



SAMPARK

A PUBLICATION OF AJAY KUMAR GARG ENGINEERING COLLEGE

2020-21 ISSUE





Vision

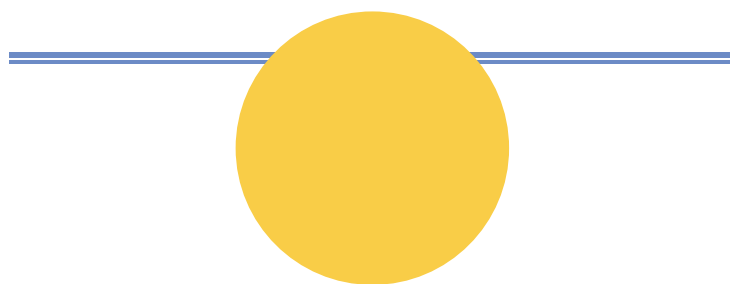
To introduce Under Graduate and Post Graduate courses for all Engineering branches and award of Ph.D degree, to be one of the best Engineering Colleges in the country and to be a Deemed University.

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. Mamta Bhusry
Professor
Department of Computer
Science and Engineering

Dr. Monika Agarwal
Assistant Professor
Department of Applied
Sciences and Humanities

The title- SAMPARK- is justified in a unique way in the present pandemic scenario; as this 2020 edition of our college publication comes as a powerful medium to be in warm touch and engaging communication with our diverse audience-the college management, faculty, staff, students, alumni, parents, recruiters and collaborators of AKGEC.

Sampark is a miniature portrayal of all the enlivening events and truly honest efforts by the whole AKGEC family with the new normal towards our clear vision and mission. With this 2020 edition, we produce a testimonial of our dedicated pursuit for excellence in academic, co-academic, social, cultural and ethical domain with an equally uncompromising fervor.

Turning through the pages of this edition, we hope, the reader will experience as of having an exquisite virtual tour of the college abuzz with a vital creative energy reflected in the adaptive methods and tools for persistent academic & industry-oriented activities enduring the erupting challenges of the pandemic. The restriction of physical proximity has minimal traces on the undaunted spirit to strive for excellence.

The editors express gratitude to Director General Dr. R.K. Agarwal for the precious guidance and incessant encouragement to appear with this latest edition purporting a sincere showcasing of the campus reverberations. The steady support of all contributors- Heads of various Departments, Deans, Section-in-charges, faculty, staff and students- has been instrumental in this publication.

Editorial Team

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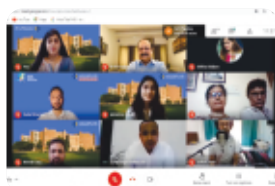
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DIRECTOR GENERAL'S MESSAGE



Dr. R.K. Agarwal
Director General

During more than one year of the pandemic now, the education industry has faced the pronounced challenge of the shift from physical teaching paradigm to online platform. For the students, the teachers and the Institutes, the transition has been an amalgam of diverse and immense adjustments as learning has always been in the classrooms which are no longer the platform during these tough times of the pandemic. It is highly appreciable that Team AKGEC quickly rose to the challenges effectively in both academics and other activities in the college. The faculty wasted no time in adapting to the online teaching methods and came up with many innovative approaches to make the online teaching useful and interesting. Apart from successful academics, a wide range of online activities including webinars, Faculty Development Programs and competitive events were undertaken. During the unlock and subsequently, the faculty wasted no time in adapting to another new set of teaching equipment and procedures. All these positive efforts and the consequent results have been possible only due to the dedicated efforts of all stakeholders – the College Management, Deans and Heads of Departments, faculty, staff and the students. These exhibit the very culture of AKGEC to always excel and surpass its own previous achievements.

This edition of the Sampark is a true testimonial of the innovative efforts of the college in its persistence towards holistic excellence even during the tough times of the pandemic. As we read through the pages of the magazine, the resolve of the students, faculty and staff not to let their spirits to perform dampen even during these harsh times is evidently visible.

My best wishes and guidance will always envisage AKGEC to be at the zenith of excellence. Last but not the least, I take this opportunity to congratulate the Team Sampark for reflecting in this edition all our activities during the last year.

Common Facility Centre (CFC) for General Engineering Industry



AKGEC in its endeavour to promote industry institute interaction, has got approval from Department of MSME & Export Promotion for the establishment of Common Facility Centre (CFC) for General Engineering Industry under One District One Product (ODOP) scheme of the Government of Uttar Pradesh at its campus.

To implement this scheme, AKG Foundation for Innovation and Product Development has been incorporated as a consortium of 22 industries and academia, including some of the prominent industries of the region.

This CFC to be established at AKGEC will have a **High End Engineering Product Development Facility** for local industries including Modern Tool Room, Material Testing Lab, Research & Development Lab and Industry 4.0 Lab.

The Foundation Stone Laying Ceremony of the Centre was conducted on 25 June, 2021 in online mode by Sh. Yogi Adityanath, Hon'ble Chief Minister of Uttar Pradesh, in the benign presence of Cabinet Minister, MSME & Export Promotion; State Minister, MSME & Export Promotion and Additional Chief Secretary, Department of MSME & Export Promotion.

The ceremony at AKGEC was attended by Hon'ble Minister Shri Atul Garg; District Magistrate, Ghaziabad; Joint Commissioner, Industries and other eminent administrative authorities and AKGEC Management Members.

During the ceremony, Dr. R.K. Agarwal, CEO, AKG Foundation for Innovation & Product Development presented details of the project to Hon'ble Chief Minister



and conveyed gratitude on behalf of SPV members for sanction of this much needed CFC for Ghaziabad Industry. The Hon'ble Chief Minister conveyed his best wishes for successful implementation of this project and achieving the desired objectives of CFC.

Trainings under DDU-GKY Scheme

AKGEC has been sanctioned a grant of Rs. 305 lacs to conduct residential training for 300 candidates under Deen Dayal Upadhyaya Grameen Kaushalya Yojana (DDU-GKY) by the Ministry of Rural Development (MoRD), Govt. of India to promote excellence in vocational education and imparting technical training programs to 10th and 12th pass students. The training is conducted on the job roles - Welder Arc & MIG Welding, CNC Machine Operator (Turning & Milling) and Field/Installation Technician Computing Peripheral & Installation.



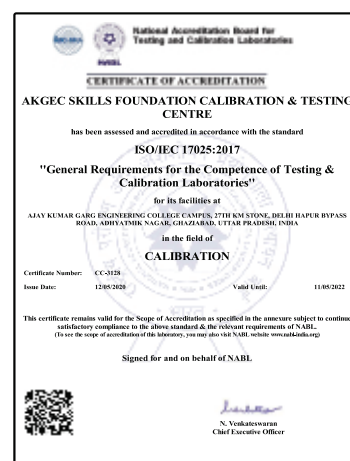
DDU-GKY is a part of the National Rural Livelihood Mission (NRLM) of MoRD, tasked with the dual objectives of adding diversity to the incomes of rural poor families and catering to the career aspirations of rural youth.

DDU-GKY is uniquely focused on rural youth between the age of 15 and 35 years from underprivileged families. As a part of the Skill India campaign, it plays an instrumental role in supporting the social and economic programs of the Government like the Make In India, Digital India, Smart Cities, Start-Up India and Stand-Up India campaigns.

Accreditation of Measurement and Metrology Centre by NABL

AKGEC has established a world class Measurement & Metrology Centre in collaboration with Zeiss. It is equipped with 3D Coordinate Measuring Machine (CMM), Surface Roughness Testing, Contour Measurement and 3D Scanning setup, along with the regular measuring instruments and accessories. The facility has now been accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) as per ISO / IEC 17025:2017 standard, complying with "General Requirements for the Competence of Testing & Calibration Laboratories."

The centre is now authorized to provide internationally valid dimension testing / calibration results as per the scope approved by NABL. With this recognition, the measurement and metrology centre at AKGEC joins one of the very few elite laboratories setup by an Engineering Institute, to be accredited by NABL in the country. The centre now looks forward to offer the services in Dimension Metrology to the nearby Industries and Research Organizations.



Competency Development Programs



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

Training Program	Duration	Conducted by	Participants
Internal Training Program on 3-D Printing Concept	4 days	AKGEC – PLMC Team	AKGEC – KUKA (IRTC) Team
Training program on 3-D Printing Hardware Setup	5 Days	Grind Master	AKGEC – KUKA (IRTC) Team
Training Program on Robo DK Software for 3-D Printing	3 Days	Grind Master	AKGEC – KUKA (IRTC) Team AKGEC – PLMC Team
Training Program on Artec Eva 3-D Scanner	3 Days	Artec Eva	AKGEC – PLMC Team AKGEC – AMC Team
Train The Trainer Program on iQr PLC for ATC	2 Days	Mitsubishi Electric India	AKGEC – BOSCH (CEAT) Team
Train The Trainer Program on GOT 2000 for ATC	2 Days	Mitsubishi Electric India	AKGEC – BOSCH (CEAT) Team
Train The Trainer Program on LVS for ATC	1 Day	Mitsubishi Electric India	AKGEC – BOSCH (CEAT) Team
Train the Trainer Program on FX5U for ATC	2 Days	Mitsubishi Electric India	AKGEC – BOSCH (CEAT) Team
Train the Trainer Program on Distributed Control Systems	3 Days	Adroit Control Solutions	AKGEC – BOSCH (CEAT) Team
Train the Trainer Program for DDU-GKY	10 Days	Capital Goods Sector Skills Council	Mr. Abhishek Gupta, AKGEC Mr. Amit Kumar Singh, AKGEC

Training Programs

AKGEC Skills Foundation (ASF) in its endeavor to promote skilling for students and industry professionals using its worldclass training and research infrastructure in Automation, Robotics and Advanced Manufacturing domain organized various training programs and workshops for the students.

ASF Centre	Training Program	Technology	Duration
AKGEC- KUKA (IRTC)	Short Term Training Program	Basic Robot Programming	5-29 January, 2021
AKGEC- KUKA (IRTC)	Short Term Training Program	Advance Robot Programming	8 February to 5 March, 2021
AKGEC- FRONIUS (AWTRC)	Certificate Program	Welding Technician Programming	4 January to 24 February, 2021



RESEARCH AND DEVELOPMENT



Active participation in activities like R&D and Consultancy Projects play a key role in the development of both the Institute and the teaching fraternity. A number of projects in the areas of research and consultancy including projects funded by various funding agencies were taken up by the AKGEC faculty throughout the year.

Consultancy Projects		
Project	Organization	Responsible Person
Design and Prototyping of DRDO Bike Ambulance	DRDO INMAS	Mr. Vikram Singh Rajput AKGEC – PLM Centre
Robotic Welding Trail for Calculation of Electrode Consumption	Modi Hitech India Ltd	Mr. Ankit Dixit AKGEC-KUKA IRTC Centre
Robotic Weld Trail for Wheel Balancing	Micromatic System/ Schenk Gmbh	Mr. Ankit Dixit AKGEC-KUKA IRTC Centre
Welding Trial on Cast SuperNi868 Plate with SS310 Plate at TIG Station	NTPC Limited	Mr. Vivek Singh AKGEC - Fronius AWTRC Centre



Research Project **Design and Development of Metal 3-D Printer** received a grant of Rs. 4,35,000 from Dr. A.P.J. Abdul Kalam Technical University under the Visveswaraya Research Promotion Scheme (VRPS). The project with a duration of two years is under progress. The Pulsed MIG welding machine has been procured and trial experiments have been conducted. Mr. Pradeep Jain and Dr. Namrata Gangil, faculty in Department of Mechanical Engineering, are the Principal Investigator and Co-Principal Investigator respectively.

The research project **Compressed Parallel Wavelet Tree Based Semantic Search** sponsored by UPSCT is under progress. Work on the survey of contribution of wavelet trees to design indexing to retrieve information in the field of web, Healthcare, Agriculture, Bioinformatics and earthquake detection has been completed. Two research papers related to the project have been published in Scopus indexed Conferences.

Students of Software Development Centre (SDC), AKGEC, undertook development work for AKGEC as well as external clients and successfully completed three projects. SDC is the software development team of AKGEC that is devoted to software development as well as conducting various courses and workshops for fellow students in the emerging technologies. The Centre is managed solely by the students with infrastructure support being provided by the college.

Project	Duration	Client
Tradebag : Product page website. Designed and developed frontend with React.	1 – 16 December, 2020	Tradebag
Attendance System : A face recognition based entry system, to mark the entry and exit time of students that enter the lab.	15 December, 2020 to 01 March 2021	SDC-SI
Bytepad 4.0 : Bytepad 4.0 with optimised management approaches to handle large numbers of papers effectively. It is both as an Android application and a Web application which includes a dynamic admin panel to manage existing as well as new papers in the future.	10 May, 2021 to 20 July, 2021	AKGEC

TOUR DE FORCE



ADMISSIONS

The college had reasonably good admissions for the academic year 2020-21, despite the declining trends in the State and admitted 1005 students in the B.Tech programs against an intake of 1140 students. The present strength of students in the college is 4041.

More important than these numbers is the fact that the college admitted a good spectrum of students, both through the University counselling and direct admissions under the management quota. The ranks of general category students admitted in the college through counselling ranged between 1331 and 82694. Our college continued to be one of the most preferred self financed engineering colleges in the State. In another significant development, students showed preference to AKGEC even over some Government colleges. Seats of some of our branches filled up while there were vacancies in Government colleges, indicating the increasing preference for the college. The management quota admissions also had a good spectrum. Under the direct admissions, 30% students had a PCM above 90%, 59% students had a PCM above 80%, 91% students had a PCM above 70% and only 9% students had PCM below 70%.

RESULTS

The result of students graduating during the academic year 2019-20 has been exceptionally good. 96% students passed, out of which 95% passed with first division including 58% honors.

In addition to overall good results, the college earned a remarkable achievement in terms of number of students in University merit list. Eight students secured position in merit list of AKTU with 1 Gold, 2 Silver and 1 Bronze medals. The college has been consistently having the maximum number of medalists over the last few years. It is a matter of pride for the college, that the Chancellor's Medal for getting the highest marks in all branches of the B.Tech. courses has been bagged by our student for the fifth consecutive year since its inception.

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



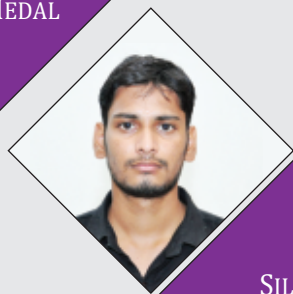
SRISHTI SINGH
ECE

CHANCELLOR'S
AWARD
GOLD MEDAL



ARUN KUMAR
MAURYA
EN

SILVER
MEDAL



ANIRUDDH
SHUKLA
EI

SILVER
MEDAL



AJAY SAINI
EI

BRONZE
MEDAL



UTKARSH
DWIVEDI
ME

IV
POSITION



AKASH YADAV
EN

V
POSITION



SRISHTI SAHU
EI

V
POSITION



AKASH VERMA
EI

IX
POSITION

TOUR DE FORCE

PLACEMENTS

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

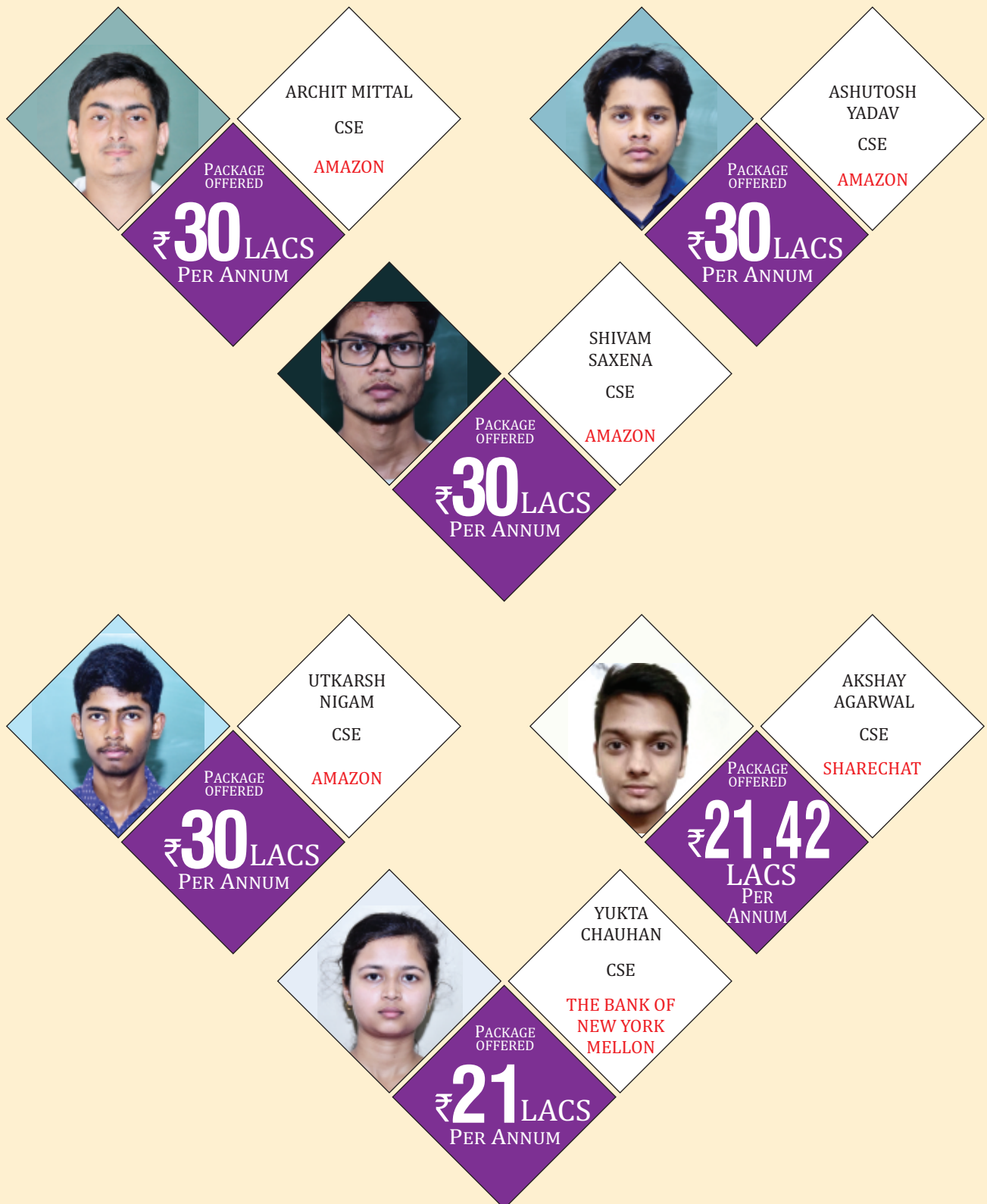
The campus placements have been steadily improving both in terms of numbers and type of companies. The 2020 passed out B.Tech batch had 918 offers in hand and for the 2021 passing out B.Tech students the number of offers are 1171 and the process is still on.

The major recruiters have been reputed companies like Adobe, Accenture, Airtel, Amazon, Infosys, TCS, Wipro, Capgemini, Cognizant, Ericsson Global, IBM India, DLT Labs, AVL India, Accolite Software, Arista Network India Pvt Ltd, Bobble AI, Byju's, Cavisson Systems, Coforge Limited, Extramarks Education India Pvt. Ltd, Gainsight Software, Global Logic, Grofers, Hanu Software, Hashedin By Deloitte, HCL Technologies, Hexaware Technologies, Hitachi Consulting, Hike India, HSBC Technology India, Indiamart, Intellegings, ION Group, Jaro Education, Juspay Technologies, Lohia Group, MAQ Software, Microsoft, NEC Technologies, NCR Corporation, Newgen Software, NIIT Ltd, NTT Data, QA Infotech, Sopra Banking Services Ltd, Sopra Steria, The Bank of New York Mellon, Urbanclap Technologies, Walmart Global Tech India, Willey Mthree, Zopper, Zopsmart, etc.

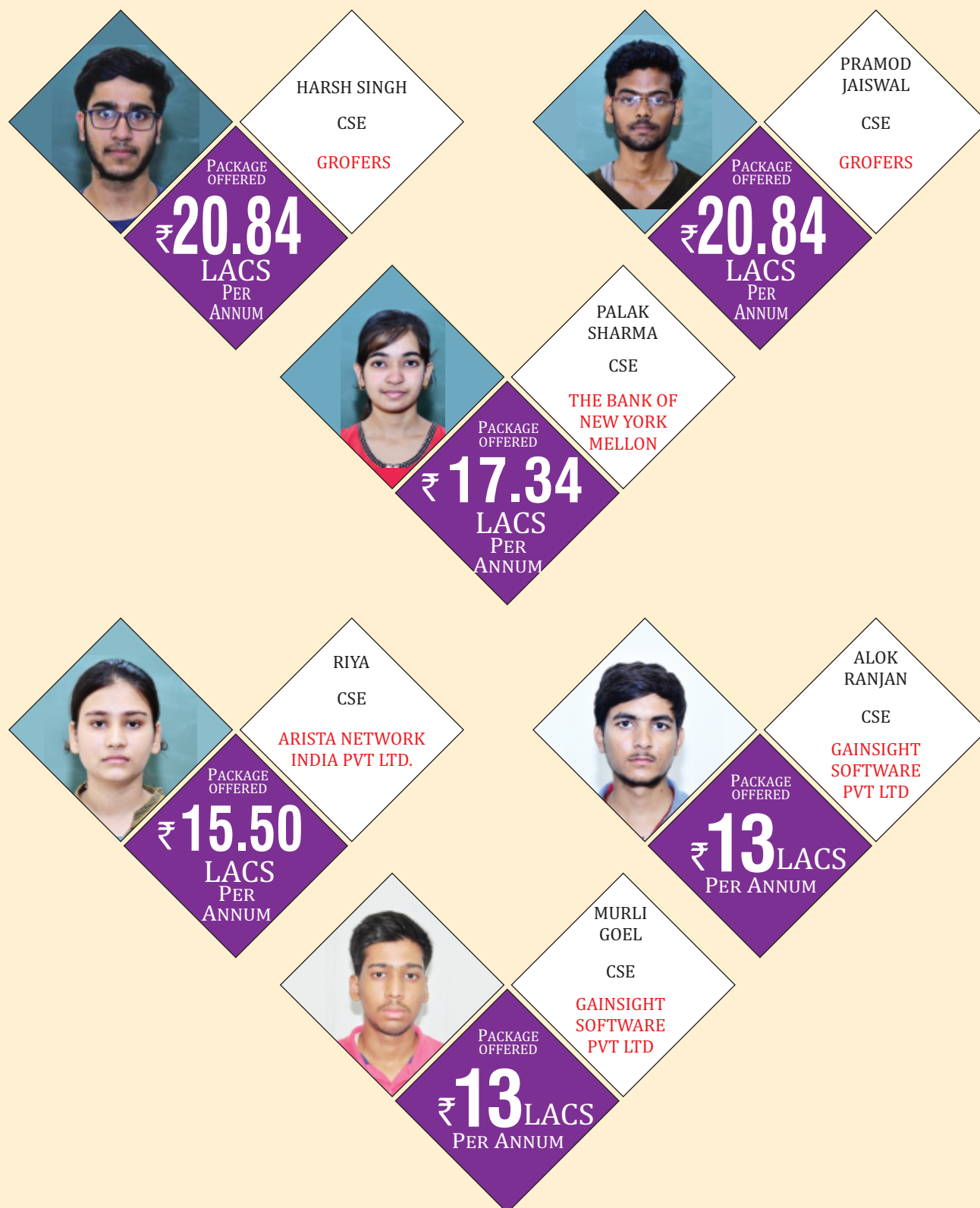
Twenty nine students, across the branches, have got salary package of Rs. 10 LPA or above.

S. No.	Roll Number	Student's Name	Branch	Company	Package
1	1702710039	ARCHIT MITTAL	CSE	AMAZON	30.00
2	1702710050	ASHUTOSH YADAV	CSE	AMAZON	30.00
3	1702710160	SHIVAM SAXENA	CSE	AMAZON	30.00
				GAINSIGHT SOFTWARE PVT LTD	13.00
4	1702710173	UTKARSH NIGAM	CSE	AMAZON	30.00
5	1702710018	AKSHAY AGARWAL	CSE	SHARECHAT (MOHALLA TECH PRIVATE LTD)	21.42
				EXPEDIA ONLINE TRAVEL SERVICES INDIA (P) LTD	12.91
6	1702710189	YUKTA CHAUHAN	CSE	THE BANK OF NEW YORK MELLON (BNY MELLON)	21.00
				WALMART GLOBAL TECH INDIA	21.00
7	1702710070	HARSH SINGH	CSE	GROFERS	20.84
8	1702710115	PRAMOD JAISWAL	CSE	GROFERS	20.84
9	1702710107	PALAK SHARMA	CSE	THE BANK OF NEW YORK MELLON (BNY MELLON)	17.34
				GAINSIGHT SOFTWARE PVT LTD	13.00
10	1702713083	RIYA	CSE	ARISTA NETWORK INDIA PVT LTD.	15.50
11	1702710019	ALOK RANJAN	CSE	GAINSIGHT SOFTWARE PVT LTD	13.00
12	1702710094	MURLI GOEL	CSE	GAINSIGHT SOFTWARE PVT LTD	13.00
13	1702713059	MOHD. HASHIR HASAN	IT	GAINSIGHT SOFTWARE PVT LTD	13.00
14	1702710141	SAMRIDHI BATRA	CSE	MICROSOFT GLOBAL SERVICES CENTER (INDIA) PVT. LTD.	12.04
15	1702731084	NIDHI SHUKLA	ECE	MICROSOFT GLOBAL SERVICES CENTER (INDIA) PVT. LTD.	12.04
16	1702710002	ABHIMANYU BHARDWAJ	CSE	ION GROUP	12.00
17	1702710159	SHIVAM KUMAR TIWARI	CSE	BOBBLE AI	12.00
18	1702710164	SHUBHANGI SRIVASTAVA	CSE	ION GROUP	12.00
19	1702710170	TANYA AGARWAL	CSE	ION GROUP	12.00
20	1702710181	VINAYAK GUPTA	CSE	URBANCLAP TECHNOLOGIES INDIA (P) LTD	12.00
21	1702710014	AJEET KUMAR	CSE	JUSPAY TECHNOLOGIES PRIVATE LIMITED	11.00
22	1702713117	VAIBHAV LAKHMANI	IT	HIKE INDIA	10.80
23	1702710068	GHULAM QUADIR NABEEL	CSE	BYJU'S	10.00
24	1702713034	AYUSH SHARMA	IT	EXTRAMARKS EDUCATION INDIA PVT. LTD	10.00
25	1702713107	SUBHANSHU CHADDHA	IT	ESCECION TECHNOLOGIES PVT. LTD (DEVSLANE)	10.00
26	1702731135	SHRESHTHA SINGHAL	ECE	BYJU'S	10.00
27	1702731162	VARNITH KUMAR	ECE	BYJU'S	10.00
28	1702740054	GAURANG AGRAWAL	ME	BYJU'S	10.00
29	1702740101	PRAKARSH SARASWAT	ME	BYJU'S	10.00

Highest Package Achievers (Session 2021)



Highest Package Achievers (Session 2021)



Highest Package Achievers (Session 2021)



Highest Package Achievers (Session 2021)



Highest Package Achievers (Session 2021)



TOUR DE FORCE

STUDENT EXCELLENCE IN COMPETITIVE EXAMINATIONS FOR HIGHER STUDIES

Outstanding performance has been the USP of AKGEC students not only at the undergraduate level, but also in competitive examinations for higher education.

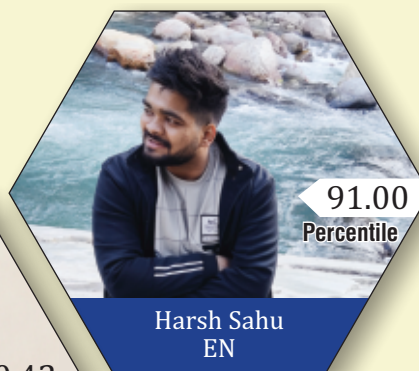
Fifteen students, across the branches, qualified the GATE 2021 examination with All India Rank within first 7500 and five students with All India Rank within first 2000.

AIR
Excellence in
GATE
Results 2021



Good number of students qualified the CAT examination with percentile greater than 80.

Excellence in
CAT
Results 2020



TOUR DE FORCE

AKGEC students have established an excellent record in admissions to eminent post graduate Institutions including IITs and IIMs as well as reputed Universities for higher studies.

For the academic year 2019-20, one student got selected at Northeastern University - College of Professional Studies Boston USA, The University of Melbourne Australia, ULM University Germany, IIT Kanpur, IIT Madras, IIT Ropar, IIM Sirmour, IIM Bihar, Indian Institute of Foreign Trade, Indian Institute of Information Technology Allahabad, Indian Institute of Space Science and Technology Thiruvananthapuram, Indraprastha Institute of Technology Delhi (IIIT-D), J.C. Bose University of Science and Technology YMCA Faridabad, National Institute of Technology (NIT) Jamshedpur, Netaji Subhas Institute of Technology New Delhi, Punjab Engineering College (Deemed to be University) Chandigarh, Govt. Engineering College (Swami Vivekanand Technical University) Jagdalpur Chhattisgarh each and two students at IOWA State University of Science and Technology, USA and University of Delhi.

The admissions to higher education for the 2021 passing out batch are still on.

Admissions

in Higher Education – 2020

Passing Out Batch



AKSHAT
SRIVASTAVA

CE

IIT
MADRAS

MS



AYUSH
GAUTAM

CE

NATIONAL
INSTITUTE OF
TECHNOLOGY,
JAMSHEDPUR
(NIT)

M.TECH



ACHIEVEMENTS

Maulana Abdul Kalam Excellence Award

Dr. Namrata Gangil, Assistant Professor ME and Associate Dean, R&D, received "Certificate of Merit" for her outstanding contribution in the field of education during Maulana Abul Kalam Azad Excellence Award of Education-2020.

The award, named after Abul Kalam Azad, one of the senior leaders of Indian independence movement and first Minister of Education in Independent India, is conferred by the Shikshak Kalyan Foundation annually to felicitate the teachers for their outstanding contribution in education. Maulana Abul Kalam Azad Excellence Award of Education-2020 was conferred in a program graced by Prof. Anil D. Sahasrabudhe, Chairman of All India Council for Technical Education (AICTE) as Chief Guest. The selection of the "Certificate of Merit" was based on the overall contribution of the faculty towards teaching, academics, research pedagogy, innovation and philanthropic contribution to student community.

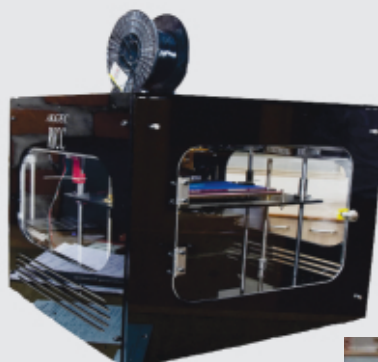


TOUR DE FORCE

Patent for 3-D printer

Mr. Pradeep Jain, Associate Professor, Department of Mechanical Engineering, was granted patent for development of Three Dimensional Printer in August, 2021.

The 3-D printer was used to develop respiratory facemask flexible material TPE. The facemask provides high comfort for patients and increased safety due to the airtight fit to the patients face and filter. He has also designed and developed face-shields for COVID 19 protection using same in-house 3-D printer. These face shields were used by the security personnel at AKGEC during the COVID-19 pandemic.



Face Shields
Developed on
In-House 3-D Printer



Innovation Ambassador Appointment

Mr. Nirmal Garg, Assistant Professor, Department of Mechanical Engineering, successfully completed **Innovation Ambassador Training** conducted by MoE's Innovation Cell & AICTE, New Delhi. He has been entitled as **Innovation Ambassador** of Ajay Kumar Garg Engineering College, Uttar Pradesh, by Institutes Innovation Council, Ministry of Education, Govt. of India. He has also been appointed as Mentor from Ajay Kumar Garg Engineering College for other Institutes / colleges to mentor them for innovation and entrepreneurship. AKGEC has been nominated as Mentor Institute for Mentor-Mentee program for innovation and entrepreneurship by Institutes Innovation Council, Ministry of Education, Govt. of India.



TOUR DE FORCE

Nomination – National Steering Committee

AICTE recently launched a Scheme for the establishment of IDEA Lab (Idea, Development, Evaluation & Application) in AICTE approved institutions, encouraging students for application of Science, Technology, Engineering & Mathematics (STEM) fundamentals towards enhanced hands-on learning and learning by doing experience. AKGEC FAB LAB is one of the mentor labs for this IDEA lab scheme.

National Steering Committee (NSC) has been constituted by AICTE for identifying potential Institutes/colleges across the country for the establishment of IDEA labs, recommending them for giving grants in aid and providing continuous handholding to these newly setup labs, including monitoring & supporting them during the development phase.

Prof Ashiv Shah, Head, TIFAC-CORE has been nominated as member of NSC under the chairmanship of Prof Prabhat Ranjan, Vice Chancellor, D Y Patil International University, Pune and Prof Patnaik, Director, NITTTR-Chandigarh, Prof DV Gadre, Director, TI centre, NSUT, Delhi and Dr Panwar as Member.



Shankara Hackathon 2021

Students of Ajay Kumar Garg Engineering College participated in Shankara Hackathon 2021 during 19-20 March, 2021 at Shankara Institute of Technology, Jaipur.

Shankara Hackathon is a 36 hour continuous design sprint-like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers and others often including domain experts, collaborate intensively on software projects.

The competition was organized by Shankara Group of Institutions in association with TEQIP-III and Rajasthan Technical University, Jaipur. The event was inaugurated by Shri. Kalraj Mishra, Hon'ble Governor of Rajasthan, along with the special Guest of Honour H.E. Julius Pranevicius, Ambassador of Lithuania in India, and Shri. Subhash Garg, Hon'ble Minister for Technical Education, Government of Rajasthan.

Around 130 projects were presented from different colleges all over India. Our college students presented two projects out of which the project titled **“Smart Education System during Lockdown”** won the First prize of Rs. 25,000. Both projects were highly appreciated by the jury.

The project was implemented by developing the hardware, mobile application and website. In hardware, 180 Degrees camera for analysis, Humidity sensors, LED/Alarm water break, and Sound Sensors have been used. The mobile application implemented QR Scans, code for test and detailed report to students. Website shows parent's dashboard, analysis of the weak areas, surrounding analysis, social media check and total study time. Machine learning approach was also used for sentiment analysis during the examination, surrounding analysis, detailed analysis of child's performance and scope of improvement of the students.



TOUR DE FORCE

Project	Position	Student Teams	
Smart Education System During Lockdown	First	Prakanshu Sahu Rishabh Jain Rajat Kumar Prajapati Akash Tiwari	B.Tech III Year CSE B.Tech III Year CSE B.Tech III Year CSE B.Tech III Year CSE
Candidate Selection Through Image Processing	Participation	Kshitij Khare Naman Jain Shivam Bisht Khush Mehndiratta	B.Tech III Year ECE B.Tech III Year ME B.Tech III Year CSE B.Tech III Year ECE

Anveshna 2021

Students of Ajay Kumar Garg Engineering College along with school students participated in **Anveshna Project Competition 2021** which concluded on 15 March, 2021 virtually on Zoom platform.

Anveshana is conducted by Agastya International Foundation and Synopsys India Pvt Ltd. Agastya is Bangalore based NGO and Synopsys is US Based IT Consulting firm, with offices in northern and southern parts of India. The competition was conducted in online mode this year due to the Covid pandemic. 40 finalists were selected out of 150 Projects received from 22 Engineering Colleges from Delhi, Haryana, Rajasthan, UP and MP.

The evaluation process was conducted by the jury members Dr. Prakash from Shiv Nadar University and Mr. Deepak Rai from NIT, Patna. Four teams from AKGEC qualified for the finals. The project **Real-Time Face Mask Detector** won the 5th prize of a total of 10 prizes declared.

Project	Student Team	
Real-Time Face Mask Detector	Nandini Gupta Riya Goel	B.Tech III Year CSE B.Tech III Year CSE
Voting Poll for Indians	Ankur Rawat Ajeet Gupta	B.Tech II Year CSE B.Tech II Year CSE
Electricity Consumption Monitoring App	Apoorv Maheshwari Siddharth Samanta	B.Tech II Year CSE B.Tech II Year CSE
Apna Farmzilla	Priyanshu Goel Avatans Pandey Ashish Chauhan Nihal MB Chaudhary	B.Tech II Year CSE B.Tech II Year CSE B.Tech II Year CSE B.Tech II Year CSE

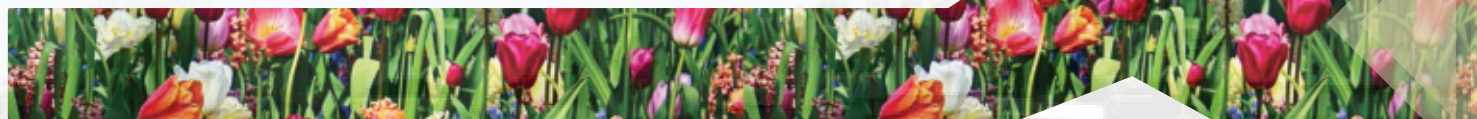
Vidya Bharti Competition 2020

Vidya Bharati Akhil Bhartiya Shiksha Sanstha is the educational wing of Rashtriya Swayamsevak Sangh which was established in 1952 to meet the growing demand of education in India. Vidya Bharti organized a competition from 25 September, 2020 to 2 October, 2020 under the categories: Short Film, Digital Poster Making, Painting / Handmade poster, Minimum 8 Tweet Thread, Meme Making. Three students from ECE department participated in Quiz competition.

Name	Course
Samvit Narayan	B.Tech II year ECE
Aditi Shukla	B.Tech II year ECE
Parul Chaudhary	B.Tech II year ECE

Symposium of International Conference on Emerging Electronics

IIT Delhi organized the 5th International Conference ICEE-2020 during 26-28 November, 2020 in online mode. The conference focused on advancement in the emerging electronics covering all aspects from materials to device to integration in systems. Student Kavish Agarwal of B.Tech III Year ECE participated in this conference and presented a paper in poster session in Device Modelling & Simulation.



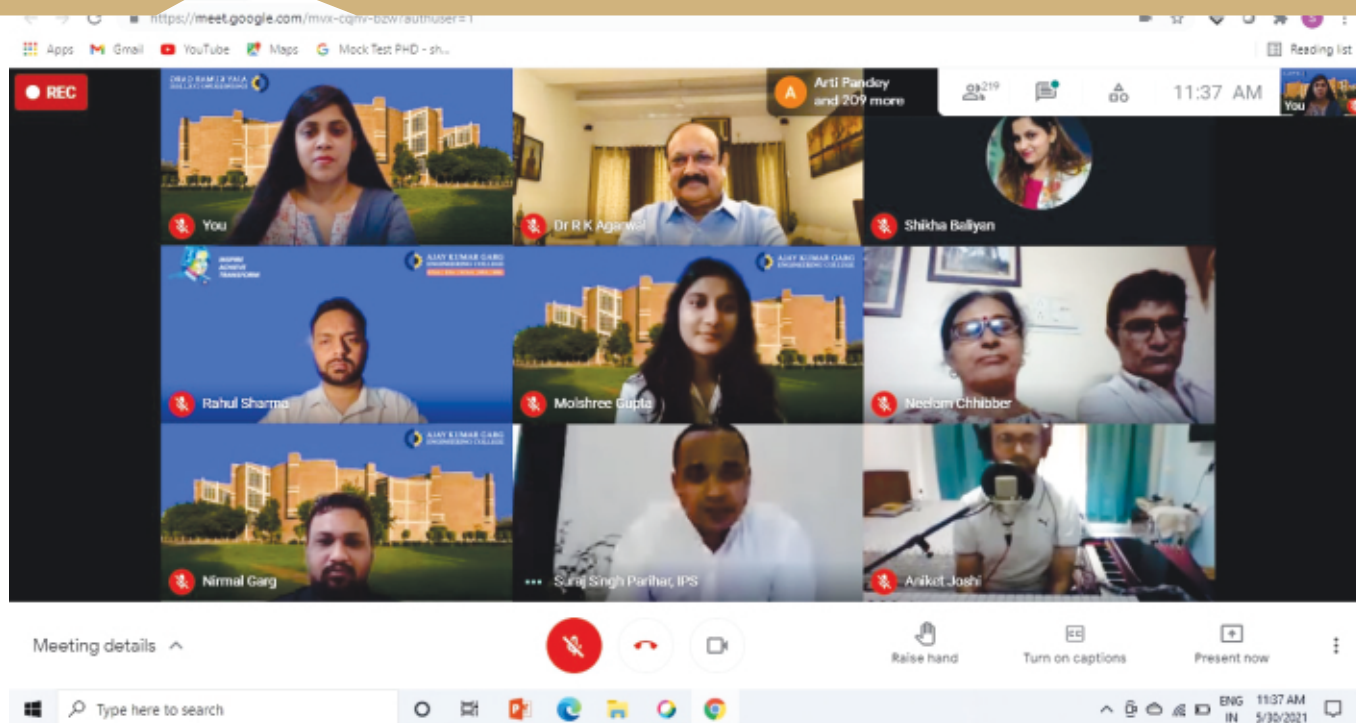
FLOWER SHOW

In accordance with its philosophy of an eco-friendly, green and clean campus, the college has nurtured well maintained lawns and gardens all over the campus. The Horticulture Department of the college participates in Flower Show competition organized by Landcraft Builders every year to showcase its work under various categories. Like previous years, the college won prizes under following different categories in the show organized during 5, 6 & 7 March 2021. In addition, college was awarded over all runners up trophy of Flower Show.

Category	Position
Basket of Succulents	1
Spot Landscaping at the premises	1
Basket of Perennial Flowers	1
3- Small Pots with Different Micro greens	1
Specimen Nolina	1
Specimen Adenium	1
Specimen Yucca	1
Different type of Kalanchse	2
Euphorbia Specimen Worth to Display	2
Different Type of Non- Grafted Cactus	3
Different Type of Sansevieria	3
Specimen Pachypodium	3



TOUR DE FORCE



WEBINARS

Beyond Covid - 19 Inspiration for Change

AKGEC Idea Lab organized an online webinar titled **Beyond Covid - 19 Inspiration for Change** on 30 May, 2021 to address the rising levels of stress and put to rest the apprehensions everyone has about upcoming times.

The guests of the webinar were Mr. Suraj Singh Parihar, IPS Officer, Superintendent of Police District Gaurela Pendra, Chhattisgarh, Motivational & TEDX Speaker and Mr. Aniket Joshi, Dynamic Vocalist, Multi-Instrumentalist and Motivational & TEDX Speaker, Founder of Musicopositiv, an initiative to spread positivity through music. The webinar was graced by the presence of Director General AKGEC, Deans, Heads of Departments, Section Incharges, faculty, staff and students of AKGEC.

In his welcome address Dr. R K Agarwal, Director General, AKGEC stressed on the disruptions caused by the pandemic and discussed the lifestyle changes that have happened due to the pandemic, the habits which were earlier just good habits have now become indeed essential ones. He also emphasized the learnings from the pandemic and concluded with the confidence that we shall win over the pandemic and welcome a new, better and a more learned world.

Mr Suraj Singh Parihar humbled everyone with his efforts towards the betterment of society. He made us all realise that only the frontline workers are not heroes, it's our time to become one by doing the simplest of things, staying at home and washing hands, wearing a mask etc. He himself has been active during the pandemic in providing beds, ventilators, oxygen, medicines, injections etc to people in need and urged the audience to give back to the society in whatever little way possible. He shared that he has started a Police ki Pathshala which is helping students of Chhattisgarh, where he is currently posted, to study and prepare for various competitive exams.

Mr. Aniket Joshi mesmerized everyone with his melodious prayers and songs. It was a powerful moment when all the attendees hummed along with him songs of strength and determination. He taught us that music indeed has healing properties. He left us with the spirit that though we can't join hands literally, but if we join together metaphorically, we definitely can emerge victorious out of this situation.

The webinar was conducted through the Google meet platform and more than 1000 participants attended.

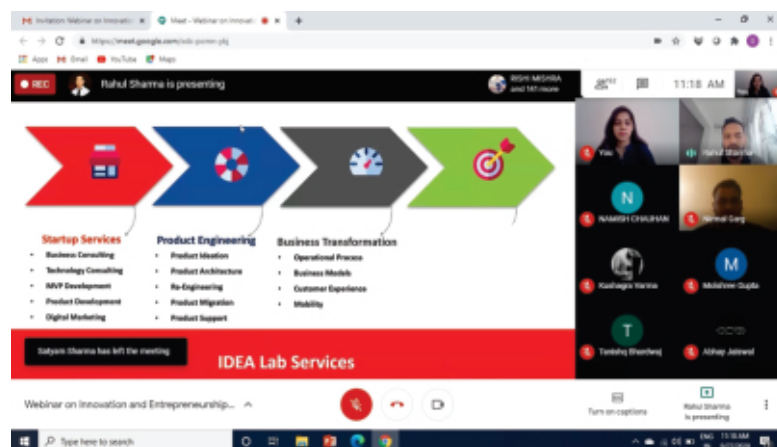
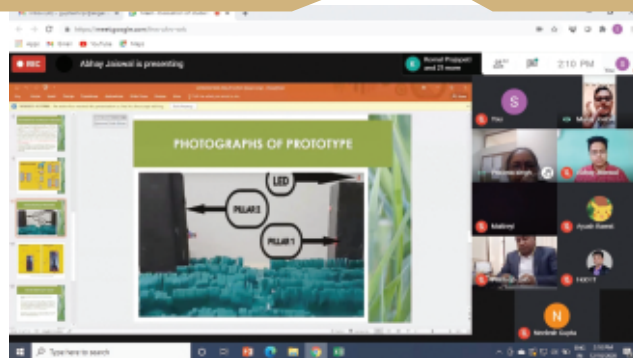
TOUR DE FORCE

Innovation and Entrepreneurship, Zero to One: Bridging the Gap Between Hardware & Software

AKGEC Idea lab together with Laalten Tech, a startup by AKGEC alumni, successfully organized a webinar on **Innovation and Entrepreneurship, Zero to One: Bridging the Gap Between Hardware & Software** on 27 September, 2020.

The webinar was an interactive and enriching session with an overwhelming response of 160+ students from AKGEC. The speakers, Kushagra Varma and Md. Abou Zuhayr, founders of Laalten Tech, were highly glorified and well appreciated by the audience. They covered a wide range of topics ranging from innovation and entrepreneurship, designing of different IoT and Industrial IoT devices using the technologies including LabVIEW, Android App Development for hardware devices, Servers and server-side code and Sensors and embedded systems.

The webinar proved useful for the students in selecting entrepreneurship as a career option and having an interest in designing innovative products.



Mathematics, Physics and Chemistry Webinars

Department of Applied Sciences & Humanities organized a series of web talks in the fields of Mathematics, Chemistry and Physics. Subject experts from eminent institutes shared their knowledge and experiences on this virtual platform.

Faculty members from AKGEC as well as from other Engineering colleges, research scholars and students attended these web talks. E-certificates were issued to all the participants.

Domain	Speaker	Affiliation	Date
Drug Discovery and Drug Design Challenges for SARS-Cov-19	Dr. Ranvir Singh	Punjab University, Chandigarh	20 August, 2020
Emerging Trends in Material Physics	Dr. Ashok Kumar Dr. Jai Prakash	NITTTT, Chandigarh AMU, Aligarh	5 September, 2020
Role of Mathematical Modelling in Emerging Technology	Dr. Ashok Gupta Mr. Pawan Pandey Mr. Shashi Kataria	IIT BHU Solution Ericsson California, USA	12 September, 2020



TOUR DE FORCE

Transforming Stress into Strength

Value Education Cell, AKGEC, organized an online webinar on **Transforming Stress into Strength** on 20 June, 2021. The speaker for the webinar was Brahma Kumari Sangeeta Didi. About 230 participants attended the webinar.

The webinar was focused on finding our innate potential where we can ensure a stress free life. The main finding of the session was that our own thoughts impact our Sanskaar as well as Sanskaar of others. Didi also stressed upon a Spiritual Bank Balance where we are lacking today. All the participants enjoyed the session and desired to attend more such sessions.



Erudition'20

A series of webinars under the title **Erudition'20** were conducted by the Human Values Cell of AKGEC. Eminent speakers were invited for the webinars as well as speakers from AKGEC delivered the talks.

Around 100 participants attended the first webinar of the series on 05 July, 2020 to learn some expert advice on **Impact of Covid-19 on Global Environment** from environmentalist speaker, Sh. Vijay Pal Baghel, the Green Man of India.

The second webinar of the Erudition' 20 series, **Holistic Health and Lifestyle**, was organized on 26 July, 2020. Around 130 participants benefited by the talk of physician speaker, Dr Sharmila Asthana.

The **third webinar** of the Erudition'20 series, **Studies on the Inherent Interconnectedness and Co-existence in Nature through Ecological, Scientific and Spiritual Evidences** was organized on 11 October, 2020 and delivered by Dr. Gopal Babu, Assistant Professor, AKGEC, was attended by over 90 participants.

Erudition'20
 Enlighten with Knowledge !!!
THE GREEN MAN OF INDIA
 ■ International Climate leader (Awarded by Vice Presidents of USA)
 ■ Van Vibhuti (Awarded by Governor of UP)
 ■ Himalaya Vibhushan
 ■ Member of International Earth Day Society
 ■ Member of IPBS, Germany
 ■ Green India Award Winner
 ■ Member of SDG goals, United Nations
 ■ Awarded Dr. APJ Abdul Kalam Award by UP Government
 ■ Global Green Leader (By International Environmental Organization)
 ■ DATE: 5 JULY 2020
 ■ TIME: 10:00 AM - 12:00 PM

<https://forms.gle/sWbdTmioxW5s57ye6>

Erudition'20
 Enlighten with Knowledge !!!
DR. SHARMILA ASTHANA
 ■ MBBS (Mahatma Gandhi Medical College, India)
 ■ MD, Pediatrics (Regional Children's Hospital, Southern NJ, USA)
 ■ Practicing Comprehensive pediatric medicine along with yoga and meditation.
 ■ Worked as assistant professor of pediatrics at St. Christopher's Hospital for Children in Philadelphia, USA.
 ■ She is a consulting pediatrician at Apollo Hospital, New Delhi.
 ■ After 17 years of serving at Apollo Hospital she worked for Lucid Diagnostics.
 ■ A large part of her practice comprised of counselling and educating parents and children about self discipline in life. Now she is devoting her full time to Universal Human Values and Holistic Human Health.
 ■ DATE: 26 JULY 2020
 ■ TIME: 11:00 AM - 1:00 PM

 Register here
<https://forms.gle/sWbdTmioxW5s57ye6>

Erudition'20
 Enlighten with Knowledge !!!
 An enlightening session on
 "Studies on the Inherent Interconnectedness and Co-existence in Nature through Ecological, Scientific and Spiritual Evidences" by:
DR. GOPAL BABU
 ■ Ph.D. from IIT Delhi (National Resource Center for Value Education in Engineering) on "Studies on the Inherent Interconnectedness and Co-existence in Nature for Evolving and Evaluating Sustainable (Hybrid) Socio-Technological Systems."
 ■ Honored by Governor of UP, Shri Ram Naik for efforts made in the field of Value Education.
 ■ Conducted more than 100 eight-days and three-days workshops on Universal Human Values for various universities like UPPTU (Uttar Pradesh Technical University), AKTU (Abdul Kalam Technical University), BTU Bikaner Technical University, NPTU (Nirvachan Prasthuth Technical University), BTU Rajasthan Technical University, PTU (Punjab Technical University), public sectors, schools.
 ■ DATE: 11 OCTOBER 2020
 ■ TIME: 11:00 AM - 1:00 PM

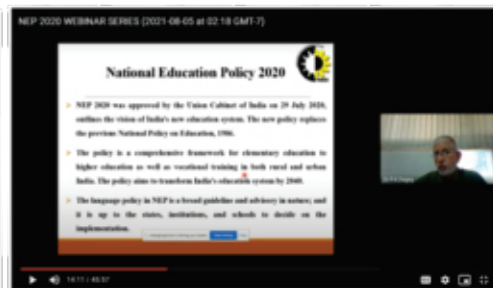
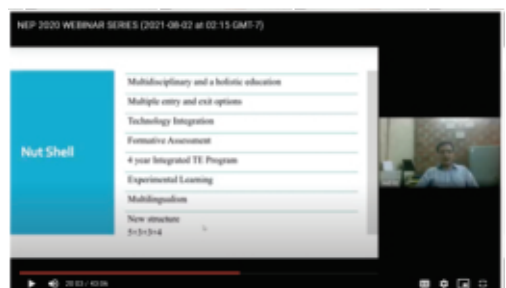
 Register here
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TOUR DE FORCE

Theme Based Webinar Series On Completion of One Year of New Education Policy (NEP)-2020

In accordance with the guidelines of AICTE, the College conducted a series of theme based webinars on completion of transformative reforms under New Education Policy(NEP)-2020. The webinars were conducted by the senior faculty of the college and attended by students and faculty.

Date	Theme	Speaker
30.07.21	Equity & Inclusion	Prof. T. R. Pandey Director AKGIM
02.08.21	Multidisciplinary & Holistic Education	Prof. Bhupal Singh, HoD EN
03.08.21	Skill, Entrepreneurship Development & Employability: Challenge and Opportunities	Prof. Ashiv Shah Head AKG SKILLS
04.08.21	Effect of NEP on Youth Empowerment And Sports Development	Prof Rakesh Shrivastava HOD CE
05.08.21	Indian Knowledge System, Languages, Arts and Culture	Prof. S. L. Kapoor Dean First Year & Proctor
06.08.21	Quality Education, Accreditation And Teacher Development	Prof. P. K. Chopra, HoD ECE & Dean Special Projects
09.08.21	Research Innovation And Ranking	Prof. Pramod Bhatia Dean R&D
10.08.21	Use Of Technology In Education	Prof. Anu Chaudhary HoD IT



Training Session - Basics of Blockchain and Introduction to Enabling Technologies

The Blockchain Lab conducted training session on **Basics of Blockchain and Introduction to Enabling Technologies** for the second year students. The sessions were conducted by the senior students, AKGEC Blockchain alumni and industry experts on the topics GitHub, Angular, Flutter and UI/UX designing. A Full Stack Training of 20 hours was conducted by DLT, Noida in April 2021 for third and fourth year students. 24 students participated in the online training.

FACULTY DEVELOPMENT PROGRAMS

Block Chain and its Application

Five day online FDP was organized by Department of Computer Science and Engineering during 10-14 August, 2020 on **Blockchain and its Application**.

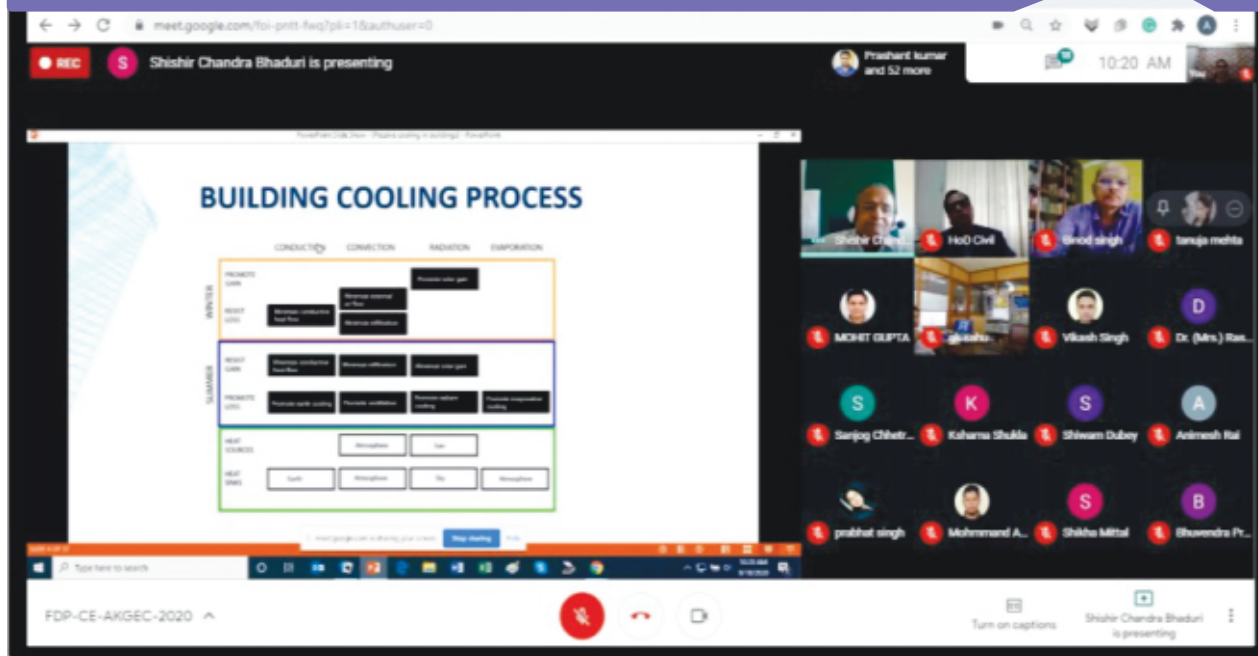
The FDP was conducted as an initiative to enrich the knowledge of faculty members through interaction with eminent personalities and resource persons from various academic institutions. Total 179 participants from across the country including NCR, Tamil Nadu, Rajasthan, West Bengal etc. and Foreign Participants from Bangladesh and Nigeria attended the FDP and got benefited.

Topic	Speaker Name	Affiliation
Current Research Trends in Blockchain Technology and its Applications	Dr. Bhavana Rudra	National Institute of Technology (NIT), Karnataka
Architecture and the Scope of Blockchain	Dr. Yaduvir Singh	NIET, Greater Noida
Concept of Blockchain for IOT and the Emerging Opportunities in Blockchain	Dr. P. Raghu Vamsi	Jaypee Institute of Information Technology (JIIT), NOIDA

Advancement in Building Technologies

Five day online FDP was organized by Department of Civil Engineering from 10–14 August, 2020 on **Advancement in Building Technologies**. Total 102 participants including Senior Principal Scientist CSIR-CRRI New Delhi; Senior Project Engineer AL-Fallah University; Project Manager, Acupace Technologies Pvt. Ltd.; General Manager NHPC Ltd.; Head Amity School of Engineering & Technology, Gwalior; Regional Head Manjari Foundation; faculty from various institutes and Universities and Ph.D. Scholars, from IIT Roorkee, IIT Delhi, IIT Kharagpur NIT Srinagar attended the FDP.

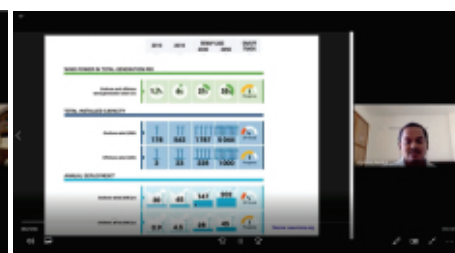
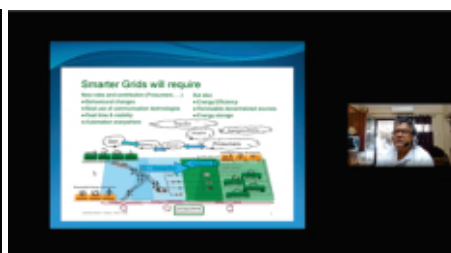
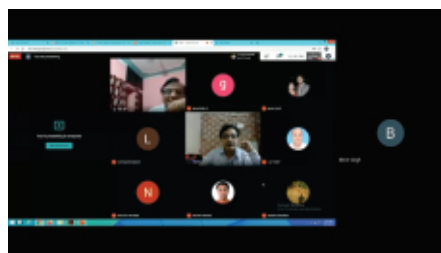
Topic	Speaker Name	Affiliation
Passive Cooling in Buildings	Dr. Shishir Chandra Bhaduri	Bhartiya Skill Development University
Repair and Rehabilitation of Buildings	Er. A. K. Sharma	CPWD
Composite Structures in Buildings	Dr. Sandeep Choudhary	IIT Indore
Cement, Concrete-Quality & Durability	Dr. S. C. Maiti	Technical Consultant
Fire Safety of Buildings	Dr. Ravindra Tewatia	CRL Global University
Skirted Foundations	Dr. Umesh Pendharkar	GEC, Ujjain
Control of Structural Response under Seismic Excitation	Dr. Munish Kumar Bhardwaj	IGNOU
Health Monitoring of Structures through Instrumentation	Er. G. K. Sahu	ICI Ghaziabad
Precast Technology	Er. Suresh Chandra Tripathi	KKSpun Group



Power Quality Issues in Smart Grid

Department of Electrical and Electronics Engineering conducted online FDP titled **Power Quality Issues in Smart Grid** during 21-25 September, 2020.

Topic	Speaker Name	Affiliation
Power Converters	Dr. R.K. Singh	Professor, EED MNNIT Allahabad
Plug in Hybrid Electrical Vehicle in Smart Grid	Dr. Amit Kr. Jain	Associate Professor, EED IIT Delhi
Integration of Renewable Energy Resources to Smart Grid	Dr. Arun Kumar Verma	Assistant Professor, EED NIT Jaipur
Solid State Transformer for Smart Grid	Dr. R.K. Singh	Professor, EED MNNIT Allahabad
Smart Metering	Dr. Sreejith. S	Assistant Professor, EED NIT Silchar
Integration of Distributed Generation in Smart Grid	Dr D.K. Khatod	Associate Professor, EED IIT Roorkee
Power Quality Issues and its Mitigation in Smart Grid	Dr. Bhim Singh	Professor, EED IIT Delhi
Control Issues in Smart Grid	Dr. D.P. Kothari	Former Director IIT Delhi



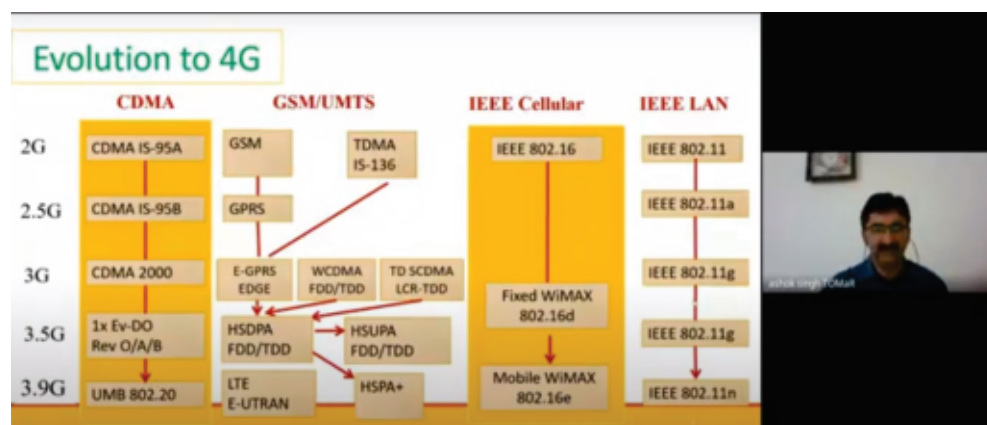
Next Generation Techniques in Wireless Communication

Department of Electronics and Communication Engineering conducted FDP titled **Next Generation Techniques in Wireless Communication (NextG)** during 2-6 November, 2020 in online mode. 170 participants from various engineering colleges attended the FDP.

The main objective of this FDP was to provide a platform for researchers, industry experts and faculty of various engineering colleges to share their ideas/research work over the latest developments in communications, networks and services with applications.

The resource persons for the program were accomplished experts from organizations like ITU, ISRO, BEL, TRAI, BSNL, NITs, and Delhi University.

Topic	Speaker Name	Affiliation
5G and Beyond Challenges and Innovation Opportunities for Academia and Industry	Dr. R. K. Mehrotra	Adjunct Prof., ECE, Sharda University, Greater Noida and AKGEC, Ghaziabad
Outcome Based Education and Human Values System	Dr. Preetam S. Grover	Retd. Professor, CSE Delhi University
Effect of Wireless Radiation on Human Beings	Dr. Sanjeev Yadav	HoD & Assistant Professor, Women Engineering College Ajmer
Case studies: RF Circuit Designs	Mr. Amit Tiwari	Project Manager, BEL, New Delhi
Next Generation Wireless Technology Architecture and Spectrum Requirements	Mr. Ashok Singh Tomar	Senior Research Officer TRAI, New Delhi



Outcome-Based Education (OBE)

THE HOLISTIC APPROACH TO TRANSFORM A STUDENT INTO SUCCESSFUL AND HAPPY PERSON BASED ON **DESIRED GOALS AND OUTCOMES**

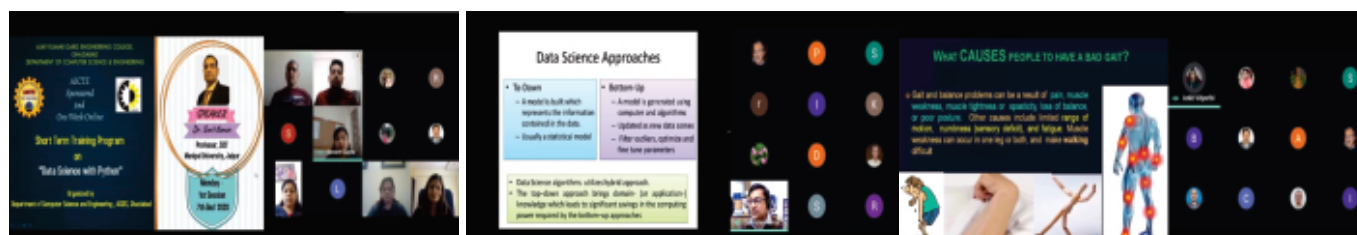
OBE Approach has been adopted in universities almost all over the world

Data Science with Python

Online Short Term Training Program (STTP) on Data Science with Python, sponsored by AICTE, was organized by Department of Computer Science & Engineering in three phases during 2-7 November, 2020, 7-12 December 2020 and 14-19 December 2020.

Total 147 participants (including all three STTP sessions) from across India attended the STTP and got benefited. The STTP was conducted as an initiative to enrich the knowledge of faculty members through interaction with eminent personalities and resource persons from various academic institutions. The speakers enriched the knowledge of participants on Current Research Trends in Data Science and its applications. They focused on the importance of this technology in multiple industries including Financial Services, Healthcare, Government and Travel. Sessions also included Machine Learning Algorithms with Data Science. Hands on session on data analytics with python was also conducted. The implementation of advanced Machine Learning models and the various implementations of Data Science in the field of research were also discussed.

Name of Resource Person	Affiliation
Phase - I	
Dr. Archana Singh	Professor, Amity University, Noida
Dr. Arjun Singh	Associate Professor, Department of Computer and Communication Engineering, Manipal University Jaipur
Mr. Rajinder Kumar	Project Director, Froyo Technologies, Noida
Mr. Shobhit Tyagi	Senior Data Analytics Impetus, Noida
Phase – II	
Dr. Sunil Kumar	Professor, SCIT, Manipal University, Jaipur.
Dr. Ankit Vidyarthi	Associate Professor, Jaypee Institute of Information Technology University Noida
Dr. K. K. Chaturvedi	Principal Scientist, ICAR-Indian Agricultural Statistics Research Institute, New Delhi.
Mr. Ashman Malhotra	Corporate Trainer and Consultant
Mr. Santosh Kumar	Data Scientist, Erricson
Phase – III	
Dr. Niti Dwivedi	Freelance Corporate Trainer and Consultant
Mr. Rakesh Kumar Sharma	Data Scientist Big Data Engineer, NIIT Technologies
Mr. Tarun Tyagi	Data Scientist, CogniTensor, Noida



Emerging Trends of Information Technologies and It's Applications

Department of Information Technology conducted FDP on **Emerging Trends of Information Technologies and It's Applications** during 16-20 December, 2020. The online FDP was attended by participants from various institutes across the country. The participants were greatly benefitted from the knowledge and experience of the eminent speakers during the FDP

Speaker	Affiliation
Dr. D. K. Lobiyal	Professor and Dean, SCSS, JNU, New Dehli
Dr. D. P. Vidyarthi	Professor, SCSS, JNU, New Dehli
Mr. Anvesh Chaudhary	Senior Agile Product Manager, Eagleview Technologies Bangalore,
Dr. B. K Gupta	Director, Braanet Tech. Pvt. Ltd., Ghaziabad
Dr. Rajib Kr. Jha	Associate Professor, IIT Patna
Dr. B.D.K Patro	Officiating Director, REC, Kannauj
Dr. P.K. Tiwari	Associate Professor, IIT Patna
Dr. Ravibabu Mulaveesala	Associate Professor, IIT Ropar
Dr. Surya Prakash	Associate Professor, IIT Indore

IDEA Lab

AICTE has launched scheme for the establishment of IDEA (Idea development, Evaluation & Application) Lab in AICTE approved institutions, encouraging students for application of Science, Technology, Engineering & Mathematics (STEM) fundamentals towards enhanced hands-on learning and learning by doing experience. AKGEC FAB Lab is one of the mentor labs for this IDEA lab scheme.

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

Co-ordinators of IDEA Lab from thirteen States across the country including West Bengal, Andhra Pradesh, Orissa, Haryana, Uttar Pradesh, Maharashtra, Tamil Nadu and Madhya Pradesh attended the experiential FDP characterized by thought provoking discussions and cross fertilization of ideas.

The Inaugural Ceremony of the FDP was held on 23 August, 2021. The Chief Guest for the ceremony was Sh. Rakesh Ranjan, IAS, Hon'ble Additional Secretary, Department of Higher Education,



Ministry of Education Govt. of India. Dignitaries including Dr. Neeraj Saxena, Advisor, AICTE and Members of National Steering Committee of IDEA Lab also graced the occasion with their presence. The speakers during the Inaugural Ceremony stressed in unison on the urgent need for a transformation in the education paradigm from an examination system to a hands on experience which is the concept behind the establishment of IDEA Labs across the country.

ACADEMIA FIRMAMENT



WORKSHOPS ON HUMAN VALUES AND PROFESSIONAL ETHICS

Human Values Cell, AKGEC, under the aegis of Human Values Cell, AKTU conducted 10 day online workshop on **Understanding Relationships** for the families of faculty and staff of AKGEC during 5-14 July, 2020. The sessions conducted by Dr. Gopal Babu, Assistant Professor, Department of Information Technology and an expert in the area of Universal Human Values and Professional Ethics, were very relaxing and useful for the participants during the stressful pandemic times. The workshop was attended by 100 participants.

Two similar online workshops were conducted for the students and their families during 1-5 August, 2020 and 12-16 August, 2020 and were attended by 40 participants. The speakers for the workshops were Dr. Gopal Babu, Dr. Parul Verma and Mr. B.N. Pandey, all AKGEC faculty and experts in the area of Universal Human Values and Professional Ethics.

Level-1 AICTE approved FDP on Universal Human Values and Professional Ethics was organized for AKGEC faculty during 5-8 February, 2021. 20 faculty members got benefitted from the talks and insights offered by Dr. Gopal Babu.

Online workshop on **Understanding Relationships** conducted for the AKGEC alumni during 20-24 February, 2021 was attended by 25 alumni from 2008 to 2020 batches. The workshop was conducted by Dr. Gopal Babu. It is a matter of great satisfaction that the workshop proved beneficial for the participants as is evident from the following few feedbacks among many.

“ Conduct of the workshop was very good. As Dr. Gopal Babu said that the objective of the workshop was to initiate a process of dialogue within and I think the same had been achieved.

**Shubham Birthare, B.Tech IT,
2014 Batch** ”

“ It was really very good, I really appreciate the intention and thought of the college for organizing the workshop and also the topic which was chosen. It is really a need of an hour. Thank you so much from within.

**Vipul Tiwari, B.Tech EN,
2008 Batch** ”

“ The topic was an excellent one with good insight on the subtopics and very practical illustrations on the subject.

**Vivek Kumar, B.Tech EC,
2008 Batch** ”

“ The workshop was timely & useful. It taught me various life lessons within and ethics to follow.

**Ashutosh Chaubey, B.Yech EC,
2017 Batch** ”

“ The workshop's subject was very relatable considering today's times. Almost we all are employed having a good job/business. The one thing which is missing or not in place is our relationships. The sessions were very practical and interactive and helped me to analyze myself and my relationships. I would highly recommend this workshop for my fellow alumni and make maximum out of it as everything else is materialistic in life, ultimately it is our relations which make us human and distinguish us from other living beings.

**Pranay Patel, B.Tech EC,
2011 Batch** ”

“ Work Life balance is a real world problem we all deal with. The program insists us to focus on ourselves as well as our surroundings such that we are able to look at a bigger picture and lead a happier life

**Ananya Agarwal, B.Tech IT,
2018 Batch** ”

RESEARCH PAPER PUBLICATIONS

Dibya Bharti, Multi-point Optimal Placement of Shunt Capacitor in Radial Distribution Network: A Comparison, published in IEEE Int. conf. on Emerging Frontiers in electrical and electronic Technologies, 10-11th July 2020. DOI: 10.1109/ICEFEET49149.2020.9186968, ISBN:978-1-7281-7549-2 (Scopus indexed)

Anupama Sharma, Vinay Rishiwal, Abhay Bansal, SBADR: Stable and Bandwidth Aware Dynamic Routing Protocol for Mobile Adhoc Network, International Journal of Pervasive Computing and Communications, Vol. 16 No. 3, pp. 205-221, SCOPUS, ESCI Indexed Journal. <https://doi.org/10.1108/IJPCC-05-2019-0043>, 15 July 2020

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BOOKS PUBLISHED

Book entitled **Composite Fabrication on Age - Hardened Alloys Using Friction Stir Processing** written by **Dr. Namrata Gupta**, Associate Professor, Department of Mechanical Engineering, has been published by CRC Press, Taylors & Francis Group. Dr. Namrata Gangil is the first author of the book and the co-authors are from Jamia Millia Islamia University, Delhi and Netaji Subhas University of Technology, Delhi.

BOOK CHAPTERS

Ghosh S., Vidhata K. N., Kumar S., Midya K., "Seasonal Contrast of Land Surface Temperature in Faridabad: An Urbanized District of Haryana, India." Methods and Applications of Geospatial Technology in Sustainable Urbanism. IGI Global, 2021. 217-250, ISBN: 9781799822516, DOI: 10.4018/978-1-7998-2249-3.

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FDPs, TRAINING PROGRAMS, SEMINARS, WORKSHOPS AND WEBINARS ATTENDED BY FACULTY (ONLINE MODE)

A number of FDPs, training programs, webinars, seminars and workshops were attended by AKGEC faculty during the year in online mode.

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
How to Teach Online Effectively	AKTU, Lucknow	01 July 2020	Mr. Naveen Kumar Saini	Electronics and Communication Engineering
Recent Trends in Computer Science & IT	RKGIT, Ghaziabad	13 – 17 July 2020	Mr. Jay Kant Pratap Singh Mr. Rohit Vashisht Dr. Sonam Gupta	Computer Science & Engineering
Machine learning & Deep Learning- Research & Applications Perspective	Poornima College of Engineering, Jaipur	20 – 25 July 2020	Ms. Surbhi Sharma	Computer Science & Engineering
Research Paper Writing using Latex	Green ThinkerZ in association with Spoken Tutorial Project, IIT Bombay	20 – 24 July 2020	Ms. Priyanka	Computer Science & Engineering
Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	23 – 27 July 2020	Mr. Ankit Dixit	Electrical & Electronics Engineering
Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	23 – 27 July 2020	Mr. Pradeep Gupta	Computer Science & Engineering
Advanced VLSI Design and Applications with hands on CADENCE Tool	ABES Engineering College	27 July –01 August 2020	Mr. Anup Kumar	Electronics and Communication Engineering
Introduction to IoT and Arduino	SMVCE, Madagapiet, Puducherry	10 – 12 August 2020	Ms. Suvarna Mujumdar Ms. Pragya Srivastava	Electronics and Communication Engineering
Blockchain and its Applications	AKGEC	10 – 14 August 2020	Ms. Surbhi Sharma Mr. Rohit Vashisht Ms. Prachi Pundhir Ms. Priyanka Mr. Pradeep Gupta Ms. Jaishree Jain Mr. Vikas Kamra Mr. Jay Kant Pratap Singh Dr. Charu Agarwal	Computer Science & Engineering
AICTE Sponsored STTP on IOT	NITTE Meenakshi Institute of Engineering & Technology, Bangalore	12 – 16 August 2020	Mr. Mahesh Sharma	TIFAC
Latest Standard Design Aspects of Electrical Generators for Thermo, Hydro and Wind Power Plants	SMV Engineering College, Puducherry	13 August 2020	Ms. Pragya Srivastava	Electronics and Communication Engineering
Human Values in Jain Darshan	VE Cell AKTU	17 – 24 August 2020	Mr B N Pandey	Computer Science & Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Machine Learning & Deep Learning-Research & Applications Perspective (Part-2)	Poornima College of Engineering, Jaipur	17 – 22 August 2020	Ms. Surbhi Sharma	Computer Science & Engineering
An Introduction to IOT and its Application of Smart Transparent and Immutable Ecosystem	NIET Greater Noida	17 – 22 August 2020	Mr. Jay Kant Pratap Singh	Computer Science & Engineering
Virtual (online) Training Programme on Entrepreneurship	Entrepreneurship Development Institute of India (EDII), Ahmedabad	24-28, August 2020	Mr. Nirmal Garg	Mechanical Engineering
Advanced VLSI Design and Applications with hands on CADENCE tool	ABES Engineering College	24 – 29 August 2020	Ms. Pragya Srivastava	Electronics and Communication Engineering
Nalanda E-Consortium	MyLoft	25 – 27 August 2020	Dr. Rahul Bansal	Electronics and Communication Engineering
Human Values in Sankhya, Yoga and Vedanta Darshan	Value Education Cell, AKTU, Lucknow	25 – 31 August 2020	Ms. Suvarna Mujumdar	Electronics and Communication Engineering
Human Values in Sankhya, Yoga and Vedanta Darshan	Value Education Cell, AKTU, Lucknow	25 August – 02 Sep 2020	Mr. Akhilesh Verma	Computer Science & Engineering
Solar Energy Conversion and Storage	Rajasthan Technical University, Kota & Poornima Institute of Engineering & Technology, Jaipur	31-August –04 Sep 2020	Mr. Mahesh Sharma	TIFAC
IC Design concept to sign off for RTU (ATU) using Cadence Design Tool	RTU, Kota, Rajasthan	02 – 04 September 2020	Dr. Anup Kumar	Electronics and Communication Engineering
Inculcating Universal Human Values Technical Education	All India Council for Technical Education (AICTE)	05 – 09 September 2020	Dr. Sarika Kalra	Electrical & Electronics Engineering
Power Electronics Applications to Industrial Systems	NIT, Silchar	07 – 11 September 2020	Dr. Sukhwinder Singh Dhillon	Electrical & Electronics Engineering
Webinar on Industrial Robotics and Automation	DIFACTO Robotics and Automation	10 September 2020	Mr. Vikash Kumar Mr. Gaurav Srivastava Mr. Ankit Dixit	TIFAC
Recent advances in Power electronics drive And Renewable Energy	RTU, Kota, Rajasthan	15 – 19 September 2020	Mr. Harsh Mohan Sharma	Electrical & Electronics Engineering
Advanced VLSI Design and Applications with hands on CADENCE tool	ABES Engineering College	21 – 26 September 2020	Mr. Anup Kumar Mr. Om Krishna Gupta Ms. Pragya Srivastava	Electronics and Communication Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Artificial Intelligence & Machine Learning Applications in Biomedical engineering	University BDT College of Engineering, Davangere, Karnataka	21 – 25 September 2020	Mr. Alok Kumar	Electronics and Communication Engineering
3-D Printing Technology and its Applications in Engineering Education	Rajasthan Technical University, Kota	25 – 26 September 2020	Mr. Ankit Dixit	Electrical & Electronics Engineering
Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	28 Sep – 02 Oct 2020	Ms. Swimpy Pahuja	Computer Science & Engineering
Webinar on Characterization Techniques of Material	Department of Physics, JKC College	30 September 2021	Mr. Abhishek Gupta	TIFAC
Nascent Methodologies, Challenges and Realms of Research	Delhi Technological University, Delhi	03 – 07 October 2020	Dr. Rahul Bansal Mr. Dushyant Singh Chauhan	Electronics and Communication Engineering
Nascent Methodologies, Challenges and Realms of Research	Delhi Technological University, Delhi	03 – 07 October 2020	Mr. Akhilesh Verma	Computer Science & Engineering
An Introduction to Internet of Things (IoT) and Its Applications for Smart Transparent and Immutable Eco system	NIET, Greater Noida	05 – 10 October 2020	Dr. Charu Agarwal	Computer Science & Engineering
Artificial Intelligence & 5G Communication Technology	Poornima College of Engineering, Jaipur	05 October 2020	Dr. Meenakshi Awasthi	Electronics and Communication Engineering
How to Write research Paper in an International Journal: Trips, Traps and Trick	AKTU, Lucknow	08 October 2020	Dr. Rahul Bansal	Electronics and Communication Engineering
Virtual Lab: Electronics and Communication Engineering	Madan Mohan Malaviya University of Technology, Gorakhpur, U. P., India.	12 – 16 October 2020	Dr. Rahul Bansal	Electronics and Communication Engineering
Scientific Research: Matrices and Visibility	AKTU, Lucknow	14 October 2020	Mr. Anup Kumar Dr. Rahul Bansal	Electronics and Communication Engineering
Advanced VLSI Design and Applications with hands on CADENCE tool	ABES Engineering College	19 – 24 October 2020	Ms. Pragya Srivastava Mr. Anup Kumar	Electronics and Communication Engineering
Webinar on Siemens PLC Programming on Automation Studio	Famic India	19 October 2020	Mr. Mahesh Sharma	TIFAC
Emerging Research Trends in Computer Science and Engineering	GMR Institute of Technology, Rajam, Andhra Pradesh	19 – 23 October 2020	Dr. Sonam Gupta	Computer Science & Engineering
Webinar on Insight Into Nano Technology	Hyderabad Institute of Technology And Management	20 October 2020	Ms. Pragya Srivastava	Electronics and Communication Engineering
Webinar on Electro Hydraulic on Automation Studio	Famic India	20 October 2020	Mr. Rahul Dixit Mr. Mahesh Sharma Mr. Shantanu Singh	TIFAC
Inculcating Universal Human Values in Technical Education	All India Council for Technical Education (AICTE)	26 – 30 October 2020	Dr. Rahul Bansal	Electronics and Communication Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Data Security and Privacy	Sardar Vallabhbhai National Institute of Technology, Surat	26 – 30 October 2020	Mr. Jay Kant Pratap Singh	Computer Science & Engineering
Rapid Prototyping and Digital Manufacturing	Department of Mechanical Engineering of NSS College of Engineering, Palakkad	02-07 November 2020	Mr. Pradeep Jain	Mechanical Engineering
Methodology to Write Research Publications for High Quality Peer Reviewed Journal	ITS Engineering College, Greater Noida	19 November 2020	Dr. Rahul Bansal	Electronics and Communication Engineering
Finite Element Methods	AKGEC – ME Department	23 – 27 November 2020	Mr. Vikram Singh Rajput	TIFAC
Finite Element Methods	AKGEC – ME Department	23 – 27 November 2020	Dr. Namrata Gupta	Mechanical Engineering
Battery Management and Control Techniques in Electric Vehicles	Hirasugar Institute of Technology, Nidasoshi	23 – 28 November 2020	Dr. Sukhwinder Singh Dhillon	Electrical & Electronics Engineering
Internet of Things (IoT)	AICTE Training And Learning (ATAL) Academy	14 – 18 December 2020	Ms. Nilufar Yasmin	Electronics and Communication Engineering
Fundamentals And Applications of Additive Manufacturing An Experimental Approach	Rajkiya Engineering College Mainpuri (U.P.)	21 – 25 December 2020	Ms. Afsha Rana	TIFAC
Fundamentals and Applications of Additive Manufacturing (An Experimental Approach)	Department of Mechanical Engineering, REC, Mainpuri, Uttar Pradesh	21 – 25 December 2020	Dr. Devendra Singh Dr. Alok Vardhan Dr. Suman Gothwal Mr. Pradeep Jain Dr. Namrata Gupta Mr. Hari Shanker Chaurasiya	Mechanical Engineering
Data Analysis Using MS Excel	BBDNIIT	25 – 27 December 2020	Ms. Swimpy Pahuja	Computer Science & Engineering
Finite Element Methods (FEM) for Engineers	TEQIP-III (RTU-ATU) Department of Mechanical Engineering University Departments Rajasthan Technical University, Kota	26-30 December 2020	Dr. Devendra Singh	Mechanical Engineering
Student Induction (FDP-SI)	All India Council for Technical Education (AICTE)	26 Dec 20 - 02 Jan 2021	Mr. Hari Shanker Chaurasiya	Mechanical Engineering
Energy Engineering	G.L. Bajaj Institute of Technology and Management, Greater Noida	4 - 8 January 2021	Dr. Alok Vardhan	Mechanical Engineering
Webinar on Welding of Aluminum-Practical Aspects	IIW Mumbai	17 January 2021	Mr. Abhishek Gupta	TIFAC
Webinar on 360 Degree Feedback	AICTE Training And Learning Technical Education (AICTE)	18 January 2021	Dr. Abhishek Joshi	Electronics and Communication Engineering

Name of Seminar / Webinar / FDP	Organized By	Date(s)	Attended By	Department
Challenges and Opportunities in Implementing IoT and Machine Learning for Smart Grid Distribution System (Phase-III)	All India Council for Technical Education (AICTE)	18 – 22 January 2021	Ms. Nilufar Yasmin Dr. Meenakshi Awasthi Dr. Amit Garg Ms. Anu Goel Dr. Seema Garg Mr. Naresh Kumar Mr. Himanshu Nagpal	Electronics and Communication Engineering
Online Orientation Training Program for Mentor (NITTR training)	All India Council for Technical Education (AICTE)	01 – 05 February 2021	Dr. Anil Kumar Rai	Electrical & Electronics Engineering
Webinar on Robotics & Automation	IIT Dhanbad	06 February 2021	Mr. Rahul Dixit	TIFAC
Internet of Things (IoT)	I.T.S. Engineering College, Greater Noida	8 –12 February 2021	Mr. Pradeep Jain	Mechanical Engineering
Student Induction (FDP-SI)	All India Council for Technical Education (AICTE)	08 – 15 February 2021	Ms. Swimpy Pahuja Mr. Binayak Parashar Mr. Pradeep Gupta Dr. Alok Vardhan	Computer Science & Engineering
Online Orientation Training Program for Mentor (NITTR Training)	All India Council for Technical Education (AICTE)	09 – 13 February 2021	Dr. Sukhwinder Singh Dhillon	Electrical & Electronics Engineering
Strategic Methods And Tools For Product Development (PHASE-I)	Department of Mechanical Engineering Sagi Rama Krishnam Raju Engineering College (A)	22-26 February 2021	Dr. Devendra Singh	Mechanical Engineering
Strategic Methods And Tools For Product Development (PHASE-II)	Department of Mechanical Engineering Sagi Rama Krishnam Raju Engineering College (A)	22-26 March 2021	Dr. Devendra Singh	Mechanical Engineering
Webinar on Common Defects in Stainless Steel Welding	IIW Mumbai	27 March 2021	Mr. Abhishek Gupta	TIFAC
Webinar on Entrepreneurship and Innovation as Career Choice	IDEA LAB, AKGEC, Ghaziabad and EDII, Ahmedabad	09 April 2021	Dr. Devendra Singh	Mechanical Engineering

GUEST LECTURES

Topic	Speaker Name & Technical Resource	Date	Department
IoT Moving Towards Data Oriented World	Mr. Nitin Garg AGM, ALTTC, Ghaziabad	28 October 2020	Electronics and Communication Engineering
How automation and Robotics is Changing the Industry	Ms. Arima Shukla Senior Software Engineer Lohia Corp. Ltd., Kanpur	30 October 2020	Electronics and Communication Engineering
Solar Energy Systems and Design Aspects	Mr. Aashutosh Sharma Director Voltrans Energy, Greater Noida	20 November 2020	Electrical & Electronics Engineering
Future of 2D Semiconductor Materials and Devices	Dr. Tejendra Dixit Assistant Professor IIITDM, Kancheepuram, Chennai	23 November 2020	Electronics and Communication Engineering
Energy Storage and Electronics Technologies.	Mr. Atul Jain Deputy General Manager Avaada Pvt. Limited, Noida	25 November.2020	Electronics and Communication Engineering
IoT and its Applications	Dr. B. K. Gupta Director Branett Pvt. Limited, Ghaziabad	18 December2020	Electronics and Communication Engineering
Characteristics Testing of AC Motor using LabVIEW	Mr. Ayub Khan Chief Technical Officer Absolute Test Technology Faridabad, Haryana	23 December 2020	Electrical & Electronics Engineering
Advancement in Low power VLSI Design and its Future Scope in Industry and Academia	Dr. Ankur Kumar Assistant Professor M.I.E.T., Meerut UP	29 December 2020	Electronics and Communication Engineering
Manufacturing at Micro and Nanoscale - Approaches and Experiments	Dr. Arjyajyoti Goswami Assistant Professor, NIT Durgapur	31 December 2020	Mechanical Engineering
ITER Projects and Cryogenic Aspects in Fusion Energy	Mr. Vinit Shukla Scientific Officer, ITER-India, IPR, Department of Atomic Energy, Govt. of India	08 January 2021	Mechanical Engineering
Latest Trends in Mobile Communication	Mr. Sanjay Giri, AGM (Mobile) ALTTC, Ghaziabad	14 January 2021	Electronics and Communication Engineering
Ways of Coming-up with Small Challenges of Life and Career Decisions	Mr. Abhilash Kumar Alumni and Motivational Speaker	15 January 2021	Electrical & Electronics Engineering
Enhanced Design Debug Using Genetic Algorithm	Dr. Harsh Kumar Bhargav Design Engineer at Micron Technology, Hyderabad	18 January 2021	Electronics and Communication Engineering

Topic	Speaker Name & Technical Resource	Date	Department
Software Development Life Cycle (An Agile Approach)	Mr. Anvesh Chaudhary Sr. Agile Product Manager Eagleview Technologies, Bangalore	03 February 2021	Information Technology
Soft Skills Road Map for Competitive Exams	Mr. Siddharth Singhal Deputy Manager State Bank of India Madhya Pradesh	10 February 2021	Information Technology
Progressive Development of Optical Fibre Communication	Dr. R. L. Sharma Retired DIG BSF Communication Branch	22 April 2021	Electronics and Communication Engineering
Construction of Head Race Tunnel for Parbati Hydroelectric Project (Stage-II)	Mr. Sanjeev Kumar Yadav General Manager (Civil) NHPC Ltd.	22 April 2021	Civil Engineering
Variable Frequency Drive	Ms. Esha Varshney Engineer - FAC Mitsubishi Electric India Private Limited	02 June 2021	Electrical & Electronics Engineering
Smart Grid and Smart Meter Applications	Dr. Sreejith S. Assistant Prof. EE Department NIT, Silchar	11 June 2021	Electrical & Electronics Engineering
Real Time Standing Loss Analysis of Storage Water Heater	Mr. Ayub Khan Chief Technical Officer Absolute Test Technology Faridabad, Haryana	02 July 2021	Electrical & Electronics Engineering



FACULTY

New Members to the AKGEC Family

Faculty Name	Designation	Department
Dr. Hemant Ahuja	Professor and HoD	Electrical and Electronics Engineering
Dr. Pramod Bhatia	Professor	Mechanical Engineering
Dr. Suman Bhatia	Associate Professor	Computer Science and Engineering

Faculty Promotions

Name of Faculty	Designation	Department
Dr. Shashank Sahu	Computer Science and Engineering	Professor
Dr. Anupama Sharma	Information Technology	Associate Professor
Dr. Aditya Pratap Singh	Information Technology	Associate Professor
Dr. Namrata Gupta	Mechanical Engineering	Associate Professor

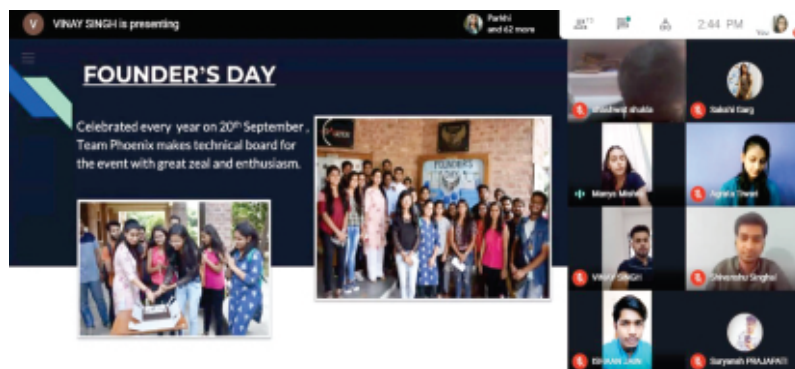
Higher Qualification Attained by Faculty

Name of Faculty	Department	Degree awarded	Topic	University
Dr. Anupama Sharma	Information Technology	PhD	QoS based Performance Enhancement in Ad-hoc Routing Protocols	Amity University, Noida
Dr. Abhijeet Upadhyay	Electronics & Communication Engineering	PhD	Investigation of Interference Limited Cooperative Free Space Optical Backhaul Networks	Jaypee Institute of Information Technology, Noida
Dr. Vani Bhargava	Electrical and Electronics Engineering	PhD	Grid Integration of Renewable Energy and its Economics	Amity University, Noida

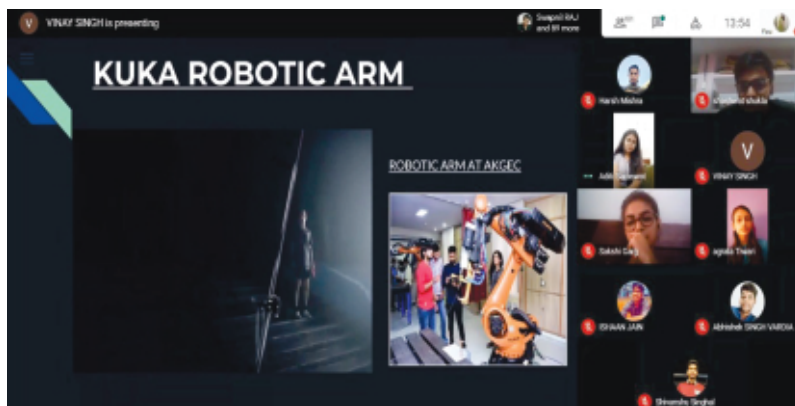
SOCIETIES AND TECHNICAL CLUBS

Phoenix, the Electronics and Communication Engineering Society, organized webinar on 8 May, 2021 to showcase the glimpse of the society culture. The event held virtually through Google Meet platform was participated by first year students from all branches.

An event, **Ideathon**, was organized by Team Phoenix on 9-10 June, 2021. The aim was to test the ability of first year students to bring their ideas to success. The participants were provided with problem statements for which they had to find a solution. Second year volunteers and third year coordinators conducted the event in three rounds.



The **Programming Club** of Department of Computer Science & Engineering conducted two days **Online Internal Hackathon** for the second year students of Computer Science (CS) and Computer Science & Engineering (CSE) during 21-22 August, 2020. A total of 37 teams (each team with three members) participated in the first round on 21 August, 2020. The round comprised of submitting solutions to problems on Hacker Rank. The second phase on 22 August, 2020 was participated by 8 teams short listed from the first round. The teams presented their logic and output and they were judged on three parameters: Problem Statement Explanation, Programming Logic Explanation and Viva-Voce.



SOCIETIES AND TECHNICAL CLUBS

Students of **Communication Club**, under the aegis of Department of Electronics and Communication Engineering participated in various activities conducted by different organizations and institutes. Six Students from club participated and cleared the e-Quiz on Electrical Engineering organized by Delhi Technological University in association with the EEE Department of Bhagwan Parshuram Institute of Technology Delhi on 01 July, 2020. The quiz was based on the topics from Electrical Machines, Power Electronics & Drives, Power Systems and Control Systems.



Team Name	Students Name	Position
Iterators	Himanshu Chaurasiya Garvit Bhardwaj Ishitwa Aggarwal	First
Androver	Abhishek Srivas Kapil Yadav Shashank Garg	Second
Oath	Prabhu Dutt Sharma Pulkit Goyal Shivang Sharma	Third

Participants of e-Quiz on Electrical Engineering	
Name	Course
Sarthak Chaurasiya	B. Tech III Year ECE
Sachin Sahu	B. Tech III Year ECE
Anjali Soam	B. Tech III Year ECE
Vibhuti Gupta	B. Tech III Year ECE
Saumya	B. Tech III Year ECE
Shashidhar	B. Tech III Year ECE

Sachin Sahu, student of B.Tech III year ECE and member of the Communication Club, participated in online Hackathon 'Crack the COVID19 Crisis' organized by NASSCOM, in association with IBM, as part of the Future skills initiative. The Hackathon kick-started on 25th April, 2020 where in NASSCOM invited STEM students across India to participate and build practical and effective solutions using technologies such as Cloud, Data &

Artificial Intelligence. The objective of this hackathon was to look for innovative solutions to solve India's biggest challenge in the present scenario, the national socio-economic crisis caused by COVID- 19 pandemic. Of the 26,478 registrations, from more than 500 Institutes across 26 States and Union Territories participated in the Hackathon.

Two groups, of four students each, participated in E-yantra innovation competition organised by IIT- Bombay on 18 September, 2020. e-Yantra Innovation Challenge (formerly e-Yantra Ideas Competition) is a competition to solicit innovative projects from Engineering/ Science/ Polytechnic colleges across the nation.

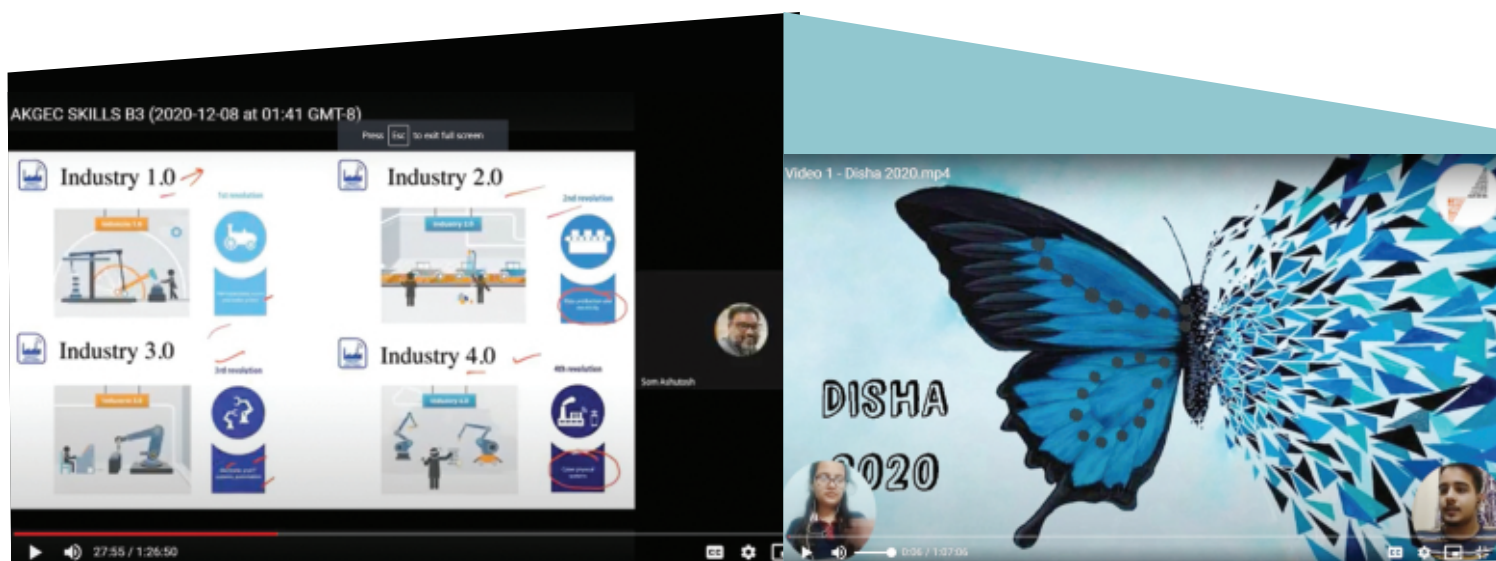
Participants of E-yantra Innovation Competition	
Name	Course
Vibhuti Gupta	B. Tech III Year ECE
Aman Verma	B. Tech III Year EI
Sarthak Singh	B. Tech III Year ECE
Anjali Soam	B. Tech III Year ECE

EVENTS

Induction Program : 2020-2021 For First Year Students

A full-fledged online Induction Program was organized for all first year students during 01- 07 December, 2020 by the students of Horizon society. Various online activities were conducted for the students and these were participated with full vigour and enthusiasm by them.

Daily morning and evening Yoga sessions were conducted under guidance of Col. M.K. Panday, a Patanjali trained Yoga teacher. An online college tour with introduction to the college facilities and departments was conducted to introduce the



new entrants to the college. Human Values and Professional Ethics online sessions were conducted daily by the trained faculty counsellors. Students were introduced to large numbers of skill development facilities and excellence centres established in the college in association with reputed industries by the Head, AKGEC Skills Foundation and his team. Expert lectures were conducted by senior Industry experts on relevant themes such as Time and Stress Management, Motivation and Career Development options available to engineering students. Dean First Year and the College Proctor introduced various academic and other procedural aspects of the college. The program culminated with the address of the Dr. R.K. Agarwal, the Director General, AKGEC. He welcomed the students and



advised them to spend the four years of their graduation to learn the curriculum diligently, acquire additional skills and develop into good human beings. He wished them a beneficial and fruitful stay at the college.

EVENTS

Kaarvan – The Musical Evening

Team Euphony organized the event Kaarvan on 4th April, 2021 in the college amphitheater in association with the Taal, Footprints and Horizon societies of the college. Kaarvan, the retro eve, where the sublime jingles by evergreen singers, none other than Mohd. Rafi and Lata Mangeshkar were staged was enjoyed



by all the participants and audience, though limited to 50-60 due to the Covid 19 pandemic. The event was streamed live for others to enjoy from the comfort of their homes and hostels. Team Footprints adorned the entire amphitheatre with the posters of Lata Mangeshkar Ji and Mohd. Rafi Sahab made by the team members. The amphithetre echoed with the ever green melodies - sad, romantic, happy and rock, of the two great singers sung and celebrated by the students.



EVENTS

First Anniversary of National Education Policy



The Prime Minister, Shri Narendra Modi addressed policy makers in the domain of education and skill development, students and teachers, across the country via video conferencing, to mark the completion of one year of reforms under the National Education Policy 2020. He also launched multiple initiatives in the education sector.

AKGEC was nominated as one of the nodal centres for the event by AICTE. The faculty attended the live session telecast on 29 July, 2021 under arrangements in accordance with the guidelines from AICTE and the PMO Office.



Essay Writing Competitions

Birthday of Netaji Subhash Chandra Bose, one of the greatest freedom fighters, scholar, patriot, leader, visionary and socialist, falls on 23rd January and commemorated all over India with great fervour and spirit.

As per guidelines from the Ministry of Education (MoE), AICTE advised colleges / institutes all over the country to celebrate Netaji's birthday by holding various programs like film making, online lectures, webinars, essay writing, poster making, poetry recitation etc on messages / teachings of his life.

In accordance with the AICTE guidelines, AKGEC organized the Essay writing in English / Hindi on the topics : "Netaji Subhash Chandra Bose- A Great Visionary & Revolutionary in the Freedom Struggle of India" / "नेताजी सुभाष चन्द्र बोस – भारत के स्वतंत्रता संग्राम में एक महान दूरदर्शी तथा क्रांतिकारी".

Winners		
Position	Student Name	Year and Branch
NETAJI SUBHASH CHANDRA BOSE - A GREAT VISIONARY & REVOLUTIONARY IN THE FREEDOM STRUGGLE OF INDIA		
First	Garima Saroj	B.Tech I Year CSE
Second	Arpit Tripathi	B.Tech IV Year EN
Third	Aditya Kumar Verma	B.Tech I Year EN
Third	Gauri Tripathi	B.Tech I Year IT
नेताजी सुभाष चन्द्र बोस – भारत के स्वतंत्रता संग्राम में एक महान दूरदर्शी तथा क्रांतिकारी		
First	Manika Agarwal	B.Tech I Year CSE
Second	Arun Kumar Maurya	M.Tech I Year EN
Third	Vijaya Yadav	B.Tech II Year CE

29 entries for Hindi essay and 49 entries for English essay were evaluated by the senior faculty of the college.

TEACHING AND LEARNING @ DIGITAL PLATFORM



During more than one and a half year of the pandemic now, the education industry has faced the pronounced challenge of the shift from physical teaching paradigm to online platform.

For the students, the teachers and the Institutes, the transition has been an amalgam of diverse and immense adjustments as learning has always been in the classrooms which are no longer the platform during these tough times of the pandemic.

The teachers and the students may not have been well equipped with the technology tools and the skills to avail of the remote learning. The issues of poor connectivity in remote areas were a challenge. However, 'Team AKGEC' quickly rose to the challenges effectively in both academics and other activities in the college. The faculty wasted no time in adapting to the online teaching methods and came up with many innovative approaches to make the online teaching useful and interesting. During complete lockdown when classes had to be conducted from home, our faculty members procured and used not only laptops but also electronic tablets which, in addition to the usual slide projections, enabled direct writing as on the board.

The interest exhibited by the students in online classes is visible from the attendance of the students in the classes and the performance in examinations. Apart from successful academics, a wide range of online activities including webinars, Faculty Development Programs and competitive events were undertaken.

During the unlock and subsequently, the Institute did not shy away in terms of effort and expenditure in converting all its classrooms into smart classrooms, about 70 in number, with the best equipment. At the same time the faculty wasted no time in adapting to another new set of teaching equipment and procedures. Faculty members across the departments have also recorded video lectures in their respective courses and shared with the students for facilitating the learning process.

The College set up a sophisticated digital studio with capabilities for video lecture recording and online training sessions. It also has capability to conduct live streaming on youtube and facebook. **AKGEC Digital Studio**, a YouTube channel, was launched on 8 July, 2020. Almost 500+ lectures have been recorded by the AKGEC faculty and uploaded on the channel covering a watch time of around 8200 hours. The lectures have been duly appreciated and adored by the viewers. The channel at present has a viewer ship of almost 138000+ viewers and has around 2100+ subscribers.



CELEBRATIONS

INDEPENDENCE DAY AND REPUBLIC DAY

AKGEC celebrated the Independence Day and Republic Day, the two days that remind every Indian about the dawn of a new beginning, the beginning of an era of liberation from the oppression during the British Raj of more than 200 years. These two days are to be remembered and pay homage to the martyrs, revolutionaries and freedom fighters who sacrificed their lives so that we, the future generations, could live, grow and prosper in a free nation. The two significant days remind us to dedicate ourselves to the service of our nation and work towards fulfilling the aspirations and dreams of a peaceful, developed, prosperous and happy nation.



The National Flag was hoisted by the Director General, Dr. R.K. Agarwal, in the presence of the faculty and staff. In view of the Covid 19 pandemic, the celebrations were constrained under the norms of social distancing.

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

INTERNATIONAL YOGA DAY

The International Yoga Day is celebrated on June 21 every year to spread awareness about the important health benefits of practising yoga since 2015.

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, especially in times of a pandemic when mental and physical health is under stress. Beyond its immediate impact on physical health, the COVID-19 pandemic has also exacerbated psychological suffering and mental health problems, including depression and anxiety, due to the pandemic-related restrictions and its after effects.

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 pandemic. Yoga is also playing a significant role in the psycho-social care and rehabilitation of COVID-19 patients in quarantine and isolation. It is particularly helpful in allaying their fears and anxiety.

Recognizing this important role of Yoga, the commemoration of the International Day of Yoga in 2021 focused on “Yoga for well-being” – how the practice of Yoga can promote the holistic health of every individual.

Like the year 2020, faculty and staff of AKGEC practiced Yoga at home with their families and shared their pictures with the College. Colonel M.K. Pandey, Retired, guided the faculty and staff through the yogasanas online.



SOCIAL RESPONSIBILITY

Adoption of Refugee Village



The college has adopted a refugee village situated at Adarsh Nagar, Delhi, with about 110 families with more than 650 family members from Hyderabad area in Pakistan residing in the village. The residents of the village earn their livelihood through sale of mobile phone covers and seasonal vegetables on day to day basis.

The college team visited the village and interacted with the residents to know about their living conditions and problems faced in daily life. The requirement of winter clothing and daily cleaning, washing and bathing items were identified as the most immediate need. The college distributed blankets, shawls, soaps, plastic buckets, dust

bins and brooms to each family residing in the village. Books and stationery items were also provided to school children residing in the village. Based on the request from the village residents and having felt the requirement, the college constructed a school room for small children of the village and sewing machine centre for initial training and further converting it into a source of income. The classrooms and the sewing machine centre are provisioned with fans and lights.

During the first wave of COVID-19, AKGEC further lent a helping hand to the village by providing rations and vegetables to all the families for daily use and cash for any





miscellaneous requirements/ milk for children and tea preparation. The items including flour, rice, pulses, refined oil, salt, tea leaves, sugar, condiments and vegetables were provided during the entire lockdown period.

Developments made in the camp during the year include the construction of a fence to demark and safeguard the village, area light in the village, provision of play / sports items including swings, seesaw and slides for the school children and plantation of grass and trees in the school area. Installation of solar power panels for harnessing solar energy for local use has been completed.

The college is in continuous contact with the residents of the refugee camp to support and help them in their requirements and to facilitate them with a better quality of life.



SOCIAL RESPONSIBILITY

Nari Shakti Mission Program

Nari Shakti Program, under the aegis of the Nari Shakti Mission of the Government, was organized at Kazipura School on 13 August, 2021. The school in a nearby village has been adopted by the College and various upliftment programs are conducted regularly. The aim of the program, conducted by the faculty for about 20 women, was to educate the village women on the issues of health and hygiene.

The highlights of the program included discussion on various topics related to personal hygiene, iron deficiency, importance of Vitamin D3, need to exercise, sufficient and wholesome diet and periodic health check ups. The group was sensitized with the information on the Covid 19 pandemic and the precautions to be taken as well as guided on the importance of the vaccination against Covid 19. Awareness among the women was also created against marriage of their daughters before the age of 18 years, this being a social evil as well as prohibited under law. Free sanitary pads were distributed to the women at the end of the program.



Painting of Dispensary

In accordance with its philosophy of supporting activities of social welfare AKGEC undertook the renovation and re-painting of Primary Health Centre at Bamheta village in Ghaziabad, thus providing a clean and hygienic environment to the visitors and staff. The dispensary is in use for Covid-19 vaccination drive by Government of India.



Adoption of Kazipura School

AKGEC has adopted Prathmik Vidyalaya, Kazipura, Ghaziabad and carries out various activities of maintenance and support to the school on a regular basis. The college takes up the white washing of the school building, cleaning of the school compound and horticulture activities as and when required. Provision of sports equipment like badminton rackets, cricket kits, carrom and slides have been provided by the college and are also maintained on a regular basis. The college has donated computers to the school to encourage basic computer literacy in the students. Provision of support equipment including posters, sitting mats, furniture, library racks and fans are catered to from time to time to provide a conducive teaching-learning environment.

In addition various activities like teaching and sensitizing the school students on issues of hygiene and healthy food are also carried out by AKGEC students from time to time. A visit to National Science Museum organized for the school students was enjoyed and relished by all the students and teachers.



“ From Our
Passing Out Students

Alumni Speak



I am proud to be a member to this wonderful family of AKGEC. I was very much excited to get admission in the Electrical and Electronics Engineering Department, knowing the prior achievements of the college, and my experience with the AKGEC family has been way beyond my expectations. It is a beautiful campus with an amazing infrastructure, experienced faculty members, quality and disciplined educational setup and supportive colleagues. In addition to academics, college helped me to enhance my co-curricular and extra-curricular skills through a plethora of societies, clubs and events. The advanced Centres of Excellence established in association with eminent industries helped me to enhance my technical as well as practical hands-on skills in various domains. AKGEC was a great experience with quality education, discipline and practical skill development.

Siddhant Kumar Singh
B.Tech EN



When I took admission in AKGEC, barely did I know that this college shall turn into my second home. A plethora of opportunities came my way from the very first day of orientation as a first-year student. The college gave me a whole lot of learnings and most importantly the memories. Phoenix, the Electronics Engineering Departmental Society, was undoubtedly the epicenter of my 4 years of graduation and couldn't have asked for a better guidance. The faculties and the college management were a constant support. I am really grateful to have worked and learnt under such guidance. My best wishes for this extraordinary institution. I'll always be thankful for everything and will always be looking forward to contribute and cherish the growth and welfare of this college.

Shivangi Kaushik
B.Tech ECE

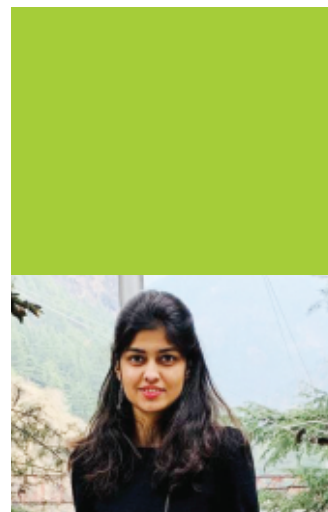
My 4 year journey at AKGEC is coming to end and now as the day is imminent, I feel grateful and humbled to be a part of this prominent institution and reminisce about my experiences and learnings at this place.

AKGEC has given me most of what I am today. It provided me with a thriving environment and systems to enable maximum learning and full growth. Imbued with virtues such as discipline, punctuality, kindness and resilience, the pedagogy of this institution has nurtured me, bloomed my valour and given wings to my ideas.

Being part of the Centres of Excellence, I gained skills, worked on some amazing projects with my peers and participated in various events.

AKGEC provided me with all kinds of opportunities ranging from hackathon events, technical paper presentations, workshops on latest technologies and to research under faculties for my overall development. With the vision of the college management and the relentless support and guidance of faculties, AKGEC has given me 4 bright years to look back and smile.

Disha Rastogi
B.Tech IT



Entered into college as a newbie unaware of what enigmatic surprises this place had for me and to my wonder it gave me more than I had expected. The golden phase of college life at AKGEC has been full of great learnings and opportunities. The 4 years that swept after that saw me in varied roles from being crowned the Miss Fresher in first year, to organizing various events in college and hostel, to winning number of medals and trophies in high jump, long jump, discuss, relay etc. I participated in as many activities as I could along with maintaining my academic records and it always motivated me when my faculties and management would appreciate and guide me to do better. All my best wishes are there for college and I would always seek an opportunity to contribute to its growth and welfare in all possible ways in future.

Nidhi Shukla
B.Tech ECE

The most important thing that I have learned from my college and which is going to be with me in my entire life is "discipline". Along with a highly educated and supportive faculty, the decorum of college is appreciable. The college provides an excellence Centres of Excellence for the students to enhance their technical knowledge in automation. The IDEA lab gives a new direction to the young minds to create employment in our country and to turn their ideas into reality.

The college campus is the best with a wonderful central lawn where one can to a large extent enjoy nature's serenity. The hostel facility is very conducive with properly ventilated rooms and facilities including sports, gymnasium, library and many more. The quality of the mess food is very good and is maintained so with regular checks and inspections. The hostel to me was a home away from home.

The college has well equipped labs and departmental libraries apart from computer centres and the central library and digital library.

Mridul Garg
B. Tech. ME



Life at AKGEC has been a potpourri of sweet and sour moments full of learning. The discipline inculcated in every strata of college prepares us for the corporate world challenges that lie ahead. The curriculum meticulously deals with the prescribed syllabus and the faculties leave no stone unturned to fulfil it. The skills lab adds to bridge the industrial-academia gap by training students. I was trained in KUKA, Bosch and Fronius Centres of Excellence where the setup is at par with the industrial standards. The college also provides opportunities to join various societies for extra-curricular activities which help us polish our soft skills. The incubation centre deals with business planning and building a start-up ecosystem in the college. The hostel life is full of light moments with our mates which gives us all the reasons to remember our days at the college.

Utkarsh Dwivedi
B.Tech. ME

It wouldn't be wrong if I say that the four years at AKGEC have been the most wholesome years of my life. From being a boy who came to pursue a degree, to a boy who eventually lead the departmental society and got numerous chances to push his own boundaries, AKGEC bestowed me with everything I could have asked for during my college life. I made the best memories, learnt the best from a wide range of experiences, and the past 4 years were nothing less than a blessing. I would also like to mention that I am what I am today owing to the great guidance I received from the faculties of this college. They have been a constant support. I'd also like to thank the college management for standing with me all through my journey and supporting me in the best way. I extend my best wishes and will always be working towards making this institution grow and rise to achieve the best of everything.

Anadi Mishra
B.Tech ECE



"Sometimes you will never know the true value of a moment until it becomes a memory."

Well ! My college life in AKGEC cannot be summed up in few words. But surely I would not have asked for any other place than here. The gamots of emotions, plethora of opportunities and the amazing people I met here have given me a lesson of a lifetime. The discipline and the fine curriculum we get to read here is surely nowhere else. You get to be mentored with such learned faculties and amazing notes they provide you make examinations a smooth sail for all of us. I thank you AKGEC for wonderful experience you have given me.

Shraddha Mishra
B.Tech IT



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>