





Vision

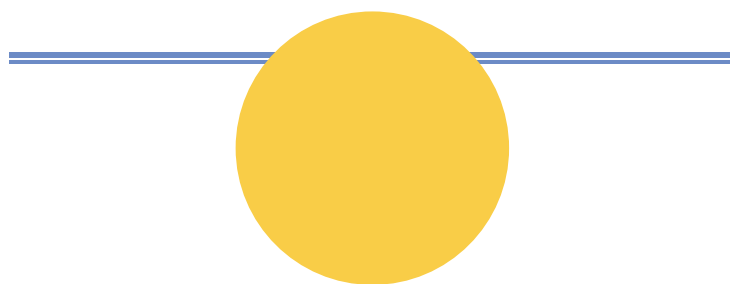
To introduce Under Graduate and Post Graduate courses for all Engineering branches and award of Ph.D degree, to be one of the best Engineering Colleges in the country and to be a Deemed University.

Mission

We strive to provide and maintain academic environment and systems, enabling maximum learning to produce competent professionals. We also aim at achieving this through transparent academic and administrative policies in the college. We intend to provide conducive atmosphere for research, development and consultancy services to our faculty at national and international level.

Quality Policy

To provide and continually improve academic environment and systems which give total satisfaction and enable students to develop their full potential and mature into competent professionals and responsible members of society.



From the Editorial Team

SAMPARK

PATRON

Dr. R. K. Agarwal
Director General

EDITORS

Dr. Hemant Ahuja
Professor, HoD EN &
Dean Academics

Mr. Harsh Mohan Sharma
Assistant Professor
Department of Electrical &
Electronics Engineering

As a potent medium of communication with our broad community of college administration, faculty, staff, students, alumni, parents, recruiters and collaborators of AKGEC - the title SAMPARK is quite apt and befitting.

SAMPARK is a weighted representation of all the immersive occasions and genuine sincere efforts made by every member of the AKGEC family with the post pandemic new normal and towards our distinct vision and goal. We have created a testament to our unwavering quest of excellence in the academic, coacademic, social, cultural, and ethical domains with this 2022 edition.

The readers should feel as though they have taken a beautiful virtual tour of the college as they flip through the pages of this edition, while it is evident in the adaptable techniques and tools used for ongoing academic and industry-focused activities that are enduring the pandemic's erupting challenges. Physical remoteness / restrictions had no impact on the unwavering spirit to remain connected through SAMPARK.

The editorial team is grateful to the Director General Dr. R.K. Agarwal for his invaluable advice and persistent encouragement to publish this most recent issue, which claims to be an authentic showcase of campus reverberations. This release would not have been possible without the consistent assistance of contributors, including all the department Heads, Deans, Section Heads, Faculty, Staff, and Students.

Editorial Team



FACULTY DEVELOPMENT PROGRAMS

Basic FDP on Idea Lab

To take the AICTE initiative forward, AKGEC organized a basic FDP on Idea Lab under AICTE Training & Learning (ATAL) Academy, to train the coordinators and co-coordinators of newly formed IDEA Labs, during 23-27 August 2021 at AKGEC FAB Lab.

The Chief Guest for this ceremony was Prof Prabhat Ranjan, Hon'ble Vice Chancellor of D Y Patil International University, Pune and Chairman, National Steering Committee of Idea Lab. The Guest of honour was Dr Neeraj Saxena, Advisor, AICTE. The ceremony was glorified by the presence of Prof Dhanjay V Gadre from NSUT, Delhi and Dr Y.D Panwar, Scientist from TIFAC, New Delhi.

The FDP was participated by eminent Academicians who were the coordinators and co-coordinator of newly selected IDEA Labs from nine different states of the country, namely Rajasthan, Madhya Pradesh, Uttar Pradesh, Orissa, West Bengal, Andhra Pradesh, Maharashtra, Haryana and Tamil Nadu.

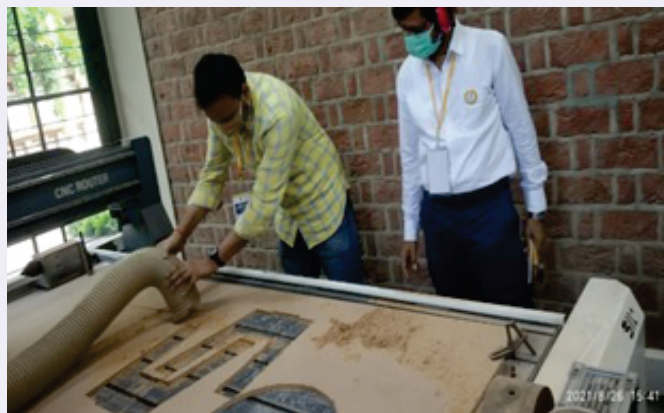
During the FDP, participants were divided into four teams named: Innovative, Ingenious, Reality and Novelty. Each team underwent experiential learning by doing exclusive hands-on sessions on 3D Printing & Digital Scanning, Laser Cutting and CNC Wood Router, Embedded System & Design. While learning, the teams worked on a given challenge and developed multi-disciplinary projects. Participants attended the oration and knowledge sharing sessions on topics like critical thinking, design thinking, Additive Manufacturing, Patents and IPR etc., delivered by the following young minds and successful entrepreneurs.

Topic	Resource Person	Affiliation
IPR and Patents	Dr. Y. D. Panwar	TIFAC/ DST, New Delhi
Embedded Electronics programming opportunities for IDEA lab	Prof. Dhananjay V. Gadre	NSUT New Delhi
Customized Solution for Disability and Health care sector through IDEA Lab	Prof Prabhat Ranjan	DY Patil International University
IDEA Lab Opportunities and Potential for Industrial Projects	Prof. Ashiv Shah	AKGEC Ghaziabad
Design Thinking	Mr. Varun Chamadya	Proactiv "I"
Vigyan Ashram Fab lab-outreach to Society	Dr. Yogesh Kulkarni	Vigyan Ashram, Pabal
IDEA Lab Management, Projects and Students Access	Dr. Sandeep Anasane	COEP, Pune
Drones and UAVs	Mr. Arpan Ghosh	Gamma Rotors Pvt Ltd
3D Printing and its Applications	Mr. Ankit Sahu	Objectify
Design for Innovation & Creativity	Mr. Ashish Chaudhary	Studio34

Prof. M.P. Poonia, Vice Chairman, AICTE also graced the program by his presence and appreciated the organizers. VC declared team “Innovative” as winners of Innovation Challenge during FDP. The team implemented laser cutting on four different coloured acrylic sheets using RDWORKS, designing brain structure using 3D printing THINKVERGE, embedded clock and programmed LED using Android followed by the designing of a 3D Logo for AICTE IDEA Lab.



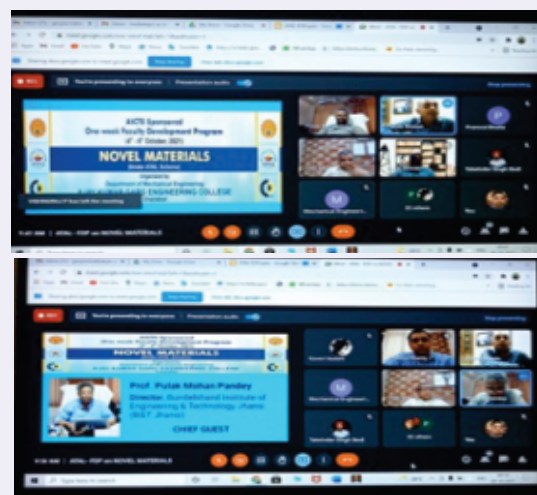
Hands-on session on Embedded System



Hands-on session on CNC Wood route

FDP on Novel Materials

The department of Mechanical Engineering organised a faculty development program on “Novel Materials” during 4th to 8th October, 2021 sponsored by the AICTE Training and Learning Academy. The FDP was conducted with an initiative to enrich the knowledge of faculty members and research scholars through interaction with eminent personalities and resource persons from Industry and Academia. The FDP intended to discuss the recent advancements in the material science and technologies to enrich the knowledge and skills of participants in emerging areas. The program has paved way to provide knowledge for carrying out research in various engineering based fields on novel materials for fulfilling the demand of fast paced of technology.



Topic	Resource Person	Affiliation
Friction Stir Processing-Surface Modification	Dr. Amit Arora	IIT, Gandhinagar
Development of Innovative Waste Utilization Methodologies for Material Removal Processes	Prof. (Dr) Harpreet Singh	IIT, Ropar
Issues Related to Pipeline Welding for Critical Applications	Prof. (Dr) Sachin Maheshwari	NSUT, Delhi
Laminated Green Composites: Primary Processing and Characterization	Dr.Pramendra Kumar Bajpai	NSUT, Delhi
Tailor-made Sheets for light-weight Applications	Prof. (Dr) R. Ganesh Narayan,	IIT, Guwahati
Sustainable Tribology/Green Tribology	Prof. (Dr) Rakesh Kumar Gautam	IIT, BHU
Surface Engineering Via Friction Stir Processing	Dr. Namrata Gangil	AKGEC, Ghaziabad

Characterization Techniques for Biomaterials	Prof. (Dr) Uma Batra	PEC, Chandigarh
Development of Engineering Materials using Laser Additive Manufacturing based 3D Printing Technology: Avenues and Challenges	Dr. Arun Kumar Rai	RRCAT, Indore
Design of Experiments - Applications in Materials Processing	Prof. (Dr) Mukul Shukla	NIT, Allahabad
Tailored Blanks of Advanced High Strength Steel for Automotive Applications	Prof. (Dr) D. Ravi Kumar	IIT, Delhi.
Friction Stir Processing of Metal Matrix Nano Composites and Opportunities for Next Generation Composites in India	Dr. Ajay Kumar	IIT, Tirupati
Journey Through Materials: HEA	Prof. (Dr) Arshad Noor Siddiquee	JMI, Delhi
Biomaterials- From Traditional to Novel Biomaterials	Prof. (Dr) Anupam Srivastav	MEC, Oman

FDP on Future Wireless Technologies

The department of Electronics & Communication Engineering conducted an online FDP on “Future Wireless Technologies” for a week from 15-20 November 2021. The FDP was focused on the concepts and technologies for Next G, including possible innovations in architectures, spectrum allocation and utilization in radio communications, networks and services, as well as applications. The dynamic and adaptive systems/technologies were discussed in detail providing a new paradigm for spectrum assignment and management, smart resource management, dynamic and fast adaptive multilayer approaches, smart radio, and adaptive networking. The resource persons were accomplished experts from eminent organizations like Space Applications Centre, BSNL, IITs, JMI, IIIT, NSIT and DTU. There were 92 participants who attended this FDP.



Topic	Resource Person	Affiliation
M2M / IoT & 5G Enabling Smart Infrastructure	Mr. Sushil Kumar	Telecommunication Engineering Center, New Delhi
Internet of Things and its Application in Machine Learning	Dr. R.P.S. Chauhan	Clique for Applied Research in Electronic Technology (CARET), Bhilai, Chhattisgarh
5G Challenges, potential enablers and design principles	Mr. Sandeep Singh	ALTTC, Ghaziabad
RF & Microwave: Defense industries applications	Mr. Amit Tiwari	BEL, Ghaziabad
IMT 2020 & Future Wireless Technology	Mr. Ashok S. Tomar	BSNL, New Delhi
Challenges in Future Wireless Tech	Mr. Sanjay Giri	ALTTC, Ghaziabad
Super continuum: The Light Source of the Future	Dr. Sandeep Vyas	Jaipur Engineering College & Research Centre Jaipur
Signal Separation Technique for Wireless Communication	Dr. Ajay Somkunwar	MANIT, Bhopal
Next Generation Network, Trends & Challenges	Dr. B. K. Gupta	Branett Technology, NOIDA
Wireless Applications of Metamaterials	Dr. Sanjeev Yadav	Rajkiya Engg. College, Ajmer

Advance Idea Lab FDP on Smart Manufacturing

Taking AICTE initiative forward, the college organised an Advance Idea Lab FDP on Smart Manufacturing, under AICTE ATAL Academy, to train the Tech Gurus of newly formed Idea Labs for a week during 17-23 November 2021 at AKGEC FAB Lab.

Dr. Neeraj Saxena, Advisor-I, AICTE was the Chief Guest for the program. The inaugural ceremony was also attended by Dr. Y. D. Panwar, Scientist from TIFAC, New Delhi.

The FDP was participated by eminent Academicians, designated as Tech Gurus of newly selected IDEA Labs. The Tech Gurus were from eleven different states of the country.

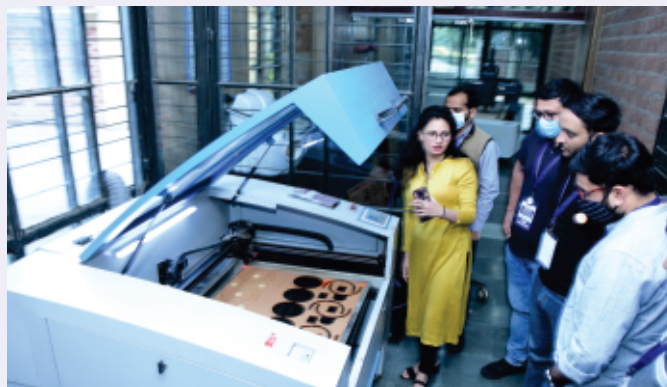
During the FDP, participants were divided into five teams named as Innovative, Ingenious, Originality, Creative and Imaginative. Each team underwent experiential learning by doing exclusive hands-on sessions on 3D Printing, Design & Scanning, Laser Cutting & Engraving, CNC Wood Router and Embedded Systems. While learning, teams were expected to work on a given challenge and develop multidisciplinary projects. During the FDP, the participants witnessed orations and knowledge sharing sessions on topics like critical thinking, design thinking, Additive Manufacturing, Patents and IPR etc., delivered by various young minds and successful entrepreneurs



Topic	Resource Person	Affiliation
IPR & Patent Technology	Dr. Y. D. Panwar	Scientist, AICTE
Design Thinking	Mr. Varun Chamadya	Founder Proactive "I"
Embedded Electronics	Prof. Dhananjay V Gadre	NSUT New Delhi
Vigyan Prasar Amateur Radio club station	Shri Sandeep Barauj	Scientist-F, Vigyan Prasar
IDEA Lab Management, Projects and Students Access	Dr. Sandeep S Anasane	COE Pune
IDEA Lab Opportunities and Potential for Industrial Projects	Prof. Ashiv Shah	AKGEC Ghaziabad
3D Printing	Mr. Avikshit Saras	COO-Division of Orient Leisure (P) Ltd



Hands-on session on 3D Printing



Hands-on session on Laser Cutting & Engraving



Hands-on session on Embedded Electronics

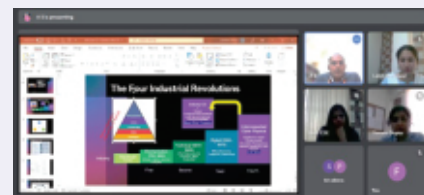


Project Work

FDP on Industrial Revolution 5.0

An online FDP on “Industrial Revolution 5.0” was organized by the department of Computer Science & Engineering at Ajay Kumar Garg Engineering College, Ghaziabad from 6-10 June 2022.

Total 72 participants from across India attended the FDP and got benefited. The FDP was conducted as an initiative to enrich the knowledge of the participants on Industrial Revolution 5.0. The FDP focused on the importance of Industrial Revolution 5.0 in multiple fields including Machine Learning Algorithms with Data Science, IoT etc. Hands on session on data analytics and Machine Learning with python were conducted to facilitate experiential learning among the participants. Feedback from the participants was collected and E-certificates were provided to all the participants.



Topic	Resource Person	Affiliation
Industry 5.0: Enabling Technologies	Dr. Arjun Singh	Manipal University Jaipur
Potential Applications of IR 5.0	Dr. Sunil Kumar	SCIT, Manipal University, Jaipur
IIOT	Mr. Juvin Agrawal	Ellins Technologies Pvt. Ltd., Faridabad
Applications of industry 5.0 in different industry	Dr. Arun Solanki	Gautam Buddha University, NOIDA
Discussion on Real-time time scenario of AI/ML industry 5.0	Dr. Ashiv Shah	TIFAC, AKGEC, Ghaziabad
Role of AI/ML in Industry 4.0 & 5.0	Mr. Shobhit Tyagi	Impetus, NOIDA
Artificial Intelligence and Machine Learning use cases	Dr. Charu Agarwal	AKGEC, Ghaziabad
Demonstration of real time use case on Finance/ Insurance and similar domain	Mr. Shobhit Tyagi	Impetus, NOIDA
Industry 5.0: Enabling Technologies	Dr. Sonam Gupta	AKGEC, Ghaziabad

FDP on Unblock Blockchain

A five-day online FDP on “Unblock Blockchain” was successfully conducted by the department of Information Technology from 1st to 5th August 2022. The FDP received an overwhelming response with number of 94 participants from various engineering colleges/ Universities across India.

The FDP was devoted to enhance the knowledge of participants in one of the fast-growing Technologies, Blockchain. The FDP included conceptual content about block chain, cryptocurrencies, smart contract, different use cases of blockchain and provided hands-on experience through programming and simulation software to the participants for enhanced learning.



Topic	Resource Person	Affiliation
Blockchain Technology Introduction and Architecture	Dr. Ferdous Ahmed Barbhuiya	IIT, Guwahati
Cryptocurrency (Bitcoin)	Dr. Raju Halder	IIT, Patna
Security aspects of blockchain	Dr. Raju Halder	IIT, Patna
Blockchain Use Cases - How to choose blockchain projects, Case studies	Dr. P. Raghu Vamsi	JIIT, NOIDA
Solidity Smart Contracts	Dr. P. Raghu Vamsi	JIIT, NOIDA
Blockchain Decentralized Applications	Dr. P. Raghu Vamsi	JIIT, NOIDA
Cryptography in Blockchain Technology	Dr. Amit Singhal	RKGIT, Ghaziabad
Applications of Blockchain	Dr. Anupama Sharma	AKGEC, Ghaziabad
Hands-On for Blockchain	Mr. Purushottam Chaudhary	DLT Labs

2nd Advance Idea Lab FDP on Smart Manufacturing

To drive the AICTE initiative forward, the college organised 2nd Advance Idea Lab FDP on Smart Manufacturing, under AICTE Training & Learning (ATAL) Academy, for a week 1-7 December 2021.

The FDP participants were eminent Academicians, designated as Tech Gurus of newly selected IDEA Labs who participated 11 states of the country, including Assam, West Bengal, Andhra Pradesh, Haryana, Rajasthan, Maharashtra, Jharkhand, Tamil Nadu, Telangana, Karnataka, Madhya Pradesh.





Topic	Resource Person	Affiliation
IDEA Lab Management, Projects & Students Access	Dr. Sandeep Sharad Anasane	NSC Member, COE Pune
IPR & Patent	Dr. Y.D. Panwar	Scientist-F AICTE & NSC Member
Embedded Electronics & Programming	Prof D. V.Gadre	NSUT Delhi & NSC Member
IDEA Lab Opportunities & Potential for Industrial Projects	Prof Ashiv Shah	COO ASF & NSC Member
Design Thinking	Mr. Varun Schanandiya	Founder - Proactivre I



Hands-on session on 3D Printing



Hands-on session on Designing & Scanning



Hands-on session on Laser Cutting & Engraving



Hands-on session on CNC Wood router

FDP on Electric Vehicles: State of the Art, Challenges and Way forward

Department of Electrical & Electronics Engineering organised an FDP on “Electric Vehicles: State of the Art, Challenges and Way forward” at Ajay Kumar Garg Engineering College, Ghaziabad during 22-26 August 2022. The FDP was organized to deliberate on the existing EV technology, expected challenges and the way forward. The Programme focused on theoretical aspects as well as provided hands on experience to the participants in MATLAB/Simulink environment.



Topic	Resource Person	Affiliation
Introduction and overview of electric vehicles	Mr. Arindam Lahiri	Automotive Skill Development Council, India
EV architectures and components	Mr. P. Arjun Raj	Miles Value Foundation, USA
Electric Motors for EV applications	Dr. Ashish Srivastava	Shri Vishwakarma Skill University
EV charging and the grid	Dr. Amritesh	National Institute of Technology Silchar (NITS)
Charging standards for electric vehicles and state of the art	Dr. Ashish Srivastava	Shri Vishwakarma Skill University
Energy Management in Hybrid and Electric Vehicles	Dr. BedatriMoulik	Amity University NOIDA
Electric Vehicle Technology: Recent Developments and Future Challenges	Dr.Desh Deepak Sharma	MJP Rohilkhand University, Bareilly
Power Electronic Converters for EVs	Dr. Soumya Shubhra Nag	Indian Institute of Technology, Delhi
Mechanical Design & Packaging	Mr. Alok Bhatnagar	Lloyd Group of Institutions
Application of multiphase induction machine for EV application	Dr. Ramesh Singh	KIET, Ghaziabad
Bidirectional Converters for EV Battery Charging	Dr. Sanjay Gairola	G B Pant Institute of Engineering and Technology, Pauri
Fuel Cell Technologies for EV Applications	Mr. Pradeep Chandrasekharan	Ola Electric Technologies, Bangalore
State of art, feasibility & future scope of EV	Dr. Arun Verma	MNIT, Jaipur
Design and development of EVs charging infrastructure with grid integration	Mohd. Khalid & Mr. Debasish Mishra	IIT Delhi

CONFERENCE

Advances in Materials and Mechanical Engineering

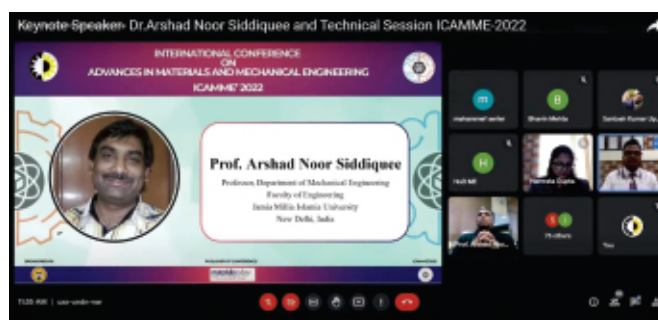
The department of Mechanical Engineering organized an online peer reviewed international conference on Advances in Materials and Mechanical Engineering (ICAMME-2022) during 18th to 19th February 2022. The primary goal of the conference was to promote research and development activities needed for the next generation and focus on all promising areas of Materials and Mechanical Engineering. The conference theme was divided into three broad categories namely: (1) Materials and Technologies, (2) Advanced Manufacturing Technologies, and (3) Design, Simulation & Analysis. The conference attracted good response. More than 120 papers were received from which 65 papers were selected for the presentation and 63 papers were published in Materials Today: proceedings by Elsevier.

The Chief Guest for the conference was Prof. Sanjeev Bedi from Waterloo University, Canada and Prof. Sachin Maheshwari from Netaji Subhas University of Technology New Delhi was the Guest of Honour. The Chief Guest for the valedictory Function was Prof. Nikhil Gupta from NYU Center for Cyber security, New York and Prof. Sunil Pandey, JNU, New Delhi, India was the Guest of Honour.

To deliver the keynotes, esteemed members from academia and industry were invited with the following details:

Title of speech	Keynote Speaker	Affiliation
Advanced Manufacturing technologies	Prof. Gurel Cam	Iskenderun Technical Univ. Turkey
Materials and Technologies	Prof. Xizhang Chen	Wenzhou University, China
Materials and Technologies	Prof. A.N. Siddiquee	Jamia Millia Islamia University, New Delhi, India
Design, simulation and analysis	Prof. Mukul Shukla	MNNIT, Prayagraj

More than 200 participants were in the inaugural session and in the valedictory session and around 80 participants in each technical session. The presenters from International Universities such as the University Centre of Relizane Algeria, South Africa, Iskenderun Technical University, Turkey, University of Diyala, Iraq, King Saud University, Saudi Arabia, etc. presented their research papers in the conference. The researchers from IIT Madras, IIT Roorkee, IIT Dhanbad, Jamia Millia Islamia University New Delhi, Netaji Subhas University of Technology New Delhi, College of Engineering Pune, Vellore Institute of Technology, Tamil Nadu, NIT Jamshedpur, NIT Srinagar, NIT Durgapur, MNNIT Allahabad, Inter-University Accelerator Research Institute, New Delhi, etc. participated in the conference.



RESEARCH AND DEVELOPMENT

Research Papers Published by the Faculty Members

The college encourages its faculty members and students to undertake high quality research in newly emerging areas of engineering, technology, science and humanities. In 2021-22, the faculty members at AKGEC have published the following list of research papers in refereed journals and conferences at national and international level:

Ajay Pratap Singh et.al., “**CFD Analysis of Airfoil Shaped Wings and Blades Neuro Quantology**” in Scopus July 2022, Volume 20, Issue 7 Page No 1950-1954.

Dr. Vivek Singh et.al., “**CFD Analysis of Airfoil Shaped Wings and Blades Neuro Quantology**” in Scopus July 2022.

Mani Dwivedi, Anuj Kumar Dwivedi “**A study on the Role of Machine Learning in Natural Language Processing**”, International Journal of Scientific Research in Computer Science Engineering and Information Technology, (IJSRCSEIT), vol.8, Issue 4, July 2022, DOI:<https://doi.org/10.32628/CSEIT228429>UGC Indexed.

Nirmal Garg, Vikas Rastogi and ParasKumar (2022), “**Process parameter optimization on the dimensional accuracy of additive manufacture Thermoplastic Polyurethane (TPU) using RSM**”, Volume 62, Part 1, June 2022, Pages 94-99.

Jitendra Yadav, Prashant Choudhary, Nitish Yadav, Pranav Kumar Singh, Naman Gupta, Kush Bansal, Namrata Gangil, Arshad Noor Siddiquee (2022), “**Microstructural Investigation on Friction Stir Welded AA6063 Pipe**”, Volume 62, Part 1, June 2022, Pages 331-335.

Alok Vardhan, Ajit Kumar Pandey & Ajay Pratap Singh, “**Effect of various operating parameters on the steady-state performance of the bent axis motor**”, International Journal, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage, 2021. Indexed in SCIE, Impact factor: 1.620, ISSN: 0954-4089, Volume: 236 issue: 3, pp.1034-1046, June 22. DOI: <https://doi.org/10.1177/09544089211054400>.

Kumar, H., **Anuradha**, et al “**Advance cataloguing method for breast cancer detection**” International Journal of Health Sciences (IJHS), June 2022, <https://doi.org/10.53730/ijhs.v6nS1.7708>, Indexed in Scopus.

Vikash Kumar et.al., “**Miniature Pallet extruder concept for Robotic 3 D printing application**” in International journal of robotics and automation indexed Scopus June 2022.

Dr. Parneet Kaur “**Exploring the world of Markdown & Markit**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Hitesh Tripathi, Jaykeerti, Kanksi Sigh, Kirti Raghuvanshi, **Dr. Anupama Sharma** “**PLUTO: Online Judge System**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Payal Garg “**EQSR for enhancing QoS Parameters in Wireless Sensor Networks**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Yashaswi Srivastava, **Dr. Rashmi Sharma** “**NLP (Natural Language Processing)-A Tech for Future**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Shreya Maheshwari, **Sahil Kumar Aggarwal** “**Non-Fungible Tokens-Innovation Beyond the Craze**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Shiddarth Srivastava, **Shilpi Gupta** “**Non-Fungible Tokens**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Vishal Mishra, **Dr. Abhilasha Singh** “**Garbage Management Using IOT**” Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Dr. Shivani Agarwal, Kajal Srivastava **“By Using Supervised Learning Detect Vehicle License Plate”** Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Ujjval Tripathi, Riya Singhal, **Anmol Jain “Internet of Things (IoT): Digital Management of Future”** Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022

Simran Chadda, Siddhant Maurya, **Lucknesh Kumar “Distracted Driver Detection”** Infobytes-Journal of Information Technology Vol 13 No. 1 January-June 2022.

Parneet Kaur “Sentiment Analysis using Web Scraping for Live News data with Machine Learning Algorithms” International Conference on Materials Science and Sustainable Manufacturing Technology (ICMSSMT) Technically Sponsored by Elsevier - Materials Today: Proceedings held on 21.05.2022 published under ELSEVIER.

Verma, S., Taluja, H., Chaudhary, P., Anuradha, **“Defect detection of solar photovoltaic modules using inceptionV3 Deep CNN”** in NeuroQuantology, May 2022, doi: 10.14704/nq.2022.20.5.NQ2265, Indexed in Scopus.

Singh, A., Chauhan. S., **Sonam Gupta**, Yadav. A., **“Intrusion Detection System Using Deep Learning Asymmetric Autoencoder (DLAA)”** International Journal of Fuzzy System Applications, Volume 11 Issue Apr 2022 pp 1-17 <https://doi.org/10.4018/IJFSA.296590>, Indexed in Scopus.

Anu Goel, Richa Bhatia, **“Performance Analysis of Multi-User Diversity Schemes on Interference Limited D-GG Atmospheric Turbulence Channels”**, International Conference on Electrical and Electronics Engineering (ICEEE-2022), vol. 893, pp. 426-436, April 2022, Springer.

Dr. Amrita Jyoti, Rashmi Mishra, Rupa Rani, Ravi Kalra **“Evoting Using Blockchain Technology”** Janardan Rai Nagar Rajasthan Vidyapeeth, Udaipur, Rajasthan, India 6th International Conference on the theme “Computational Intelligence and Communication Technology” DOI link: https://doi.org/10.1007/978-981-16-9756-2_7 held on 29.10.2021 published under Springer dated 06.04.2022.

Dr. Amrita Jyoti, Rashmi Mishra, Vandana Gupta, Shweta Chauhan **“Blockchain Technology Concepts, Applications and Issues—A Survey”** Janardan Rai Nagar Rajasthan Vidyapeeth, Udaipur, Rajasthan, India 6th International Conference on the theme “Computational Intelligence and Communication Technology” DOI link: https://doi.org/10.1007/978-981-16-9756-2_3 held on 29.10.2021 published under Springer dated 06.04.2022.

Prasenjit Das, **Jay Kant Pratap Singh Yadav**, Singh, L., **“Deep Learning based Tomato’s ripe and Unripe classification System”**, International Journal of software Innovation, 10.4018/IJSI.292023, March 2022, Indexed in Scopus & ESCI.

Jay Kant Pratap Singh Yadav, J., Yadav, S., **“Computer-aided diagnosis of cataract severity using retinal fundus images and deep learning”**, <https://doi.org/10.1111/coin.12518>, March 2022, Indexed in SCIE

Jaishree Jain, Jain. A, Srivastava, S., Verma, C., Raboaca, M., and Illés, Z. **“Improved Security of e-healthcare images using Hybridized Zero Watermarking and Hyper Chaotic System along with RSA”**, Mathematics, <https://doi.org/10.3390/>, March 2022, Indexed in SCIE.

Santosh Kumar Mishra “An efficient multi-Thresholding based Covid-19 CT images segmentation using Henry Gas solubility optimization” CPJ College of Higher Studies & School of Law on the theme Advanced practices in Management & Information Technology ISBN: 978-93-88465-62-5 held on 25.03.2022.

X. Ma, Q. Jiang, M. Shojafar, M. Alazab, **Sachin Kumar**, **“DisBezant: Secure and Robust Federated Learning Against Byzantine Attack in IoT-Enabled MTS”** IEEE Transactions on Intelligent Transportation Systems, Feb 2022, <https://doi.org/10.1109/TITS.2022.3152156>, Indexed in SCI.

Pratima Singh, Garg, S., et al., “**Machine Learning based Health Care in Neurology**”, in International Journal of Mechanical Engineering, https://kalaharijournals.com/resources/IJME_Vol7.1_592, Feb 2022, Indexed in Scopus.

Yashaswi Srivastava, **Dr Rashmi Sharma** “**Revolution in Digital Payment through IT**” PIMR 17th International Conference (Hybrid Conference) on the theme “Assimilating the Transformation in Business, Entrepreneurial and Social Practices for Leaping into the Future” DOI link: <https://pimr.com> held on 19.02.2022 & 20.02.2022.

Yashdeep, Pranjali Sharma, **Dr Rashmi Sharma** “**Growth and Impact of Social Media**” PIMR 17th International Conference (Hybrid Conference) on the theme “Assimilating the Transformation in Business, Entrepreneurial and Social Practices for Leaping into the Future” DOI link: <https://pimr.com> held on 19-20 Feb 2022

Pratima Singh, **Seema Garg**, Shanavi Sharma, Pranjali Singh, “**Machine Learning based Health Care in Neurology**”, International Journal of Mechanical Engineering, Vol. 7 No. 1 (January, 2022) (Scopus).

R. Sharma, R. S. Nallanthighal and A. De, “**Design and Analysis of RFID Antenna for White Space TV Band**” 2022 International Conference for Advancement in Technology (ICONAT), 21-22 Jan 2022.

Alok Vardhan (2022), “**Effect of various functional parameters on the dynamic trend of bent-axis motor**”, Volume 62, Part 1, 2022, Pages 118-122

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Komal Gupta, Inderjeet Kaur, **“A Hybrid Approach using Convolutional Neural Network Model and Image Processing for Crop disease Detection”** 3rd International Conference/Doctoral Symposium on Computational Intelligence (DoSCI-2022)

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Kavya Goel, Sonam Gupta, Lipika Goel, **“Empirical Review on Just in Time Defect Prediction”**, 5th International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT”, (ICETCE-2022)

Neeraj Gupta, Saurabh Chaudhary, Priyanka Bharti, Sumit Kumar Singh, Randhir Yadav, **“Conveyor belt Based Process Plant Using Arduino UNO”**, International Conference on Advances in Electrical and Electronics Engineering (ICAEEE), SCOPUS indexed conference.

Patents

Faculty Name	Patent Name	Patent No.	Year	Status
Dr. Inderjeet Kaur	Crop management system	202211042662	July, 2022	Published
Ms. Anuradha	A method for Intelligent Bid price selection for profit accumulation using Machine learning,	202211036448	July, 2022	Published
Dr Rashmi Sharma	Smart Bins using IoT sensors	202211038714	July, 2022	Filed
Dr Rashmi Sharma	System and Method for Reckless Driving	202211032405	June, 2022	Published
Dr. Amrita Jyoti	Smart Dustbin	2021105080	June, 2022	Published
Dr Rashmi Sharma	Motor Bike theft prevention system and method	202211025206	April, 2022	Published
Mr. Ajay Kumar	Walking stick for blind person with multiple sensors	2021104044	April, 2022	Granted
Dr. Suman Bhatia	Intelligent Robotic exoskeleton and brain sensing headband to enable paralyzed patients to locomote.	202241018061 A	April, 2022	Published
Mr. Lucknesh Kumar	IOT based health monitoring system through wearable sensors	202211020425	April, 2022	Filed
Dr. Anupama Sharma Dr Ruchi Gupta	Cloud and IOT based secure home automation system using speech through google assistant	202211022229	April, 2022	Filed
Dr. Suman Bhatia	Design of Machine Learning classification algorithm using Image processing for detection of vegetable crops disease.	202241012480 A	March, 2022	Published
Ms. Anuradha	System and method for achieving cyber security of internet of things (iot) devices using embedded recognition token	202221001572	Feb, 2022	Published
Dr. Amrita Jyoti Mr. Anmol Jain	IOT based waste management system	02211003443 A	Feb,2022	Published
Dr.Abhilasha Singh	Artificial intelligence and Machine Learning based intelligent system to improve the quality of Video Call Experience	202241001299	Feb,2022	Published
Dr. Anu Chaudhary	AI and ML based effective and accurate system for predicting heart disease and improving health care sector	202211003382	Jan, 2022	Published
Ms. Yogita Chhabra	Investigation into the factor that influence the IOT based smart Hospital design	202141045557	Oct, 2021	Published
Ms. Richa Sharma	Active rider safety system for two wheelers	396781	Oct, 2021	Granted
Dr. Ruchi Gupta	Data Distribution between the ambulance and railway crossing database using an intelligent ambulance guiding unit	202111037373A	Sept,2021	Published
Mr. Ajay Kumar	An IOT based solar washing machine	2021103399	August, 2021	Granted
Dr. Anupama Sharma	Machine Learning Model for Predicting Severity Prognosis in Patients infected with COVID-19	2021105080	Aug, 2021	Grant
Jay Kant Pratap Singh Yadav	Smart healthcare solutions for patient monitoring and predicting pathological status using AI and IoT-Based Technology	2021101734	May, 2021	Granted
Jay Kant Pratap Singh Yadav	Sustainable remote assisted & transportable neonatal care device for jaundice treatment	2021101143	April, 2021	Granted

Sponsored Research Projects

Automatic Cataract Detection and Grading using Convolution Neural Network

This project was funded under the Visvesvaraya research promotion scheme of Dr. A. P. J. Abdul Kalam Technical University Lucknow, India. The objective of the project was to develop an efficient and accurate automatic cataract detection as well as grading system using a convolution neural network (CNN). The proposed work converted into the Computer Aided Diagnosis (CAD) system to help eye specialists and the general public.

The concept used in this project has two advantages over other existing systems, the first one is the elimination of interference in local uneven illumination and the reflection of eyes, by using the retinal fundus images after G-filter which contributes significantly to CNN classification. The second one is the enhancement in CNN classification accuracies with more stable fluctuation range for increased number of samples.

Compressed Parallel Wavelet Tree Based Semantic Search

This project is funded by UPCST with a financial grant of Rs. 10.44 lakhs for three years. The objective of this project is to present the variants of text data compression technique that will provide a new and interesting trade-off between the space and time performance. This approach will help in fast transfer of data from one point of network to another. The compressed wavelet tree data structure will reduce the memory usage of the text file. The salient feature of the tool to be developed under this project is that it will support retrieval of relevant documents for a given query by considering keywords provided in the query by users. The prototype tool is being developed based on Compressed Wavelet Tree (CWT) data structure using LZW compression technique for textual information indexing and retrieval that will help to reduce the time and space to retrieve the relevant documents with respect to the user query. This tool can be used for variety of applications for specific fields such as tourism/education/judiciary etc., so that if a person is interested to retrieve relevant documents specifically from these fields (belonging to a geo-graphic location), can do it efficiently. The PI of the project is Dr. Sonam Gupta and Co-PIs are Dr. Arun Kumar Yadav & Dr. Divakar Yadav.

GUEST LECTURES BY EMINENT EXPERTS

Several guest lectures were organized throughout the academic year by all the departments. The speakers were from reputed organizations and industries who shared their experience and knowledge on emerging technologies.

Name of Person	Designation and Institute/Industry	Topic	Date
Mr. Sandeep Singh	Assistant Director (mobile), ALTTC, Ghaziabad	Key Enablers technologies for 5G & future Generation	27.06.2022
Mr. Kapil Agarwal	General Manager at Sales and Marketing Jindal AI Ltd.	Sales and Marketing Strategies	02.06.2022
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd. NOIDA	Introduction to Big Data	31.05.2022
Mr. Murali Mohan Kamineni	Team Lead, TELUS International, NOIDA	Soft Skills in the Corporate Sector	27.05.2022
Dr. Akhilesh Verma	Sr. Engg. Bhumi Entech Pvt. Ltd., Delhi	Recent trends in Communication	13.05.2022
Mr. Mridul Bhardwaj	Program Manager, HCL Technology, NOIDA	Data Science & Artificial Intelligence to Drive Business Optimization	29.04.2022
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd. NOIDA	World revolve with Big Data	29.04.2022
Mr. Mradul Jain	Project Manager, Daynil Group Software Solution Pvt. Ltd., Mumbai	Scrum Ceremonies in Agile	29.04.2022
Mr. Jatin Bahel	Associate Manager, HCL Technologies, NOIDA	Life Coaching and Motivation	29.04.2022
Mr. Naresh Singh	Assistant Director, ALTTC, Ghaziabad	Wireless Network and Security	28.04.2022
Mr. Murali Mohan Kamineni	Team Lead, TELUS International, NOIDA	Data Analysis and ISMS Policy	25.04.2022
Dr. Mohd Rihan	Professor, Electrical Engineering Department, Aligarh Muslim University, Aligarh	Role of Green Energy Transition in Electric Power Systems	01.04.2022
Dr. Ashish Srivastava	Professor and Dean (SFASH & IQAC, Skill Faculty of Engineering & Technology, Shri Vishwakarma Skill University Transit Campus, Gurugram, Haryana	Power Electronics Role of in LED Lighting	01.04.2022
Mr. Mradul Jain	Project Manager, Daynil Group Software Solution Pvt. Ltd., Mumbai	Scrum Agile Methodology	31.03.2022
Mr. Murali Mohan Kamineni	Team Lead, TELUS International, NOIDA	Automation Testing Tool, Selenium	30.03.2022
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd. NOIDA	Software Development Methos	30.03.2022
Mr. Mridul Bhardwaj	Program Manager, HCL Technology. NOIDA	Data Analytic and its Impact in Impairing Business Efficiency using Latest Technology	30.03.2022
Mr. Utsav Maurya	Entrepreneur	Career Opportunities and Entrepreneurship for Mechanical Engineers	20.03.2022
Mr. Amit Tiwari	Project Manager, BEL, Ghaziabad	RF Communication	03.03.2022
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd. NOIDA	Basic Intro of Agile Methodology	28.02.2022
Mr. Mradul Jain	Project Manager, Daynil Group Software Solution Pvt. Ltd., Mumbai	Managing IT Business Project	28.02.2022

Name of Person	Designation and Institute/Industry	Topic	Date
Dr. Brijesh Kumar Gupta	Director, BRAANET Tech, Ghaziabad	IoT - Evolution to Revolution	28.02.2022
Mr. Pramod Kumar Shukla	Business Analyst, BT Data and Servyaing India Pvt. Ltd., NOIDA	Machine Learning Hot Era of Software	24.02.2022
Mr. Murali Mohan Kamineni	Team Lead, TELUS International, NOIDA	Agile Scrum Methodology	24.02.2022
Mr. Pranad Seth	Senior Manager, TATA Motors	Introduction to Hybrid & Electric Vehicle	09.02.2022
Mr. Nishi Chandra	Marketing Head, Loom Solar	An introduction to Solar System and its Applications & Career options in the Solar System Engineering	02.02.2022
Mr. Rajesh Kumar Prajapati	Senior Project Manager, Steep Rise Infotech Pvt Ltd., NOIDA	Hands-On Experience with the AWS Platform	28.01.2022
Mr. Anuj Singhal	Doctoral fellow, University of Illinois at Chicago (UIC), USA	Electrical Vehicles Future	19.01.2022
Mr. Mridul Bhardwaj	Project Manager, HCL Technologies, NOIDA	Real Time Data Analytics and Its Application	30.12.2021
Ms. Anuradha Singh	Program Manager, North America Data Security & Privacy-IBM	Cyber Security	27.12.2021
Mr. Anoop Kumar	Manager, IT, BEL	Cyber Security	27.12.2021
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd. NOIDA	Artificial Intelligence: Challenges and Opportunities	23.12.2021
Mr. Naresh Singh	Assistant Director, ALTTC, Ghaziabad	Wireless Network and Security	23.12.2021
Mr. Rahul Bansal	Practice Director, Data & Analytics, Centric Consulting Gurgaon	Getting in to IT	08.12.2021
Prof. R.P. Maheswari	Ex-Professor, IIT Roorkee	Developments in Protective Relaying	06.12.2021
Prof. Tarikul Islam	Professor, JMI New Delhi	The Sensors to Perceive Environment	01.12.2021
Mr. Murali Mohan Kamineni	Team Lead, TELUS International, NOIDA	Software Quality	30.11.2021
Mr. Mradul Jain	Project Manager, DaynilGoup Software Solution Pvt. Ltd., Mumbai	Industry Academic Gap: How to Overcome with it	30.11.2021
Mr. Vishal Vinayak Majumdar	Specialist Technology, Sapient Publicis, NOIDA	Non-Fungible Token	30.11.2021
Mr. Kunwar Aditya Bhusansingh	Manager, Steel Authority of India Limited, Asansol, West Bengal	Life in Iron and Steel Industry	29.11.2021
Dr. B.K. Gupta	Director, BRANNET Technologies	Internet of Things	26.11.2021
Mr. A.K. Tondon	Ex. Professor, DTU Delhi & Professor BPIT, Delhi	Electromagnetism and its application in Power Engineering an activity-based presentation	28.10.2021
Mr. Satyam Shukla	Sr. Manager, GAIL India Limited	Gas Flow in Pipe Lines	28.10.2021
Mr. Mridul Bhardwaj	Project Manager, HCL Technologies, NOIDA	Data Analytic and its Impact in Improving Business Efficiency using Latest Technology	28.10.2021

Name of Person	Designation and Institute/Industry	Topic	Date
Mr. Meenu Singhal	Vice President & Global Distribution Head, Industry Automation, Schneider Electric, Delhi	Basics of Speed Control	27.10.2021
Mr. Badri Narayan	Group Chief Operating Officer, Imbue Education Pvt. Ltd., NOIDA	Business & Innovation Tales-Home and Beyond	26.10.2021
Mr. Satish Anand	International Author, Motivational Speaker, MDP Trainer, CDAC, Patna Bihar	How To Crack Top Rated Placements, Higher Education & Scholarship	20.10.2021
Mr. Wilson Mathur	Project Manager, ACRO Technology Pvt. Ltd NOIDA	Introduction to Big Data	30.09.2021
Mr. Pramod Kumar Shukla	Business Analyst Data and Surveying Services India Pvt. Ltd., NOIDA	Importance and Scope of Business Analysis in Software Development	29.09.2021
Dr. Praveen Pandey	Director, QACA Academy Pvt. Ltd.	Heat Transfer by Conduction	28.09.2021
Mr. Amit Tiwari	Senior Research Officer, BEL, Ghaziabad	RF & Microwave basics, Development and Advancements	23.09.2021
Mr. Ashutosh Kumar Srivastava	DGM, NPPC, Dadri	Power Sector Scenario in India	20.09.2021

ALUMNI TALKS

AKGEC Alumni are doing excellent in their fields and college often invite them for sharing their respective fields, with the current students. Many Alumni talks were organized in 2021-22, with the listing as follows:

Name of Person	Designation and Institute/Industry	Topic	Date
Mr. Himanshu	Sr. Software Developer, Astrea IT Services	Technical skills required in current IT industry	17.06.2022
Mr. Rohan Asthana	Researcher in Ulm University, Germany	Future Application of Deep Learning	09.06.2022
Ms. Pankhuri Mahajan	Software Engineer, Airtel, Gurugram	New Technology in Telecommunication Company	05.05.2022
Mr. Satish Pandey	Entrepreneur, Nutraceutical, Delhi	Grow yourself to thrive in career and life	29.04.2022
Mr. Rigved Kumar	Engineer, Microsoft, NOIDA India	Campus to Corporate	29.04.2022
Mr. Suresh Upadhyay	Engineer, Google, Bangalore, India	How to Target Product based CO	22.04.2022
Mr. Madhuraj Mishra	Business Analyst, MUFG Bank London	How can students work on global assignments while living in India	04.03.2022
Mr. Satyam Agarwal	Scientist, US	Sales Effectiveness Analyst at Mongo DB in Dublin	06.01.2022
Mr. Shubh Singhal	Innovative and Performance driven Entrepreneur	Avenues to Entrepreneurial Success	17.12.2021
Mr. Harshit Agarwal	Sales Effectiveness Analyst Mongo DB Dublin	Sales Analysis in Mongo DB	16.12.2021
Mr. Arun Vishwakarma	Lead developer, R Systems International, NOIDA	Campus Placement Talk cum Technical Talk on web development	27.11.2021
Mr. Raj Maurya	Data Scientist, Diwo (A Decision Intelligence Company), Hyderabad	Understanding Data Science, Machine Learning and Quantum Machine Learning Applications	27.09.2021
Mr. Prakhar Gupta	System Engineer, Infosys, Pune.	Campus Placement	25.09.2021

FDPs attended by Faculty members

Various FDPs were conducted as an initiative to enrich the knowledge of faculty members through interaction with eminent personalities and resource persons from various academic institutions.

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Advancements of Cyber Security	Dr. B.C. Roy Engineering College, Durgapur	22 - 26 August 2022	Dr. Sonam Gupta	Computer Science Engineering
Blockchain	Jaypee Institute	25 - 30 July 2022	Dr. Charu Agarwal	Computer Science Engineering
Graph Analytics Application	JIIT, NOIDA	25 - 30 July 2022	Ms. Anjali Chauhan	Computer Science Engineering
Online FDP on Blockchain Technology & its Applications (BTA'22)	JITT, NOIDA	25 – 30 July 2022	Ms. Arpna Saxena	MCA
“Inculcating Universal Human Values in Technical Education	AICTE	18 – 22 July 2022	Dr Rashmi Sharma	Information Technology
Psychological process in teaching learning process CFD Analysis of Airfoil-	Saraswathi Tyagraj College	11 - 16 July 2022	Dr. Charu Agarwal	Computer Science Engineering
Shaped Wings and Blades	Drnoacharya Group of Institution Greater NOIDA, India	08 - 09 July 2022	Mr. Ajay Pratap Singh	TIFAC
Universal Human Values Level -1 Refresher	AKGEC, Ghaziabad	04 - 08 July 2022	Dr. Anil Kumar Rai Ms. Navjyoti Sharma Ms. Nidhi Singh Mr. Neeraj Gupta	Electrical & Electronics Engineering
Universal Human Values Level -1 Refresher	AKGEC, Ghaziabad	04 - 08 July 2022	Ms. Anubha Gupta Mr. Ashish Vishwakarma	Civil Engineering
UHVPE Leve-1 Refresher	AKGEC, Ghaziabad	04 – 08 July 2022	Ms. Jaishree Jain	Computer Science Engineering
National Level FDP on NAAC Accreditation for Teacher Education Institutes	Azad College of Education, Satara, Maharashtra, India	01 - 08 July 2022	Dr. Charu Agarwal	Computer Science Engineering
NAAC accreditation for teacher education	Azad college, Satra	01 - 08 July 2022	Ms. Anuradha	Computer Science Engineering
UHV-II	AKGEC, Ghaziabad	04 - 08 July 2022	Mr. Pronab Kumar Adhikari	Computer Science Engineering
Machine Learning to Deep Learning: A Journey for Remote Sensing Data Classification	IIRS, Dehradun	04 - 08 July 2022	Ms. Neerja Arora	Computer Science Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Fundamentals of Drive & Automation	NIT, Kurukshetra	02 - 07 July 2022	Mr. Dinanath Prasad	TIFAC
Machine Learning and Data Science using Python: Hands-on Approach	Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India	24 – 28 June 2022	Mr. Raghuraj Singh	Computer Science Engineering
Recent Advances in Computer Science and Allied Domains (RACSAD-2022)	Sharda University Greater Noida	20 – 25 June 2022	Dr. Amrita Jyoti	Information Technology
Industrial Revolution 5.0	Department of Computer Science, AKGEC, Ghaziabad	06 – 10 June 2022	Dr. Anupama Sharma Dr. Aditya Pratap Singh Dr. Amrita Jyoti	Information Technology
Industrial Revolution 5.0	AKGEC, Ghaziabad	06 - 10 June 2022	Ms. Jaishree Jain Mr. Pronab Kr. Adhikari Mr. Raghuraj Singh Ms. Anuradha	Computer Science Engineering
Online FDP on Industrial Revolution 5.0	AKGEC, GZB	06 - 10 June 2022	Dr. Saroj Bala Ms. Mani Dwivedi	MCA
Recent Trends in Mechanical Engineering	SRM University, Modinagar	23 - 28 May 2022	Dr. Vivek Singh Mr. Abhishek Gupta	TIFAC
Advance Idea Lab FDP	AKGEC, Ghaziabad	02 - 06 May 2022	Mr. Vikash Kumar Mr. Puneet Saini Ms. Gaganpreet Kaur Ms. Suvarna Majumdar	TIFAC
Faculty Development Program on Basic Idea Lab	AKGEC, Ghaziabad	02 - 06 May 2022	Mr. Vikash Kumar Mr. Puneet Saini Ms. Suvarna Majumdar	TIFAC
NEP-Reinventing Equality and quality in higher education	ABESIT, Engineering College, Ghaziabad	14 – 16 April 2022	Dr. Shivani Agarwal Mr. Pancham Singh Ms. Mrignainy Kansal	Information Technology
Workshop Technical writing using LaTeX	VIT-AP University, Amaravati, Andhra Pradesh	07-13 April 2022	Mr. Naresh Kumar	Electronics & Communication Engineering
Universal Human Values	ABES, Ghaziabad	06 – 13 April 2022	Mr. Anmol Jain	Information Technology
Faculty Development Program- Student Induction	AKGEC, Ghaziabad	06 -13 April, 2022	Mr. Virendra Pal Singh	Information Technology
UHV-I	AKGEC, Ghaziabad	06 - 13 April 2022	Ms. Chhaya Yadav Ms. Ayushi Gupta Mr. Pronab Kr. Adhikari Ms. Vaishali Rastogi Mr. Anurag Gupta Ms. Anjali Chauhan Ms. Neerja Arora	Computer Science Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Seminar on 'Science, Technology and Society: The Promise for Next Generation'	IIT Delhi	29 Mar - 07 April 2022	Dr. Aruna Tyagi	Electronics & Communication Engineering
Machine Learning and Computer Vision	YMCA, JC BOSS	21 - 26 March 2022	Ms. Rinki Chauhan	Information Technology
Research Trends in Wireless Sensor Networks	Wipro	07 – 16 March 2022	Ms. Tahira Mazumder	Information Technology
Research trends in Data Analytics, Information Security and its Applications	Department of Computer Science and Engineering, Chandigarh University, Mohali,	09 – 13 March 2022	Dr. Anupama Sharma Dr. Ruchi Gupta Mr. Anmol Jain	Information Technology
Machine Learning and Computer Vision (STTP)	Tripura Institute of Technology, Agartala, Tripura	07 – 12 March 2022	Dr. Anupama Sharma	Information Technology
Machine Learning and Computer Vision	Computer Science & Engineering Department, Tripura Institute of Technology, Agartala, Tripura, India, AICTE	07 – 12 March 2022	Dr. Shivani Agarwal Dr. Rashmi Sharma Dr. Abhilasha Singh Ms. Akanksha Shukla	Information Technology
Introduction to Modern Technologies of Smart Grid	Graphic Era, Dehradun, Uttarakhand	07 – 11 March 2022	Dr. Vani Bhargava	Electrical & Electronics Engineering
Novel Materials	AKGEC, Ghaziabad	07 – 11 March 2022	Dr. Suman Gothwal Dr. Alok Vardhan Mr. Vivek Kumar Pansari Mr. Gajesh Kumar Mr. Vishwas Grover	Mechanical Engineering
Industrial Robot Operation & Programming	AKGEC, Ghaziabad	07 – 11 March 2022	Dr. Pallab Biswas Dr. K.K. Mittal Mr. Anshul Kr Panchbhaiya Mr. Gajesh Kumar Ms. Akriti Gupta Mr. Ajay Kant Dubey Mr. Ashutosh Yadav	Mechanical Engineering
Modern Trends in Manufacturing and Thermal Science	NIT Delhi	07 – 11 March 2022	Dr. Alok Vardhan Mr. Puneet Saini	Mechanical Engineering
Unleashing Research Potential: Global Trends and Practices	Office of International Relations, Galgotias University, Greater Noida	07 – 11 March 2022	Dr. Ruchi Gupta Mr. Anmol Jain Mr. Virendra Pal Singh	Information Technology
Data Science: Understanding the current Landscape Using R	NIT Warangal & CVR College of engineering, Mangapalli	07 – 11 March 2022	Mr. Sahil Kr Aggarwal Ms. Sumita Lamba Ms. Payal Garg Mr. Virendra Pal Singh Ms. Rinki Chauhan	Information Technology

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Unleashing Research Potential: Global Trends and Practices	Galgotias University	07 - 11 March 2022	Mr. Anuj Kumar Dwivedi	Computer Science Engineering
Unleashing Research Potential: Global Trends and Practices	Galgotias University, Gr. NOIDA	07 - 11 March 2022	Ms. Indu Verma Ms. Mani Dwivedi	MCA
Introduction to Modern Technologies of Smart Grid	Graphic Era University.	07 - 11 March 2022	Mr. Gaurav Srivastava	TIFAC
Lab VIEW Essentials for Test, Measurement & Control	AKGEC NI Lab VIEW Academy	28 Feb–05 March 2022	Dr. Sukhwinder Singh Dhillon Dr. Vani Bhargava Dr. Sarika Kalra Mr. Deepak Narang Mr. Dinanath Prasad Mr. Harsh Mohan Sharma	Electrical & Electronics Engineering
NI-Lab view	AKGEC Skills, Ghaziabad	28 Feb-05 March 2022	Mr. Nirmal Garg Mr. Amit Kumar Tripathi Mr. Shubham Choudhary	Mechanical Engineering
Quantum Computing: Challenges and Opportunities	MIET, Meerut	28 Feb–05 March 2022	Dr. Shivani Agarwal Ms. Payal Garg Mr. Anmol Jain	Information Technology
Quantum Computing: Challenges and Opportunities	Dept of IT, MIET Meerut in association with Computer Society of India (CSI)	28 Feb-05 March 2022	Mr. Pankaj Sharma	Computer Science Engineering
Online six days FDP on Emerging Technologies	Jeppiar Institute of Technology	20 Feb-05 March 2022	Ms. Arpna Saxena Ms. Indu Verma	MCA
LABVIEW	AKGEC Ghaziabad	28 Feb-05 March 2022	Dr. Amit Garg Ms. Amita Asthana Mr. Anup Kumar Ms. Neha Garg	Electronics & Communication Engineering
Artificial Intelligence for IoT Services in Cloud: Techniques & Applications Jalandhar, Punjab, India	Dr B R Ambedkar National Institute of Technology	28 Feb-04 March 2022	Mr. Vishal Jaiswal	Computer Science Engineering
Artificial Intelligence for IoT Services in Cloud: Techniques & Applications Jalandhar, Punjab, India	Dr B R Ambedkar National Institute of Technology	28 Feb - 04 Mar 2022	Mr. Raghuraj Singh	Computer Science Engineering
Full Stack Development	ABES Engineering College, Ghaziabad	21–26 February 2022	Dr. Shivani Agarwal	Information Technology
Data Analytics, Big Data and machine learning applications	Bansal Institute of Engineering and Technology, Lucknow	21–26 February 2022	Dr. Shivani Agarwal	Information Technology

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Data Analytics Big Data Machine Learning and Applications	IAMR, Ghaziabad	21 – 26 February 2022	Ms. Akanksha Shukla	Information Technology
Issues and Challenges of Grid Connected Renewable Energy Sources (ICGCRE-22)	Jamia Millia Islamia, New Delhi	21 - 25 February 2022	Dr. Vani Bhargava Dr. Sukhwinder S. Dhillon Dr. Dibya Bharti Ms. Nupur Mittal Mr. Dinanath Prasad Mr. Ankit Dixit Mr. Arjun Baliyan	Electrical & Electronics Engineering
AI and ML for Intelligent Applications Using Python and MATLAB	ABES, Ghaziabad	21 - 25 February 2022	Mr. Sarvachan Verma	Information Technology
Issues and Challenges of Grid-connected Renewable Energy Resources	Jamia Milia Islamia New Delhi	21 – 25 February 2022	Mr. Gaurav Srivastava Mr. Dinanath Prasad	TIFAC
Online 10 days FDP on IOT & Applications Smart Systems	E&ICT (IIT-Guwahati)	14 - 25 February 2022	Ms. Arpna Saxena	MCA
Recent Advancement & future scope of research in electrical and electronics Engineering	RKGIT, Ghaziabad	21 – 25 February 2022	Mr. Dinanath Prasad	TIFAC
Decentralizing trust with Blockchain Technology	MVN University	21 - 23 February 2022	Mr. Vishal Chaudhary Ms. Anuradha Ms. Lakshita Sejwal	Computer Science Engineering
Emerging trends in data analytics 2022	Amity University Noida	17 – 21 February 2022	Dr. Parneet Kaur Mr. Virendra Pal Singh Mr. Pancham Singh Ms. Mrignainy Kansal	Information Technology
Computational Intelligence: COIN 2022	BBDNIIT, Lucknow	16 – 20 February 2022	Dr. Shivani Agarwal Ms. Akanksha Shukla	Information Technology
Quantum Computing -Building Concepts	Amity university Lucknow	07 – 11 February 2022	Mr. Sarvachan Verma	Information Technology
Practical aspects of ML Engineering	KNIT, Sultanpur	07 - 11 February 2022	Dr. Sonam Gupta	Computer Science
Practical Aspects of Machine Learning	KNIT Sultanpur	07 - 11 February 2022	Ms. Arti Pandey	Computer Science Engineering
Outcome Based Teaching Learning Process	AICTE, Ghaziabad	07 – 09 February 2022	Mr. Anmol Jain	Information Technology
Outcome Based Teaching Learning Process	IAMR, Ghaziabad	07 - 09 February 2022	Ms. Lakshita Sejwal Mr. Vishal Chaudhary Ms. Anuradha	Computer Science Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Data Analytics using Advance Excel	ICT Academy, IIT Kanpur	01 - 07 February 2022	Ms. Anuradha	Computer Science Engineering
Online FDP on Trends in Cyber Security and Machine Learning	IPEC, GZB	31 Jan – 04 Feb 2022	Dr. Saroj Bala Ms. Indu Verma	MCA
Recent trends in Cyber Security and Machine Intelligence	Inderprastha Engineering College Ghaziabad (U.P.)	31 Jan–04 February 2022	Dr. Parneet Kaur Mr. Virendra Pal Singh Dr. Rashmi Sharma Ms. Payal Garg Mr. Panchamsingh Dr. Anupama Sharma Mr. Sundeep Raj Ms. MrignainyKansal	Information Technology
Role of Smart cities in society 5.0	ATAL	17 – 21 January 2022	Dr. Shivani Agarwal Ms Akanksha Shukla	Information Technology
Modern Teaching Technologies in Higher Education	Sariya College, Jharkhand	07 - 09 January 2022	Ms. Lakshita Sejwal	Computer Science Engineering
Deep Learning & computer Vision	ATAL	03 - 07 January 2022	Dr. Shashank Sahu	Computer Science Engineering
Finite Element Methods (FEM) For Engineers	Department of Mechanical Engineering, Rajasthan Technical University, Kota	26–30 December 2021	Dr. Devendra Singh	Mechanical Engineering
Recent trends and Advancements in ANN and deep Learning for Real time application	Rungta College of Engineering and Technology Bhilai	20 - 24 December 2021	Dr. Abhilasha Singh	Information Technology
FDP on Machine learning applications in Signal Processing	Delhi Technological University	20-24 December 2021	Mr. Naveen Kumar Saini	Electronics & Communication Engineering
Cyber Forensic and information security	NIT Jalandhar	16–20 December 2021	Dr. Shivani Agarwal Ms Akanksha Shukla	Information Technology
Cyber Forensic & Information Security Jalandhar, Punjab, India	Dr B R Ambedkar National Institute of Technology	16–20 December 2021	Mr. Raghuraj Singh Mr. Vishal Jaiswal Mr. Anurag Gupta	Computer Science Engineering
ATAL FDP on Advanced Statistical & Machine Learning Models	Indian Institute of Information Technology, Ranchi	05-19 December 2021	Dr. Saroj Bala	MCA
Online workshop on NAAC	Jharkhand Government MSME Tool Room, Ranchi	13–18 December 2021	Dr. Sunita Yadav Dr. Inderjeet Kaur Dr. Suman Bhatia Mr. Pradeep Gupta	Computer Science Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Workshop on NAAC	Jharkhand Govt Tool room (Online Mode)	13–18 December 2021	Dr. Anil Kumar Rai Mr. Ritesh Sharma Mr. Atul Sood	Electrical & Electronics Engineering
Online Workshop on NAAC	Jharkhand Government Tool Room, Ranchi	13–18 December 2021	Dr. Anu Chaudhary Dr. Anupama Sharma Mr. Sahil Kr. Aggarwal	Information Technology
"Machine Learning in Infotainment Systems	BNM Institute of Technology	13- 17 December 2021	Dr. Abhilasha Singh	Information Technology
Advance Idea Lab Faculty Development Program on "Smart Manufacturing"	AKGEC, Ghaziabad	01 - 07 Dec 2021	Mr. Vikash Kumar Mr. Puneet Saini Ms. Gaganpreet Kaur Ms. Suvarna Majumdar	TIFAC
3-D Printing and Design	Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana	22–26 November 2021	Dr. Devendra Singh	Mechanical Engineering
Future Wireless Technologies	AKGEC, Ghaziabad	15-20 November 2021	31 faculty members of ECE Department	Electronics & Communication Engineering
Power Electronics Interface & Drives for Electric Vehicles	MNIT Allahabad (Online Mode)	13–17 November 2021	Dr. Sarika Kalra	Electrical & Electronics Engineering
Welding Investigation on AA 6063 T6 Aluminium alloy during Friction Stir Welding and Arc Welding process	CIMS - 2021 Held Online at NIT Jalandhar	11–13 Nov 2021	Mr. Ajay Pratap Singh	TIFAC
ATAL FDP on Machine Learning	Bharti Vidyapeeth college of Engg. for women, Pune	08–12 November 2021	Dr. Saroj Bala	MCA
Wipro Certified Training Program	AKGEC, Ghaziabad	04 – 22 October 2021	Mr. Pardeep	Information Technology
Cloud forensic	NIT, Sikkim	18 Oct - 21 Oct 2021	Ms. Arpna Saxena	MCA
Cyber Security : Special Emphasis on Cyber Crimes and investigation	Sardar Patel University of Police, Jodhpur	11 - 15 Oct 2021	Ms. Arpna Saxena	MCA
Online Patent Course Engineering	Turnip Innovations	30 Sep-14 October 2021	Ms. Jaishree Jain	Computer Science
2-week online Patent course	Turnip Innovations by Dr. Rahul Kapoor	30 Sep-14 October 2021	Ms. Jaishree Jain	Computer Science Engineering
a2z of NBA Accreditation Process"	IPEC, Ghaziabad	24 Sep – 09 October 2021	Dr. Anu Chaudhary	Information Technology

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Artificial Intelligence in Healthcare	ATAL	27 Sep–01 October 2021	Dr. Parneet Kaur	Information Technology
Orientation Training Program for Mentors	NITTTE, Chandigarh	27 Sep – 01 October 2021	Dr. Anupama Sharma	Information Technology
Intelligent computing in healthcare	National Institute of Technology, Raipur	20-24 September 2021	Ms. Indu Verma	MCA
IOT	NIT Warangal & NIT Tiruchirapalli	13-17 September 2021	Mr. Sahil Kr. Aggarwal	Information Technology
Train the Trainer program on Java Programming conducted by Infosys	Infosys	06-13 September 2021	Ms. Neha Bagwari	Computer Science Engineering
Building Data Science Applications with Python	Raj Kumar Goel Institute of Technology, Ghaziabad	07-11 September 2021	Dr. Sonam Gupta	Computer Science Engineering
Recent Advancement & Future Scope of Research in Electrical & Electronics Engineering	RKGIT, Gzb (Online Mode)	06–10 September 2021	Mr. Dinanath Prasad	Electrical & Electronics Engineering
Research Methodology	Galgotias University, Greater NOIDA	06-10 September 2021	Mr. Santosh Kr. Upadhyay	Computer Science Engineering
Industrial Applications of Machine Learning and Artificial Intelligence	Manipal University, Jaipur	06-10 September 2021	Ms. Indu Verma	MCA
Universal Human Values Refresher 1 (part 1 & 2)	AKGEC, Ghaziabad	01–08 Sept 2021	Dr. Sukhwinder S. Dhillon Mr. Deepak Narang Ms. Nupur Mittal Mr. Harsh Mohan Sharma	Electrical & Electronics Engineering
UHV Refresher 1 (part 1 & 2)	AKGEC, Ghaziabad	01–08 Sept 2021	Dr. Ruchi Gupta	Information Technology
Universal Human Values Refresher 1 (part 1 & 2)	AKGEC, Ghaziabad	01 – 08 Sept 2021	Mr. Mahesh Sharma	TIFAC
UHV Refresher 1 (part 1 & 2) Engineering	AKGEC, Ghaziabad	01 – 08 Sept 2021	Mr. Anuj Kumar Dwivedi	Computer Science
UHV Refresher 1	AKGEC, Ghaziabad	01- 08 Sept 2021	Dr. Abhishek Joshi Dr. Rahul Bansal Dr. Jitender Chhabra Ms. Amita Asthana Mr. Anup Kumar Mr. Himanshu Nagpal Ms. Anu Goel Ms. Tukur Gupta Ms. Suvarna Mujumdar Mr. R. P. Singh	Electronics & Communication Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
STTP on Machine Learning and Analysis Phase-1	University College of Engineering Kakinada (A), JNTUK, Kakinada sponsored by AICTE	30 Aug–04 Sept 2021	Dr. Sonam Gupta	Computer Science Engineering
Data Science and Artificial Intelligence in Chemical Engineering: Recent trends and Future Outlook	MVJ College of Engineering, Bangalore	31 Aug–04 Sept 2021	Ms. Pooja Sharma	Computer Science Engineering
Deep Learning & Applications (Parallel Architectures)	IIIT, Jabalpur	23 Aug–03 Sept 2021	Mr. Pardeep Ms. Yogita Chhabra	Information Technology
Deep Learning & its Application (Parallel Architecture)	E&ICT Academy	23 Aug–03 Sept 2021	Ms. Neha Bagwari	Computer Science Engineering
Future Advancement in the Field of Telecommunication & Embedded System	RKGIT, Ghaziabad (Online Mode)	24–30 August 2021	Mr. Shani Kr Pandey	Electrical & Electronics Engineering
Future Aspects in Design, Manufacturing & Safety	Rustamji Institute of Technology, BSF Academy Tekanpur	24 - 28 August 2021	Mr. Jitendra Yadav	Mechanical Engineering
Cyber Security in Digital Era	BGSB, University, Rajouri	23–27 August 2021	Dr. Parneet Kaur	Information Technology
Embedded Systems - An Application Driven Approach	AICTE, ATAL Academy	25–27 August 2021	Dr. Ruchi Gupta	Information Technology
School of Liberal Education & School of Education	Galgotia University	23 - 27 August 2021	Ms. Indu Verma	MCA
Data Science	G L Bajaj Institute of Technology and Management	16 – 20 August 2021	Dr. Aditya Pratap Singh	Information Technology
ATAL FDP on Data Science	G.L. Bajaj College, Gr. NOIDA	16 - 20 Aug 2021	Ms. Mani Dwivedi	MCA
Research challenges issues and trends in soft computing and machine learning	IIIT, Jabalpur	09–19 August 2021	Ms. Tahira Mazumder	Information Technology
Data Science	ATAL (G L Bajaj)	16 -18 August 2021	Mr. Anuj Kumar Dwivedi	Computer Science Engineering
Hybrid Machining and Additive Manufacturing	IPEC, Ghaziabad	26 July-10 August 2021	Dr. Namrata Gangil	Mechanical Engineering
Novel Prospective of Smart materials	IPEC, Ghaziabad	26 July–10 August 2021	Dr. Namrata Gangil	Mechanical Engineering
FDP on Novel Perspective of Smart Materials, Hybrid Machining & Additive Manufacturing	IPEC, Ghaziabad	26 July-10 August 2021	Dr. Namrata Gangil	TIFAC
AI in Revolutionizing Engineering	ATAL	19 - 23 July 2021	Dr. Inderjeet Kaur	Computer Science

Short duration FDPs, Seminar and Workshop

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
IPR awareness/training program under the mission "National Intellectual Property Awareness Mission (NIPAM)"	Intellectual Property Office and MoE's Innovation Cell, India at AKGEC	29.06.2022	Ms. Neerja Arora Mr. Pankaj Sharma Mr. Raghuraj Singh	Computer Science Engineering
National Intellectual Property Awareness Mission	Intellectual Property Office and MoE's Innovation Cell, India	19.06.2022	Ms. Anchal Negi Ms. Anubha Gupta	Civil Engineering
Design Patents in India conducted by turnip innovations	Turnip Innovations	20.05.2022	Ms. Jaishree Jain	Computer Science Engineering
"National Education Policy 2020-Challenges and Opportunities for Educational Institutions"	Ganpati Institute of Science & Technology	16.04.2022	Ms. Anuradha Mr. Vishal Chaudhary	Computer Science Engineering
"National Education Policy 2020-Challenges and Opportunities for Educational Institutions"	Ganpati Institute of science & Technology	16.04.2022	Ms. Lakshita Sejwal	Computer Science Engineering
Lesson Planning	Sarswati College of Professional Studies, Ghaziabad	12 - 13 April 2022	Ms. Lakshita Sejwal Mr. Vishal Chaudhary Ms. Anuradha	Computer Science Engineering
A new & forward-looking vision for teacher education	Sarswati College of Professional Studies, Ghaziabad	05 - 06 April 2022	Mr. Vishal Chaudhary Ms. Anuradha Ms. Lakshita Sejwal	Computer Science Engineering
Problem Solving	MIT, Pune	10.02.2022	Ms. Lakshita Sejwal	Computer Science Engineering
Problem Solving	MIT, Pune	10.02.2022	Mr. Vishal Chaudhary	Computer Science Engineering
National Intellectual Property Awareness Mission	Intellectual Property Office, India	08.02.2022	Dr. Alok Vardhan Mr. Amit Kumar Tripathi	Mechanical Engineering
National Intellectual Property Awareness Mission	AKGEC, Ghaziabad	08.02.2022	Dr. Inderjeet Kaur Mr. Vishal Chaudhary Ms. Anuradha Mr. Raghuraj Singh Mr. Pankaj Sharma Ms. Lakshita Sejwal Mr. Pronab Kr Adhikari Ms. Arti Pandey	Computer Science Engineering
Data Analysis Tools for Research	PG College Pithoregarh	04.01.2022	Ms. Indu Verma	MCA
How to formulate a research problem serial no. RG/WB23/0728	Research Graduate	25.12.2021	Ms. Jaishree Jain	Computer Science Engineering
Attended 2 hour live webinar on reviewing a literature for formulating a research problem serial no. RG/WB22/1695	Research Graduate	18.12.2021	Ms. Jaishree Jain	Computer Science Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
CII Lean Six Sigma Black Belt Certification Course	Confederation of Indian Industry	21-22 Oct 2021, 28-29 Oct 2021, 11-12 Nov 2021	Mr. Abhishek Gupta	Mechanical Engineering
2021 IEEE Region 10 International Workshop on Panel of Conference Organizers (POCO-2021)	IEEE UP Section (Online Mode)	30.10.2021	Dr. Sarika Kalra Dr. J. G. Yadav	Electrical & Electronics Engineering
Cyber Security	NOIDA International University, Greater NOIDA	25.10.2021	Ms. Anuradha	Computer Science Engineering
Online Education	Council of Technical Education Foundation, India	16.10.2021 & 23.10.2021	Ms. Lakshita Sejwal Mr. Vishal Chaudhary Ms. Anuradha	Computer Science Engineering
Attended 2 hour live webinar on Data collection, Data interpretation and Data analysis	Research GATE	17.10.2021	Ms. Jaishree Jain	Computer Science Engineering
Emotional Intelligence	NOIDA International University, Greater NOIDA	11.10.2021	Ms. Anuradha	Computer Science Engineering

FACULTY

Faculty Promotions

Faculty Name	Designation	Department
Dr. Inderjeet Kaur	Professor	Computer Science & Engineering
Dr. Vani Bhargava	Associate Professor	Electrical & Electronics Engineering
Dr. Ruchi Gupta	Associate Professor	Information Technology
Dr. Parneet Kaur	Associate Professor	Information Technology
Dr. Amit Garg	Associate Professor	Electronics & Communication Engineering
Dr. Jitender Chhabra	Associate Professor	Electronics & Communication Engineering
Mr. Som Ashutosh	General Manager	AKGEC Skills
Mr. D. K. Singh	General Manager	AKGEC Skills

Higher Qualifications Attained

Name of Faculty	Department	Degree Awarded	Topic	University
Dr. Pradeep Jain	Mechanical Engineering	Ph. D.	Object Recognition using Artificial Neural Network	NIT Kurukshetra
Dr. Shivani Agarwal	Information Technology	Ph. D.	Prediction of Secondary Structure of Proteins by Using Soft Computing Technique	Uttarakhand Technical University, Dehradun
Dr. Jitender Chhabra	Electronics & Communication Engineering	Ph. D.	High Performance Active Building Blocks and Applications	JIIT NOIDA, UP
Dr. Karunesh	Electronics & Communication Engineering	Ph. D.	Design and Simulation of Microwave Filters & RF Devices	University of Allahabad, Allahabad, UP

New Members to the AKGEC Family

Faculty Name	Designation	Department
Ms. Lakshita Sejwal	Assistant Professor	Computer Science & Engineering
Ms. Chhaya Yadav	Assistant Professor	Computer Science & Engineering
Ms. Ayushi Gupta	Assistant Professor	Computer Science & Engineering
Mr. Pronab Kumar Adhikari	Assistant Professor	Computer Science & Engineering
Ms. Vaishali Rastogi	Assistant Professor	Computer Science & Engineering
Mr. Rajghuraj Singh	Assistant Professor	Computer Science & Engineering
Mr. Pankaj Sharma	Assistant Professor	Computer Science & Engineering
Mr. Vishal Chaudhary	Assistant Professor	Computer Science & Engineering
Mr. Vishal Jayaswal	Assistant Professor	Computer Science & Engineering
Ms. Anuradha	Assistant Professor	Computer Science & Engineering
Mr. Anurag Gupta	Assistant Professor	Computer Science & Engineering
Ms. Anjali Chauhan	Assistant Professor	Computer Science & Engineering
Ms. Neerja Arora	Assistant Professor	Computer Science & Engineering
Ms. Rekha Baghel	Assistant Professor	Computer Science & Engineering
Mr. Yogendra Narayan Prajapati	Assistant Professor	Computer Science & Engineering
Ms. Prachi	Assistant Professor	Computer Science & Engineering
Dr. Amrita Jyoti	Assistant Professor	Information Technology
Dr. Rashmi Sharma	Assistant Professor	Information Technology
Dr. Shivani Agarwal	Assistant Professor	Information Technology
Dr. Abhilasha Singh	Assistant Professor	Information Technology
Mr. Anmol Jain	Assistant Professor	Information Technology
Ms. Rinki Chauhan	Assistant Professor	Information Technology
Ms. Sumita Lamba	Assistant Professor	Information Technology
Mr. Sundeep Raj	Assistant Professor	Information Technology
Mr. Birendra Kumar	Assistant Professor	Information Technology
Mr. Virendra Pal Singh	Assistant Professor	Information Technology
Mr. Sarvachan Verma	Assistant Professor	Information Technology
Ms. Akanksha Shukla	Assistant Professor	Information Technology
Mr. Santosh Kumar Mishra	Assistant Professor	Information Technology
Mr. Sahil Agarwal	Assistant Professor	Information Technology
Ms. Nidhi Gupta	Assistant Professor	Information Technology
Dr. Nimish Srivastava	Assistant Professor	Electronics & Communication Engineering
Dr. Ritish	Assistant Professor	Electronics & Communication Engineering
Ms. Rajni Parashar	Assistant Professor	Electronics & Communication Engineering
Ms. Sulekha Saxena	Assistant Professor	Electronics & Communication Engineering
Ms. Pooja Mishra	Assistant Professor	Electronics & Communication Engineering
Mr. Sandeep Bhatia	Assistant Professor	Electronics & Communication Engineering
Mr. Puneet Saini	Scientific Officer	AKGEC Skills
Mr. Himanshu Tripathi	Scientific Officer	AKGEC Skills
Ms. Gaganpreet Kaur	Scientific Officer	AKGEC Skills
Mr. Sandeep Bhatia	Scientific Officer	AKGEC Skills

TECHNICAL CLUBS AND SOCIETIES

Oorja, the technical society of Electrical & Electronics Engineering Department, organized **Solardeck**, a seminar cum hands-on workshop on solar photovoltaic panel applications, on 3rd March 2022.

The workshop was in collaboration with Loom Solar. The captivating workshop received massive participation from students. The workshop began with the talk by invited guests, Mr. Amod Anand (Director – Loom Solar Pvt Ltd), Mr. Nishi Chandra (Head – Marketing) and Mr. Abhishek Rathore (Head – New Product Development), who is also an alumnus of AKGEC. During expert talk, the working and innovative applications of solar panels were discussed, followed by the discussion about possibilities of building a start-up. After the discussion, the hands-on session provided the real time experience to students on how a solar panel works and how it is used.



Roboignitor, a workshop on robots, was organized by **Oorja** on 20 February 2022. The workshop was organized for the 1st year students all across the branches. Post which 20 students were short listed through online registration to participate in the workshop. The idea behind conducting this workshop was to acquaint the students with various types of robots, their functioning and providing them a hands-on with the robots.

After delivering the theoretical aspects, the practical demonstration was given to the students. The 1st year students were asked to make 'WIFI-Controlled RC Car'. Student mentors were assigned for guiding the participants in the practical demonstration.

Effulgence, a technical, as well as non-technical event was organized on 26 October 2021. It was an enthralling event as it received massive participation of students from various departments. More than 100 teams participated. In the event which included three rounds: Scavenger Hunt, Picture Puzzle with Crossword and the Surprise Round. Scavenger Hunt round included two sub-rounds 1-A & 1-B. In Round 1-A, participants were given a list of 5 items and were asked to collect them within the stipulated time. In Round 1-B, participants were asked to find 5 flags of different colors in a given sequence, which were hidden on the college campus by the team Oorja. The winners of the event were the team Spartans.



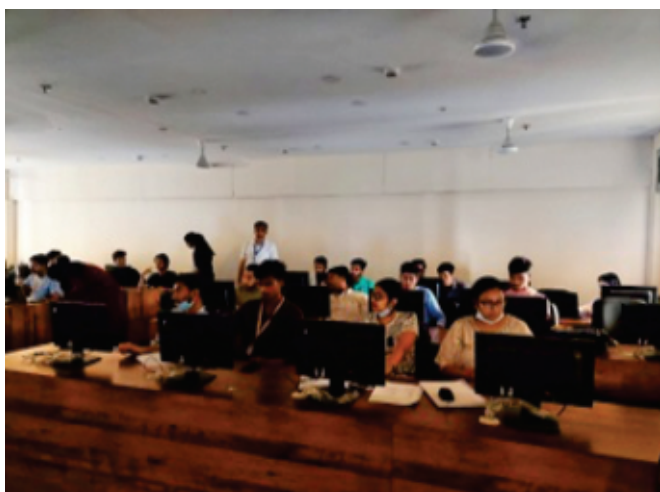
TECHNICAL CLUBS AND SOCIETIES

Nirmaan, the technical society of Civil Engineering Department conducted tow days event 'Aakar' from 6-8 December 2021 to enrich the students with skills and provide them the opportunity to explore their talent.

The event was conducted for 2nd and 3rd year students across all branches and consisted two parts: (1) Treasure Hunt (Fun Round) & (2) Bridge Making (Technical Round). During the first-round, out of 121 teams, 10 teams qualified for the second round. The second round was a 'Bridge making competition' where the participants were provided with ice-cream sticks and the required stationary material to prepare the bridge within the stipulated time.

Participants made beautiful bridges with provided material and left their preparations to dry for a day. On the day of testing, the aesthetic appearance of bridge, its dimensions as per the guidelines and the structure was judged by applying a gradual load of 18 to 20 kg. During the process of applying load, the point at which deflection occurred was considered as its sustained weight. And this event was a true of learning experience.

Nirmaan a towards event was conducted on **AutoCAD**, from 7-9 May 2022, to enrich the students with skills and provide them the opportunity to explore their talent in the domain of designing. This event was conducted for 1st, 2nd and 3rd year students across all the branches. It was held in the form of a workshop. The event was coordinated by Shashank Gangal, Shushant Tyagi and Tushar Singh from 3rd Year along with the society head Swetank Upadhyay and Prachi Goswami.



TECHNICAL CLUBS AND SOCIETIES

Samveg, the society of Mechanical Engineering department, had the fortune to conduct the college's first offline event named 'Battle of Thrones 2.0'. This tech-managerial event had four rounds in three comprehensive levels which prevailed for two days from 5-6 May 2022. Three teams were announced as the winners of Battle of Thrones 2.0:

- (i) Crew-X (BOT5) (ii) Alchemists (BOT5) (iii) RPD (BOT15)



An exquisite event was conducted by the Mechanical Engineering Department on 28th October 2021 under the aegis of **Indian Society for Technical Education (ISTE)**. This event was coordinated by Dr. K. K. Mittal and other three student coordinators Vaibhav Garg, Manya Singh and Abhishek Vishwakarma. The winners of this event were: (i) Aryaman Narwal and Gauri, (ii) Samkit Jain and Samyak Jain (iii) Dev Chauhan and Tanya Gupta.



SAE-AKSEC conducted a two day workshop '**Innovation 22**' from 7-8 May 2022. In which theme of the event was aimed to enhance the knowledge with focus on recreation, redesigning and renovation, automation, LED control, IR sensor, Arduino RFID etc. Dr. Vishwas Grover coordinated this event.

Team **Conatus** organized a two days event '**Clash of Synergy**' for 1st and 2nd year students of the college. The event was held from 9-10 May 2022. The format of event was team clash between all the participating teams. Every team size had 3 students and total 235 teams registered for this event names of winners are given below:

Team Name	Leader Name	Student No.
3 Idiots	Siddharth Singh	2111107
Team GenX	Ayush Yadav	2131104
Friends	Abhinav Kumar	2015302



TECHNICAL CLUBS AND SOCIETIES

Team **Conatus** organized 3-days workshop on web development, named 'Web', for the 2nd year students. The Web was held from 1st to 3rd Dec 2021 with registration of around 180 students, out of which 70 were invited for the workshop on first come first serve basis. The prime idea of the workshop was to introduce basics of web development to the participating students.

Post workshop, participants were given a UI based project on web development to develop a basic website based on HTML+CSS+Javascript for Prize round. The project was to be developed in 3 days using Github. Top 3 performers were awarded with the cash prizes and all the participants were awarded the certificates.



Phoenix, the society of Electronics & Communication Engineering Department marked 20th September as the 16th Founder's Day of Team Phoenix. A technical board was put upon 14th May 2022 by the Team Phoenix. The technical board was an implementation of a binary authentication circuit. It consisted of four LEDs which in working condition represented a binary digit where each LED represented a '1' if glowing



and a '0' if not. These coded binary digits were then converted to their equivalent hexadecimal value, for example, if the pattern of LED'S is "OFF ON OFF ON" then the equivalent binary code was 0101 and the equivalent hexadecimal value was 5.0

Phoenix organised a technical presentation event, based on Flexible Electronics topic event on 13th November 2021. Students of 2nd and 3rd year participated in the event and prepared a presentation on the given topic. Each team had four members.

The objective of presentation was to acknowledge students with emerging ideas in this fascinating and expanding world of engineering and technology. The event manifested the conglomeration of talent, intellect, innovation and a spirit of competition among the students. The presentations guided the students toward an appropriate path of creative thinking, planning and team work.

TECHNICAL CLUBS AND SOCIETIES

OSS R&D Centre Computer Science Engineering Department conducted “Node Jam” –a workshop on node JS and all its prerequisites including HTML, CSS and JavaScript. Node Jam was conducted to give a fresh start to students for web development, mainly in the field of backend development. The workshop started from the very basics of web development and gradually moved to the more advanced concepts of modern Java Script, Node, Express and MongoDB.

The workshop was successfully conducted in the computer centre from 26-28 May 2022. There were 35 students who participated in this workshop and all were provided with the certificates of participation. The workshop fulfilled its purpose by providing students the right path to become a full stack developer. It also helped students to have a deep understanding on web works and the pathway to learn development program.

The Programming Club of Computer Science & Engineering Department had organized a Coding Contest “**Bit Coders**” for the second-year students across all the branches on 20 April 2022.

The contest was organized on Hacker Rank platform with an aim to facilitate programming skills among second year students, so that they can cater the demands of IT industry. In this contest, students solved six programming problems assigned to them in the area of Data Structures and Algorithms. Results were generated by the Hacker Rank platform depending upon the time taken by the students to solve assigned problems and verifying their solutions on all test cases. 164 students appeared in this contest out of which top 03 winning students were awarded Cash Prizes as follows:

Sr. No.	Student Name	Roll No	Class / Section	Prize	Amount
1.	Bhavya Agrawal	2000271530017	CSE-AI&ML/1	1st	Rs. 2,000/-
2.	Abhishek Gupta	2000270110002	CSIT / 1	2nd	Rs. 1,500/-
3.	Priyanshu Solanki	2000270100124	CSE / 2	3rd	Rs. 1,000/-

Big Data Centre of Excellence, the Research and Development Centre of AKGEC works in the field of Big Data. Companies require Big Data Analysts to analyze the large amount of data being generated and gain insights from the data. Businesses are focusing more on agility and innovation, adopting BigData technologies help the companies achieve that in no time. The team aspires to develop skills in Big Data and gradually move from Machine Learning to Deep Learning and finally Artificial Intelligence. Following events were conducted in 2021-22 by the Big Data Centre of Excellence:



Cloud Computing Cell successfully conducted a workshop ‘Cloudsplore’ based on cloud and its application along with Hands-On-Experience on Virtual Machine creation on AWS and Github to all the participants. This event was open to all 1st and 2nd year students. A Quiz Competition was held by the workshop based on the concept taught, in which 140 students were as participants registered.

The top three winners of the event were awarded with cash prizes:

TECHNICAL CLUBS AND SOCIETIES

Rank	Name	Student No.	Branch	Prize
I	Atul Kumar	2113062	IT	Rs. 2000/-
II	Archas Srivastava	2112037	CS	Rs. 1200/-
III	Malika Garg	2112141	CS	Rs. 800/-

Team Cloud Computing Cell organized a recruitment drive – **SPOCC'21** on 7th October 2021. The event included two rounds with 1st round consisting of aptitude, HTML-CSS, C Language and cloud computing-based questions whereas the 2nd round was a personal interview round.

Team Cloud Computing Cell organised the **Hack Over Flow'21** – a coding contest on 3rd October 2021. It was an exciting event for relaxation from the monotonous college life adding fun day. This event included 3 coding questions which were to be solved in 60 minutes. This event tested the coding skills of participants. Solutions were submitted in any language like C, C++, Python, Java, etc. The winners and runner-up were given prizes. The top three winners of the event were as follows:

Rank	Name	Roll number	Branch
I	Sarthak Gupta	2000271530048	CSE (AI&ML)
II	Krishnay Mudgal	2000270130090	CS
III	Harshit Saxena	2000270110045	CS-IT

The Computer Society of India (CSI) has been paving the way for the IT industry to advance in the right direction. By indulging within itself most famous IT leaders, brilliant scientists and dedicated academicians, CSI has been highly successful in setting the highest benchmark in the field of professional competence with high-quality commitment. CSI student chapter of AKGEC has been one of the most active societies of the institute which keeps organizing the events and workshops on regular basis. The following events/workshops were conducted in 2021-22:

S. No.	Event Name	Faculty Coordinator	Student Coordinator	Date of Event
1.	CODESHELL 2.0	Mr. Lucknesh Kumar Mr. Pradeep	Aman Tyagi Satyam Singh	01/12/2021
2.	CINE '21	Mr. Lucknesh Kumar Mr. Pradeep	Kartik Mishra Keshav Arora	17/12/2021
3.	RENDER	Mr. Lucknesh Kumar Mr. Pradeep	Aman Tyagi Rajat Mangat	05/05/2022 to 08/05/2022

Codeshell 2.0 was a competitive coding contest held on 1st December 2021. In this contest, coding questions were asked from participants and they had to think of their solutions and imply it through whatever coding language they knew. The contest was conducted on Hacker rank platform. It was mainly focused to encourage participants towards programming and enhancing the problem-solving skills.

Students from 2nd, 3rd & 4th year participated in the contest. More than 250 students registered and the contest was conducted in two shifts. Top performers from every year were awarded with a cash prize of Rs. 6000/-.



TECHNICAL CLUBS AND SOCIETIES

CINE 21, CINE stands for CSI Induction for New Entrants. It was the recruitment drive of CSI for B.Tech 2nd year students for all the branches on 17th December 2021. CINE basically provides a platform for 2nd year students to outcast themselves based on their skills and be a part of Team CSI. The event consisted of three domains - Technical, Designing and Managerial. Technical Domain was an online test round conducted in CSIT labs in which 68 students cleared round-1 in technical domain. In Designing Domain, students were asked to design logo of the society and create some posters. 5 designers cleared this round. In managerial domain, students were asked to answer questions related to their managerial skills. 25 students cleared this round. Round 2 was an interview round where technical and behavioural questions were asked by 3rd & 4th year students depending on their skills and behaviour as well as their ability to work with team. 31 students were selected for probation period.



Render was a workshop for React JS, conducted from 5-8 May 2022. The main aim of organizing this event was to enhance practical knowledge of web development using the React JS library. A complete guide of HTML, CSS and JavaScript was given to the students along with quizzes and hands-on a live project. Students of 1st & 2nd year attended the workshop.



IEEE Student Chapter of Electronics & Communication Engineering Department

Team Phoenix successfully conducted its annual workshop ROBOVERSE'22 on 14 May 2022 on two emerging technologies viz. Augmented Reality (AR) and Virtual Reality (VR). The workshop was conducted under the aegis of IEEE student chapter of ECE department, Focused on the introduction to Augmented Reality and Virtual Reality, their working, application, future scope and differences between them. The first topic of the workshop was Augmented Reality (AR) which is an enhanced version of the real physical world that is achieved through the use of digital visual elements, sound, or other sensory stimuli delivered via technology. It is a growing trend among companies involved in mobile computing and business applications in particular. The second topic of the workshop was virtual reality which is a computer-generated environment with scenes and objects that appear to be real, making the user feel they are immersed in their surroundings. The workshop was concluded successfully with 83 attendees from the B.Tech. 1st year.



EVENTS @ AKGEC



SILVER JUBILEE CELEBRATION

Ajay Kumar Garg Engineering College celebrated the commencement of its Silver Jubilee Year and 25th Year of Academic Excellence, on 24th September 2022, as a tribute to all the stakeholders who contributed to its exceptional growth during last 24 years that resulted in excellent academic results, laurels at national and state levels, excellent placements, and world-class infrastructure. The event was organized at various venues inside the college premises and was attended by faculty, staff, and students.

The event commenced in the Amphitheatre with lamp lighting ceremony and inaugural speech by Dr. R. K. Agarwal, Director General of the college, followed by Ganesh Vandana. Subsequently around 140 students of various cultural societies of the college viz Footprint, Horizon, Verve, Goonj, Euphony and Taal presented a mesmerizing stage performance for around three hours. The sports events were simultaneously organized which included table tennis, carom, chess and badminton for faculty and staffs. Cultural fest like Rangoli, Face Painting and Mehndi competitions for students were also conducted concurrently. Salient aspects of the program were as follows:

1. Magnificent performances such as semi-classical dance, mimicry, and Kalkram various cultural societies of the college.
2. Nukkad Natak depicting relationships were brilliantly showcased by team Goonj.
3. Euphony students conducted a jamming session after the open house performances in the evening and the program ended with Flash Mob by team Taal.

The stage performances and other events/competitions were very well planned and organized by the Team Footprint and Horizon societies of the college. The Event was covered by Photography and Media Club.



SPIRITUAL TALKS

Managing Expectations

Expectations are deeply rooted in every human being. Most of the time, it is the expectations that derives our feelings, thoughts, and actions. However, many times it become a common source of stress in our lives. This happens when expectations exceed the limit. We tend to expect a lot from the other person we think close to or loved one. We simply expect more than our limit toward whom we are expecting. When the expectation breaks, we tend to lose simple happiness and feel depressed. That's the reason why it becomes important to understand and review our own expectations.

In view of the same, VE Cell at AKGEC organized an offline session on **"Managing Expectations"** conducted by BK Sangeeta Didi, a CA and Tax Consultant by profession, now a spiritualist from the well-known organization Brahma Kumaris. She has been a facilitator in many prestigious organizations. The session was held on 27th November 2021 (Saturday), followed by meditation and Q&A round.

The main focus of the session was on seven virtues of Soul Viz. (1) Knowledge, (2) Peace, (3) Purity, (4) Love, (5) Happiness, (6) Bliss and (7) Will Power. All FMs and students of the college attended the lecture.



True Love in Relationship

Value Education Cell, AKGEC organized a spiritual seminar on 'True Love in Relationships' on 10th June 2022 for the students and faculty members. The expert speaker for the session was B K Sangeeta Didi. She, as a spiritualist, has been deeply studying the practical applications of Rajyoga meditation and knowledge in varied fields of life over the last 40 years. She has done spiritual services at many places in India as well as abroad including Mauritius, Singapore, Malaysia and Russia. Didi has been a regular facilitator at Air India, Jet Airways, Singapore Airlines, Indian Oil Corporation, Ministry of Railways, BHEL etc.

VE Cell students welcomed Didi and briefly introduced the topic to all the dignitaries and audience present in the session. Clarity about a true love was extracted as

everybody's aspiration, initiating the session. Didi enlightened the minds to understand the real meaning of love in life, and talked about the state of detachment ('I' attitude) to Love ('You' attitude). She helped in observing thoughts, views and issues related to the misconceptions in Love and gave several examples where life became easy and joyful with the understanding of feelings in a relationship. After an one-hour of spiritual talk on the topic, she responded to everybody's questions and doubts with calmness and clarity and engaged everyone in her speech.



CELEBRATIONS

AZADI KA AMRIT MAHOTSAV: HAR GHAR TIRANGA

‘Har Ghar Tiranga’ a campaign under the aegis of Azadi Ka Amrit Mahotsav for encouraging people to bring the Tiranga home and hoist it to mark the 75th year of India’s independence. Bringing the flag home, collectively as a Nation, in the 75th year of independence is symbolic of not only an act of personal connection to the Tiranga, but also an embodiment of our commitment to Nation building.

To promote the same, AKGEC invited Col. T. P. Tyagi (Retd.), Veer Chakra, President-Rastriya Sainik Sanstha on 12th August 2022. He was impressed by Netaji Subhash Chandra Bose and talked about his life as a great example of leadership from which modern Indian leaders can learn many lessons. He was enthusiastic, disciplined, selfless and inspiring leader with strong confidence on his own capability and a clear goal of independent India.

The idea behind the initiative was to invoke the feeling of patriotism in the hearts of the students, faculty and staff members as well as to promote awareness about the Indian National Flag.



CELEBRATIONS

Independence Day And Republic Day

Under the Azadi Ka Amrit Mahostav 73rd Republic day and 76th Independence day on 26th January 2022 and 15th August 2022 were receptively celebrated in the college premises with great enthusiasm and fanfare. The celebration started with the Flag hoisting by the Director General in the college front lawn, followed by his speech. In his speech, the Director General congratulated all and highlighted the importance of this day of pride. Through his speech he reminded everyone about the agony of being enslaved, the pain that our martyrs suffered during the fight for freedom and the enormous sacrifices made by them to make it possible for us to live in a free India. He addressed that as proud citizens of this country, it is our responsibility to sincerely perform our duties and progress together for the growth and development of our country. The speech was followed by a Cultural Program by college students.



On the occasion of Indecence day, the Director General distributed awards to class IV employees of the college for their excellent performance and service to the society. After the award ceremony, the Director General, Deans, Heads, Section In-charges, faculty & staff members and students paid tribute to our freedom fighters by offering flowers to their framed photographs which included the pictures of Bhagat Singh, Mahatma Gandhi, Subhash Chandra Bose, Jawaharlal Nehru, Dr. Rajendra Prasad, Lala Lajpat Rai, Lal Bhadur Shashtri, Bal Gangadhar Tilak and other great heroes. The program was further followed by the march past by everyone present. The Program was seen lived on YouTube link.

Distribution of sweets amidst the playing of patriotic songs marked the end of the celebration.



International Yoga Day

Since 2015, the International Yoga Day is celebrated every year on 21st June to spread awareness about the important health benefits of practising yoga. Yoga not only provides physical and mental relaxation but also develops strength and resilience. The numerous benefits of Yoga make it a popular practice for people across the globe. The message of Yoga in promoting both the physical and mental well-being of humanity has never been more relevant. A growing trend of people around the world embracing Yoga to stay healthy and rejuvenated and to fight social isolation and depression has been witnessed during the past decade.

Like the previous years, faculty and staff members of AKGEC celebrated International Day of Yoga during the period of Azadi Ka Amrit Mahostav. It was 15 days long, regular Yoga programme for college students, faculty and staff members, conducted in the college premises from 6th June 2022 under the supervision of Dr. Brij Pal Singh, yoga expert from Patanjali Yogpeeth. The program culminated on 21st June 2022 with a mass Yoga Program in presence of the Director General, Heads of the various Departments, Deans, Section In-charges, Faculty & Staff members and the College Students.

Dr. M. K. Seth, ITS, CGM, ALTTC, Retd. Yoga and Meditation Expert, Samachar Ratna conducted sessions on multiplex yoga, deep relaxation Yog Nidra and Belly breathing for Directors, Deans, Section In-charges, Heads and 200 faculty & Staff members in the college Seminar Hall. Dr. Brij Pal Singh trained yoga expert from Patanjali Yogpeeth conducted yoga sessions for approximately 20 faculty members and 1200 boys' students in boys' hostel and college football ground. Col. M. K. Pandey, Retd expert yoga expert from Patanjali Yogpeeth conducted yoga sessions for approx. 15 faculty members and 700 girls in girl's hostel and college sports ground.



SOCIAL RESPONSIBILITY



Refugees Camp

In 2020, AKGEC adopted a Hindu refugee camp. The camp, which has 111 households and more than 650 family members overall, is located in Adarsh Nagar, Delhi. These refugees are from the Pakistani city of Hyderabad. The camp's inhabitants support themselves on a daily basis by selling things like fresh veggies, phone covers etc.

The college team frequently visits the refugee camp to observe the people's daily problems of the refugees and learn about their living situations. The college team discovered that the residents needed winter clothing and hygiene-related supplies during a recent visit to the camp. Each family living in the camp received supplies from the college, including blankets, shawls, soaps, plastic buckets, dustpans, and brooms. School children living in the camp were also given books and stationery supplies. The college built a school room for the camp's young children as well as a sewing machine center for basic training of the camp inhabitants to encourage them establishing a source of daily income. This was done based on the request from the camp residents and having recognized the necessity. To

distinguish and secure the school campus, a fence was built.

To all the families living in the camp, the college gave out rations and vegetables for daily use, along with money for any further needs like milk for the kids or making tea.

For the benefit of the students, the institution also purchased and offered sports equipment such as slides, swings, and Seesaws. Also the school's campus was planted with green grass on the lawn area. Additionally, flowering plants were positioned along the fence and on the grounds of the school. Tube lights, sewing machine and ceiling fans were installed in the classroom. In order to lay electrical cable and provide area lighting on the school grounds, bamboo poles had to be built. The installation of a solar power plant to supply the school's campus with energy, fans, and lights, as well as to run a submersible pump to irrigate the plants and grass, was also completed.

The college maintains constant touch with the camp's inhabitants to offer assistance, assist with daily needs, and improve the quality of camp life.



Adoption of Kazipura Municipal School Ghaziabad

As part of its commitment to giving back to society, Ajay Kumar Garg Engineering College Ghaziabad adopted Kazipura Village, which is located 3 km from the college, AKGEC has started a variety of developmental initiatives for the **“Prathmik Vidyalya Kazipura”**, a school run by the Nagar Kshetra Municipal Corporation in Ghaziabad.

AKGEC began managing the school in 2014, and the following actions have been consistently done to ensure that courses run smoothly and that hygienic standards are met: Maintaining the cleanliness and security of the school compound for students' sporting events. Regular school wall whitewashing; provision of sports equipment, such as sliders, carom boards, cricket, etc.; and maintenance of the same; and provision of academic posters and fans has been taken care.

The college team constantly engages with the students and encourages them to take on national responsibilities and have a good future.



“ From Our
Passing Out Students

Alumni Speak



My time at AKGEC was not just about academics, but also about honing my skills, making lifelong friends, and discovering my passion. The opportunities and support provided by the college helped me grow not only as a student but also as an individual.

One of my proudest moments at AKGEC was being a founding member of the Software Incubator, where I had the opportunity to work with a talented team of students on exciting projects. This experience not only helped me to develop my technical skills, but also taught me the importance of teamwork, collaboration, and innovation.

The knowledge and skills I acquired at AKGEC have been instrumental in my entrepreneurial journey. I founded TruckSuvridha, a start-up that aims to revolutionize the transportation industry. My experiences at AKGEC, both inside and outside of the classroom, provided me with the skills and knowledge I needed to pursue my entrepreneurial dreams.

Ishu Bansal
B.Tech IT (2007-2011)
TruckSuvridha, Founder & CEO



I am proud to say that I am an alumnus of AKGEC. My experience at this esteemed institution has been life-changing, and I am eternally grateful for the opportunities that were accorded to me.

As a CS graduate, I received a top-notch education that prepared me for the challenges of the tech industry. The faculty at AKGEC are experts in their respective fields and were always available to help me with any questions or concerns I had. The course curriculum was comprehensive and provided me with the skills I needed to succeed in my career.

Apart from the excellent education, AKGEC also provided me a fantastic environment for personal growth. The campus is beautiful, well-maintained, and all the facilities are world-class. The student community is diverse and inclusive, and I made lifelong friends during my time at the college.

Samarth Agarwal
B.Tech CS (2003-2007)
Aon, Lead Data Scientist
(Group Manager)

The four years that I spent at the college were truly transformative and unforgettable. One of the things that stood out to me was the abundance of opportunities that the college provided in terms of both research and industry exposure. The faculty members were not only knowledgeable but also approachable and supportive. They went above and beyond their duty of teaching and acted as mentors, guiding us in both academic and personal pursuits.

The AKGEC campus is well-equipped with state-of-the-art infrastructure, such as the SDC, which helped us access the latest resources and stay updated with the latest trends in the industry. The open structure cafe, the lotus pond, and the lush green gardens were my favourite hangout spots with my friends, and they were a witness to many of our fun-filled memories.

Priyanshi
B.Tech CSE (2013-2017)
Bank of America,
Senior Technical Analyst



I remember my time at AKGEC as the most memorable and transformative period of my life. The college provided me with a holistic education, which included not only academic excellence but also opportunities to develop my personal and professional skills. The faculty members were highly knowledgeable, supportive, and approachable, and they went above and beyond to ensure that their students receive the best education possible. They served as mentors and friends, and their guidance and encouragement were instrumental in helping me achieving my goals.

The college provided me with the tools and opportunities to become a confident and competent individual, and I am grateful for the experiences and memories that I will cherish for a lifetime.

Ashwin Dubey
B.Tech ME (2015-19)
Student - Master of Public
Administration at Columbia
University

AKGEC is the place which gave me the perfect environment to thrive and explore various fields of study. The wide range of courses from CS to Humanities makes for the perfect blend to open up a student's mind to various possibilities. I was the member of Footprints for the entire duration of my study, Vice president of SAE(Society of Automotive Engineers) in 3rd year, and President in 4th year. I also started the workshop for students named 'Aacar' and apart from all I wrote technical papers for College magazine.

The biggest takeaway from AKGEC has been the amazing people I met there. I met some of the finest professors in the country who were ready to help us grow as professionals. The diversity of students in the Institute is truly a blessing for one to explore a cosmopolitan culture within the boundaries of the institute".

Antriksh Garg
B. Tech. ME (2010-14)
Entrepreneur



AKGEC played a very important role in shaping my personality and I'll always be indebted to my college. AKGEC provided me with a constructive environment, and ample resources which helped me learn things at my own pace. There was a wide variety of electives offered during the latter part of my program, which encouraged learning catered to my own interests. The faculty members were very helpful throughout. I thoroughly enjoyed learning at AKGEC, and loved the atmosphere that is provided to students for their all-round development.

Shivam Yadav
B.Tech. IT (2012-16)
GST Inspector,
(Chandigarh Cadre)
CBIC, Ministry of Finance



As an alumna of AKGEC, I can confidently say that my time there was nothing short of amazing. The academics at AKGEC were top-notch. The faculty was knowledgeable, approachable, and always willing to go extra mile to help students in their endeavours. I was able to take a variety of courses in my field, which allowed me to gain a well-rounded education and helped me prepare for my career.

AKGEC was not just about academics. There were a plenty of opportunities for extracurricular activities, which allowed me to pursue my passion and interests. I got involved in a couple of student clubs, which helped me make friends, develop leadership skills, and learn new things outside the classroom.

Anchal Yadav
B.Tech IT (2015-19)
MBA from Indian Institute of
Management Kozhikode



Being an alumnus of Ajay Kumar Garg Engineering College (AKGEC) has been a life-changing experience for me. AKGEC's innovative approach to education, constructive environment, and abundant resources helped me learn at my own pace. The faculty at AKGEC was always available and approachable, and their guidance and support helped me throughout my academic journey.

AKGEC's flexible curriculum allowed me to explore a wide variety of electives during the latter part of my program. This encouraged me to learn at my own pace and cater to my own interests. The courses that I took at AKGEC were so exciting that they paved my career path for becoming what I am in my field.

The atmosphere at AKGEC is unique, and I thoroughly enjoyed learning and growing there. It provided ample opportunities for my all-round development, which helped me develop into a well-rounded individual. I am forever grateful to AKGEC for providing me with the tools, knowledge, and experiences that I needed to succeed in my career.

Rahul Gautam
B.Tech ECE (2013-17)
Managing Director,
Exeliq Tech Solutions Pvt Ltd.

Amar Ujala (GZB.) 21.02.2022 Monday Page No.-G.04

उपलब्धि एक क्वीट लेख का विजेता, भविष्य में शुरू करेंगे स्टार्टअप दीपक को सम्मानित करेगा एकेटीयू

प्राईम टाइम रिपोर्ट

लखनऊ: डॉ. एकेजी अजय कुमार प्रतियोगिता विजेताओं (एकेटीयू) के बीच दीपक को सम्मानित करेगा एकेटीयू। दीपक को अग्रणी लेख के लिए सम्मानित किया गया है।



दीपक सिंह, कल

कलियुक्त प्रमाणित करने शुरू है। दीपक ने एक लेख 'मेरा स्टार्टअप' पर जीत लिया है। इस लेख में उन्होंने अपने स्टार्टअप के बारे में बताया है।

डॉ. अजय कुमार अग्रणी लेख के क्षेत्र में अग्रणी लेख के लिए जीत चुके हैं। दीपक ने एक लेख 'मेरा स्टार्टअप' पर जीत लिया है। इस लेख में उन्होंने अपने स्टार्टअप के बारे में बताया है।

Amar Ujala, (GZB) 04.09.2022 Sunday Page No.-G.04

एकेजीईसी के छात्रों का स्मार्ट इंडिया हैकथॉन-2022 में शानदार प्रदर्शन

गाजियाबाद (वि)। एकेजीईसी के छात्रों ने देश भर के विभिन्न नोडल केंद्रों में 25 से 29 अगस्त 2022 तक आयोजित स्मार्ट इंडिया हैकथॉन (एसआईएच-2022) के 5वें संस्करण में शानदार प्रदर्शन कर कॉलेज का नाम रोशन किया है। एकेजीईसी की रिकॉर्ड सात टीमों ने हैकथॉन खिताब जीते और प्रत्येक टीम को एक-एक लाख रुपये की पुरस्कार राशि से सम्मानित किया गया। ग्रैंड फ़िनले के दौरान, एकेजीईसी की टीम आइडियल बिट्स को प्रथममंजरी नरेंद्र मोदी से बातचीत करने और अपने आवेदन को समझाने का अवसर मिला। प्रधानमंत्री ने छात्रों के विचार की सराहना की। डॉ. आरके अग्रवाल (महानिदेशक) ने नवाचार और उद्यमिता की दिशा में उत्कृष्ट कार्य जारी रखने के लिए एकेजीईसी इंस्टीट्यूट इनोवेशन सेल को बधाई दी। ब्यूरो

Amar Ujala (Ghaziabad) 10.02.2022 Thursday Page No.-City, 06

कंप्यूटर साइंस के छात्र को मिला 1.13 करोड़ का पैकेज

लैंड क्रॉफ्ट सोसायटी निवासी दीपक की एमेज़न कंपनी में लगी नौकरी

प्राईम टाइम रिपोर्ट



दीपक ने क्लार सफलता के टिप्स

लखनऊ: लखनऊ के छात्र दीपक सिंह को एमेज़न कंपनी में लगी नौकरी के लिए 1.13 करोड़ रुपये का पैकेज मिला है। दीपक को एमेज़न कंपनी में लगी नौकरी के लिए 1.13 करोड़ रुपये का पैकेज मिला है।

दीपक को एमेज़न कंपनी में लगी नौकरी के लिए 1.13 करोड़ रुपये का पैकेज मिला है। दीपक को एमेज़न कंपनी में लगी नौकरी के लिए 1.13 करोड़ रुपये का पैकेज मिला है।

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THE CITY 5

CHOOSE THE RIGHT INSTITUTE FOR A BRIGHT CAREER

A YOUNG, aspiring student, no matter what stream he/she may be from, is faced with immense but vague options of choosing the right course and the right institute for a successful career. My advice to aspirants is to evaluate your passion for your career because the secret to happiness is being able to love whatever you do in life. Identify your skill set and capabilities and choose a course that is a natural progression of your existing skills and qualification. Take advice from your parents and teachers and use their experience as a guide in deciding the course you choose. With technology changing at an exponential rate and the glaring gap between the academic



Dr. RK Agarwal, Director-General



curriculum and fast-changing industry requirements, employability is a major challenge. Students, therefore, should look for institutions like AKGEC which, in addition to academic excellence, emphasise project-based learning, industry-relevant training programmes and all-round development to make their students globally employable. My best wishes to all the young aspirants for a bright and successful career and a happy life.

my city हम लोग अमर उजाला

शुक्रवार 16.09.2022



नवीन स्टार्टअप आइडिया देने वाली आठ टीमों सम्मानित

लखनऊ: नवीन स्टार्टअप आइडिया देने वाली आठ टीमों सम्मानित किया गया। दीपक को अग्रणी लेख के लिए सम्मानित किया गया है।



शानदार किक...

एकेटीयू क्षेत्रीय खेल मीट

फुटबाल चैंपियन बना एकेजी

लखनऊ: एकेजी इंजीनियरिंग कॉलेज ने एकेजी क्षेत्रीय खेल मीट में फुटबाल चैंपियन बनने का गौरव हासिल किया है। एकेजी इंजीनियरिंग कॉलेज ने एकेजी क्षेत्रीय खेल मीट में फुटबाल चैंपियन बनने का गौरव हासिल किया है।

Dainik Jagran, (GZB.) 25.11.2021 Thursday Page No.-G, IV

एकेजीईसी के विद्यार्थियों का सर्वाधिक पदकों पर कब्जा

वि. गाजियाबाद : अजय कुमार गार्ग इंजीनियरिंग कालेज के 112 विद्यार्थियों ने आरकेजीआईटी गाजियाबाद में 22-23 नवंबर को आयोजित एकेटीयू की जौनल स्पोर्ट्स लेवल स्पोर्ट्स फेस्टिवल में शानदार प्रदर्शन के दम पर सर्वाधिक पदकों पर अपना कब्जा जमाया। खिलाड़ियों ने विभिन्न खेलों और एथलेटिक प्रतियोगिताओं में 12 स्वर्ण, 13 रजत और आठ कांस्य पदक प्राप्त कर लगातार छठी बार जौनल चैंपियनशिप ट्रॉफी हासिल कर विजय का परचम लहराया।

स्पोर्ट्स फेस्टिवल का उद्घाटन 22 नवंबर को महामाया टेक्निकल यूनिवर्सिटी के पूर्व वाइस चांसलर प्रो.एसके काक ने किया था। इस दौरान कार्यक्रम में प्रतिष्ठित व्यक्ति, नेशनल और इंटरनेशनल स्तर के पूर्व खिलाड़ी भी उपस्थित थे। फेस्ट में 20 कालेज के 1200 से अधिक खिलाड़ियों ने बास्केटबाल, फुटबाल, एथलेटिक्स, इत्यादि खेलों में भाग लिया था। एकेजीईसी के खिलाड़ियों ने विशेष रूप से फुटबाल, टेबल टेनिस और एथलेटिक्स में शानदार प्रदर्शन किया। विजेता खिलाड़ी तीन से चार दिसंबर को प्रदेश स्तरीय प्रतियोगिता के लिए लखनऊ रवाना होंगे।

my city अमर उजाला

शनिवार 13.08.2022

जरा याद करो कुर्बानी में वीर सपूतों को किया नमन

लखनऊ: एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे। एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे।

NBT, (GZB.) 08.12.2021 Wednesday Page No.-G,02

एकेटीयू के स्टेट लेवल स्पोर्ट्स फेस्ट में एकेजी का दबदबा रहा

लखनऊ: एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे। एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे।

लखनऊ: एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे। एकेजी इंजीनियरिंग कॉलेज में शानदार प्रदर्शन के लिए लखनऊ रवाना होंगे।



3 DIRECTOR GENERAL'S MESSAGE

4 SCOOP

CENTRES OF RELEVANCE AND EXCELLENCE (CORE)

- AKGEC Skills Hosts World Skills India 2021 Boot Camp And Final Competitions
- Trainings under DDU-GKY Scheme
- New equipments added in FabLab
- Non Destructive Testing Setup
- Competency Development Programs by AKGEC SKILLS FOUNDATION
- Industrial Internship Program
- MOU Signed
- Industrial Projects
- Robocon
- Promotional Events
- Guest Lectures by AKGEC Skills Foundation



12 TOUR DE FORCE

ADMISSIONS

RESULTS

- University Position Holders

PLACEMENTS

- Highest Package Achievers

EXCELLENCE OF STUDENTS IN COMPETITIVE EXAMS

FOR HIGHER STUDIES

ACHIEVEMENTS

- Anveshna 2022
- PLAN2HACK Hackathon
- InnoHacks at KIET Ghaziabad
- Unifest 2022
- Global Thomso, IIT Roorkee
- Circuit Designing and Shark Tank

AKTU SPORTS FEST

FLOWER SHOW

VALUE EDUCATION CELL ACTIVITIES

- Drishti
- AICTE approved UHV FDPs
- UHV Webinars



28 ACADEMIA FIRMAMENT

FACULTY DEVELOPMENT PROGRAMS

- Basic FDP on Idea Lab
- FDP on Novel Materials
- FDP on Future Wireless Technologies
- Advance Idea Lab FDP on Smart Manufacturing
- FDP on Industrial Revolution 5.0
- FDP on Unblock Blockchain
- 2nd Advance Idea Lab FDP on Smart Manufacturing
- FDP on Electric Vehicles: State of the Art, Challenges and Way forward

CONFERENCE

RESEARCH AND DEVELOPMENT

- Research Papers Published by the Faculty Members
- Book Chapters Published by Faculty Members
- Research Publications by Students
- Patents
- Sponsored Research Projects

GUEST LECTURES

ALUMNI TALKS

FACULTY

- Faculty Promotions
- Higher Qualifications Attained
- New Members to the AKGEC Family



64 TECHNICAL CLUBS AND SOCIETIES

71 EVENTS @ AKGEC

SILVER JUBILEE CELEBRATION SPIRITUAL TALKS

73 CELEBRATIONS

AZADI KA AMRIT MAHOTSAB: HAR GHAR TIRANGA

- Independence Day And Republic Day
- International Yoga Day

76 SOCIAL RESPONSIBILITY

- Refugees Camp
- Adoption of Kazipura Municipal School
- Painting of Dispensary
- Adoption of Kazipura School

78 ALUMNI SPEAK

80 MEDIA SPEAKS



DIRECTOR GENERAL'S MESSAGE



Dr. R.K. Agarwal
Director General

Intergalactic accomplishments expand the frontiers of knowledge and scholarship every day. In this era of globalization in education, the obvious focus is on the quality of education. As there is no single yardstick of quality, therefore a good educational institution always strives for continuous sustenance and enhancement of quality in every field of its pursuit.

AKGEC has entered the 25th year of its glorious existence and it's no less than reaching a significant milestone for us. As the new session has rolled in, it's time to recollect our memories of the session bygone. The session 2020-21 was a turbulent phase for all of us, marked with periods of solitary confinement. Coming out of all the hardships and challenges faced, the college quickly regained its normalcy and did remarkably well in 2021-22.

AKGEC has been simply unstoppable in its progress and has been actively involved in various activities, brightening up the hidden talents of the students, faculty and staff members. The proficient and committed AKGECians have been consistently performing their tasks with a sustained degree of dedication. Based on the achievements and pursuits so far, I am delighted to announce that AKGEC is publishing yet another edition of its annual magazine "Sampark". Anyone who reads this magazine will witness the monumental efforts taken by the stakeholders to enhance the quality of education and research at AKGEC.

My best wishes and guidance will always envision to shape students into poised, proficient, committed and compassionate future citizens.

I express my gratification on this new edition of Sampark that brings to you the numerous achievements of various dimensions of AKGEC.

AKGEC Skills Hosts World Skills India 2021 Boot Camp And Final Competitions



World Skills organizes the world championships of vocational skills and is held every two years in different parts of the world. The 46th World Skills event will be held in Shanghai in October 2022. The slogan for World Skills Shanghai 2022 is "New Youth, New Skills, New Dream". World Skills brings together young people, industry, government, education, and institutions, to promote the benefits of and need for skilled trade professionals.

Under the aegis of the Ministry of Skill Development and Entrepreneurship, National Skills Development Corporation (NSDC) organizes India Skills Competition. These competitions are held every two years at the District, State, Regional and National levels and aim to scout for talent from across the country and the winners of the National Level competitions get a chance to represent India at World Skills.

India Skills 2021 Final Competitions in Welding and Additive Manufacturing, organized by NSDC was hosted by AKGEC Skills Foundation, Ghaziabad in association with Capital Goods Sector Skill Council (CGSC) from 6th to 10th January, 2022.

Prior to the finals, four-day Boot Camp was organized at AKGEC Ghaziabad in association with Capital Goods Sector Skill Council (CGSC) between 2nd - 5th December 2022 in three skills namely Welding, Additive Manufacturing & Mechanical CAD. The objective of the Boot Camp was to prepare the contestants for the IndiaSkills National Competition 2021 and familiarize them with the equipment's and software / hardware tools to be used in the finals.





Welding

Total 13 participants (2 female & 11 male) from 10 states competed in this category. Participants were given a chance to familiarize themselves with the workshop environment and machinery during the boot camp held between 2nd -5th January, 2022. Various sessions were held to help participants understand the related rules and guidelines for final competition. The Welding Experts, Managers and Technical associates guided the participants throughout the training session.

During the final competition held between 6th – 10th January, 2022, participants were given tasks to fabricate test coupons and various assemblies of aluminium, mild steel and stainless steel, including a pressure vessel, as per drawings provided, using various arc welding processes such as Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW). The participants were judged based upon the weld quality and Destructive / Non-Destructive tests results performed on the prepared test coupons and assemblies.

Experts & Jury Members

- Mr. Sachin Narale, Team Leader (Welding), Mahindra & Mahindra
- Mr. Som Ashutosh, General Manager, AKGEC Skills Foundation
- Mr. Aditya Prakash Upadhyaya, Sr. Manager-Welding, JBM Group
- Mr. Jamir, Capital Goods Skill Council (CGSC)

Additive Manufacturing

Total 10 participants attended the boot camp and final competitions from 10 different states. They were given a chance to familiarize themselves with the Fab lab environment and 3D Printing as well as Scanning machines during the boot camp held between 2nd – 5th January, 2022. Various sessions were held to help participants understand the related rules and guidelines for the final competition organized from 6th to 10th January, 2022.

During the final competition, participants were given a task to design and prototype a missing link of a glue gun connecting the trigger with snap fit arrangement. Designing / Modelling was done using Fusion 360 CAD software and Rapid prototyping was performed on Makerbot Method or Makerbot Method X 3D Printers. The candidates were also assigned a task to perform scanning of one Engine part and prepare an editable CAD file through the scanned data on Fusion 360 software. The participants were judged based upon the completion of assigned task within stipulated time with accurate results.

Mr. Dhruv Verma, IV-year B. Tech Mechanical student of AKGEC also participated in the event and won a Silver Medal in the India Skills Finals in Additive Manufacturing skill.

Experts & Jury Members

- Mr. Harsh Kumar, Technical Officer, CSIR-CSIO, Chandigarh
- Nagesh SA, Nettur Technical Training Foundation (NTTF), Bangluru
- Prashanth Kumar A, School of Postgraduate Studies-NTTF, Bangluru, JBM Group
- Mr. Jamir, Capital Goods Skill Council (CGSC)



Trainings under DDU-GKY Scheme



Under Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY), training programs were conducted for CNC Programmer & Operator, Field Technician Computing & Peripherals and SMAW Welder job roles. Total 34 candidates were enrolled in CNC Programmer & Operator, 35 in Field Technician Computing & Peripherals and 35 candidates in SMAW Welder training program. These candidates from rural areas were taught about the concepts as well as trained to perform hands-on related to their domain. Guest lectures were also conducted on various topics by industry experts.

To develop their personality and make them industry ready, candidates were also taught about English skills and IT skills. To spread awareness about mental health, a session was conducted by "Your Dost". Other physical

trainings were also included in the daily routine of the candidates, such as yoga and meditation. Various other interaction sessions were also conducted by Value Education Cell for these candidates to build competence to come out of peer pressure and to overcome stage fear.

After completion of on-campus training, trainees were sent for "On Job Training" to connecting industries such as Ghaziabad Precision Products Pvt. Ltd, NC Machine tools, Kasuya GPP Auto Products, New India Engineering etc. After completion of the training program, the trainees were assessed on theoretical knowledge and hands-on performance by the sector skill council. Out of 69, all the candidates, cleared the assessment exam successfully. Training program for SMAW Welder job role was completed by December 2022.

New equipments added in FabLab

Ajay Kumar Garg Engineering College, Ghaziabad, in its endeavour to nurture creativity amongst youth and develop their competency in using advanced digital tools for prototyping activities had established a Fab Lab accredited by Fab Foundation, USA, an initiative of Prof. Neil Gershenfeld from MIT, USA which is typically equipped with an array of flexible computer-controlled tools that cover several different length scales and various materials, with the aim to make “almost anything”.

The facility was developed in response to the need arising from students requiring a dedicated space and appropriate equipment to develop their projects. Since then it evolved from being just a product development center to a facility focussed on promoting innovation, imparting much-needed skills for innovators and help developing competency across different disciplines including mechanical, electronics and embedded development areas.

The center hosts an array of sophisticated rapid prototyping tools, 3D Printers, pre & post processing equipment, training kits, hardware and software which can be used to train on and fabricate using digital fabrication techniques. It aims to provide training to undergraduates, postgraduates, young kids and engage with the local community of makers and innovators. It supports them in not only applying their theory in but also to cater the product development and prototyping needs of innovators and entrepreneurs in the country.

In order to further facilitate the trainees and innovators to acquire wholesome experience in digital fabrication techniques a **professional grade multicolour PolyJet 3D Printer** from Stratasys has been added. It can be used for creating functional prototypes, product design visualization, and producing anatomical models for medical and healthcare professionals. It is also used in the creation of custom parts and components for automotive, aerospace, and other engineering applications. Its ability to print in multiple colors and materials makes it a valuable tool in creating visually-appealing models and designs.

A Laser Engraving Setup - Epilog make Fusion Edge Fiber has also been added in the Fablab for post processing / laser engraving of a wide range of materials including plastics, metals, and other materials commonly used in 3D printing.



Non Destructive Testing Setup

A Non Destructive Testing centre has been established at AKGEC Skills Foundation which includes state of art equipment for Magnetic Particle Testing, Liquid Penetrant Testing, Ultrasonic Testing, Eddy Current Testing, and X-Ray Film Interpretation. The objective of the centre is to conduct ASNT Level I / II / III training and certification programs as per SNT TC 1A specification. It also aspires to offer a range of



facilities for performing various types of NDT tests to identify flaws, defects, and discontinuities in welded joints, castings, forgings, and other components without damaging them. The centre has a team of experienced and certified NDT professionals who provide training and certification programs to students, professionals from various industries. The NDT setup is also equipped with advanced testing equipment, software, and systems to provide accurate and reliable test results.

Competency Development Programs by AKGEC SKILLS FOUNDATION



AKGEC Skills Foundation (ASF) believes in the overall development of competency and growth of its faculty and staff members. The team members of ASF participated in various Competency Development Programs conducted by interdepartmental teams and partner companies.

- Seven Short-Term Training Programs on Basic Robot Programming were conducted for 44 students at AKGEC KUKA IRTC.
- Four Short-Term Training Programs on Advance Manufacturing were conducted for 43 students at AKGEC Siemens AMC.
- Two Short-Term Training programs on Automation Technologies were conducted for 29 students at AKGEC-BOSCH CEAT.
- Six Short-Term Training Programs on Welding were conducted for 15 Students at AKGEC AWTRC.
- Two Short-Term Training Programs on Embedded Systems and IoT were conducted for 27 Students at AKGEC Fab lab.
- Three Short-Term Training Programs on LabVIEW Core I and II were conducted for 53 Students at NI LabVIEW Academy
- Industrial Welding Training Program was conducted from 9th August to 7th September 2022 for a total of 14 participants from the U. S. Embassy, New Delhi in two batches.
- Competency Development Program on Brazing Technology was conducted between 9th to 20th September 2022 for a total of 62 participants from U. S. Embassy, New Delhi in five batches.

Industrial Internship Program



AKGEC Skills Foundation (ASF) offers an industrial internship program to students pursuing engineering or technology-related degrees. The internship program provide students with practical experience and exposure to real-world industry projects in Automation, Robotics, Manufacturing, Fabrication and Automotive technology domains.

The program is designed to help students bridge the gap between academic learning and industry requirements by offering them an opportunity to work alongside professionals in the industry. The program typically lasts for 4-6 weeks and includes a variety of activities, including training sessions, hands-on sessions, project work, and mentorship opportunities.

During the internship, students have access to ASF's state-of-the-art facilities and equipment, which help them to enhance their employability and increase their chances of securing a job after graduation. A total of 65 students have done internship in various centres of excellence as a part of their curriculum training.

MOU SIGNED

Memorandum of Understanding with Windmoller & Holscher, Germany



Ajay Kumar Garg Engineering College (AKGEC) & Windmoller & Holscher, Germany (W&H) joined hands and signed MOU on 26th Nov 2021 with an aim to facilitate young engineers to get the chance to learn industry-oriented skills and gain hands-on experience with state of art tools comprising of latest hardware provided by Windmoller & Holscher.

With this MOU both AKGEC and Windmoller & Holscher aim to cooperate in conducting training of their Technicians/ Engineers/ Managers for Assembly, Installation & Commissioning, Maintenance and operation of High-end Packaging machines. Moreover, in the coming year, AKGEC will be catering for the training needs of their clients from the Middle East and South East Asia too.

Memorandum of Understanding with & FH Westküste (English translation: West Coast University of Applied Sciences)

Ajay Kumar Garg Engineering College (AKGEC) & FH Westküste (English translation: West Coast University of Applied Sciences) signed MOU on 1st January 2022 to develop academic exchange and cooperation in education and research like mutual exchange of students, professors and researchers. They will also work on joint research projects, publications, patents, conferences and workshops.

Industrial Projects

1. Scanning, Modelling, Design Analysis, 3D Printing and sample fabrication (5 pcs) of "Rakshita" Bike Ambulance was done and delivered to DRDO, INMAT Timarpur Delhi.
2. Scanning, designing & prototyping of 1981 commissioned Russian OSA-K Combat Vehicle "Surface to air Missile Launcher" was carried out for No. 7 Base Repair Depot, Indian Airforce, Tughlakhabad.



3. Modeling and 3D Printing of newly developed “Hamsafar Coach” was carried out for Indian Railways, Modern Coach Factory, Raebareli.

4. 3D printing of 10 nos. of Covid safety key was done and delivered to R&D Department, IOCL Faridabad in record time during covid first wave. It was designed by IOCL R&D and 3D printed using Industry Grade 3D printer.

5. 3D Printing of Delhi traffic police’s speed tracker body was done. Tracker body was designed by Aim’s Life and prototyping was done on Industry grade 3D Printer for accuracy.

6. Prototyping of India first electric Bike designed Revolt RV 400 , designed by Studio 34, Manesar was done using Industry grade 3D Printer in FDM Technology.

7. Several industrial services were offered to Indian Railways by the Advance Welding Technology and Research Center at AKGEC Skills Foundation such as Rail Guard; Roda Box; Safety Strap; Battery Connection plate; Wearing Plate; Ferrule etc. The components were delivered to various Indian Railway divisions, departments, and workshops, including the North Western Railway, South Western Railway, Western Railway, South Central Railway, and South Eastern Railway, among others.

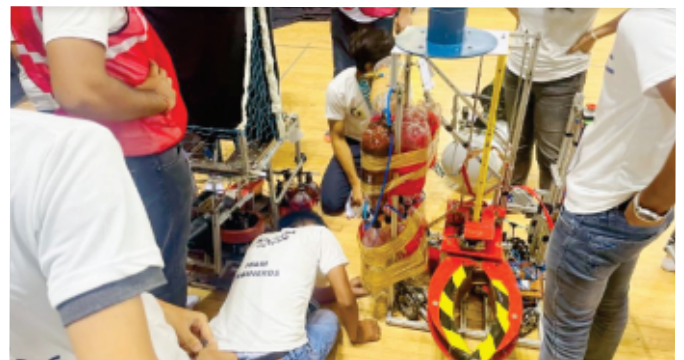
8. Advance Manufacturing Centre at AKGEC Skills Foundation has also offered industrial services (CNC machining) to many industries across Delhi-NCR, such as Indian Machine Tool, Ghaziabad Precision Product, Anant Engineering, Vedic Test House, Satyakiran Engineers Pvt. Ltd, Adomac Technicals Pvt Ltd. etc.



Robocon

ROBOCON, short for Robotic Contest, is an interesting game - cum - intellectual exercise for budding engineers and their enthusiastic instructors, determined to innovate and create machines for producing desired results. It is primarily sponsored by Asia Pacific Broadcasting Union (ABU) which includes Doordarshan (Prasarbharati) of India as a member responsible for organizing the competitions in India. The winner of the Indian competition gets a chance to represent the country at the International level.

AKGEC team has been participating in ROBOCON since 2014 and till date has competed eight times in the event. In ROBOCON 2022 AKGEC was the only team from the North to reach the finals of the competition held at Thyagaraj Stadium, New Delhi and secured AIR-16.



Promotional Events

The following workshops were organized to promote ASF activities:

- Two nos. of one-day Workshop on Advance Welding Technology were conducted for 83 students of Govt. ITI Hindalpur, Hapur and Hi-Tech Institute of Engineering & Technology, Ghaziabad.
- Two nos. of one-day Workshop on Advance Manufacturing were conducted for 96 students of ATMS College, Hapur.
- A One-day Workshop on Industrial Robotics was conducted for 47 students of GNIOT, Greater Noida.
- Two nos. of one-day Workshop on LabVIEW CORE I&II were conducted for 92 students of AKGEC
- A One-day Workshop on Introduction to LabVIEW was conducted for 28 students of Lala Hansraj Gupta, ITI Narela
- A One-day Workshop on Advance Welding Technology was conducted for 14 students of Saraswati Vidya Mandir Inter College, Rajnagar, Ghaziabad.
- A One-day Workshop on Advance Welding Technology was conducted for 43 students of Lala Hans Raj Gupta ITI Narela, Delhi.
- A One-day Workshop on Advance Manufacturing was conducted for 28 students of Govt. Polytechnic, Ghaziabad.
- A Two-Day National Skill Competition for Best of the Best Welders 2021 was conducted by AWTRC in association with IIW-India (Delhi Branch), from 26th October to 27th October 2021. The Indian Institute of Welding (IIW-India) conducts the "National Skill Competition for Best of the Best Welders" every year. Advance Welding Technology & Research Center (AWTRC) has been hosting this event for the last four years in association with IIW- India.
- workshop on "Manufacturing Excellence" was organized at AKGEC Skills Foundation on 16th and 17th December 2021. The program was attended by 23 faculty, Technical Staff and Lab Technicians of Delhi Technological University, New Delhi.



Guest Lectures organized by AKGEC Skills Foundation

AKGEC Skills Foundation (ASF) in its endeavours to promote skilling for students, faculty, staff members and industry professionals, conducted several guest lecturers as tabulated below:

Date	Topic	Speaker	Affiliation
15.07.2022	Introduction to Industrial Robotics	Mr. Nikhil	Turnkey Solution Developer, Fanuc Robotics
07.07.2022	Industrial applications in Robotics	Mr. Pawan Singh	Customer Service Engineer, KUKA India
06.05.2022	Construction Equipment Industry in India	Mr. Chandra Shekhar Bhadauriya	Divisional Manager-Gujrat, Sany Heavy Industries Pvt. Ltd
05.03.2022	The latest trend in application LabVIEW and hands on session	Mr. Vishal Sharma	Sr. Software Developer Engineer, WESEE (Ministry of Defence, M/s. Simple Logistics)
28.02.2022	The latest trend in application LabVIEW	Mr. Vinamra Jain	Founder & CTO, Nexus Engiconsults
23.02.2022	Introduction to Industrial Robotics	Mr. Saransh Gupta	Cluster Sales Manager - Robotics, ABB Robotics
02.02.2022	An Introduction to the solar system and its applications & carrier options in the solar energy	Mr. Nishi Chandra	Marketing Head, Loom Solar
02.02.2022	Applications of Lab View in Different Domains	Mr. Abhay Singh	Director of SoftInStrue Engineering
01.02.2022	Hands-On session on My Rio DAC card	Mr. Nitesh Pradhan	LabVIEW Trainer, & Sales Engineer, VVDN Technologies
14.08.2021	Testing and measuring data in LabVIEW	Mr. Sumit Kumar	QA/QC Inspector, Dee Development Engineers Ltd, Faridabad



ADMISSIONS

The college had reasonably good admissions for the academic year 2021-22. Despite declining trends in the State, the college admitted 1094 students in the B.Tech programs. The strength of students in the 2021-22 remained 4633. The college admitted a good number of students, both through the University counselling and direct admissions under the management quota. AKGEC continued to be one of the most preferred self-financed engineering colleges in the State and in-fact the students preferred AKGEC over few Government colleges. Seats of some of our maximum branches filled up while there were vacancies in Government colleges, indicating the enhanced preference for the college. The management quota admissions also received a good spectrum. Under the direct admissions, 39% students had a PCM above 90%, 78% students had a PCM above 80%, 97% students had a PCM above 70% and only 3% students had PCM below 70%.

RESULTS

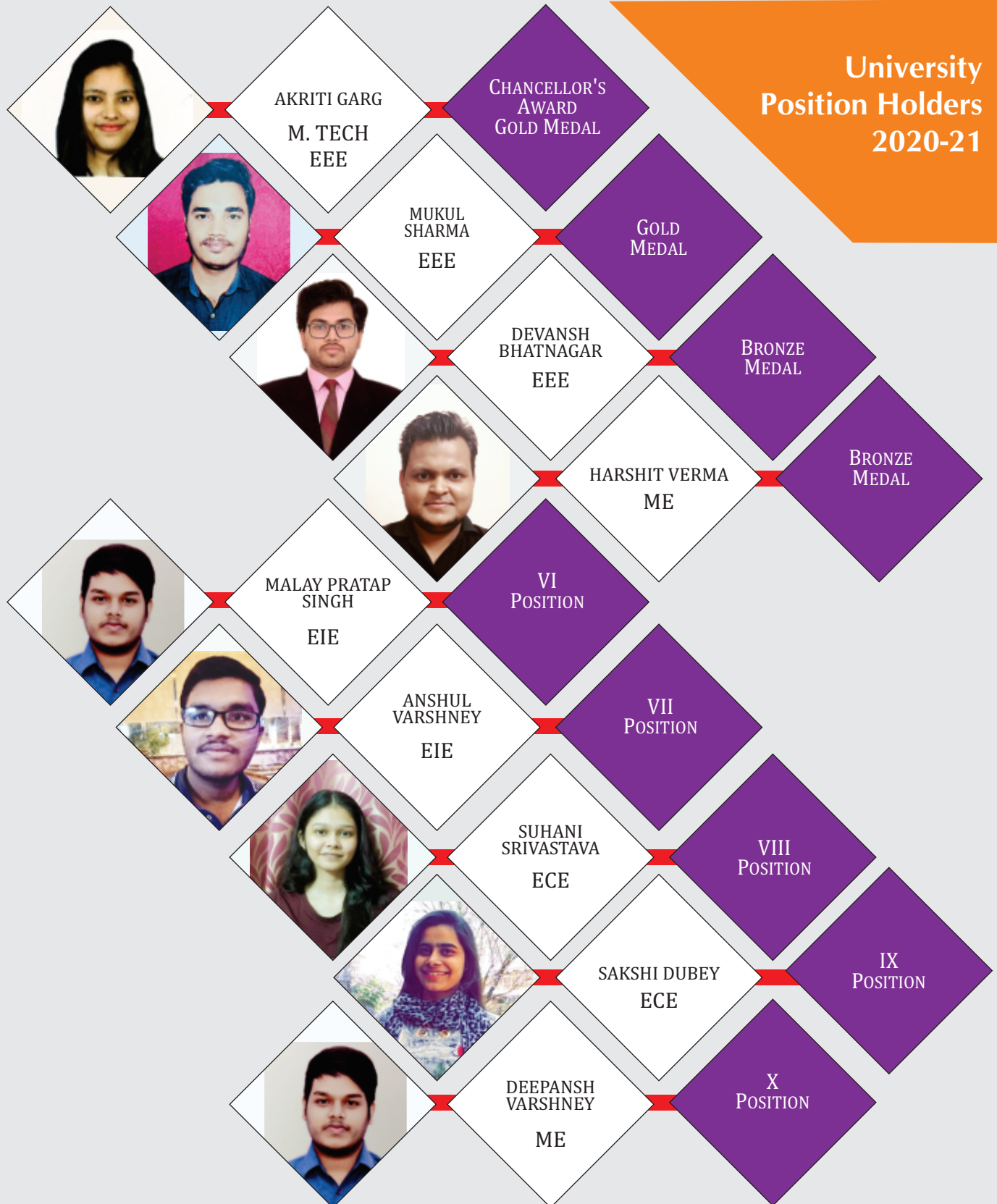
The college strives for excellence and has been consistently maintaining excellent academic results. The result of students graduating during the academic year 2020-21 has been exceptionally good. In B. Tech, 95.09% students passed, out of which 89.73% passed with 1st division including 57.88% with honours. Similarly, in MCA, 93.62% students passed and all secured 1st division, including 70.21% with honour.

In addition to overall good results, the college earned a remarkable achievement in terms of number of students in University merit lists. This year (2021) the college had 9 students in the top 10 merit lists of AKTU with 1 Gold and 2 Bronze medals in B. Tech program. The college has been consistently having the maximum number of students in merit lists over the last few years. It is a matter of pride for the college that the Chancellor's medal for getting the highest marks among all the branches of M.Tech. program has been bagged by our student, Ms. Akriti Garg.

The excellent and ever improving performance is the result of concerted effort by all faculty and staff, as well as many academic reforms and faculty and student development initiatives taken by the college.



University Position Holders 2020-21



PLACEMENTS

Excellent academic performance combined with all round development through a range of events and activities in the college have translated into good placements of our students. The Training and Placement Department ensures righteous placement of final year students. The Department conducts a number of co-curricular and industry relevant programs including seminars, personality development programs and career counselling to improve the competence and employability of students.

The campus placements have steadily improved over the years, both in terms of quantity (number of students getting placed) and quality (type of company, job profile, salary package). The pass out of 2021 B. Tech students had 1299 offers in hand including higher studies and for the 2022 B. Tech batch students, the number of offers including higher studies are 1998.

Major recruiters are well reputed companies like Adobe India, Amazon, Google India, American Express, Accenture, Capgemini, Cognizant, Infosys, IBM India, Wipro, TCS, HCL Technologies Ltd, HSBC Technology India, Tech Mahindra, Accolite Software, Air Liquide, Airbus, Birlasoft, Blinkit (Grofers), Byju's, Cloudera, Coforge Limited, Couchbase, Deloitte Consulting, Draup, DXC Technology, Emerson Automation Solutions, Escacion Technologies (Devslane), Gainsight Software, Global Logic – Hitachi, Happiest Mind Technologies Ltd, Hashedin By Deloitte, Hexaware Technologies, Hitachi Vantara, Impetus Technology, Interra Systems, J K Cement, Jakson Group, Jaro Education, Josh Technology Group, Lowe's India, Lumiq AI, MAQ Software, Minda Corporation, Mindtree Ltd, Motherson Sumi Infotech, Mphasis, Nagarro, Newgen Software, Nucleus Software, Ola Electric, Optum (United Health Group), Price water house Coopers Pvt Ltd (Pwc), QA Infotech, Reliance Jio, SMS India Pvt. Ltd., Sopra Banking Software, Sopra Steria, Torrent Gas Pvt Ltd, Uflex Limited, Ultimate Kronos Group, Unthinkable Solutions, Vivo Mobiles India Pvt Ltd, Vodafone Idea Limited, Walmart Global Tech India, Wiley Mthree, Zensar Technologies, Zopsmart and many more in the queue.

About Thirty-Five students, across the branches were hired for Rs. 20 LPA and above:

S. No.	Student's Name	Branch	Company	Package
1	DEEPAK SHARMA	CSE	AMAZON	1 Crore 13 Lakh
2	MADHUR VASHISTHA	IT	GOOGLE INDIA AMAZON	32.41 25.00
3	MUSKAN AGRAWAL	CSE CSE	CLOUDERA WALMART GLOBAL TECH INDIA	28.70 21.00
4	APOORV JAIN	CSE	AMAZON	25.00
5	MITALI JAIN	CSE	AMAZON	25.00
6	MRUDUL BHATT	CSE	AMAZON	25.00
7	PRAKHAR GUPTA	CSE	AMAZON	25.00
8	PRANAT SHARMA	CSE	AMAZON	25.00
9	PRANJAL BANSAL	CSE	AMAZON	25.00
10	RAJAT GUPTA	CSE	AMAZON	25.00
11	RAJAT PANCHAL	CSE	AMAZON	25.00
12	RISHABH TYAGI	CSE	AMAZON CLOUDERA	25.00 22.70
13	RISHABH YADAV	CSE	AMAZON	25.00
14	RITUL AGGARWAL	CSE	AMAZON	25.00
15	SHASHANK ARORA	CSE	AMAZON	25.00
16	SHIVAM SINGHAL	CSE	AMAZON	25.00
17	SHRISTI GUPTA	CSE	AMAZON	25.00

Highest Package Achievers



DEEPAK SHARMA | B.Tech | CSE

amazon 1.13 CR



MADHUR VASHISTHA | B.Tech | IT

Google 32.41 LPA
amazon 25 LPA



MUSKAN AGRAWAL | B.Tech | CSE

CLOUDERA 28.70 LPA
Walmart Global Tech 21 LPA



APOORV JAIN | B.Tech | CSE

amazon 25 LPA



MITALI JAIN | B.Tech | CSE

amazon 25 LPA



MRUDUL BHATT | B.Tech | CSE

amazon 25 LPA

18	VAISHNAVI GUPTA	CSE	AMAZON	25.00
19	PRIYANSHU GOEL	CSE	AMAZON	25.00
20	ABHINAV GUPTA	ECE	AMAZON	25.00
21	RIYA TYAGI	ECE	AMAZON-WOW	25.00
22	VINAY KUMAR	ECE	AMAZON	25.00
23	ARNAV JAIN	IT	AMAZON	25.00
24	ATUL RAJ	IT	AMAZON	25.00
25	KARAN NARENDRA SINGH	IT	AMAZON	25.00
26	KAVI KUMAR	IT	AMAZON	25.00
27	SAGAR ADVAL	IT	AMAZON	25.00
28	SONAKSHI GUPTA	IT	AMAZON-WOW	25.00
29	TAPISH GUPTA	IT	AMAZON	25.00
30	DEVANSH SRIVASTAVA	CSE	COUCHBASE	24.04
31	UJMA	CSE	WALMART GLOBAL TECH INDIA	23.39
32	MUSKAN SURI	ECE	WALMART GLOBAL TECH INDIA	23.39
33	MUSKAAN MITTAL	IT	BLINKIT (GROFERS)	22.00
34	VANSHIKA MEHROTRA	CSE	WALMART GLOBAL TECH INDIA	21.00
35	RISHIKA GUPTA	IT	WALMART GLOBAL TECH INDIA	21.00

Highest Package Achievers



PRAKHAR GUPTA | B.Tech | CSE

amazon 25 LPA



PRANAT SHARMA | B.Tech | CSE

amazon 25 LPA



PRANJAL BANSAL | B.Tech | CSE

amazon 25 LPA



RAJAT GUPTA | B.Tech | CSE

amazon 25 LPA



RAJAT PANCHAL | B.Tech | CSE

amazon 25 LPA



RISHABH TYAGI | B.Tech | CSE

amazon 25 LPA
CLOUDERA 22.70 LPA



RISHABH YADAV | B.Tech | CSE

amazon 25 LPA



RITUL AGGARWAL | B.Tech | CSE

amazon 25 LPA



SHASHANK ARORA | B.Tech | CSE

amazon 25 LPA

Highest Package Achievers



SHIVAM SINGHAL | B.Tech | CSE

amazon 25 LPA



SHRUTI GUPTA | B.Tech | CSE

amazon 25 LPA



VAISHNAVI GUPTA | B.Tech | CSE

amazon 25 LPA



PRIYANSHU GOEL | B.Tech | CSE

amazon 25 LPA



ABHINAV GUPTA | B.Tech | ECE

amazon 25 LPA



RIYA TYAGI | B.Tech | ECE

amazon 25 LPA



VINAY KUMAR | B.Tech | ECE

amazon 25 LPA



ARNAV JAIN | B.Tech | IT

amazon 25 LPA



ATUL RAJ | B.Tech | IT

amazon 25 LPA

Highest Package Achievers



KARAN NARENDRA SINGH | B.Tech | IT

amazon 25 LPA



KAVI KUMAR | B.Tech | CSE

amazon 25 LPA



SAGAR ADVAL | B.Tech | IT

amazon 25 LPA



SONAKSHI GUPTA | B.Tech | IT

amazon 25 LPA



TAPISH GUPTA | B.Tech | IT

amazon 25 LPA



DEVANSH SRIVASTAVA | B.Tech | CSE

Couchbase 24.04 LPA



UJMA | B.Tech | CSE

Walmart Global Tech 23.39 LPA



MUSKAN SURI | B.Tech | ECE

Walmart Global Tech 23.39 LPA



MUSKAAN MITTAL | B.Tech | IT

blinkit GROSSERS 22 LPA

Highest Package Achievers



VANSHIKA MEHROTRA | B.Tech | CSE

Walmart Global Tech **21** LPA



RISHIKA GUPTA | B.Tech | IT

Walmart Global Tech **21** LPA

EXCELLENCE OF STUDENTS IN COMPETITIVE EXAMS FOR HIGHER STUDIES

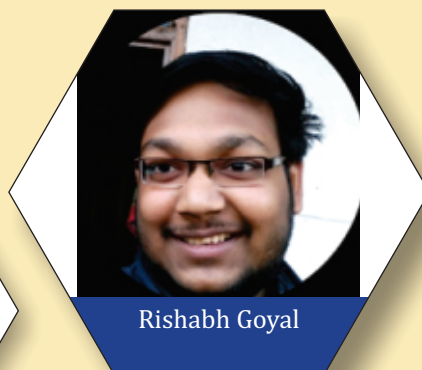
Outstanding performance has always been a USP of AKGEC students, not only at the University level, but also in competitive examinations for higher education. Around twelve students, across the branches, qualified GATE 2022 examination with All India Rank within first 7500 and four students with All India Rank within first 2000. Divyansh Sinha from Electronics & Instrumentation and Rishabh Goyal from Mechanical Engineering excelled with All India Rank 433 and 590 respectively. Many offer students qualified CAT examination with more than 80 percentile. Kankshi Singh from Information Technology department scored 93.08 percentile.

AKGEC students have also established an excellent record in admissions to eminent post graduate Institutions including IITs and IIMs as well as reputed Universities for higher studies. During the academic year 2020-21, students were selected at University of Glasgow UK, University of Exeter UK, IIM Nagpur, National Institute of Technology Surathkal Karnataka, Delhi Technological University, Delhi School of Management (DTU), Fore School Of Management Delhi, Birla Institute of Technology Mesra Ranchi and two students at Motilal Nehru National Institute of Technology (MNNIT) Allahabad.

In the 2022 passing out batch, students got selected at NYU (New York University) USA Tandon School of Engineering, Pace University New York (USA), University of Florida USA, IIM Bodhgaya, IIT Mandi, Indraprastha Institute of Information Technology Delhi, ISM Dhanbad, MC Master University Hamilton Ontario Canada and Motilal Nehru National Institute of Technology (MNNIT) Allahabad.



Divyansh Sinha



Rishabh Goyal

ACHIEVEMENTS

Smart India Hackathon (SIH'22)-Record Breaking Performance



AKGEC students brought glory to their college by spectacular performance in the 5th edition of Smart India Hackathon (SIH'22), held Nationwide from 25th to 29th August 2022 at various Nodal Centres all across country. Smart India Hackathon is a National initiative by the Ministry of Education's Innovation Cell to promote innovation and creativity.

A record number of eight teams from AKGEC won the Hackathon titles and each of the teams were rewarded with one Lac rupees prize

money. During the grand finale, team Ideal Bits of AKGEC had the honor of interacting and explaining their application to the Hon'ble Prime Minister, Sh. Narendra Modi, who was highly appreciative of the idea presented by the students.

After SIH'22, two of our students won first prize and were awarded with Rs. 3 Lac at 'UNESCO India Africa Hackathon' held during 22nd to 25th November 2022.

Highest number of teams were selected from AKGEC among all public or private University/Institute in the whole Uttar Pradesh and in top 10 Institutes of India. In SIH'22, above 2000 teams comprising more than 15000 students participated at 75 nodal centres all across India. All over India, highest number of winning teams from one college, is an amazing unbeatable record by AKGEC.

In the SIH Software Category, Team IDEAL BITS developed an application to facilitate IPR filing for the grassroots community and Team BLAZES provided a solution to develop a platform to support the One District One Product (ODOP) initiative. These problem statements were given under Startup India Section by the Department for the Promotion of Industry and internal Trade (DPIT), Ministry of Commerce and Industry. Team SWASTHYAVARDHAK developed a software application for interpreting doctor's notes using handwriting recognition and deep learning techniques; Dell Technologies, Bangalore, India, gave this problem. Team SUPASOLVERS developed a system electronically for detecting occupancy of beds in Hospitals. This problem statement was given by the Government of Rajasthan. Team BLOCKRIDGE developed an application for accessing visual information (written information) by persons with visual disabilities. This problem was given by the Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment. In the SIH Hardware Category, Team ALPHA GEEKS developed a Drone and the team PROXYMORONS developed a blockchain application for tagging farming products. These Problem statements were given by the AICTE MIC student innovation and NIFTEM Thanjavur, Ministry of Food Processing Industries (MoFPI), respectively.



ANVESHANA 2022

Students of Computer Science and Engineering Department along with the school students participated in final round of ANVESHANA 2022 project competition which was held from 22nd to 25th February 2022 in online mode. This year, 104 projects from different colleges of North India were presented. Our AKGEC students presented 9 projects amongst which 7 were selected for the final round. In the final round 3 projects won prizes as mentioned below:



S. No	Project Name	Faculty Mentor	Student Name	Student Roll No	Student Branch/ Year	School Students	Prize
1.	SAPTO, WELL BEING	Mr. Binayak Parashar	Harshit Shukla Anushtha Patel	1900270120027 1900270100041	CS 3rd Year CSE 3rd Year	Shuvam & Himanshu, (Composite School, Ghaziabad)	1st Prize (Rs. 30,000)
2.	HEAR-IT-THROUGH	Dr. Inderjeet Kaur	Ishita Kapoor Tanvi Srivastava	2000270100085 2000271530062	CSE 3rd Year CSE 3rd Year	Nadra and Shaaajia, (Senior Sec. School, Paharganj, Delhi)	3rd Prize (Rs. 20,000)
3.	DIFESA	Dr. Inderjeet Kaur	Apoorv Maheshwari Stuti Goyal	1900270100042 1900270110050	CSE 3rd Year CSE 3rd Year	Simran & Rinku, (Composite School, Ghaziabad)	4th Prize (Rs. 15,000)

PLAN2HACK Hackathon

The IEEE student branch of Bharati Vidyapeeth's College of Engineering, New Delhi organised **Plan2Hack** on 12th May 2022. The competition was divided into three rounds - the idea submission round, the product/prototype round and then the business plan round. Each round acted as a shortlisting round. From AKGEC, 140 teams participated in first round out of which 45 teams made to the second round and 12 teams made to final round of PLAN2HACK Hackathon. The team 'Newshell' of AKGEC won 3rd prize. The project 'Newshell' provided a solution of summarised news to the readers along with a complete context about the news. The project was praised for its unique technological approach by the jury. The team details are mentioned below:

S. No	Project Name	Faculty Mentor	Student Name	Student Roll No	Student Branch/ Year	Prize
1.	Newshell	Dr. Pratima Singh	Malay Joshi Yash Khare Aryan Singhal Anurag Singh Patel	1900270310088 2000270100192 2000270130035 2000271540016	ECE CSE CSE CSE	3rd Prize (Rs. 15,000)

TOUR DE FORCE

InnoHacks at KIET Ghaziabad

The team won best socially impactful idea out of 30 selected teams at the 24 hours offline hackathon. The project was Digitized Queue Management system for stores, malls, shops and ticket counters. The simple implementation and cost-effective solution with easy usability was appreciated by the judges.

Project Name	Student Name	Student Roll No	Student Branch/ Year	Prize
Digitized Queue Management System	Saksham Tiwari	2000270120090	CSE	Best socially impactful Idea (Rs 5000+ goodies)
	Utkarsh Kumar Singh	2000270100173	CSE	
	Manish Kumar Yadav	2000270100095	CSE	
	Hargun Singh	2000270130065	IT	

CDAC-2022

Centre for Development of Advanced Computing (C-DAC), a premier R&D organization of the Ministry of Electronics and Information Technology (MeitY), CDAC Delhi invited the Indian students for an open Grand Challenge organized as part of *Azadi Ka Amrit Mahotsav*. Total 17 teams from CSE Department participated in CDAC Grand Challenge Contest 2022. 6 Teams were shortlisted for the next round and two teams won the cash prizes:

S. No	Project Name	Faculty Mentor	Student Name	Student Roll No	Student Branch/ Year	Prize
1.	Vision I	Mr. Binayak Parashar	Apoorv Maheshwari	1900270100042	CSE 3rd Year	1st Prize (Rs. 9,000)
			Stuti Goyal	1900270110050	CSIT 3rd Year	
2.	Sapto	Dr. Inderjeet Kaur	Anushtha Patel	2000270100085	CSE 3rd Year	2nd Prize (Rs. 6,000)

Unifest 2022

Devanshi Singhal, III year, EN achieved 1st position in event 'Film Making' in Unifest 2022, held at Galgotia campus. Unifest 2022 was a techno-cultural extravaganza full of incredible events providing a platform for every talent. The fest brings in-crowd and participation from revered institutes such as the IITs and colleges of Delhi University and touted as one of the biggest college festivals in North India, sheer celebration of the fest validates the event.

Global Thomso, IIT Roorkee

scored second position In a Talent Hunt Competition under '**Global Thomso**' organized by IIT Roorkee Alumni Association, AKGEC students Piyush Jaiswal and Siddharth Kumar Singh secured 2nd position.

These two students also won 1st prize in **Anti-Drone system at Tech-fest 'Festronix 1.0** under the same fest 'Global Thomso'.

Circuit Designing and Shark Tank

Siddharth Kumar Singh won first and third prize in **Circuit Designing and Shark Tank** respectively held at **Lloyd Institute of Engineering and Technology**.

AKTU SPORTS FEST

AKTU organises arts and cultural fest, sports fest, technical, literary and management fest every year for its constituent and affiliated colleges. In 2021-22, AKTU announced Sports Fest from 22nd to 23rd November 2021. During the fest, the students from various institutions presented their talents in athletics, basketball, badminton, volleyball, chess, table-tennis, kho-kho, and football. Among all the participants the following students of AKGEC won the medals at various levels.



Name of the Award	Medal	University/State/National/ International	Name of the student
AKTU Basketball Boys	Silver	Zonal	Varun Agrawal
AKTU Basketball Girls	Gold	Zonal	Anshika Sharma Ananya Arora
AKTU Kho Kho (Girls)	Gold	Zonal	Tanushki Chaudhary Priya Singh
AKTU (Football) (Boys)	Gold	Zonal	Kavi Kumar Karan Singh Shubham Semwal Ayush Shukla
AKTU (Badminton) (Girls)	Silver	Zonal	Garima Mittal Sonam Gupta Unmesh Dey
AKTU Table Tennis (Boys)	Gold	Zonal	Varun Agrawal
AKTU (4*100 m Relay) Girls	Gold	Zonal	Tanushki Chaudhary
AKTU (4*100 m Relay) Boys	Gold	Zonal	Amit
AKTU Basketball Girls	Gold	State	AnshikaSharama Ananya Arora
AKTU Kho Kho (Girls)	Gold	State	Tanushki Chaudhary Priya Singh
AKTU Table Tennis (Boys)	Gold	State	Varun Agrawal
AKTU (4*100 mRelay) Girls	Gold	State	Tanushki Chaudhary
AKTU (4*100 m Relay) Boys	Gold	State	Amit



Participation in Cultural/Literary Inter-College Events

AKGECians did extremely well and gave a strong competition to the competing teams in various cultural and literary inter college events organized by other institutes / Universities including Bharati Vidhyapeeth, IIT Roorkee, NIT Kurukshetra, IIT Goa, IMT Ghaziabad, Sharda University and others.

Team Footprints of our college participated in “Tales of Trails” under Global Thomso at IIT Roorkee and won the pool prize of Rs. 25,000/-.

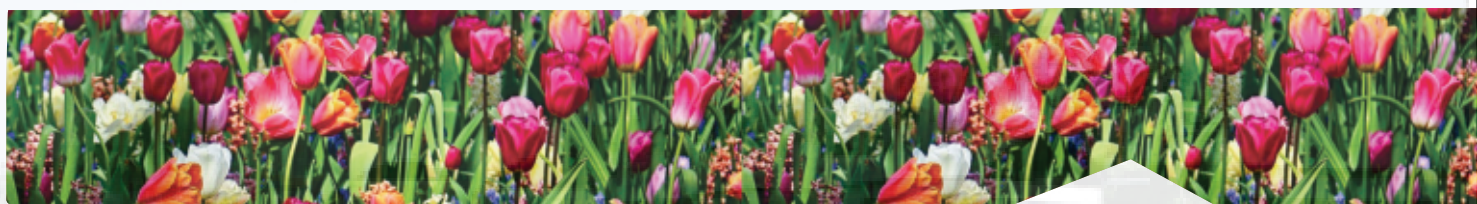
Team Taal’ of our college presented a scintillating group dance in Confluence’ 22 of NIT Kurukshetra and won 3rd prize among many contestants from Delhi & Punjab Universities.

Team Footprint of our college, participated in CULTRANG’ 22 of IIT-Goa and one girl student got 1st prize in “Abstract Painting” Competition.

Team Goonj of our college, participated in Unifest’22 of Galgotia Engineering College and won 1st position in Film Making and 2nd position in Mono-acting. Unifest’22 is a techno-cultural extravaganza that brings in-crowd and participation from revered institutes such as the IITs and colleges of Delhi University and touted as one of the biggest college festivals in North India.

Team Footprints from AKGEC, participated in all domains of the annual fest Unifest’22 and its one member won 1st prize in the “Taare Zamin Par (Doodling)” Competition.

Team VERVE, the fashion team of our college participated in the grand cultural fest Melange’21 of Institute of Management Studies (IMS) and acquired 1st position in the competition. In addition to it, the team also won prizes of ‘best dressed’ in both male & female categories.



FLOWER SHOW

AKGEC being that a clean, green and a pollution free campus provides a positive backdrop for an effective learning experience. Every year, the Horticulture Department of the college participates in Flower Show competition organized by Landcraft Builders to showcase its work under various categories. Like previous years, AKGEC won prizes under following different categories in the show organized during 11th to 13th March 2022. In addition, the college was awarded over all runners up trophy of Flower Show.

Category	Position
Different type of Coleus viz color leaf plants	I
Specimen Yucca viz kind of Cactus	I
Hanging Basket of Perennial viz ornamental plants	I
Hanging Basket of Mixed Flowers / Plants	I
Colorful and Aesthetically Designed landscaping at site	I
Importance of Water – Rain harvesting method shown in our Landscaping area	I
Tray Garden of Mixed Plants	I
Tray Garden of Cactus Plants	I
Different type of Asparagus - various kinds of grass	II
Different type of Schefflera (Leaf Plants)	II
Specimen Pachypodium – a cactus variety	II
Specimen Adenium viz Bonsai	II
Specimen Nolina- it is a Bonsai bulb with shoots	II



TOUR DE FORCE

VALUE EDUCATION CELL ACTIVITIES

Evening workshops on “Understanding Science of Relationships through Self-Exploration/ Mutually Fulfilling Communication”

Value Education Cell conducted several evening workshops (two hours a day for five days) for students. The objective of these workshops was to help the students to recognize and fulfil the natural feelings required to live in Harmony. The workshops were focussed to develop the ability in students to live with the feeling of excellence rather than living in competition.



The following evening workshops were organized by VE Cell, the workshops were attended by 210 students:

S.No.	Duration	Topic	Remarks
1	27.09.2021 to 01.10.2021	Understanding Science of Relationships through Self-Exploration	17 students of the college attended the workshop
2	27.09.2021 to 01.10.2021	Mutually Fulfilling Communication	07 students attended the workshop
3	29.11.2021 to 03.12.2021	Understanding Relationships through Self-Exploration	81 students successfully completed the workshop
4	29.11.2021 to 03.12.2021	Mutually Fulfilling Communication	18 students successfully completed the workshop
5	20.12.2021 to 24.12.2021	Understanding Relationships through Self-Exploration	14 students completed the workshop successfully
6	03.01.2022 to 07.01.2022	Mutually Fulfilling Communication	16 students completed the workshop successfully
7	25.04.2022 to 29.04.2022	Mutually Fulfilling Communication	17 students from various departments successfully completed the workshop
8	06.06.2022 to 10.06.2022	Understanding Science of Relationships through Self-Exploration	40 students registered for the workshop however 18 students completed it successfully

Value Education (VE) Cell of AKGEC celebrated annual function UTSAV, where alumni shared their experiences/ learnings gained from VE Cell. All Deans, HoDs and selected students were present at the function.



Drishti

"Drishti", an event organized by the VE Cell, aimed to understand everyone's perception and helped to evaluate them in the light of Holistic Wisdom. These perceptions were evaluated with the help of short movies. The participants were shown a short movie and asked to share their views. After understanding their views, VE Cell helped them to evaluate the movie based on holistic wisdom.

The First Event was successfully held on 23rd December 2021, total 51 students participated the event. The movie **Mumbai Varanasi Express** was shown to the participants.

The Second event was held on 5th May 2022. The registration of event got an enthusiastic response by 128 students. However, it was decided to limit the number of seats, therefore only 77 seats were allotted.



AICTE approved UHV FDPs

VE Cell organized the following AICTE approved FDPs for faculty members, on Universal Human Values:

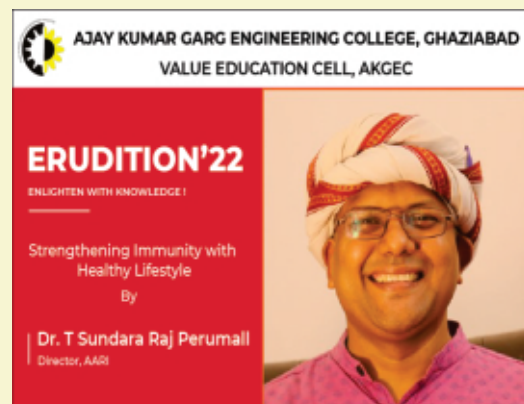
Duration	Event	Remarks
01.09.2021 to 08.09.2021	Refresher Workshop on Universal Human Values	35 faculty members of the college attended the workshop.
06.04.2022 to 13.04.2022	AICTE approved eight-day UHV2 (Level-1) FDP	25 participants from AKGEC and 02 from ABES, Gzb attended the FDP.
04.07.2022 to 08.07.2022	05 days AICTE approved Refresher FDP was held for AKGEC FMs.	36 faculty members attended the FDP.



UHV Webinars

The VE Cell invited eminent speakers to talk on various topics to escalate value education. The following webinars were held during the session 2021-22:

Date	Webinar Details	Audience
22.01.2022	An online webinar on "Strengthening Immunity with Healthy Lifestyle" by Dr. T Sundara Raj Perumull	Approximately 374 students attended the webinar
29.01.2022	An online webinar on Right to Environment by Greenman of India	250 students attended the webinar.





SAVE WATER. SAVE LIFE.



Ajay Kumar Garg Engineering College

Approved by AICTE and Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow

27th KM Stone, Delhi-Meerut Expressway, Ghaziabad, Uttar Pradesh - 201 009

Phone : 8744052891-93, 7290034978

E-mail : info@akgec.ac.in Visit us at : <https://www.akgec.ac.in>