Short Term Course	Design of Water Retaining Structure , MNNIT, Allahabad	Civil	Mr. Vivek Singh	14.10.2019

Conference (IIT,Kharagpur)	ACM-ICPC Onsite Kharagpur Regionals 2019	CSE	Miss. Pragya Vyas, Shreyanshi Singh Distwar,Neha Mishra	07.12.2019
Programme (Pune)	Barclays India Hackathon 2019	CSE	Shreyanshi Singh Distwar,Neha Mishra	27.6.2019
Workshop (Delhi)	Grid Integrated Renewables & Electric Transportation	EED	Mr. Shujaat Husain, M.tech Scholar	17.12.2019
Workshop	Industrial Area Sarojini Nagar, Lucknow	EED	Mr. Rajesh Kumar, Miss. Deeksha Singh (M.Tech), Mrs. Preeti Verma (PH.D, Scholar)	09.01.2020
Conference	Industrial Area Sarojini Nagar, Lucknow	EED	Nidhi, Sandeep Kumar	15.01.2020
Workshop	KIT Workshop on introduction to non linear finite element method	CED	Mr. Vivek Kumar, Miss. Shweta Singh, Mr. Ashutosh Singh, Mr. Aman Saini, Mr. Hari Om Pal, Mr. Hemant Kumar Tiwari, Miss. Shariqa Ali, Miss. Anjali Mishra,Mr. Durgesh Nandan Yadav, Mr. Kunwar Divyansh Singh and Mr. Avinash Kumar	15.01.2020
Workshop (IIT Kanpur)	Workshop on introduction to non linear finite element method	CED	Mr. Nitin Jain, Mr. Shubham Pandey and Mr. Ashutosh Kumar	15.01.2020
Conference	IEEE-Global Conference for Advancement in Technology (GCAT)	EED	Miss. Ritika Saxena	17.08.2019
Workshop	Grace Hopper Celebration of Women in Computing India (GHCI)	CSED	Shreyanshi Singh Distwar	6.11.2019
Industrial Visit (Sultanpur)	Industrial Visit (Indo- gulf Fertilizers Ltd. Sultanpur)	ECD	B.Tech final Year (64 Students)	04.12.2019

## Programmes Pertaining to Linkage with Industry conducted during 2019-20

Programme	Title	Department	Program co-ordinators and members	Date
Programme	Digital India-Genesis, Perspective and Prospective	CSE	Prof. D.S Yadav, Mr. Manik Chandra, Mr. Natthan Singh, Dr. Pawan Kuamri Tiwari	14.12.2019
Seminar	Water Conservation Challenges and Technical Solutions	IET	Chief Guset- Rajendra Singh	16.10.2019
Programme	NASSCOM Diagnostic Assessment	EED	Dr. Nitin Anand Shrivastava	05.12.2019
FDP	Advances In Renewable and Bioenergy	CHED	Dr. Dhananjay Singh	19.10.2019
Expert Lecture	A Special Lecture on Air Pollution	EED	Dr. Neeraj Dhirendra Singh	18.11.2019
workshop	Recent Trends in Environmental Engineering (one Week )	CED	Er. Hans pal	
Seminar	Employability Skill Development Program (Time Coaching)	IET	Dr. Arun Kumar Tiwari	16.09.2019
Conference	Faculty Advisors TEDx Conference	IET	Mr. Kshitij jaiswal	05.10.2019
Programme	Twinning Activities	IET	Dr. Aurn Kumar Tiwari	12.12.2019
Expert Lecture	Expert Lecture in Structural	CED	Er. Anjali Rai, Er. Anurag Bajpai	Last Week of march 2020
workshop	Traffic Noise Modeling & Design of Barriers	CED	Dr. Brind Kumar	13.09.2019
Programme	Robowars and Manevever	CSED	Students	08.11.2019

workshop	Recent Aspects of power System Optimization	EED (IET)	Mr. Saurabh kurmar Jha	30.08.2019
Programme	Short Term Training Program on UI Designing & Programming	CSED	Mrs. Parul Yadav, Dr. Upendra kumar	06.11.2019
Expert Lecture	Vaigyanik Adhayatamwaad	TEQIP-III	Dr. Pushkar Tripathi	03.02.2020
Expert Lecture	Industry 4.0	ME (IET)	Dr. Arun Kumar Tiwari	24.04.2020
Expert Lecture	IET Distinguished Lecture Series (17)	All Dept	Dr. Seetha Lekshmi K.	28.04.2020
Expert Lecture	Remote Sensing data and its Application	CED	Prof. AK Shukla	March Last Week 2020
Training	Cresset Software	BT	Dr. Suneel Kumar (Trainer)	13.07.2019
workshop	Environmental Engineering	CED	Prof. AK Shukla	08.02.2020
workshop	Structural Engineering	CED	Prof. AK Shukla	15.11.2019
workshop	Introduction to Smart Grid (REE-072)	EED	Dr. Pushkar Tripathi	03.12.2019
workshop	PSCAD Software Training	EED	Dr. Sachin Singh	21.01.2020
Expert Lecture	Internship Training	IET	Dr. Arun Kumar Tiwari	21.06.2019
Expert Lecture	Environmental Engg	CED	Prof. AK Shukla	18.11.2019
Expert Lecture	External Academic Audit	ME (IET)	(Expet) Dr. Satya Sheel, Dr. Palak Mohan Pandey	19.09.2019
Expert Lecture	Support Vector Machines for Classification and Regression Problems on	CSE	Dr. Pawan Kumar Tiwari,	07.09.2019
Industrial Visit	Metro Rail corporation LTD	EED	Dr. Nitin Anand Shrivastava, Er. Saurabh Kumar Jha (Students)	09.08.2019
Expert Lecture	Advanced Electric	EED	Dr. Seetha	15.10.2019

	Machines		Lekshmi K.	
Placement Visit	Global Logic (MNC)	TEQIP-III	Dr. Arun Kumar Tiwari	29.08.2019
Expert Lecture	Green Computing through Multi-core Architectures	CSED	Mrs. Parul Yadav, Dr. Pawan Tiwari	03.02.2020
workshop	Python Programming and Django Framework (PPDF-19)	CSED	Mrs. Parul Yadav, Dr. Y.N. Singh	29.04.2019

## 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.

**During 2019-20, total 226 students are placed through campus apart from the off-campus placement.**



## Collaborative Activities

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

Year	No. of faculty		No. of Students	
	<u>Registered</u>	<u>Certified</u>	<u>Registered</u>	<u>Certified</u>
2019	72	61	795	722
2020	112	105*	876	627*
Prutor IIT Kanpur (2019-20)	All second-year students			

\*- Result of July- Dec Sem 2020 is awaited

**SWAYAM and SWAYAMPBHA:** Infrastructure for telecasting of Swayam Prabha 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 Prabha channel. The faculty members are registering themselves on the Swayam portal and students are instructed to register themselves on the portal.

### Start Up Activity Details

- ❖ **Team “Arbitrary” from IET** comprising students Nidhi Singh, Nida Afzal, Prafull Pandey, Yash Garg, Prabhat Singh and Rishabh Chaudhary, won prize of one lakh with their project **“A choice based psychological game containing collection of stories from different scenarios of our daily lives where choices are chosen by the player decide the consequences to provoke positive mentality changes”** at Swami Keshvanand Institute of Technology under **Smart India Hackathon 2020**.
- ❖ **Team “SANKLP” from IET comprising students of CSE department** namely Lakshay Priyadarshi, Aman Agrwal, Kumar Gaurav Singh, Piyush Mittal, Sachin Sharma and Neha Mishra emerged as **winner team** for **SIH 2020** at Nodal centre of Oriental College of Technology Bhopal in Grand Finale, for their project **“Real-time detection of malicious hyperlinks in social media platforms using Ensemble Methods”** and won prize of one lakh rupees.



**Selected Teams for participation in Grand Finale of SIH 2020  
Software Edition**

Project	Team Name	Name	email-id
A choice based psychological game containing collection of stories from different scenarios of our daily lives where choices are chosen by the player decide the consequences to provoke positive mentality changes.	ARBITRARY	<b>Nidhi Singh</b>	<b>1900520140034@ietlucknow.ac.in</b>
		Nida Afzal	1900520140033@ietlucknow.ac.in
		Prafull Pandey	1900520140038@ietlucknow.ac.in
		Yash Garg	1900520140066@ietlucknow.ac.in
		Prabhat Singh	1900520140037@ietlucknow.ac.in
		Rishabh Chaudhary	1900520140044@ietlucknow.ac.in
Extract data from Bhuvan web portal and perform linguistic analysis on it.	CODE.BLACK()	<b>KUSHAGRA SHUKLA</b>	<b>1705210022@ietlucknow.ac.in</b>
		SANDEEP YADAV	1705210044@ietlucknow.ac.in
		UDIT KUMAR	1705210058@ietlucknow.ac.in
		KANISHK SINGHAL	1805210904@ietlucknow.ac.in
		AKANSHA SINGH	1705210006@ietlucknow.ac.in
		PARIDHI GUPTA	1705210029@ietlucknow.ac.in
A web based tool for 3d/4d visualization of model forecast which performs volume rendering and gives visualization on the globe and map	HEISENBUGS	<b>Vishnu Kumar</b>	<b>1705210064@ietlucknow.ac.in</b>
		Namrata Gupta	1705210025@ietlucknow.ac.in
		Aanchal Singh	1705210001@ietlucknow.ac.in
		Aditi Shreya	1705210005@ietlucknow.ac.in
		Piyush Agarwal	1705210031@ietlucknow.ac.in
		Sonu Verma	1705210051@ietlucknow.ac.in
Real-time detection of malicious hyperlinks in social media platforms using Ensemble Methods	SANKLP	<b>Lakshya Priyadarshi</b>	<b>1605210025@ietlucknow.ac.in</b>
		Aman Agarwal	1605210009@ietlucknow.ac.in
		Kumar Gaurav Singh	1605210023@ietlucknow.ac.in
		Piyush Mittal	1605210032@ietlucknow.ac.in
		Sachin Sharma	1605210037@ietlucknow.ac.in
		Neha Mishra	1605213036@ietlucknow.ac.in
capturing various attributes of clothes worned by the targeted person captured from various CCTV through intelligence (software) in a database and then identifying the suspect involved in crime.	WILL_OF_FIRE	<b>Sanjana Agrawal</b>	<b>1705213037@ietlucknow.ac.in</b>
		Pallav Agarwal	1705213027@ietlucknow.ac.in
		Soumitra Shukla	1705213047@ietlucknow.ac.in
		Sunny Jain	1705213051@ietlucknow.ac.in
		Mohin Ahmad	1705213023@ietlucknow.ac.in
		Ayush Kr. Gupta	1705210014@ietlucknow.ac.in

## Selected Team for Participation in Grand Finale of Smart India Hackathon Hardware Edition

Project	Team Name	Name	email-id
<p>Our idea aims to provide the optimum solution to different areas of structural health monitoring and industrial engineering. If the vibration increases above the permissible limits, it might lead to the failure of these structures and machines, making very important to continuously monitor the vibration of a critical structure or machine. Our rationale for measurement of vibration through non-contact, optical techniques are highly pertinent due to its non-destructive nature, high speed and reinforced practicality for remote measurement in hazardous and toxic environment, where human/operator intervention is very difficult. This sensor ensembles: laser source, focusing optics (planoconvex lens), position sensitive photo-detector (PSD) and signal processing electronics and then a transmission module to digitize the signals for sending them to the application program for further processing. The calculated spectrum will carry the frequency and amplitude contents of the vibration, which is then graphically displayed with a separate graph for impulsive frequency alongside its amplitude. An extension of the case will involve the triggering of an alarm from the mobile device to alert the user in case the frequency exceeds the threshold value of machinery frequency. Further, since every type of vibration has a signature frequency-amplitude curve, our solution will also be qualified to detect them.</p>	SHARANG	<b>Anadi Agnihotri</b>	<b>agnihotrianadi@gmail.com</b>
		Aditya Shaurya	ashaurya18@gmail.com
		Aditya Chaudhary	adi.chaudhary.304@gmail.com
		Kanushreya Tyagi	Kanushreyatyagi@gmail.com
		Anushka Kanaujia	anushkakanaujia@gmail.com
		Shikhar Verma	hackme199@gmail.com

**Startup Activities (2019-20)**  
**Startup Committee/Startup Cell**  
**Institute of Engineering and Technology Lucknow**

<b>Academic Session</b>	<b>Event</b>	<b>Organiser/s</b>	<b>Date</b>	<b>Student Participants</b>	<b>Prizes won</b>
2019-20	Interactive Session on "How to kick-start your career as an entrepreneur" by Captain Ritu Dubey	IET Lucknow	17/08/2019	100	
2019-20	"The art of pitching" by Mr Azam Siddique	IET Lucknow	31/08/2019	60	
2019-20	E-Summit Zonal Round	IIT Roorkee IET Lucknow	25/1/2020	60	
2019-20	Internal Hackathon	IET Lucknow	04-02-2020	250	5 teams qualified for grand finale of Software Version, and 1 team for Hardware Version
2019-20	IDEAthon-2020	IET Lucknow	18/05/2020	460	10 teams qualified for final online presentation on 06/06/2020, <b>Theme: Post lockdown campus life</b>

