

ANNUAL REPORT 2020-21

I.T.S Engineering College affiliated to Dr. A. P. J. Abdul Kalam Technical University Uttar Pradesh (AKTU), Lucknow and approved by All India Council for Technical Education (AICTE), Ministry of Human Resources Development (MHRD), Govt. of India, The College has unremittingly championed the cause of technical education. The institute ensures academic acumen, students' holistic development, state-of-the-art infrastructural facility and sturdy placement opportunities for a wholesome learning environment that nurtures and promotes all round growth of our young guns.

The purpose of this annual report is to showcase the numerous FDP Programs and Research that ITS teachers engaged in throughout the 2020-21 year. Student learning results are greatly impacted by the Commitment of teachers, and improve their learning opportunities, encourage to create a supportive classroom atmosphere.

This yearly report showcases the Programs and contribution towards Research that teachers have implemented to demonstrate their dedication to professional development, student-centered learning, and community engagement. Teachers' efforts have resulted in the creation of a stimulating learning environment that encourages diversity, academic performance, and overall development. Teachers' commitment and imagination are essential in enabling pupils to be ready for the chances and challenges that await them in the future. Parents, students, and the institute management would like to thank the teachers for their outstanding work during the reporting period.

Table 1 presents the summary of the programmes undertaken by the teachers and Non-Teaching Staff in 2020-21.

Table 1: FDP and Training undertaken by the teachers and Non-Teaching Staff in 2020-21.

Academic session	Number of Teaching staff participated in FDP / PD / Administrative Training programs	Number of non-teaching staff participated in FDP / PD / Administrative Training programs
2020-21	45	52

Table 2: Details of FDP attended by teaching staff in 2020-21.

Name of teacher who attended	Title of the program	Duration (from – to) (DD-MM-YYYY)
Dr. Akant Kumar Singh	FDP on Role of Materials and Processing in Additive Manufacturing: 3D Printing to Industry	19th July to 24th July 2020

Mr.Brijesh Kumar	FDP on Engineering Thermodynamics	20th June to 24th July 2020
Mr. Abhishek Shivhare	FDP on Computational Intelligent Systems and Security(CISS 2020)	20th June to 24th July 2020
Mr. Abhishek Shivhare	FDP on Blockchain and its Applications	20th June to 24th July 2020
Dr.Devesh Garg	FDP on Computational Intelligent Systems and Security(CISS 2020)	20th June to 24th July 2020
Mr.Mukesh Kumar	FDP on Block Chain Technology	20th June to 24th July 2020
Ms.Shivani tufchi	FDP on Computational Intelligent Systems and Security(CISS 2020)	20th June to 24th July 2020
Ms.Mohini chakarverti	FDP on Computational Intelligent Systems and Security(CISS 2020)	20th June to 24th July 2020
DrNidhiPuri	FDP on Inculcating Universal Human Values in Technical Education(Organised by AICTE)	23rd July to 27th July 2020
Dr. Deepa Singh	FDP on Next Generation of Chemical manufacturing and waste management(AKTU-AICTE JOINT)	29th July to 02nd August 2020
Ms. Manju Singh	International FDP on LabVIEW & Real-Time Data Acquisition	03rd August to 07th August 2020
Mr.Bhupesh Ojha	STTP on Finite Element Analysis using ANSYS	4th August to 9th August 2020
Dr.Devesh Garg	FDP ON DATA SCIENCE	04th August to 10th August 2020
Dr.Rakesh Kumar Garg	FDP on Inculcating Universal Humun Values in Technical Education(Organised by AICTE)	05th August to 09th August 2020
Dr Praveen Chandra Jha	FDP on Inculcating Universal Humun Values in Technical Education(Organised by AICTE)	05th August to 09th August 2020
Ms. Manju Singh	FDP on Artificial Intelligence and Machine Learning Using python	10th August to 15th August 2020
Mr.BhupeshOjha	FDP on Novel Materials	17th August to 21th August 2020
Dr. Deepa Singh	FDP on Inculcating Universal Human Values in Technical Education(Organised by AICTE)	19th August to 23rd August 2020
Mr. Abhishek Rai	FDP on Inculcating Universal Human Values in Technical Education(Organised by AICTE)	24th August to 28th August 2020

Dr Arti Dua	FDP on Inculcating Universal Human Values in Technical Education(Organised by AICTE)	24th August to 28th August 2020
Dr. Akant Kumar Singh	FDP on Additive Manufacturing	31st August to 04th September 2020
Mr.KartikRastogi	FDP on Artificial intelligence using Python	14th September to 19th September 2020
Dr. Akant Kumar Singh	FDP on Future Scope in Engineering Materials and Tribology	15th September to 19th September 2020
Dr. Akant Kumar Singh	FDP on Additive Manufacturing	21st September to 25th September 2020
Dr. Sanjay Kumar Mishra	ATAL Academy online FDP on Photonics	21st September to 25th September 2020
Ms. Manju Singh	FDP on Artificial Intelligence	01st October to 05th October 2020
Dr. Ashish kumar	FDP on End to End Processes in Data Analytics	02nd November to 06th November 2020
Dr.Rakesh Kumar Garg	STP on Innovation, Start -up and Entrepreneurship	07th December to 11th December 2020
Mr Ashish Kumar Gupta	STP on Data Science with Python	07th December to 12th December 2020
Ms. Manju Singh	ATAL Online FDP On Green Technology & Sustainability Engineering	15th December to 19th December 2020
Dr. Setu Garg	FDP on Virtual Instruments Based Online winter Internship Program	4th January to 21st January 2021
Mr. Agha Asim Husain	E-FDP on Wireless Sensor Network & iot	18th January to 22nd January 2021
Mr.Murari Kumar Singh	Online FDP on "Block chain in Supply Chain at KIET group of institutions Department of CSE	29th January to 30th January 2021
Ms. Manju Singh	ATAL Academy on line FDP on "A1- Machine Learning & Optemization	01st February to 5th February 2021
Mr.Murari Kumar Singh	AICTE Training And Learning (ATAL) Academy Online FDP on "3D Printing & Design" at IIT Ropar.	01st February to 5th February 2021
Dr. Setu Garg	ATAL FDP on Internet of Things (IoT)	8th February to 12th February 2021
Mr.Prabhakar Sharma	ATAL FDP on IoT	8th February to 12th February 2021
Mr. Abhishek Rai	Short Term Course on Linguistic diversity and access to english	08th February to 13th February 2021

Mr. Abhishek Rai	Online STP on " Linguistic Diversity and Access to English" organised by department of Humanities and Social Sciences.	08th February to 13th February 2021
Mr.Chandankumar	FDP on Internet of Things (IoT)	08th February to 13th February 2021
Dr.Rakesh Kumar Garg	FDP on Part_1of Online UHV Refresher _1	15th February to 19th February 2021
Mr. Abhishek Rai	FDP on Part_1of Online UHV Refresher _1	15th February to 19th February 2021
Dr. NidhiPuri	FDP on Part_1of Online UHV Refresher _1	15th February to 19th February 2021
Mr.Murari Kumar Singh	AICTE Training And Learning (ATAL) Academy Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR) at KLE Dr. M S Sheshgiri College of Engineering & Technology.	22nd February to 26th February 2021
Dr Renu Chaudhary	Faculty Development Programme on "Demystifying Optimization Techniques atBannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, India	22nd March to 27th March 2021
Mr. Prabhakar Sharma	Multisim training Program for Circuit Design	19th April to 23rd April 2021
Mr.Prabhakar Sharma	"Opportunity"challenges and Research Trends in WC(Wireless Communication)	24th May to 29th May 2021
Mr. Agha Asim Husain	E-FDP on Development of Smart cities-Perspective from Electrical & electronics engineering	29th June to 3rd July 2021

Table 3 presents the summary Research Paper and Book Chapter Published by the teachers in 2020-21.

Table3:Research Paper and Book ChapterPublishedby the teachers in 2020-21.

Academic Year	Research Paper published by teachers	Book Chapter Published by Teachers
2020-21	15	8

Table 4 :Details of Research Paper Published by teaching staff in 2020-21.

Title of paper	Name of the author/s	Department	Name of journal	Calendar Year of publication	ISSN number
Investigations on noise emission from functionally graded materials based polymer spur gears	Dr. Akant Kumar Singh & Dr. Sanjay Yadav	ME	Materials Today: Proceedings	2021-22	Online ISSN: 2214-7853
Investigation of solid particle erosion behavior of Al-Al ₂ O ₃ and Al-ZrO ₂ metal matrix composites fabricated through powder metallurgy technique	Mr. Manvendra Yadav	ME	Tribology International	2021-22	ISSN: 0301-679X
A Liver Damage Prediction Using Partial Differential Segmentation with Improved Convolutional Neural Network	Monika Jain	ECE	Journal of Healthcare Engineering	2021-22	ISSN: 2040-2295 (Print) ISSN: 2040-2309
An IEEE single-precision arithmetic based beam former architecture for phased array ultrasound imaging system	Navneet Kumar	ECE	Engineering Science and Technology, an International Journal	2021-22	Online ISSN: 2215-0986
The Effect of Copper Oxide Nanoparticle additives on the Rheological and Tribological properties of engine oil	Harsh Gupta, Santosh Kumar Rai, Satya Krishna Nippani and GaganAnand	ME	Dispersion Science and Technology	2020-21	Print ISSN: 0193-2691 Online ISSN: 1532-2351



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Characterization and experimental investigation of rheological behavior of oxide nanolubricants	Harsh Gupta, Santosh Kumar Rai, PiyushKuchhal and GaganAnand	ME	Particulate Science and Technology	2020-21	Print ISSN: 0272-6351 Online ISSN: 1548-0046
Optimizing the performance parameters of injection-molded polymer spur gears	Prashant Kumar Singh, Akant Kumar Singh, Siddhartha, Prabir Sarkar	ME	Journal of Materials: Design and Applications	2020-21	ISSN: 1464-4207 Online ISSN: 2041-3076
CFD and thermo-hydraulic analysis of multiple arc roughened absorber plate with gaps used in solar air heaters	N.K. Pandey, V.K. Bajpai, Sanjay Yadav	ME	Intl. Journal of Ambient Energy	2020-21	Print ISSN: 0143-0750 Online ISSN: 2162-8246
A Novel scheme for industrial safety and security with GSM	Dr. Monika Jain	ECE	International Journal of Grid and Distributed Computing	2020-21	ISSN: 2005-4262 (Online)
A Novel Scheme for Medical Image Compression using Huffman and DCT with Water Marking	Dr. Monika Jain	ECE	International Journal of Future Generation Communication and Networking	2020-21	ISSN: 2233-7857 (Online)
Early Onset/Offset Detection of Epileptic Seizure using M-band Wavelet Decomposition	Dr. GarimaChandel	ECE	International Journal of Biomedical Engineering and Technology	2020-21	Online ISSN: 1876-0988 Linking ISSN: 1959-0318
Attacks in UWSNs	Suresh Wati	CSE	IJIIRD	2020-21	ISSN: 2456-236X
Data communication issues in UWSNs	Suresh Wati	CSE	IEEE	2020-21	8974-476

Impact of workplace hapiness on employee engagement: A comparative study of IT and Non-IT sector employees.	Prof. Sana Vakeel, Dr. Sunita Shukla and Dr. Vikas Singh	MBA	International journal of public sector performance management	2020-21	ISSN online 1741-105X ISSN print 1741-1041
A Study on Service quality Gaps in Indian banks using SERVQUAL Model in Delhi NCR	Prof. Sana Vakeel and Prof. Rashmi Kaushik	MBA	International journal of Advance and innovative research	2020-21	ISSN: 2278-7844

Table 5: Details of Books and chapters published in edited volumes/books.

Name of the teacher	Title of the book/chapters published	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
Dr. Monika Jain	Signal Processing and Communication	2020-21	23980311	ITS Engineering College-Gr.Noida	Inderscience
Mr. Nitesh Pradhan	Clad Preparation Book	2020-21	9781649515810	ITS Engineering College-Gr.Noida	Notion Press
Mr. Nitesh Pradhan	Scada System Design Using Labview	2020-21	9781649834065	ITS Engineering College-Gr.Noida	Notion Press
Mr. Nitesh Pradhan	Let Us Labview Part 2	2020-21	9781636332482	ITS Engineering College-Gr.Noida	Notion Press
Mr. Nitesh Pradhan	Let Us Labview	2020-21	9781648698354	ITS Engineering College-Gr.Noida	Notion Press
Akant Kumar Singh, Siddhartha, Sanjay Yadav	Advances in Engineering Design.	2020-21	ISBN: 978-981-33-4684-0	I.T.S.-EC, Gr. Noida	Springer, Singapore



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Prof. Sana Vakeel	Circular Economy and Re-Commerce in the fashion industry.	2020-21	9781799827283	ITS Engineering College	IGI Global
Prof. Rashmi Kaushik	Circular Economy and Re-Commerce in the fashion industry.	2020-21	9781799827283	ITS Engineering College	IGI Global