



# SAMPARK

A PUBLICATION OF AJAY KUMAR GARG ENGINEERING COLLEGE

2019-20 ISSUE





## ***Vision***

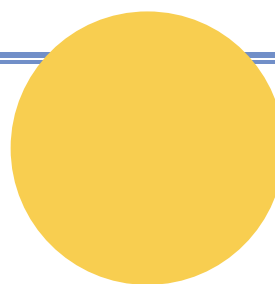
To introduce Under Graduate and Post Graduate courses for all Engineering branches and award of Ph.D degree, to be one of the best Engineering Colleges in the country and to be a Deemed University.

## ***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.



## Editor's Letter

### SAMPARK

#### PATRON

Dr. R. K. Agarwal  
Director General

#### EDITOR

Dr. Mamta Bhusry  
Professor  
Department of Computer  
Science and Engineering

It is once again my pleasure to present to you the new edition of SAMPARK, an extensive compendium of the curricular, co-curricular and extra-curricular achievements of the College during the academic year 2019-20.

The global health crisis due to Covid-19 pandemic has been a period full of challenges and anxiety for all of us. We witnessed changes in lifestyles and paradigms for work and education. It is worth a mention that despite unprecedented times, 'Team AKGEC' quickly rose to the challenges effectively in both academics and other activities in the college. Online classes during the period of pandemic have been highly successful due to the immense efforts by the faculty and staff as well as appreciable interest taken by the students. A plethora of activities were successfully conducted in online mode, not disrupting the variety and momentum of the holistic excellence at AKGEC. This edition of the magazine is a benevolent of all such efforts.

I owe special gratitude to the Director General, AKGEC, Dr. R.K. Agarwal for his untiring guidance and encouragement to craft this bouquet of our activities aimed at keeping in touch with our readers. Also, without the unflinching support of all contributors – Heads of Departments, Deans, Section In-charges, faculty and students the publication would not have been possible.

**Prof. Mamta Bhusry**  
Editor

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**Dr. R.K. Agarwal**  
Director General

AKGEC aspires for a 360 degree development of its students and faculty through promotion of academics, research, culture, social welfare and personal development. With this conviction, the College aims to offer the best possible opportunities and facilities to its students and faculty to invoke their interest and help them pursue their dreams.

The College has state-of-the-art infrastructure and a skilled team available to help our learners to scale the pinnacle of success. Apart from the mainstream academic and curriculum activities, the college offers a plethora of knowledge building programs, targeted skill trainings, industry interfaces, personality development programs and rewards for those who undertake these. The campus has an enriching environment with several activities in the sphere of sports, culture, literature and technology, along with a special emphasis on building ethics.

The outstanding results of students with Chancellor's Medal for the fourth consecutive year, college awards, accolades won by students in various competitions across the country and the college Centres of Excellence and NSDC approved Skill Development Centre speak volumes about the level of excellence at AKGEC. The college continues to strive for more in the future.

Recently, the Covid-19 pandemic has thrown many unexpected challenges at all of us forcing us to bring about drastic changes to the way we function. It is heartening to note how our faculty and students have accepted the challenge and adopted the new platform seamlessly in such a short duration. The successful conduct of classes and examinations on the digital platform along with the online webinars, student technical activities, faculty development programs and workshops on human values have made us experience how our dedication, commitment and perseverance can help to overcome the challenges and move ahead. It has been a tremendous effort on part of all of us and deserves appreciation.

My best wishes and guidance will always envisage AKGEC to be at the zenith of excellence. Last but not the least, I express my gratification on this new edition of Sampark that brings to you the reflection of all such significant efforts.

## CENTRES OF RELEVANCE AND EXCELLENCE (CORE)



### Industrial Consultancy

AKGEC in its endeavour to promote skilling its of faculty, students and industry professionals using its world class training and research infrastructure in Automation, Robotics and Advanced Manufacturing domain has completed various training programs and consultancy projects for the industry.

#### Indian Railways: IRIMEE, Jamalpur Bihar

AKGEC organized training program on Automation Technologies for 15 officers of Indian Railways Institute of Mechanical and Electrical Engineering (IRIMEE), Jamalpur, Bihar from 10-14 February, 2020. Under this program, the participants were given opportunity to gain technical exposure and hands on working experience on Industrial Pneumatics and Hydraulics. The technical and hands-on sessions were conducted by Mr. D. K. Singh, Mr. Rahul Dixit, Mr. Mahesh Sharma of AKGEC Skills Foundation and Mr. Nitin Sapre, Ex Senior Trainer, Bosch Rexroth Group.



## Jindal Stainless Ltd. Welders

AKGEC-Fronius Advance Welding Technology and Research Centre (AWTRC) organized a Welder Training Program on Stainless Steel Welding for welders and technicians of Jindal Stainless Ltd. during 13-14 February, 2020. The program was organized in collaboration with Fronius India Pvt. Ltd. During the training program, 10 practicing welders and technicians from Jindal Stainless Ltd. participated and performed welding using Gas Metal Arc Welding (GMAW) and Gas Tungsten Arc Welding (GTAW) processes in 1F, 2F and 3F positions on Stainless Steel grade 304 and 308. The training was conducted by Prof. Som Ashutosh, AGM (QA&A) AKGEC Skills Foundation; Mr. Harish Khurana, Ex Manager, ESAB India Ltd and Consultant at AKGEC-Fronius; Mr. Pradeep Paul, Ex Manager ESAB India Ltd.; Mr. Vivek Singh, Scientific Officer AKGEC Skills; Mr. Dalip Singh, Application Engineer, Fronius India Pvt. Ltd.; Mr. Amit Singh, Project Engineer, Fronius India Pvt. Ltd. and Mr. Sonu Bhardwaj, Welding Instructor (AWTRC).

Achievement Test and Practical Assessment of the participants was conducted to evaluate the training effectiveness.



## Accreditation of Measurement and Metrology Centre by National Accreditation Board for Testing and Calibration Laboratories (NABL)

Ajay Kumar Garg Engineering College, in its endeavor to impart engineering education commensurate with the requirements of Industries, have 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".

National Accreditation Board for Testing and Calibration Laboratories (NABL), a constituent Board of Quality Council of India has been established with the objective of providing Government, Industry Associations and Industry in general with a scheme of Conformity Assessment Body's accreditation which involves third-party assessment of the technical competence of testing including medical and calibration laboratories, proficiency testing providers and reference material producers. It is a full member (MRA signatory) to International Laboratory Accreditation Co-operation (ILAC) as well as Asia Pacific Laboratory Accreditation Co-operation (APLAC) since 2000 on the basis of peer evaluation by APLAC as per ISO/IEC 17011:2004.

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.



## Participation at DEFEXPO-2020

AKGEC Skills Foundation (ASF) participated in DefExpo-2020, an event of the Ministry of Defense, Government of India, held at Lucknow during 5-9 February, 2020

The theme of the 11th edition of the Expo was 'India: The Emerging Defense Manufacturing Hub' and the focus was on 'Digital Transformation of Defense'.

Defexpo was inaugurated by Honorable Prime Minister Shri Narendra Modi and was attended by Raksha Mantri Shri Rajnath Singh along with Chief Minister, Uttar Pradesh, Shri Yogi Adityanath.

ASF Stall was visited by several professionals engaged in Defense production, procurement and service industries. The prominent ones were the visit of Chief of Defense Staff, India, General Bipin Rawat and Shri Vinay Mohan Srivastava, General Manager, Modern Coach Factory (MCF), Indian Railways. DefExpo provided an excellent opportunity to ASF to showcase the cutting-edge technologies that can help in achieving the digital transformation of Defense.





## Associations

### BOSCH Automotive Ltd.

AKGEC signed MoU with BOSCH Automotive Ltd. on 14 November, 2019 at BOSCH head quarters at Bangalore. The primary purpose of this association is to develop facility for Joint Certification Training Centre and Express Bosch Car Service Workshop at AKGEC under AKGEC Skills initiative.

The centre is equipped with futuristic working models and cut sections of various automotive components. Also to augment the existing training and research infrastructure in the Automobile



Engineering domain BMW India has facilitated the centre with petrol and diesel engine assemblies.

This joint initiative of AKGEC and BOSCH Ltd. will offer training to aspiring engineers, technicians and employees to help enhance their technical competence on emerging automotive technology and service levels as per global standards along with specially tailored hands-on sessions on auto electrical systems, engine management software & air conditioning systems.

These training programs are intended to train the B.Tech, M.Tech and Diploma students of all disciplines at par with BOSCH Global Didactic concepts. The practical training offered by the centre will enable engineering trainees and technicians to acquire core skills, competence and hands-on confidence required to take on both modern automotive service and diagnostic interrogation and resolution.

The centre will also offer an exclusive Bachelor of Vocational Program ( B.Voc) in Automotive Servicing duly approved by AICTE and AKTU for 12th pass candidates.

### National Formosa University (NFU), Taiwan

AKGEC in its endeavor to promote global exposure in industry oriented teaching and international practices signed MoU with National Formosa University, Taiwan on 18 January, 2020

The MoU was signed to encourage cooperation in education and research areas of mutual interest and to promote direct contact between the faculty members, departments and students of both the parties.

This initiative will be helpful for faculty and student exchange/internship programs and will encourage students to pursue joint research and development activities. The students will be benefitted by learning professional language and participation in cultural exchange programs.



## All India Council for Automation and Robotics (AICRA)



AKGEC Skills Foundation signed MoU with AICRA (All India Council for Automation and Robotics) during 'India STEM Summit & Awards 2020' held at NDMC Convention Center, New Delhi on 13 February, 2020. The summit was inaugurated by Chief Guest Honorable Shri Nitin Gadkari - Union Cabinet Minister MSME, Road Transport & Highway.

AKGEC Skills Foundation participated in the event as a sponsor and exhibitor showcasing the latest tools and technologies in the field of Industrial Automation & Robotics, Digital Manufacturing and 3D Printing etc.

## UN Global Compact

AKGEC Skills Foundation, in its endeavour to contribute to the society, has joined the Global Compact initiative of United Nations to become part of the world's largest corporate sustainability initiative. This association is to set the priority to be a leading catalyst of the transformations ahead aligned with SDGs and devoting our time and action in association with our industrial network to make it happen.



## National Skill Competition For Best of Best Welder (Northern Region)

National Skill Competition for Best Welder (Northern Region) was organized by The Indian Institute of Welding at AKGEC Skills Foundation during 6-7 November 2019. The event was sponsored by M/s Voestalpine Bohler. Total of 21 welders in four categories from reputed fabrication, welding and manufacturing companies such as Honda Cars (Tapukara plant), ISGEC Yamunanagar, DEE Piping System, Palwal, Youngmen India and Micro Precision Product Pvt. Ltd., participated in the competition.



Contestant performing welding in 3G position



Contestant performing welding in 6G position



Winners of the Regional Round in four categories



Contestant performing welding in 2F position

## Participation in International Welding Congress and Weld India 2020



WELDINDIA 2020 - a three day exhibition was held during 7-9 February, 2020 in New Mumbai. More than 100 companies from Metallurgy, Material Testing & NDT, specially welding, fabricating & allied products industries showcased their latest development and professional branding in the Indian as well as international market. AKGEC participated in the Congress as one of its sponsors and exhibited its training, research and consultancy facilities under AKGEC Skills Foundation.

5th International Congress (IC-2020) on Advanced Welding Technology & Quality Systems for Developing Economies was organized during 6-8 February, 2020 at Mumbai by the International Institute of Welding and hosted by The Indian Institute of Welding (IIW India). It was attended by more than 350 national and International Delegates representing various Industries related to welding & allied fields, academic & research institutions and National / international welding associations & professional bodies. AKGEC participated in the Congress.

### Participation in Udyam Samagam

The Ministry of Micro, Small and Medium Enterprises in association with District Industries Centre, Ghaziabad, organized the first edition of the UDYAM SAMAGAM - ODOP during 27-28 September, 2019.

AKGEC Skills Foundation stall at the Samagam exhibited all equipment and technology used in our Centres of Excellence.

The two day event witnessed participants from various industries and engineering colleges of the district along with various government officials from the state.

The event was inaugurated by the Hon'ble Minister Shri. Chaudhary Udaybhan Singh, Hon'ble State Minister MSME & Export Promotion, U.P Govt. and presentations by various industries, exporters and engineering colleges including ISRO, AKGEC, NTPC, KIET, NHPC, BEL and CEL were conducted.



## Webinars

The Centres of Excellence under AKGEC Skills conducted a series of webinars on various technologies during the Covid 19 Pandemic. Students and faculty from various institutes across the country as well as industry personnel joined the webinars and benefitted. Prominent participating institutes and industry included IIT Delhi, IIT Roorkee, IIT BHU, IIT Ropar, IIT ISM Dhanbad, BITS Pilani, MANIT Bhopal, Delhi Technological University, MNNIT Allahabad, NIT Delhi, NIT Jalandhar, BHEL, Indian Railways, BARC, Gabriel India Ltd, Fronius India Private Limited, Blue Star Limited, Godrej and Boyce and many more. The webinars were conducted by the Scientific Officers at AKGEC Skills.

Webinar	Centre of Excellence	Date	Participants
Robotics Operation & Applications	The KUKA Robotics Centre of Excellence	25 April, 2020	550
Industrial Automation: Level 1	AKGEC BOSCH Rexroth-Center of Excellence in Automation Technologies (CEAT)	2 May, 2020	660
Additive Manufacturing	AKGEC- FABLAB	9 May, 2020	500
Future of Welding: Journey Towards Industry 4.0	AKGEC-AWTRC	16 May, 2020	1000
Rethinking Innovation in Product Development: The Future of Manufacturing	AKGEC-AMC	23 May, 2020	850
Concepts of Robot Programming & Application	AKGEC-KUKA (IRTC)	30 May, 2020	965
Programmable Logic Controllers	AKGEC BOSCH Rexroth Center of Excellence in Automation Technologies (CEAT)	6 June, 2020	750
Digital Fabrication	AKGEC-Siemens	13 June, 2020	230
Welding of Pressure Vessels & Pipelines	AKGEC-Fronius	20 June, 2020	440
CNC: An Efficient Machining Technique	AKGEC-Siemens	27 June, 2020	390

**AKGEC-KUKA**  
INDUSTRIAL ROBOTICS TRAINING CENTRE

### Webinar on Robot Operation & Application

This webinar will introduce you to the basics of Robot Operation & application. You will find out more about robotics for Industrial environment and how it will help to improve the productivity and efficiency of Indian Manufacturing Industry. The discussion on Trends and Scope of Robotics in India will help the young professionals to take up this cross disciplinary field as a career of their choice.

**The Webcast includes the following topics:**

- Introduction to Robotics
- Classification of Robotics
- Industrial Robot : An overview
- Fields of Application for Industrial Robot
- Advance Simulation Concepts
- Future Trends & Scope of Robotics in India

**Date** : 25th April 2020  
**Time** : 05:00 pm IST  
**Duration** : One Hour  
**Online Registration** : <http://irng.cc/yjline>  
**Tele Registration** : +91-8588835907  
**Technical Support** : +91-8800902403

**Note:**  
E-Certificates will be provided to the participants.

Contact us for more Program  
 Email : [akgec.kuka@gmail.com](mailto:akgec.kuka@gmail.com) | Website: [www.akgec-kuka.org](http://www.akgec-kuka.org)

**AKGEC-KUKA**  
INDUSTRIAL ROBOTICS TRAINING CENTRE

**LIVE WEBINAR**

### Concepts of Robot Programming & Application

**The Webcast includes the following topics :**

- Robotics and components of a robotic cell
- Robot setup and operation
- Demands from good program
- Methods of robot programming
- Instructions to create & operate programs
- Industrial applications

**Date** : 30<sup>th</sup> May 2020  
**Time** : 05:00 pm IST  
**Duration** : One Hour  
**Tele Registration** : +91-9015839522  
**Technical Support** : +91-8800902403

**E-Certificates will be provided to all Attendees**

This is a great opportunity to learn new tech and boost your skills while staying at home amidst the Covid-19 crisis.

Attendees of this webinar will understand the concept of basics of robot configuration, robot setup, operation, robot specific paths for simple to complex profile geometry and programming approach and industrial applications.

Contact us for more Program  
 Email : [akgec.kuka@gmail.com](mailto:akgec.kuka@gmail.com) | Website: [www.akgec-kuka.org](http://www.akgec-kuka.org)

For Registration [bit.ly/3e7IGFK](http://bit.ly/3e7IGFK)

**FABLab**  
for Future by Opening Labs

## WEBINAR ON ADDITIVE MANUFACTURING



This webinar will introduce you to the basics of 3D printing technologies. It will cover different technologies involved which are used by many modern day fabricators to help improve their level of competence. The solution provided by the state of the art technology to help community come out of social and medical challenges will also be discussed to develop a sense of inventiveness amongst the attendees.

The webinar includes the following topics:

- Introduction to Additive Manufacturing
- History of Additive manufacturing
- Basics of Additive Manufacturing
- Various technologies involved
- Industrial Applications
- Future aspects and ongoing research

**Date:** 24th May, 2020  
**Time:** 05.00pm IST  
**Duration:** One Hr

**Registration:** <https://forms.gle/5GH8T3zW49Z3a8R6>

**Helpline number:** +91-8756164835, 9990240938

**Webcast method:** Google meet, Link will be shared after registration.

Contact us for more Program  
Email: [elgcefablab@gmail.com](mailto:elgcefablab@gmail.com) | Website: [www.elgcefablab.org](http://www.elgcefablab.org)

Note: E-Certificates will be provided to the participants.

Scan this QR Code for Registration



**SIEMENS**  
Advance Manufacturing Centre

**AKGEC SKILLS**

## Live Webinar on Rethinking Innovation in Product Development "Future of Manufacturing"

**Focus Area**

- Innovation in Manufacturing
- Reverse Engineering
- Digitalisation in Inspection Technologies
- Career Opportunities

The objective of this webinar is to deliberate on the Reverse Engineering processes, technology and equipment. It will specifically highlight the significant advancements and future trends in digitization of product development.

Don't miss this opportunity to know more, call or WhatsApp on

**+91-9868976079**  
**+91-8447944601**

Hurry up, limited seats!

**Time:** 05:00pm to 06:00pm  
**Duration:** One Hr.

**Webcast Method:** Google Meet, Link will be shared after registration.

E certificates will be provided to the participants.

**Live Session 23rd May 2020**

**Online Registration:** <http://bit.ly/2LUBKyX>



**AKGEC-rxroth**  
COE in Automation Technologies

**AKGEC SKILLS**

## Webinar on Industrial Automation

**Lockdown Learning**

This educational webinar will give an overview of general automation industry and the practical implications of logic controller & actuators specifically. Attendees will get "look under the hood" of Industrial Automation sector and will be able to learn best practices to improve and enhance their technical skills.

**Focus Areas**

- Introduction to Industrial Revolution
- Industrial Automation: An Overview
- Classification and types
- Actuators & Its Types
- Introduction to Integrated Automation Approach
- Future Trends and Opportunities

**Date:** 2nd May 2020  
**Time:** 04:00 pm IST  
**Duration:** One Hr

**Registration:** <https://forms.gle/18z2yuUSAGQJXYtE>

**Helpline Number:** +91-9654597500, 8825306331

**Webcast Method:** Google Meet, Link will be shared after registration.



**EEPCINDIA**  
ENGINEERING THE FUTURE

**AKGEC SKILLS**

## ROBOTIC OPERATIONS & APPLICATIONS IN MANUFACTURING PROCESS

**DATE: 18th June 2020 | TIME: 3:30 - 5:00 PM**

TO EDUCATE AND AWARENESS ON THE PROCESS OF AUTOMATION AND ROBOTICS IN INDIAN MANUFACTURING SYSTEMS

**SPEAKER:**  
VIVASH KUMAR, Asst. AKGEC SKILLS FOUNDATION

A POST GRADUATE IN PRODUCTION ENGINEERING FROM IIT, DELHI. HAS A HANDS ON TEACHING, TRAINING & RESEARCH EXPERIENCE OF MORE THAN 12 YEARS, WORKING IN THE FIELD OF FLEXIBLE MANUFACTURING SYSTEM, INDUSTRIAL ROBOTICS & ADVANCED WELDING TECHNOLOGY.

**POST SESSION:**  
THE PRESENTATION BY THE TRAINER AND AN E-CERTIFICATE WILL BE SHARED BY EEPC INDIA AND AKGEC.

**PAYMENT DETAILS:**  
EEPC INDIA MEMBERS - ₹2,500  
EEPC INDIA NON MEMBERS - ₹5,750  
(10% GST PER PARTICIPANT)

TO THE FOLLOWING BANK ACCOUNT VIA DIRECT TRANSFER:

NAME OF BENEFICIARY: EEPC INDIA  
NAME OF BANK: KOTAK MAHINDRA BANK  
ADDRESS OF BANK: BALLY HIGH 1, BALLY HOUSING PARK ROAD, KOLKATA - 700019, WEST BENGAL, INDIA  
ACCOUNT NUMBER: 2012642650  
IFSC CODE: KKBK00XXXXX

**FOR DETAILS CONTACT:**  
Anshuosh Srivastava, Jr. Executive Officer,  
EEPC India  
Email: [anrivastava@eepcindia.net](mailto:anrivastava@eepcindia.net)  
Mob: +91 9811166287

**REGISTER YOURSELF TODAY** | **LINK GIVEN BELOW**



**AKGEC-rxroth**  
COE in Automation Technologies

**AKGEC SKILLS**

## Programmable Logic Controller

**Lockdown Learning**

**LIVE WEBINAR**

The objective of this webinar is to deliberate on the evolution of Industrial Controllers and related technologies. It will explicitly highlight the Selection criteria and basics of Logic Programming with reference to Industrial Sector.

**Focus Areas**

- Introduction to Industrial Controllers
- Types and Internal Architecture of Logic Controller
- Selection Criteria
- Sourcing and Sinking Concept
- Overview to Programming Techniques
- Ladder Logic Programming and Future Trends

**Date:** 4th June 2020  
**Time:** 03:00 pm IST  
**Duration:** One Hr

**Registration:** [bit.ly/akgce-coat](http://bit.ly/akgce-coat)

**Helpline Number:** +91-9654597500, 8825306331

**Webcast Method:** Google Meet, Link will be shared after registration.

E - Certificates will be provided to the participants.



**AKGEC-Fronius**  
ADVANCED WELDING TECHNOLOGY AND RESEARCH CENTRE

**AKGEC SKILLS**

## LIVE WEBINAR FUTURE OF WELDING Journey Towards Industry 4.0

The objective of this webinar is to deliberate on the evolution of welding processes, technology and equipment. It will specifically highlight the significant advancements and future trends with respect to Industry 4.0.

**Key Topics**

- Modern Welding Processes
- Evolution of Welding Technology
- Power Sources and Consumables
- Welding Automation
- Welding Industry 4.0
- Career Opportunities

**May 16th Saturday 05.00 PM IST**

**Registration:** [bit.ly/akgce-awtec](http://bit.ly/akgce-awtec)  
**Duration:** One Hr

**Webcast Method:** Google Meet, Link will be shared after registration.

Contact us: +91-807732961, 7982799284  
E-Certificates will be provided to the participants.

For More Information: [akgcefrosius@gmail.com](mailto:akgcefrosius@gmail.com) | [www.akgce-fronius.org](http://www.akgce-fronius.org)

**AKGEC SKILLS**



### Consultancy Projects

Open Source Software R&D (OSS R&D) Centre, under aegis of Department of Computer Science and Engineering, completed consultancy projects under the supervision of CSE faculty.

Project Title	Company Name	Faculty Mentor	Student Team
DFI (UI/UX and Android)	Vgeekers Technologies	Dr. Sonam Gupta	Ajeet Kumar Ashutosh Yadav Aniket Pandey
THOAA(UI/UX)	Vgeekers Technologies	Dr. Sonam Gupta	Ajeet Kumar Ashutosh Yadav Satyam Singh
VFI (API)	Corecon India Pvt. Ltd	Ms. Lipika Goel	Gaurav Singh Kavinder Panwar Sagar Agrawal Neha Shukla

### Innovations During Covid 19 Pandemic

During the Covid 19 pandemic, AKGEC FabLab developed a low cost yet environmental friendly and reusable products – Respirator and Face shield using 3D printing technology.

The respirator was developed using Polylactic Acid. The filter material used was disposable mask cloth but any material as per exposed environment can be used. Design considerations such as suitability for average male / female face size with ergonomic characteristics and perfect fit on the face without causing any problems due to prolonged usage were taken into consideration. The weight of the respirator is 47 grams and average cost of manufacture is INR 100.

The face shield was developed using 3D printed visor, A4 transparent plastic sheet (175 microns thickness) and elastic (hair rubber band). The material used per shield was 8 grams industry grade PLA. The printing time was 32 minutes and the assembly time 2 minutes. The average cost of manufacturing of the shield was INR 90.

#### JIVIN App

Considering the use of Plasma Therapy in treatment of Covid19 and the urgent need to connect the Covid19 patients with the Plasma donors (recovered Covid 19 individuals), AKGEC students Deepesh Kumar (CSE, IV year) and Rachit Yadav (IT, IV Year) developed an App JIVIN (<https://jivin.in/>) that facilitates to connect the Covid19 patient with the prospective plasma donors in real-time based on their location. The app will definitely help to overcome the existing challenge of finding a donor and thus save lives.



## Funded Projects

The engineering departments have been taking up research projects funded by agencies under various schemes.

Project Title	Funding Agency	Principal Investigator
Tracking and alerts of blood pressure and similar critical circumstances	TEQIP-III of AKTU under Collaborative Research and Innovation Program (CRIP)	Dr. Sonam Gupta Associate Professor Department of Computer Science and Engineering  Ms. Lipika Goel Assistant Professor Department of Computer Science and Engineering
Stabilization of Railroad and Highway Cut Slopes using Soil Nailing	TEQIP-III of AKTU under Collaborative Research and Innovation Program (CRIP)	Ms. Archita Goyal Assistant Professor Department of Civil Engineering
Development of Functionally Graded Material via Friction Stir Processing Route	TEQIP-III of AKTU under Collaborative Research and Innovation Program (CRIP)	Dr. Namrata Gangil Assistant Professor Department of Mechanical Engineering
Compressed Parallel Wavelet Tree Based Semantic Search	Council of Science & Technology, UP	Dr. Sonam Gupta Associate Professor Department of Computer Science and Engineering
Automatic Cataract Detection and grading using Convolution Neural Network	Visvesvaraya Research Promotion Scheme by AKTU	Dr. Sunita Yadav Professor & HoD Department of Computer Science and Engineering  Mr. Jaikant Yadav Assistant Professor Department of Computer Science and Engineering
Brain Controlled Robot for Specially-Abled Users	Visvesvaraya Research Promotion Scheme by AKTU	Dr. P. K. Chopra Professor & HoD Department of Electronics & Communication Engineering  Dr. Aruna Tyagi Assistant Professor Department of Electronics & Communication Engineering

## Research Projects

Title	Faculty	Department	Status
Analysis of Low Voltage Low Power Circuit Design Techniques and Its Applications in VLSI Domain	Dr. Kousik Midya Mr. Anup Kumar and Mr. Om Krishna Gupta	Electronics and Communication Engineering	Ongoing
Efficient bandwidth utilization using Digital Filter Designing in Space Communication	Dr. P.K. Chopra Dr. Neelesh Kumar Gupta Dr. Rahul Bansal Mr. Anup Kumar	Electronics and Communication Engineering	Ongoing

## ADMISSIONS



The college had reasonably good admissions for the academic year 2019-20, 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 counseling and direct admissions under the management quota. The ranks of general category students admitted in the college through counseling 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 2018-19 has been exceptionally good. 98% students passed, out of which 97% passed with first division including 31% with honors.

In addition to overall good results, the college earned a remarkable achievement in terms of number of students in University merit lists. Fifteen students secured position in the top 10 merit lists of AKTU with 2 Gold and 2 Silver 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 fourth consecutive year. The award was achieved by Ms. Deeksha Singh of CSE branch in 2018-19.

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.





## Merit List 2018-19

**DEEKSHA SINGH**

**CSE**  
Chancellor's Award  
Gold Medal

**AKASH GOEL**

**EN**  
GOLD Medal

**ANURAG TIWARI**

**CSE**  
SILVER Medal

**MANSI AGRAWAL**

**IT**  
SILVER Medal

**PIYUSH TRIVEDI**

**CIVIL**  
VI Rank

**PRATHNA AGARWAL**

**CSE**  
VII Position

**DEVANSHI KHARE**

**CSE**  
IX Position

**ADYA JHA**

**CSE**  
X Position

**ARUSHI AGRAWAL**

**ECE**  
VIII Position

**VAIBHAV OMER**

**EI**  
VII Position

**ASHISH KR SHARMA**

**EI**  
IX Position

**RADHIKA GUPTA**

**IT**  
IV Position

**SWARNIMA SHUKLA**

**IT**  
VIII Position

**ANIKET AGRAWAL**

**ME**  
VI Position

**ABHISHEK KUMAR**

**ME**  
VIII Position

In addition, nine students of AKGEC from I, II and III year of B.Tech have secured positions at University level among the branch-wise list of Top-2 students for the session 2018-19 as published by the University. This is the highest tally of position holders from any Government or Private College affiliated to the University. These students shall be awarded cash prizes by the University under the Talent Incentive Scheme.



**VAISHNAVI GUPTA**

**CSE**

**I Position**



**ANSHIKA BAJPAI**

**IT**

**I Position**



**MUKUL SHARMA**

**EN**

**II Position**



**HARSHIT VERMA**

**ME**

**II Position**



**ARUN KUMAR MAURYA**

**EN**

**III Position**



**ANDLEEB KHAN**

**EN**

**III Position**



**AJAY SAINI**

**EI**

**III Position**



**ANIRUDDH SHUKLA**

**EI**

**III Position**



**UTKARSH DWIVEDI**

**ME**

**III Position**

## PLACEMENTS

Excellent academic performance combined with all round development through a range of events and activities in the College have translated into good placements of our students. The Training and Placement Department ensures 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 2019 passed out B.Tech batch had 860 offers in hand including higher studies and for the 2020 passing out B.Tech students the number of offers are 881 and the process is still on.

The major recruiters have been reputed companies like Infosys, Wipro Limited, TCS, Amazon, Capgemini, Cognizant, IBM, Astrea IT Services, BYJU'S, Ceasefire Industries Ltd., Cyware Labs India Pvt. Ltd., DLT Labs, Escecion Technologies Pvt. Ltd., Extramarks Education India Pvt. Ltd., Gainsight Software Pvt. Ltd., Global Logic, HCL Technologies Limited, HSBC Software Development (India) Pvt. Ltd., Impetus Technologies, Jaro Education, Josh Technology, Lohia Corp Limited (Lohia Group), MAQ Software, Motherson Sumi Infotech and Design Systems, Nagarro, Namekart, NEC Technologies India Pvt. Ltd., Newgen Software, NIIT Technologies Limited, NTT Data Services, Oppo Mobiles India, R Systems, SAAS Labs Technologies Pvt Ltd, SopraSteria India, Square Yards, Technip-FMC, Toppr, Torrent Power limited, Vedantu Innovations Pvt. Ltd., Indian Navy, etc.

## AWARDS AND ACCOLADES

### STEM Award-2020



AKGEC has been honored with STEM Award-2020 under India STEM College Award 2020 and Best Robolab Setup during 3rd edition of STEM Contribution Awards & Summit-2020 organized by the All India Council for Robotics & Automation (AICRA), India on 13 February, 2020 at NDMC Convention Centre, New Delhi.

Dr. R. K. Agrawal, Director General AKGEC, and Prof Ashiv Shah, Head TIFAC Core, AKGEC, received the award on behalf of the college. This is the third consecutive year for AKGEC to be honored at STEM Awards & Summit.

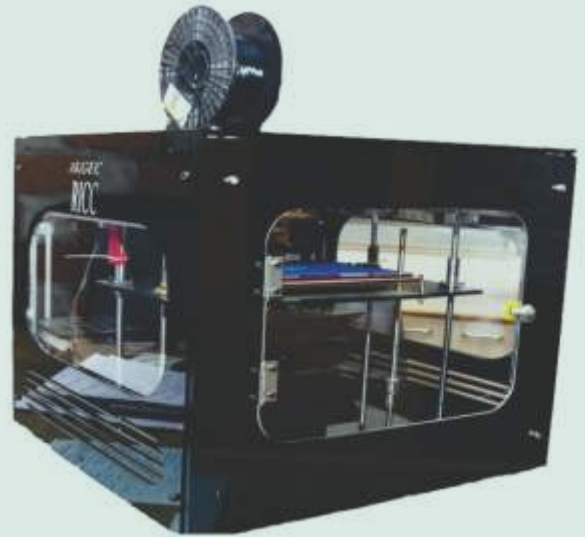
The College was recipient of Excellence and Innovation in Robotics Education Award during 2nd edition STEM Summit & Awards-2019, Best Technology Infrastructure of the Year Award-2018 and Best Vocational Robotics Education Award-2018 during 1st edition STEM Summit & Awards-2018.

## Patent for 3-D printer

AKGEC attained patent by Government of India for FDM based 3-D Printer developed by Mr. Pradeep Jain, Associate Professor, Department of Mechanical Engineering, under the aegis of Research and Industrial Consultancy Centre, AKGEC.

The printer uses a method of manufacturing known as Additive Manufacturing due to the fact that instead of removing material to create a part, the process adds material in successive patterns to create the desired shape.

The 3-D printer developed with minimal expenditure is expected to be fabricated and supplied to various schools and engineering institutions at a very reasonable price to promote experiential learning in the emerging technology of additive manufacturing.



## Felicitation of Faculty by AKTU

Dr. Namrata Gupta, Assistant Professor, Department of Mechanical Engineering, was felicitated by AKTU as a teacher for her contribution in academics on the occasion of Teachers Day Celebrations of the University on 5 September, 2019. The selection was based on her research contribution.



## 5th India International Science Festival

India International Science Festival (IISF), launched in 2015, is a celebration to promote Science and Technology and demonstrate how science could lead India towards a developed nation within a short span of time. Ministry of Science and Technology and Ministry of Earth Sciences in association with Vijnana Bharati (VIBHA), has created a unique platform of India International Science Festival which intends to inspire curiosity and make learning more rewarding.

IISF, held during November 06-07, 2019 at Kolkata, organized thirty events in various categories. AKGEC students participated in events under various categories and showcased their projects.



### AKGEC Participation

Student Name	Branch/Year	Project Name	Event Name
Naman Agarwal Animesh Dayal	B.Tech IV Year ME	Water Efficient Pneumatic Flushing System	Student Engineering Model
Lakshya Bhardwaj	B.Tech IV Year EC	Water Purification using Sunlight	Nav Bharat Nirman
Pranjul Itondia Priya Sharma	B.Tech II Year CSE	Wildfire Detection and Prevention	Student Engineering Model
Faizan Ahamad Mudit Saxena	B.Tech III Year EI	Smart Flush System	Student Engineering Model
Shivam Bisht Mohit Rathaur Prakhar Agarwal	B.Tech II Year CSE B.Tech IV Year CSE B.Tech IV Year CSE	Jungle Tree	Nav Bharat Nirman
Deepak Chaurasia Taru Agarwal	B.Tech II Year IT B.Tech II Year CSE	Rainfall Prediction System and Controlling Submergence	Nav Bharat Nirman
Arushi Verma Sanyam Garg	B.Tech III Year CSE B.Tech III Year IT	Smart City Development	Nav Bharat Nirman

The project **Water Efficient Pneumatic Flushing System** won the first prize at All India Level under Swachha Bharat (Environment and Pollution treatment) category.

## Surveillance Robot using IoT

A grant of Rs 12,000 was granted to AKGEC students for the project **Surveillance Robot using IoT** under the Robotics and IoT event conducted by AKTU. This project presents a modern approach for surveillance at remote and border areas using multifunctional robot based on current IoT used in defence and military applications. This robotic vehicle has ability to substitute the soldier at border area to provide surveillance. The robotic vehicle works both as autonomous and manually controlled vehicle using wireless communication medium based on GSM. The multisensory robot detects presence of enemy, captures it in camera and gives the live streaming to the authorized person.

## Shankara Hackathon

AKGEC students presented two projects in the Shankara Hackathon 2020 held at SIT, Jaipur during 28-29 February, 2020. The hackathon was a 36 hour event sponsored by TEPIQ III.

Project Name	Faculty Mentor	Student Name	Student Branch/ Year
Automated Room Cleaning Robot	Mr. Saket Kumar Singh Department of CSE	Shubham Pandey Shubh Shah Nandini Gupta Riya Gupta	B, Tech II Year CSE B, Tech II Year CSE B, Tech II Year CSE B, Tech II Year CSE
Smart System To Clear Way For Ambulance	Mr. Saket Kumar Singh Department of CSE	Kshitij Khare Rishabh Jain Naman Jain Harshit Gautam	B, Tech II Year EC B, Tech II Year CSE B, Tech II Year ME B, Tech II Year EC



The project **Smart System To Clear Way For Ambulance** bagged the second position and the team members were awarded certificates and cash prizeworth Rs. 50,000.

## Participation in Techstars Startups Weekend 2019

AKGEC students Ravi Gupta, B.Tech IV Year EN and Vaibhav Lakhmani, B.Tech III Year IT, won the first prize for presenting their innovative idea **ILUZIO VR** in Techstars Startups Weekend powered by Google for startups held at Noida during 27-29 September, 2019. ILUZIO VR is based on VR based learning in schools.

Techstars Startups Weekend Event is an open platform for the innovators and entrepreneurs to present their startup ideas and also to explore the learning of idea to product, business model canvas and validation.





### Participation in Techstars Startup Weekend 2020

Software Development Centre (SDC), AKGEC, represented the College at Techstars Startup Weekend 2020 powered by Google. The event, a 54-hour event where designers, developers, marketers and startup enthusiasts come together to share ideas, form teams and launch startups was held from 31 January, 2020 to 02 February, 2020 at IMT Ghaziabad. The event was attended by 70+ participants wherein 24 ideas pitched. Of the ten final ideas selected, five were presented by AKGEC SDC teams.

Team of AKGEC and IMT students was awarded certification by Google, a free domain name for its members

and vouchers for achieving second position in the event. The winning team presented their idea of **Building an Integrated Platform for all the NGOs, Corporates and Professionals** - a one stop solution for anyone who wants to contribute to the society.

AKGEC Team Members	
Arnav Jain	B.Tech II Year IT
Srishti	B.Tech II Year EC
Muskan Agrawal	B.Tech II Year CSE
SachinPrajapati	B.Tech II Year EN



## Online Students Seminar on Issues and Challenges in Industry 4.0

AKGEC students secured first and third positions in the Online Students Seminar on Issues and Challenges in Industry 4.0 conducted by ABES Engineering College on 19 May, 2020. The seminar, conducted in association with Ghaziabad Management Association (GMA), aimed at equipping the participants with the fundamentals of Industry 4.0 and its role in the present era of digital transformation.

Winners from AKGEC				
Student Name	Year and Branch	Faculty Mentor	Position	Title of Research Paper
Chandrakant Tyagi Akanksha Patel	B.Tech IV Year ME	Mr. Nirmal Garg Assistant Professor, ME	First	Analysis of Elastocaloric Cooling System based on Tensile loaded SMA Wires
Divyanshu Paliwal	B.Tech IV Year ME	Dr. Umesh Kumar Vishwakarma Assistant Professor, ME	Third	Study of Un-Printing Methods in the Paper Industry

## Anveshna-2019 Competition

Students of Ajay Kumar Garg Engineering College along with school students participated in Anveshna Project Competition during 11-12 February, 2020 at National Bal Bhawan, Delhi.

The competition is a mentor-mentee program on engineering level projects. The projects are developed by engineering college students and two school students (from class VII to Class X) are trained by them on the technologies used and underlying concepts of science.

30 projects from different colleges of North India were presented in the annual competition organized by Agastya International Foundation in association with Synopsis, Noida. The projects were presented to the jury members who were experienced academicians and industry experts by the school students under the guidance of the college students. The jury members judged the projects according to the set benchmarks.

Projects Presented by AKGEC Students				
Project Name	Faculty Mentor	Student Teams	Year and Branch	School Students
Wildfire Prediction And Prevention	Mr Saket Kumar Singh	Prakanshu Sahu Pranjul Itondia Priya Sharma Shivam Bisht	B.Tech II Year CSE	Anjali, Aasmin (Composite School, Ghaziabad)
Water Purification Using Photocatalysis	Dr Sonali Patle	Lakshya Bhardwaj	B.Tech IV Year EC	Krishna, Satyendra (Composite School, Ghaziabad)





## PECFest'19

Team Goonj presented the skit **Gumnaam Hai Koi** in the event Nukkad Natak during PECFest, the annual technical and cultural festival of Punjab Engineering College, during 8-10 November, 2019 and achieved the sixth position. The skit focussed on the misguided youth and portrayed the many mishappenings taking place in the society.



## Spardha'19

Student Prakhar Gupta of II year CSE bagged Gold Medal in Taekwondo (Martial Arts) during Spardha'19 at IIT BHU during 18-20 October, 2020.

## AR Open Program

AKGEC team Dark Knights (**Kishan Baranwal, B.Tech II Year CSE and Deepak Chaurasia, B.Tech II Year IT**) secured position in top 25 teams among 250 shortlisted teams in the AR Open Program organized by the School of Innovation India from Facebook and position in top five teams in the Fashion theme category. 250 teams were selected from 10,000+ teams from all over India on the basis of performance in written, aptitude and interview rounds. The team has also worked with Nykaa Fashion (Branded Fashion Company) as part of their capstone project and made filters, virtual trial room for Nykaa fashion for customers to try on jewellery in real-time.



## Tree Plantation Drive

One Student One Tree is an initiative of Ministry of HRD in line with the idea of Green and Healthy environment. As a responsibility towards Mother Nature and contribution to this initiative, AICTE recommended every institute to carry out a plantation drive-each student should plant at least one tree.

AKGEC students took up the drive with all seriousness in order to restore the eco-balance. The drive was a big success and the College was awarded by AICTE for its participation.

## AKTU Zonal and States Fests

AKGEC participated with full enthusiasm and put up a phenomenal performance during the Dr. A.P.J. Abdul Kalam Technical University Zonal and States Sports Fests and bagged many awards.

As part of Ghaziabad Zone AKGEC also won the **highest number of Gold medals** in AKTU State Sports Fest 2019-20. Ghaziabad Zone has bagged the AKTU State Sports Fest Championship since last 4 years with AKGEC putting in the best performance, every time.



AKTU Zonal Sports Fest 24-26 September, 2019 VIET, Dadri	
Gold Medals	15
Silver Medals	13
Bronze Medals	7
AKTU States Sports Fest 21-23 October, 2019 BBDNITM, Lucknow	
Gold Medals	5
Silver Medals	5
Bronze Medals	5





**AKTU Zonal Cultural Fest  
7-8 February, 2020  
ABES Engineering College, Ghaziabad**

Gold Medals	6
Silver Medals	5
Bronze Medals	3

**AKTU States Cultural Fest  
28-29 February, 2020  
IET, Lucknow**

Silver Medals	2
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**AKTU Zonal Technical, Literary & Management Fest  
8-9 November, 2019  
KNMIET, Modinagar**

Gold Medals	2
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**AKTU Zonal Technical, Literary & Management Fest  
22-23 November, 2019  
Centre of Advanced Studies Lucknow**

Gold Medals	2
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**HCL AI Hackathon**

Team of CSE final year students participated in HCL AI Hackathon held during 2-3 November, 2019 at HCL Lucknow. A total of 150 ideas were submitted of which 25 were shortlisted for the final round, AKGEC team being one of them.

Team	Year and Branch	Faculty Mentor
Sachin Yadav Sagar Gupta Ayush Tiwari Rohan Asthana	B.Tech IV Year CSE	Mr. Vikas Kamra Assistant Professor, CSE

## 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 various categories in the show organized during 28, 29 February & 01 March, 2020. In addition, the college was awarded Runners Up Trophy for overall performance for the second time.



Category	Position
Best Display on Save Water (Rain Water Harvesting Well)	1
Large Tray (not more than size 1-5 meter)	1
Best Garden Maintained by Educational Institute	1
Cactus and Succulents (Entry-I)	1
Collection of Different Varieties of Flowering Perennial Plants	1
Collection of Different Varieties of Fruit Plants	2
Group of Variegated Leaf Plants	2
Collection of Different Varieties of Philodendron	2
Collection of Medicinal Herbs and Spice Plants	2
Collection of any Rare and Uncommon Plants	2
Spot Landscaping at given site for Institutions	2
Collection of Different Types of Pollution Removing Plants	3
Cactus and Succulents (Entry-II)	3





## Personality Development Program

The influence of human personality upon the functional efficiency of an organization and its personnel has been widely recognized. With this philosophy, AKGEC conducts 100 hour mandatory Personality Development Program for its students to groom their personality for a best fit in their forthcoming professional environment. The program conducted through a series of lecture-cum-discussion sessions, group discussions, management games, mock interviews and case studies, is delivered by experts from Advait Life-Education (P) Ltd., an organization run by IIT and IIM alumni for B.Tech II year students. During 2019-20, the program was attended by about 913 students.

## Infosys InfyTQ Program

The college has been running the Infosys Campus Connect Program in association with software industry giant Infosys since 2006. Now, the Campus Connect Program has been upgraded to InfyTQ by Infosys, which is a next-generation learning and engagement platform for engineering students to help them increase their technology quotient and be industry-ready upon completing their graduate studies. Infosys has developed InfyTQ for students to engage closely with the industry while learning technologies that are relevant for the day and for the future. With InfyTQ, students can benefit from the always-on, anytime-anywhere learning catered, through a continuous transfer of digital skills and expertise from the Infosys innovation ecosystem.

The classes, based on Infosys designed curriculum, are conducted by AKGEC faculty from CSE and IT departments on weekends. The program conducted with the objective of developing industry ready professionals covers various modules through class room sessions, lab work, project work, assignments and examination. During the academic year 2019-20, 124 students of B.Tech III year attended the program.

## Mentorship program

In order to promote student linkages and involvement, a mentorship program is conducted semester wise for difficult subjects. Under this program, the outstanding students conduct sessions for the students not performing well. This builds up a sentiment of selfless service and leadership skills within the student community at large. As an incentive, the college gives suitable remuneration to such students. Also, general proficiency marks are enhanced in proportion to degree of participation.

Course Code	Name	Year	No. of Students
<b>Department of Electronics and Communication Engineering</b>			
KEC-302	Digital System Design	II Year	49
KEC-301	Electronic Devices	II Year	49
REC-501	Integrated Circuits	III Year	45
REC-502	Principle of Communication	III Year	45
REC-503	Digital Signal Processing	III Year	45
<b>Department of Electronics and Instrumentation</b>			
KEC-301	Digital System Design	II Year	15
KEC-302	Electronic Devices	II Year	15
REC-501	Digital Signal Processing	III Year	15
REC-503	Integrated Circuits	III Year	15
<b>Department of Electrical and Electronics Engineering</b>			
REE-303	Basic Signals & Systems	II Year	28
REE-501	Electrical Machines-II	III Year	22
KEE 403	Electrical Machine-I	II Year	23
REE 601	Power Electronics	III Year	24
REE 602	Microprocessor	III Year	24

Course Code	Name	Year	No. of Students
<b>Department of Computer Science and Engineering</b>			
KCS-301	Data Structures	II Year	37
KCS-302	Computer Organization and Architecture	II Year	37
RCS-502	Design and Analysis Algorithm	III Year	30
<b>Department of Civil Engineering</b>			
KCE-301	Engineering Mechanics	II Year	20
KCE-303	Fluid Mechanics	II Year	20
RCE-501	Geotechnical Engineering	III Year	38
RCE-502	Design of Structure-I	III Year	40
<b>Department of Information Technology</b>			
KCS-301	Data Structure	II Year	37
KCS-303	Discrete structure and theory of logic	II Year	37
RCS-501	Database Management System	III Year	30
RCS-502	Design and Analysis of Algorithm	III Year	30
<b>Department of Mechanical Engineering</b>			
KME-301	Thermodynamics	II Year	41
KME-302	Fluid Mechanics & Machinery	II Year	41
RME-501	Machine Design-I	III Year	43
RME-502	Heat and Mass Transfer	III Year	43

## Workshops

### Machine Learning

One day workshop on **Machine Learning** was organized by Machine Learning Centre of Excellence under the aegis of Department of Computer Science and Engineering on 27 February, 2020 for IV semester CSE students in association with CetpaInfotechPvt. Ltd., Noida. The resource persons for the workshop were Mr. Kuldeep Dixit and Mr. Rahul Pathak, experts in Machine Learning and Data Analytics.

The key topics covered during theory and hands-on practice sessions included how ML systems change behavior without being explicitly programmed, the key ML & AI technologies that will gain the most market traction, the different methodologies such as Supervised and Unsupervised learning algorithms that are detrimental to make ML models and introduction to python for implementing ML algorithms.

61 students participated in the workshop and explored practical exercises of Machine Learning. Students were awarded Certificates of Participation.





## Entrepreneurship Awareness Camp

IDEA Lab at AKGEC organized a three-day Entrepreneurship Awareness Camp sponsored by DST-NIMAT Project 2019-2020 and under the guidance of Entrepreneurship Development Institute of India, Ahmedabad during 26-28 February, 2020.

Domain experts Mr. Shakeel Ahmad Khan (Entrepreneurship mentor at NSIC) and Dr. Naseeb Ahmad (Coordinator of Entrepreneurship Development Program, PM YuvaYogna) were invited to guide the students about the core and benefits of entrepreneurship. One day industry visit to NSIC Okhla Technical Service Centre was organized to provide more insights of entrepreneurship and training centers to the engineering students.

## Cyber Security

OSS R&D Centre conducted Cypher'20 - a Workshop on Web Security on 29 February & 01 March 2020. The workshop was conducted with the aim to spread awareness amongst students about cyber security paving a way towards building a strong foundation. The workshop mainly focused on ways to secure application and spread awareness about threats in modern technology and ways to prevent them.

Total 72 students participated in the workshop.

## Data Science, Machine Learning and Python

Courses in Data Science, Machine Learning and Python were offered to 30 students from II, III and IV years by Edugrad, an edtech company with competencies in the area of emerging technologies. The courses were offered in online and offline modes followed by live industry projects.

A one day workshop on Machine Learning Tools & Techniques was organized by Department of Information Technology on 28th February, 2020 for IV semester IT students in association with Cetpa Infotech Pvt. Ltd., Noida. The workshop's resource persons were Mr. Kuldeep Dixit and Mr. Rahul Pathak, experts in Machine Learning and Data Analytics.





## Industrial Visits



Industrial Visits			
Organization	Date	No of Students	Department
National Science Centre, Delhi	26 September, 2019	79	EN
Hindustan Prefab Limited Jangpura, New Delhi – 110014	25 September, 2019 26 September, 2019	48 48	EN
National Science Centre, Delhi	16 September, 2019	70	ME
National Test House (NR). Department of Consumer Affairs, Kamla Nehru Nagar Ghaziabad	14 November, 2019 15 November, 2019	51 48	EN
National Science Centre, Delhi	15 February, 2020	60	IT



## CONFERENCES

### Information Technology for Business Transformation (ITBT'19)

6th National Conference on **Information Technology for Business Transformation (ITBT'19)** was organized jointly by Department of Information Technology and Department of Computer Science and Engineering during 8-9 Nov, 2019. The conference was technically sponsored by Institution of Electronics and Telecommunication Engineers (IETE), Computer Society of India (CSI)-Ghaziabad Chapter and Ghaziabad Management Association (GMA).

During the inaugural ceremony Honorable Chief Guest, Mr. Prateek Garg, CEO & MD, Progressive Infotech Ltd., Noida, discussed challenges and opportunities in business life and focused on soft skills development. Guest of Honor, Mr. Anup Kapoor, Vice President and Global Head of Operations, Infosys BPM Noida, emphasized on three pillars in any industry as People, Process and Technology. Key Note Speaker, Dr. Deo Prakash Vidyarthi, Professor, School of Computer and Systems Sciences, JNU, New Delhi, presented the role of technologies in day to day life and discussed current research trends in the field of Information Technology such as cloud, IoT and Data Science. He also depicted some very interesting videos showcasing future of IOT.

The conference received enthusiastic response in the form of large number of research papers, of which 58 papers were selected for presentation and publication in e-proceeding.



## Mechanical and Automation Engineering (MAAE-2020)



Department of Mechanical Engineering AKGEC organized the conference Mechanical and Automation Engineering (MAAE-2020), during 7-8 February 2020. The aim of the conference was to provide a knowledge sharing platform for researchers, academicians and industry personnel. The conference also provided an opportunity to students to get exposed to the culture of academic development and to the field of research and innovation.

Research papers were invited on topics including Unconventional Manufacturing, Automation & Robotics, Product Development and PLM, Non Destructive Testing, Mechatronics, Additive Manufacturing, Flexible Manufacturing System, Concurrent Engineering, Simulation and Modelling and more.

The patrons and organizers were honored to have senior academicians from IITs, NITs and other eminent technical institutions on the Technical and Advisory Board of the Conference.

Air Marsal R.K.S. Shera, PVSM, AVSM, VSM (Retd.), graced the opening ceremony as the Chief Guest, Dr. P.C. Pant, Director, HRD Innovative Projects, Ministry of New and Renewable Energy, was the Guest of Honour and Dr. Rajeev Agrawal, Associate Professor and Associate Dean (Research), Malaviya National Institute of Technology, Jaipur, was the Key Note Speaker. The opening ceremony was attended by Director General AKGEC Dr. R.K. Agarwal, Heads of Departments, Deans, faculty, delegates and the students.

45 papers were received from academicians and researchers from institutions including IIM Kolkata; YMCA, Faridabad; NIT Jamshedpur; Rajkiya Engineering College, Mainpuri; Chhatrapati Shivaji University, Navi Mumbai; Thapar Institute of Engineering and Technology, Patiala and Colleges affiliated to Dr. A.P.J. Abdul Kalam Technical University, Lucknow. 36 papers were selected for presentation and inclusion in e-proceedings after a blind peer review process.

The conference ended with the valedictory function. Certificates and conference CDs were presented to the participants.

## FACULTY DEVELOPMENT PROGRAMS

### Current Research Trends in Artificial Neural Networks

Five day FDP sponsored by Dr. A.P.J. Abdul Kalam Technical University, Lucknow under TEQIP-III scheme was organized by Department of Computer Science and Engineering during 8-12 July, 2019. The FDP on **Current Research Trends in Artificial Neural Networks** 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 50 participants from Manglayam Institute of Engineering & Technology, Greater Noida, Bhagwati Institute of Technology and Science, Ghaziabad, ITS Engineering College, Greater Noida; JSS Academy of Technical Education, Noida; ABES Engineering College, Ghaziabad; IMS Engineering College, Ghaziabad; Raj Kumar Goel Institute of Technology, Ghaziabad and Ajay Kumar Garg Engineering College, Ghaziabad attended the FDP and got benefitted.

Resource Persons			
S.No.	Name	Designation	Affiliation
1.	Dr. Shikha Mehta	Associate Professor	Jaypee Institute of Information Technology, Noida
2.	Dr. Divakar Yadav	Associate Professor	MMM University of Technology, Gorakhpur
3.	Dr. Anuja Arora	Associate Professor	Jaypee Institute of Information Technology, Noida
4.	Dr. Ankit Vidyarthi	Assistant Professor	Jaypee Institute of Information Technology, Noida
5.	Dr. Yamuna Prasad	Assistant Professor	IIT Jammu
6.	Ms. Payal Nair	Counseling and Corporate Head	Cepta Infotech Pvt. Ltd., Noida
7.	Mr. Kuldeep Dixit	Business Developer Manager	Cepta Infotech Pvt. Ltd., Noida
8.	Mr. Pawan Sharma	Sr. Android Expert	Cepta Infotech Pvt. Ltd., Noida
9.	Mr. Vishal Bhatt	Android Expert	Cepta Infotech Pvt. Ltd., Noida

### Additive Manufacturing

Department of Mechanical Engineering organized FDP on **Additive Manufacturing** during 26-30 August, 2019.

The objectives of the program included technical know-how and hands on experience in the recent trends in Additive Manufacturing like FDM, SLS and other areas of industrial automation, enabling innovation in teaching methods, fostering the learning of new skills and knowledge and upgrading the skill set of the faculty in order to include technological advancement.

The sessions were conducted by eminent Professors from reputed Institutes. The speakers shared their valuable knowledge with the participants to enhance their know-how and professional acumen and motivated them to research in the field of Additive Manufacturing (3D Printing).



Speakers	Affiliation
Prof. Pulak Mohan Pandey	IIT Delhi
Prof. Sachin Maheshwari	Netaji Subhash University, New Delhi
Prof. Arshad Noor Siddiquee	Jamia Millia Islamia University, New Delhi
Prof. Vikas Rastogi	Delhi Technological University, New Delhi
Dr. Rajeev Agrawal	MNIT Jaipur

Apart from the class room sessions, the practical exposure was also given to the participants at AKGEC Skills Foundation (ASF) Centres and on the 3-D Printing facilities available in the Department of Mechanical Engineering. A good number of faculty members and research scholars from various Engineering institutes participated and penned down a very encouraging feedback on the FDP.

## Modern Communication Technologies

Department of Electronics and Communication Engineering conducted FDP on Modern Communication Technologies during 13-17 January, 2020. The main objective of the program was to inculcate the fundamental understanding of the concerned subject and to develop the technological capabilities of participants up to the state-of-art of ongoing research activities throughout the globe.



Resource Persons		
Topic	Speaker Name	Affiliation
Trends in Communication in Defense (Focus on RF)	Mr. Amit Tiwari	Project Manager BEL, New Delhi
Optical Wireless Communication: An Emerging Access Technology	Dr. Rahul Kaushik	Assistant Professor, ECE JIIT, Noida
Use cases in IOT	Mr. Sushil Kumar	Deputy Director DOT, New Delhi
Spectrum Management and Cellular Technologies	Mr. Ashok Singh	Senior Research Officer TRAI, New Delhi
Industry 4.0	Mr. Manjit Singh	Former President HFCL, New Delhi
Latest Transmission Technology	Mr. R.C. Singh	Retd. AGM ALTT Centre, Ghaziabad
Joint Source Channel Coding & its Research Aspects	Dr. Richa Gupta	Assistant Professor (Senior Grade) JIIT, Noida
New Radio (NR) and Wireless Broadband Access Techniques	Dr. R. K. Mehrotra	Professor Sharda University Noida
LTE & Challenges	Mr. Sanjay Giri	AGM ALTT Centre, Ghaziabad
Human Values	Dr. Seema Garg	Associate Professor, ECE AKGEC, Ghaziabad

## Power System Operation and Its Control

Five day FDP on Power System Operation and its Control was organized by Department of Electrical and Electronics Engineering during 13-17 January, 2020. The resource persons for the FDP were drawn from leading institutes.



The FDP was participated by 27 faculty members.

Speaker	Topic Delivered
Dr. Mohit Bansal Prof. & HOD (EN) G L Bajaj ITM, Greater Noida	Phase Measurement Unit
Dr. Amit Jain Associate Professor (EE) IIT Delhi	Role of Power Electronics in PSOC
Dr. J.S. Lather Professor (EE) NIT Kurukshetra	DC Micro Grid Scenario in Power System
	Load Frequency Control and Active Power Compensation
Dr. Omveer Singh Professor (EE) Gautam Budh University, Greater Noida	Power System Design
	Voltage Stability and its Compensation
Dr. Pradeep Kumar Assistant Professor (EE) NIT Kurukshetra	Power System Restructuring and Bidding
	Economic Operations of Power System
Dr. M.P. Dave Professor (EE) Shiv Nadar University	HVDC
	Decentralized Power Generation System

## WORKSHOPS ON HUMAN VALUES AND PROFESSIONAL ETHICS

Professional skills alone are not sufficient to achieve excellence, these need to be complemented with the right values for a more disciplined, meaningful and happy life. Proper understanding of human values leads to clarity of life goals and mutual fulfillment of inter relationships.

The AKGEC Value Education Cell, under the aegis of Dr. A. P. J. Abdul Kalam Technical University Value Foundation Cell, organized various workshops on Universal Human Values and Professional Ethics (UHVPE) throughout the year for faculty and students of AKGEC as well as other Colleges.

Date	Workshop Name	Resource Persons	Participants
8 - 15 July, 2019	Student Workshop (level-1)	Dr. Parul Verma AKGEC	70 participants from various colleges affiliated to AKTU
24 - 27 August 2019	Orientation Program UHV-2 (4 Days) under the aegis of VE Cell AKTU	Mr. Gopal Babu AKGEC	50 participants from various colleges affiliated to AKTU
2-12 December, 2019	Refresher Workshop on UHVPE for Deans and Heads	Mr. Gopal Babu AKGEC	Deans and HoDs at AKGEC
11 - 20 January 2020	UHV2 10 days workshop under the aegis of VE Cell, AKTU, Lucknow.	Dr. Kumar Sambhav, UPID Noida	30 participants from various colleges affiliated to AKTU
12 -14 March 2020	Workshop for AKGEC Staff	Mr. Gopal Babu, AKGEC Mr. B N Pandey, AKGEC Dr. R P Singh, AKGEC Dr. Parul Verma, AKGEC	75 Staff Members
24 - 28 February 2020 (Two hours daily in evening)	Student Workshop	Mr. B N Pandey AKGEC	24 Students

AKGEC faculty Mr. Gopal Babu, Dr. Parul Verma, Mr. Shashank Sahu, Mr. B.N. Pandey, Ms Saroj Bala, Dr. Nitya Sharma and Mr. Mayank Kumar Tiwari have contributed as resource persons, facilitators and observers during various UHVPE workshops at other Colleges.

Aiming at personal transformation and through that the evolution of a humane society, AKGEC deputed its faculty to attend 8 day Universal Human Values and Professional Ethics Workshops at various institutes throughout the year.

FDPs attended by AKGEC Faculty Members (2019-20)	
Level-1 Workshop	20
Refresher (8 days) Workshop	09
UHV-2 (10 days) Workshop	07
UHV-3 (10 days) Workshop	14
Madhyastha Darshan (10 days) Workshop	02





Human Values Cell, AKGEC, undertook the initiative of conducting Erudition'20 webinar series during the Covid-19 pandemic. The seminars, followed by quiz competitions based on the broad information gathered during the talk, were well attended and very successful. The winners of the quiz will be awarded cash prizes and certificates on re-opening of the college.

Seminars During Erudition'20		
Topic	Speaker	Date
Holistic Health & Lifestyles	Sh. Vijaypal Baghel, Greenman of India	5 July, 2020
	Dr Sharmila Asthana, a Hyderabad based medico of repute	26 July, 2020

Another important activity conducted by the Human Values Cell during the Covid-19 pandemic consisted of online workshops for various categories of participants. The participants found the workshops very useful and expressed great sense of satisfaction on the contents and conduct of the workshops. Follow up sessions are being conducted by faculty expert in the area.

Workshop	Duration	Participants	Resource Person
Ten days online family workshop for the family members of faculty and staff	5-14 July, 2020	120	Mr. Gopal Babu
Ten days online family workshop for the family members of students, faculty and staff	1-5 August, 2020 12-16 August, 2020	100	Mr. Gopal Babu Dr Parul Verma Mr. BN Pandey



## Conferences

- **Kaur P.**, Wang GG, Singh M., Singh S. **“Rank Aggregation Using Moth Search for Web”**, International Conference on Innovative Computing and Communications. Advances in Intelligent Systems and Computing, vol 1165. Springer, Singapore. [https://doi.org/10.1007/978-981-15-5113-0\\_5](https://doi.org/10.1007/978-981-15-5113-0_5), August 2020.
- Rana A.S., Bedi T.S., **Grover, V.**, **“A new permanent magnet type magnetorheological finishing tool for external cylindrical surfaces having different outer diameter”**, International Conference on Emerging Trends in Mechanical and Industrial Engineering(ICETMIE), North Cap Univerisity,Gurgaon,10-11 October, 2019.
- Rana A.S., Bedi T. S., **Grover V.**,**“Fine finishing of stepped cylindrical workpiece using magnetorheological finishing technique”**, International Conference on Advancements and Futuristic Trends in Mechanical and Materials Engineering, AFTMME, Indian Institute of Engineering and Technology, Ropar, 5-7 December, 2019.
- **Rohit Vashisht**, **“Heterogeneous cross project defect prediction: A survey”**, 2nd International Conference on Futuristic Trends in Network and computing technology (FTNCT-2019), C-DAC, Mohali, 22 -23 November 2019.
- Shivankshi Tyagi, Sukhnandan Malhotra, **Dharmendra Kumar, Vivek Singh Verma**, and Anuj Bhardwaj **“Mammographic image segmentation with modified FCM based clustering algorithm”**, International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2020), JIIT, Noida, 9-11 January 2020.
- **Dharmendra Kumar**, Anil Kumar Solanki, Anil Ahlawat, and Sukhnandan Malhotra **“Medical image segmentation using modified fuzzy c mean based clustering”**, International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2020), JIIT, Noida, 9-11 January 2020.
- **Rohit Vashisht**, **“Handling Class Imbalance Problem in Heterogeneous Cross Project Defect Prediction”**, International Conference On Innovative Computing & Communication (ICICC-2020), 22-23 February 2020.
- **Inderjeet Kaur**, Pragma Pandey, **“Improved MODLEACH with Effective Energy Utilization Technique for WSN”**, 8thInternational Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2020), March5-6,2020.
- **Sonam Gupta**, Bhanu Verma, **Lipika Goel**, **“A Survey on Sentiment Analysis for Depression Detection”**, International Conference on Automation, Signal Processing, Instrumentation and Control-iCASIC-2020.
- **Sonam Gupta**, BhanuVerma, **Lipika Goel**, **“A Neural Network Based Hybrid Model for Depression Detection in Twitter”**, International Conference on Advances in Computing and Data Sciences – ICACDS 2020, April 24-25,2020.
- **Rohit Vashisht**, **“Feature Extraction to Heterogeneous Cross Project Defect Prediction”**, International Conference On Reliability, Infocom Technology and Optimization (ICRITO 2020), 4-5 June 2020.
- **Kumar Naresh**, Khandelwal Vineet, **Simulation of MIMO-FSO System with Gamma-Gamma Fading under Different Atmospheric Turbulence Conditions”** IEEE-International Conference “ICSC-2019” at JIIT, Noidapp. 117-124, 2019, Electronic ISSN: 2643-444X, Print ISSN: 2643-4458, DOI: 10.1109/ICSC45622.2019.8938233
- **Mohan Jitendra**, Chaturvedi Bhartendu, Kumar Atul, **“SIMO Type Voltage Mode Bi-quadratic Multi Function Filter”** International Conference on Signal Processing & Integrated Networks 2019 pp. 478-482, Electronic ISBN: 978-1-7281-1380-7 CD: 978-1-7281-1379-1, Print ISBN: 978-1-7281-1381-4, DOI: 10.1109/SPIN.2019.8711736
- **Chaturvedi Bhartendu**, Mohan Jitendra, Chhabra Jitender, Kumar Atul, **“A Novel Realization of Current Mode First Order Universal Filter”** International Conference on Signal Processing & Integrated Networks", SPIN -2019, at Amity University, Noida pp. 623-627, 2019, Electronic ISBN: 978-1-7281-1380-7 Print ISBN: 978-1-7281-1381-4 DOI: 10.1109/SPIN.2019.8711629
- Tyagi, Shivankshi, Sukhnandan Malhotra, **Dharmendra Kumar, Vivek Singh Verma**, Anuj Bhardwaj. **“Mammographic image segmentation with modified FCM based clustering algorithm”**. In AIP Conference Proceedings, vol. 2214, no. 1, p. 020028. AIP Publishing LLC, 2020



## National / International Journals (2019-20)

- Tsu-Yang Wu, Zhiyuan Lee, Mohammad S Obaidat, Saru Kumari, **Sachin Kumar**, Chine-Ming Chen, “**An Authenticated Key Exchange Protocol for Multi-server Architecture in 5G Networks**”, IEEE Access, Volume 8, Issue 1, pp. 28096-28108, Indexed in SCI, Impact Factor:4.098,ISSN:2169-3536, DOI: 10.1109/ACCESS.2020.2969986
- Shu-Chuan Chu, Lili Chen, **Sachin Kumar**, Saru Kumari, Joel J. P. C. Rodrigues and Chien-Ming Chen, “**A Decentralized Private Information Sharing Protocol on Social Networks**”, Security and Communication Networks, , Volume 2020,pp. 1-12, Indexed in SCI, Impact factor: 1.376, ISSN:1939-0122, DOI: <https://doi.org/10.1155/2020/7137480>
- Wenchao Li, ChuanjieJin, Saru Kumari, Hu Xiong, **Sachin Kumar**, “**Proxy Re-encryption with Equality Test for Secure Data Sharing in IoT-based Healthcare Systems**”, ETT, John Wiley, Early View, Indexed in SCI, Impact factor: 1.258, ISSN: 2161-3915, DOI: <https://doi.org/10.1002/ett.3986>
- **Sonam Gupta**, Abhay Kumar Agarwal, **Lipika Goel**, “**Technologies in Health Care Domain: A Systematic Review**”, International Journal of e-Collaboration, Volume 16, Issue 1, pp. 33-44,ISSN:1548-3673, DOI: 10.4018/ IJeC.2020 010103
- **Jaishree Jain**, Ajit Singh, “**Quantum based Rivest-Shamir-Adleman (RSA) approach for Digital Forensic Reports**”, Modern Physics Letters B ‘MPLB’ unpaid & Peer-Reviewed SCI Journal, Volume 34 Issue 6, pp. 2050085 – 2050091, Indexed in SCI, Impact factor:0.731, ISSN (Print): 0217-9849, ISSN (Online): 1793-6640, DOI: 10.1142/S0217984920500852
- **Jaishree Jain**, Ajit Singh, “**Structure of cloudsim toolkit with cloud**”, International Journal of Engineering and advanced Technology, Volume 8, Issue6, pp. 4644-4649, ISSN:2249-8958, DOI: 10.35940/ijeat.F8918.088619
- **Jaishree Jain**, Ajit Singh, “**Modern with advanced direction in green cloud**”, International Journal of Engineering and advanced Technology, Volume 9, Issue 2, pp. 3090-3095,ISSN:2249-8958, DOI: 10.35940/ijeat.F9184.129219
- **Sachin Kumar**, Rohan Asthana, Shashwat Upadhyay, Nidhi Upreti, Mohd. Akbar, “**Fake news detection using Deep Learning models: A novel approach**”, Transactions on Emerging Telecommunications Technologies, Vol 31, issue 2, pp 1-23, 2020, John Wiley, Indexed in SCI, Impact factor: 1.258, ISSN 2161-3915.
- **Vikas Goel**, Deepali Gautam, Amit Gupta, **Sachin Kumar**, “**An Improvised Indexing Technique for XML Data over Multiple Channels in Wireless Environment: (1, Xm) Method**”, International Journal of Communication Systems, Volume 32, Issue 16, pp 1-19, 2019 John Wiley, Indexed in SCI, Impact factor:1.278, ISSN 1099-1131.
- Renuka, **Sachin Kumar**, Saru Kumari, Chien-Ming Chen, “**Cryptanalysis and Improvement of a Privacy-Preserving Three-Factor Authentication Protocol for Wireless Sensor Networks**”, Sensors ,Volume 19, issue 21, pp. 1-15, 2019, MDPI Publication, Indexed in SCI, Impact factor: 3.031, ISSN 1424-8220.
- Yang Zhao, Xing Zhang, Xin Xie, Yi Ding, **Sachin Kumar**, “**A Verifiable Hidden Policy CP-ABE with Decryption Testing Scheme and its Application in VANET**”, Transactions on Emerging Telecommunications Technologies, November 2019, John Wiley, Indexed in SCI, Impact factor:1.258, ISSN 2161-3915.
- Yanan Zhao, Yingzhe Hou, Yanan Chen, **Sachin Kumar**, Fuhu Deng, “**An Efficient Certificate less Public Key Encryption with Equality Test towards Internet of Vehicles**”, Transactions on Emerging Telecommunications Technologies, December 2019, John Wiley, Indexed in SCI, Impact factor:1.258, ISSN 2161-3915.
- **Sachin Kumar**, Anupam Baliyan, Anurag Tiwari, Aniket Kumar Tripathi, Balram Jaiswal, “**Intelligent Traffic Controller**”, International. Journal of information technology, 2019, Springer.
- **Sachin Kumar**, V. Singh, V. Sharma, V.P. Singh, “**Advance remote user authentication scheme using smart card**”, Telecommunication & Radio Engineering Journal, Begell house Publication, Volume 78, Issue 11, pp 957-971, 2019, ISSN 0040-2508.

- **Arun Yadav**, Jay Kant Pratap Singh Yadav, Divaker Yadav, “**Spatial Ambiguities Optimization in GIR**”, EAI Endorsed Transactions on Scalable Information Systems, Indexed in ESCI, ISSN 2032-9407, DOI: 10.4108/eai.13-7-2018.164556
- Sangeeta Mangesh, **Chopra Pradeep K**, and Saini Krishan K, “**A Trapezoidal Cross-Section Stacked Gate FinFET with Gate Extension for Improved Gate Control**”, International Journal of Advanced Computer Science and Applications, Vol 10(1), pp. 189-194, 2019, Impact Factor: 1.324, Indexed in ESCI, ISSN: 2156-5570 (Online), 2158-107X (Print), DOI: 10.14569/IJACSA.2019.0100125
- **Awasthi Meenakshi**, Nigam M. J., and Kumar Vijay, “**Optimal Sensing and Transmission of Energy Efficient Cognitive Radio Networks**”, Wireless Personal Communication, Springer, pp. 1-12, 2019, Indexed in SCIE, Impact Factor: 1.2, ISSN: 0929-6212 (Print) 1572-834X (Online) <https://doi.org/10.1007/s11277-019-06914-w>
- **Joshi Abhishek**, Singhal Rahul, “**Coaxially Fed Hexagonal Patch Antenna for C- and X-band Applications with Reduced-Ground Plane**”, ECTI Transactions on Electrical Engineering” Pages 136-143 Volume 17, Issue 2, 2019, Indexed in SCIE, ISSN: 1685-9545 <https://ph02.tci-thaijo.org/index.php/ECTI-EEC/article/view/219184>
- **Joshi Abhishek**, Singhal Rahul, “**Vertex-fed hexagonal antenna with low cross-polarization levels**”, Advances in Electrical and Electronic Engineering Pages 138 – 145, Volume 17, Issue 2, 2019, Indexed in ESCI, ISSN 1336-1376 DOI:10.15598/aeec.v17i2.3004.
- **Verma Preeti**, Sharma Ajay K., Noor Arti, Mishra Alok K and Pandey Vinay S, “**A Novel Approach for Noise tolerant energy efficient TSPC dynamic circuit design, Analog Integrated Circuits and Signal Processing**”, Springer, Vol. 100. No. 1, pp. 119-1331, 2019, Indexed in SCIE, Impact Factor 0.592, ISSN: 0925-1030,
- Tonk, Vijay Kumar, Abhijeet Upadhyay, **Pradeep Kumar Yadav**, Vivek K. Dwivedi. “**Mixed MUD-RF/FSO Two Way Dcode and Forward Relaying Networks in the Presence of Co-Channel Interference**”, Optics Communications Volume 464, 2020, Impact Factor 2.125, ISSN: 0030-4018.
- **Kaur Parneet, Sukhwinder Singh Dhillon**, G.G. Wang, J.S. Lather, Lalitesh Kumar (2020), “**Monarch Butterfly Optimized Control with Robustness Analysis for Grid Tied Centralized and Distributed Power Generations**”, Journal of Ambient Intelligence and Humanized Computing, Indexed in SCIE, Springer, 05-May 2020, Journal impact Factor 4.59
- **Verma, Vivek Singh**, Anuj Bhardwaj, and Rajib Kumar Jha, “**A new scheme for watermark extraction using combined noise-induced resonance and support vector machine with PCA based feature reduction**”, Multimedia Tools and Applications 78, no. 16 (2019): 23203-23224.
- **Singh, A. P. & Tomar P.** (2020), “**Green and Smart Technologies for Smart Cities**”, Tomar, P. (Ed.), Kaur, G. (Ed.). (2020). Green and Smart Technologies for Smart Cities (pp. 131-146). Boca Raton: CRC Press, <https://doi.org/10.1201/9780429454837>
- **Singh, A. P.**, Tomar, P. (2019), “**Deployment and Optimization for Cloud Computing Technologies in IoT**”, Management Association, I. (Ed.), Cloud Security: Concepts, Methodologies, Tools, and Applications (pp. 2134-2144). IGI Global. <http://doi:10.4018/978-1-5225-8176-5.ch104>
- **Sushil Kumar**, Rishitosh Kumar Singh and Aryan Chaudhary, “**On the Learning Machine with Amplificatory Neuron in Complex Domain**”, The Arabian Journal for Science and Engineering, Springer, SCI Indexed, Impact Factor: 1.711, 2020
- Shubham Verma, Amit Gupta, **Sushil Kumar**, Vivek Srivastava, & Bipin Kumar Tripathi, “**Resource Allocation for Efficient IOT Application in Fog Computing**”, International Journal of Mathematical, Engineering and Management Sciences (IJMEMS), SCOPUS Indexed, 2020
- Indresh Kumar Gupta, Vikash Yadav and **Sushil Kumar**, “**Medical Data Clustering Based on Particle Swarm Optimization and Genetic Algorithm**”, International Journal of Advanced Intelligence Paradigms, 2019 Vol.14 No.3/4, pp.345 – 358, DOI:10.1504/IJAIP.2018.10015441. ISSN: 1755-0394 ISSN print: 1755-0386

- **N Gangil, H Nagar, R Kumar, D Singh, “Shape memory alloy reinforced magnesium matrix composite fabricated via friction stir processing”,** Materials Today: Proceedings, indexed in SCOPUS (Elsevier), ISSN: 2214-7853, Doi: 10.1016/j.matpr.2020.04.172.
- **YJ Jie, S Kamaruddin, M Mustapha, AN Siddiquee, A Al-Ahmari, ZA Khan, M H Abidi, N Gangil, “Reclamation of steel shots by acid leaching for powder metallurgy applications”,** Advances in Mechanical Engineering, vol. 11, issue 7, pp1-9, 2019, indexed in SCIE (SAGE) ISSN: 1687-8140, IF-1.161, Doi: 10.1177/1687814019866961
- **AN Siddiquee, S Pandey, MH Abidi, A Al-Ahmari, NZ Khan, N Gangil, “Microstructural characterization and in-process traverse force during friction stir welding of austenitic stainless steel”,** Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, Vol. 234, issue 5, pp1031-1043, 2020, indexed in SCI (SAGE), IF- 1.386, ISSN 0954-4062, Doi: 10.1177/0954406219888238
- **N Gangil, AN Siddiquee, S Maheshwari, “Investigation on the in-process traverse force evolution during surface composites fabrication on Al-Zn-Mg-Cu alloy through friction stir processing”,** Materials Today: Proceedings, vol. 25, pp 686-690, 2020, indexed in SCOPUS (Elsevier), ISSN: 2214-7853, Doi: 10.1016/j.matpr.2019.08.062.
- **N Gangil, AN Siddiquee, S Maheshwari, “Investigation on friction stir welding of hybrid composites fabricated on Al-Zn-Mg-Cu alloy through friction stir processing”** Journal of Materials Research and Technology, Vol. 8, issue 5, 3733-3740, 2019, indexed in SCIE (Elsevier), IF- 5.289, ISSN 2238-7854, Doi: 10.1016/j.jmrt.2019.06.033.
- **X Chen, K Liu, W Guo, N Gangil, AN Siddiquee, S Konovalov, “The fabrication of NiTi shape memory alloy by selective laser melting: a review”,** Rapid Prototyping Journal, Vol. 25, issue 8, pp1421-1432, 2019. Indexed in SCIE (Emerald) ISSN: 1355-2546, Doi: 10.1108/RPJ-11-2018-0292.
- **Y Wang, X Chen, SV Konovolov, C Su, AN Siddiquee, N Gangil, J Vaghela, “In-situ wire-feed additive manufacturing of Cu-Al alloy by addition of silicon”,** Applied Surface Science vol. 487, pp1366-1375, 2019, indexed in SCI (Elsevier), IF- 6.182, ISSN: 0169-4332, Doi: 10.1016/j.apsusc.2019.05.068.
- **S. Gothwal, and T. Raj, “A comparative study of multi-criteria decision making approaches for prioritizing the manufacturing systems,”** International Journal of Process Management and Benchmarking, vol.9, issue 3, pp.277-299, 2019. Indexed in SCOPUS (Elsevier), ISSN: 1741-816X.
- **A. Vardhan, “Energy saving analysis of the hydrostatic drives used in the rotary head system of the blast hole drill rig”,** International Journal, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage, vol. 233, issue 5, pp.1086-1097, 2019. Indexed in SCIE, Impact factor: 1.606, ISSN: 0954-4089, DOI: <https://doi.org/10.1177/0954408919836375>
- **A. K. Pandey, A. Vardhan, and K. Dasgupta, “Theoretical and experimental studies of the steady-state performance of a primary and secondary-controlled closed-circuit hydrostatic drive”,** International Journal, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage, vol. 233, issue 5, pp.1024-1035, 2019. Indexed in SCIE, Impact factor: 1.606, ISSN: 0954-4089, DOI: <https://doi.org/10.1177/0954408918821779>
- **A. Vardhan, K. Dasgupta, and S. K. Mishra, “Dynamic analysis of a closed-circuit hydraulic drive system used in the rotary head of blasthole drilling machine using MATLAB-Simulink environment”,** International Journal, Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, Sage, vol. 233, issue 6, pp.702-719, 2019. Indexed in SCIE, Impact factor: 1.101, ISSN: 0959-6518, DOI: <https://doi.org/10.1177/0959651818808870>
- **A. Vardhan, K. Dasgupta, N. Kumar, and S. K. Mishra, “Steady-state performance investigation of open-circuit hydrostatic drives used in the rotary head of drill machine”,** International Journal, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, Sage, vol. 233, issue 1, pp.3-20, 2019. Indexed in SCIE, Impact factor: 1.606, ISSN: 0954-4089, DOI: <https://doi.org/10.1177/0954408917738973>

- **T. Bhardwaj** and M. Shukla, “**Laser Additive Manufacturing-Direct Energy Deposition of Ti-15Mo Biomedical Alloy: Artificial Neural Network Based Modeling of Track Dilution**”, International Journal, Lasers in Manufacturing and Materials Processing, Springer, vol. 7, issue 1, pp. 1 - 13, 2020. Indexed in SCOPUS, ISSN: 2196-7237, DOI:<https://doi.org/10.1007/s40516-020-00117-z>
- **T. Bhardwaj**, M. Shukla, C.P. Paul, N.K. Prasad and K.S. Bindra, “**Direct laser deposition - Additive manufacturing of Ti-15Mo alloy: Effect of build orientation induced surface topography on corrosion and bioactivity**,” International Journal, Metals and Materials International, Springer, vol. 26, pp. 1015 - 1248, 2019. Indexed in SCI, Impact factor: 1.647, ISSN: 2005-4149, DOI:<https://doi.org/10.1007/s12540-019-00464-3>
- **T. Bhardwaj**, M. Shukla, C.P. Paul and K.S. Bindra, “**Direct Energy Deposition-Laser Additive Manufacturing of Titanium-Molybdenum alloy: Parametric studies, microstructure and mechanical properties**”, International Journal, Journal of Alloys and Compounds, Elsevier, vol. 787, pp. 1238 - 1248, 2019. Indexed in SCI, Impact factor: 4.65, ISSN: 0925-8388, DOI:<https://doi.org/10.1016/j.jallcom.2019.02.121>
- **V. Grover**, A. K. Singh, “**Improved design of magnetorheological honing tool based on finite element analysis and experimental examination of its performance**”, International Journal of Advanced Manufacturing Technology, Springer, vol. 100, pp. 1067–1080, 2019. Indexed in SCI Impact factor: 2.496,
- **Dibya Bharti**, M. De, “**Planning Framework for Optimal Resource Utilization Strategy in Microgrid**”, Arabian Journal for Science and Engineering (Springer), Volume 45, Issue 3, Pages: 1927-1947, Jan. 2020, DOI: 10.1007/s13369-019-04310-x (SCIE), impact factor 1.711
- **Sukhwinder Singh Dhillon**, G.G.Wang, J.S. Lather, Kaur, P, Lalitesh Kumar(2020), “**Monarch Butterfly Optimized Control with Robustness Analysis for Grid Tied Centralized and Distributed Power Generations**”, Journal of Ambient Intelligence and Humanized Computing, Springer, 05-May 2020, Journal impact Factor 4.59
- Kumar Lalitesh, Kumar Prawendra, **Dhillon Sukhwinder Singh** (2020), “**A Multiobjective Optimization Approach for LQG/LTR Design**” Journal of Optimal control applications and methods. Wiley, 07-May 2020, Journal IF-1.45
- **Arjun Baliyan**, Majid Jamil, M.Rizwan, “**An Efficient and cost effective configuration of PV System in Smart Grid Environment**”, International Journal of Advanced Science and Technology, Vol. 29, No. 3, (2020), pp. 4263 - 4278
- **Dibya Bharti**, “**Multi-point Optimal Placement of Shunt Capacitor in Radial Distribution Network: A Comparison**”, Accepted & Presented in IEEE Int. conf. on Emerging Frontiers in electrical and electronic Technologies, 10-11th July 2020
- **Vani Bhargava**, S K Sinha, M P Dave, “**Optimum Solar Photovoltaic Generation Placement in Distribution System as Real Power Generator for Loss Minimization Using Analytical Method and Its Economic Analysis**”, Journal of Advanced Research in Dynamical & Control Systems, Dec 2019.
- Akhand Pratap, **Bhupal Singh**, “**Prediction of Heart Disease using Machine Learning for Preventive Healthcare**” **Journal of "International Journal of Advanced Science and Technology"** Vol. 29, No. 4, 2020
- Akhand Pratap, **Bhupal Singh**, “**A Review on Heart Disease prediction using Machine learning**” **Journal of XI'AN University of Architecture and Technology**” Volume XII, Issue III, 2020

## FDPs ATTENDED BY FACULTY

Faculty	Department	FDP / Workshop / Training	Date(s)	Organizer
Dr. J. G. Yadav Dr. Dibya Bharti Dr. Sukhwinder Singh Mr. Harsh Mohan Sharma	EN EN EN EN	FDP on Electric Vehicles: New Trends and Technologies	22-26 June, 2019	ABES Engineering College Ghaziabad
Ms. Anu Gupta	IT	FDP on Deep Learning and Its Application	1-6 July, 2019	JIIT Noida
Mr. Atul Sood	EN	Faculty Training Program Introduction to Basic Electrical Engineering	2-6 July, 2019	IIT Kanpur
Mr. Ruchin Gupta Ms. Yogita Chhabra Ms. Shikha Jain Mr. Gaurav Singh Rawat	IT IT IT IT	FDP on Intelligent Systems and Informatics	8-13 July, 2019	JIIT Noida
Dr. K K Mittal Mr. Neeraj Gupta	ME ME	Training Program on Technical/Engineering Drawing	9-13 July, 2019	IIT Kanpur
Dr. Aviral Misra	ME	FDP on Mechanics of Solids (MOS-2019)	15-19 July, 2019	KIET, Ghaziabad Under TEQIP-III
Mr. V K Pansari Dr. V Grover	ME ME	Workshop on Manufacturing for Industry 4.0	15-19 July, 2019	IIT Ropar
Mr. DilipKumar	ME	FDP on Solar Energy – A Sustainable Future	15-19 July, 2019	IPEC, Ghaziabad Under TEQIP-III
Dr. Namrata Gupta	ME	Seminar on Emerging Trends in Welding Technology and Welding Education	9 August, 2019	School of Engineering, Jawahar Lal Nehru University, New Delhi
Ms. Dibya Bharti	EN	NPTEL-AICTE FDP	July-September, 2019 (One week)	Online
Mr. Abhishek Tiwari	EC	Training on Broadband Network Security: Challenges and Solutions	26- 30August, 2019	ALTTC, Ghaziabad
Ms. Anubha Gupta Ms. Shikha Mittal Dr. Sarika Kalra Mr. Ritesh Yadav Ms. Suvarna Mujumdar Mr. Ritesh Yadav	CE CE EN EN EC ME	FDP on Additive Manufacturing	26-30 August, 2019	Ajay Kumar Garg Engineering College, Ghaziabad
Ms. Shilpi Gupta	IT	MDP on Design Thinking	6-8 September, 2019	IIM, Lucknow
Dr. Rakesh Srivastava	CE	One day talk in on "Concrete Day Celebration"	7 September, 2019	Indian Concrete Institute, Western UP Centre
Dr. Pratima Singh Ms. Jaishree Jain	CSE CSE	FDP on Data Analytics with Python	7-11 September, 2019	IIT Kanpur
Dr. Sushil Kumar Mr. Ruchin Gupta	IT IT	FDP on Data Analytics with Python	7-11 September, 2019	IIT Kanpur
Dr. B. K. Singh Ms. Atri Tyagi	IT CE	Faculty Training Programme on "Condition Assessment and Retrofitting of Civil Engineering Structures for Operational and Extreme Loads".	21-25 October, 2019	IIT Kanpur
Mr. Pradeep Jain	ME	Faculty Training Program (Skill up-gradation) on Product Realization using 3D Printing	28 September– 2 October, 2019	IIT Kanpur
Ms. Yogita Chhabra	IT	QIP on Short Term Course Research Communication	2-6 December, 2019	IIT BHU
Ms. Vani Bhargava	EN	Power Electronic Converters in Grid Integration of Renewable Energy Sources	27-31 December, 2019	MNIT, Jaipur
Ms. Anubha Gupta	CE	FDP on ICT Applications in Project Management	13-17 January, 2020	Entrepreneurship Development Cell - Electronics & ICT Academy, IIT-Roorkee at IPEC, Ghaziabad, U.P.
Dr. Pallab Biswas Dr. Neelesh Kumar Gupta Ms. Richa	ME EC EC	Workshop on Outcome Based Education and NBA Accreditation	29-30 January, 2020	AKTU at Noida Campus.

Faculty	Department	FDP / Workshop / Training	Date(s)	Organizer
Mr. Nirmal Garg	ME	Education Professional's Development Program on Entrepreneurship Course Curriculum Design, Development and Teaching	21-23 February, 2020	EDII Ahmedabad, Gujarat
Mr. Dushyant S. Chauhan Mr. Neeraj Sharma	EC EC	Seminar on Vigyan Samagam- a mega science exhibition	25 February, 2020	National Science Centre, New Delhi
Mr. Dushyant S. Chauhan	EC	Workshop on IoT	17 April, 2020	CII-TATA Communication, New Delhi
Mr. Atul Sood	EN	Faculty Training Program on Introduction to Basic Electrical Engineering	2-6 July 2020	IIT Kanpur
Prof. I P Sharma Prof. P.K. Chopra Prof. Sunita Yadav Prof. Mamta Bhusry Prof. S.L. Kapoor Prof. Bhupal Singh Prof. Anu Chaudhary Prof. Devender Singh Prof. Rakesh Srivastava	ME EC CSE CSE AS&H EN IT ME CE	Online Workshop on Examination Reforms	29 April – 3 May, 2020	AICTE

## GUEST LECTURES

Topic	Speaker	Date	Department
Wireless Access Technologies	Mr. Ashok Singh Senior Research Officer, TRAI, New Delhi	31-07-2019	EC
Industry Project- Selection, Execution and Reporting	Mr. Yogen Chawla Director, Vareya Consulting Services Pvt. Ltd.,	07-08-2019	IT
Microwave & its Application	Mr. Amit Tiwari Project Manager, BEL, New Delhi	08-08-2019	EC
Tool and Techniques used in Software Requirement Analysis	Mr. Pramod Kumar Shukla Business Analyst BT Data and Servyaing India Pvt. Ltd., Noida	26-08-2019	CSE
Serverless Programming	Mr. Vishal Vinayak Majumdar Sapient Specialist Technology	18-09-2019	IT
Entrepreneurship Awareness Camp-2 under DST NIMAT 2019-20	DST NIMAT 2019-20	26-09-2020	CE
5G & Beyond	Mr. Manjit Singh Former President HFCL, New Delhi	27/09/2019	EC
Data Science and Its Application in Emerging Technology	Mr. Mridul Bhardwaj Program Manager, HCL Technology, Noida	30-09-2019	CSE
TCS Product Demonstration on education tool, Feedback - Introducing Smart Generation of Today to a Smarter Way of Learning	Mr. Surya Ganguly Portfolio Manager, TCS	03-10-2019	IT
Solar Energy and Industry Scenario	Mr. Ashutosh Sharma Director, Ampress Energy Solutions, Greater Noida	16-10-2019	EN
Energy Management	Mr. Tarun Kumar Kushwaha Manager, Enking International, Gautam Budh Nagar, UP	18-10-2019	EN

Topic	Speaker	Date	Department
Duck Creek Technologies	Mr. Anuj Kumar NIIT Technologies, Greater Noida	22-10-2019	CSE
Industrial Automation	Ms. Esha Varshney Assistant Manager, Mistubishi, Gurugram	22-10-2019	EN
PV Technology & Game Changer	Mr. Atul Jain	22-10-2019	EC
Introduction to Data Science	Mr. Arjun Bandhan Data Scientist, Port Learn Analytics, Delhi	19-11-2019	CSE
Latest Transmission Technology	Mr. Nikunj Goel Asst. Director, ALTTC, Ghaziabad	20-11-2019	EC
Next Generation Mobile Communication: 5G Networks	Mr. Sanjay Giri Asstt. Director, ALTTC, Ghaziabad	28-1-2020	EC
Industry Readiness for Graduate Engineer	Mr. Arun Prakash Bhattacharjee GM, Quality for DG and Panel Division Sterling Generators	13-02-2020	ME
Declutter	Gp Capt Ashok K Chordia (Retd) IAF	20-2-2020	ME
Future Spectrum Regulations	Mr. Ashok Tomar Sr. Research Officer, TRAI, New Delhi	27-2-2020	EC
Fibre Reinforced Composite	Dr. Pramendra Kumar Bajpai Assistant Professor, Division of Manufacturing Processes and Automation, Netaji Subhash University of Technology, Dwarka, New Delhi	22nd Aug 2019.	ME
Thermal Power Plant - New Challenges	Mr. Alok Kumar Srivastava Senior Manager, NTPC (Ex. Scientist ISRO)	12th Sep 2019	ME
Artificial Intelligence	Dr. Umang Soni Assistant Professor Netaji Subhas University of Technology, Dwarka, New Delhi	27th Sep 2019	ME



## STAFF DEVELOPMENT PROGRAMS

Title	Department	Date	Resource Organization / Person
Design and Simulation of Circuits & Systems using Tools in ECE Laboratories	EC	06-10 July, 2020	Design Tech Systems Ltd. New Delhi, EC Department Faculty
Python Programming Language	CSE	02-07 July, 2020	Dr. Pratima Singh Associate Professor Mr. Akhilesh Kumar Assistant Professor Mr. Binayak Parashar Assistant Professor
Introduction to Electrical Machines	EN	22-26 June, 2020	Dr. Sarika Kalra Assistant Professor Ms. Vani Bhargava Assistant Professor
Introduction to Control Systems	EN	22-26 June, 2020	Mr. Deepak Narang Assistant Professor Ms. Nupur Mittal Assistant Professor
Introduction to Power Electronics	EN	22-26 June, 2020	Mr. Mahendra Dutt Assistant Professor Mr. Arjun Baliyan Assistant Professor
Introduction to Circuit Analysis	EN	22-26 June, 2020	Mr. Atul Sood Assistant Professor Ms. Navjyoti Sharma Assistant Professor
C and Python Programming Language	IT	13-18 July, 2020	Dr. Jitendra Kumar Seth Associate Professor Dr. Aditya Pratap Singh Assistant Professor Mr. Pardeep Assistant Professor



## New Additions to the AKGEC Family

S. No.	Name	Designation
<b>Department of Electronics and Communication</b>		
1	Dr. Meenakshi Awasthi	Associate Professor
2	Dr. Preeti Verma	Assistant Professor
3	Dr. Kousik Midya	Assistant Professor
4	Dr. Abhishek Joshi	Assistant Professor
5	Dr. Ruchi Varma	Assistant Professor
6	Dr. Jyoti Gupta	Assistant Professor
7	Ms. Amita Asthana	Assistant Professor
<b>Department of Computer Science and Engineering</b>		
1	Ms. Jaishree Jain	Assistant Professor
2	Ms. Monika Agarwal	Assistant Professor
3	Ms. Priyanka	Assistant Professor
4	Mr. Pradeep Jain	Assistant Professor
5	Ms. Prachi Pundhir	Assistant Professor
<b>Department of Information Technology</b>		
1	Dr. Parneet Kaur	Assistant Professor
2	Mr. Pardeep	Assistant Professor
<b>Department of Electrical and Electronics Engineering</b>		
1	Dr. Dibya Bharti	Assistant Professor
2	Mr. Arjun Baliyan	Assistant Professor
3	Mr. Shani Kumar Pandey	Assistant Professor
4	Mr. Ritesh Yadav	Assistant Professor
<b>Department of Civil Engineering</b>		
1	Dr. B.K. Singh	Professor
2	Mr. Mudit Mishra	Assistant Professor
3	Mr. Atri Tyagi	Assistant Professor
4	Mr. Puneet Pathak	Assistant Professor
<b>Department of Mechanical Engineering</b>		
1	Mr. Alok Vardhan	Assistant Professor
2	Ms. Priyanshu Sharma	Assistant Professor
3	Dr. Tarun Bhardwaj	Assistant Professor
4	Mr. Anshul Kumar Panchbhaiya	Assistant Professor



**TEAM CONATUS**, the Computer Science and Information Technology Society, launched the 20th edition of CONOSCENZA, the tech torrent that addresses the applied and theoretical issues of the technical field, on 5 November, 2019. The celebrations were attended by HOD CSE, HOD IT, faculty coordinators and the members of the team.

The society conducted C Programming classes for II year lateral entry students of CSE and IT branches after college hours during August and September 2019. The aim of the classes was to brush up C programming concepts for the lateral entry students who take admission directly into second year and generally tend to lag behind.

Team Conatus organized its annual event **Conquest of Dayne** during 3-4 March, 2020. The two day event attracted about 500 participants in groups of two from all years and branches. Day 1 included field based activities and Day 2 comprised of lab based problems.

Design and Development Activities		
Development of Scrolls 2019 App	Sparsh Guota	B.Tech III Year CSE
Development of Saksham 2019 App	Shikhar Agarwal	B.Tech III Year IT
Development of CONATUS App	Conatus Development Team	
Design of Saksham 2019 Flex	Conatus Design Team	
Management of CS/IT Domain during SCROLLS 2019	Conatus Technical Team	





**Team Phoenix**, the Electronics and Communication Engineering Society, conducted the event **Desotrix 3.0** during 8-9 August, 2019. The event was conducted in two rounds – the first round based on technical riddles and puzzles and the second round comprising of circuit designing and circuit debugging.

A twenty hour course on **Internet of Things (IOT)** was conducted by the Society to impart necessary and practical knowledge of components of IOT and to develop skills required to build real life IOT based projects. 30 students from ECE department participated in this course.

Phoenix conducted workshop **ROBOVERSE**, an annual workshop on manual and autonomous robots, on 1 March, 2020 with an emphasis on basic knowledge of manual and autonomous robots. A basic idea of microcontrollers (Arduino UNO) and embedded C was also provided. The workshop witnessed ample participation from first-year students and they participated in the workshop with all zeal and enthusiasm

A **project exhibition**, an assembly line of the projects made by students, was also set up.



TEAM OORJA, the Electrical Engineering Society of the College, organized event **Effulgence** on 8 November, 2019. The team event was conducted in three rounds – a Questionnaire Round comprising of questions from domains like Science, Riddles and Netflix, Murder Mystery Round comprising of three questions related to Murder Mystery and pictorial information to be solved within minimum time and the Working Model Round to build functional model using the given set of components in minimum time. A total of 80 participants participated in the event.

Winners - Effulgence		
Position	Team Members	Branch
First	Siddhant Singh Sneha Gupta Shubham Verma	EN EN EN
Second	Jai Prakash Narayan Pandey Aishwarya Pratap Singh Ashutosh Pandey	EC EC CS
Third	Yash Singh Aanchal Chaurasia	EC CS



NIRMAAN, the society of Civil Engineers of AKGEC, conducted event **Technozaree** during 17-18 October, 2019. The first round of the event was Treasure Hunt in which various clues were laid down all over the campus to find the treasure. Top 10 winning teams from the 125 teams participated in the second round based on 3-D Printing competition.

Winners Technozaree	
Name	Branch
Shivansh Singh	B.Tech III Year
Adarsh Kumar Gupta	B.Tech III Year
Aaditya Yadav	B.Tech I Year



**SAE (Society of Automotive Engineers) INDIA COLLEGIATE CLUB AKGEC** conducted organized two day workshop **AACAR 7.0** during 29 February and 01 March, 2020. The workshop aimed at making students aware about the various components and driving elements of an automobile. The first day of the workshop on awareness on automobiles was conducted in the main seminar hall and the second day, an open engine haul was conducted by the students of SAE India Collegiate Club at the college mechanical engineering workshop.

The society organized two day workshop **Innovacion 2020** during 1-2 February, 2020. The workshop aimed at making students aware about the possibilities that exist with the micro-controllers (Node MCU) and to encourage them to think, create and be the change maker. Live demonstration and hands on experience on microcontroller (Node MCU) were facilitated during the workshop. The students were also introduced to the concepts of Raspberry pi3 and IOT.



**ISTE Student Chapter AKGEC** organized the event **EXQUIZITE** on 5 February, 2020. A total of 72 teams and almost 144 students took part in the event with great zeal and enthusiasm and helped make this event a grand success. Great enthusiasm and dedication were reflected by the students in their participation.

**Team Footprints**, the Art and Cultural Society of the College, organized the annual **Anti-Ragging and Anti-Drug Poster Making Competitions** on 9 August, 2019 with the twin purpose to sensitize students towards the social evils of ragging and drug addiction and also provide them the opportunity to portray their talent in creative arts and painting. A total of 140 teams of almost 430 students took part in the event and portrayed their brilliant ideas with the most vibrant colours and helped make this event a grand success.

With a motive to encourage students to step forward and donate blood, **Team Footprints** organized **Blood Donation Poster Making Competition** on 02 March, 2020. Selected posters were displayed in the college exhibition arcade and were well appreciated by the guests and the AKGEC family.



**GOONJ**, the dramatic society of the College, **TAAL**, the dance society, **EUPHONY**, the music society and **VERVE**, the fashion society actively performed during the year in various college events. The societies participated with stupendous performances in various events during the AKTU Zonal and State level fests as well as in fests in other colleges throughout the year and won laurels for the College by securing positions in various competitions.



## TECHNICAL CLUBS AND STUDENT CHAPTERS

**Programming Club**, under the aegis of Department of Computer Science and Engineering, organized coding contest **Sacred Codes** on 28 September, 2019. The contest was organized on Code Chef Online Programming platform. About 100 students participated in the contest, of which 63 students qualified. Top four students were awarded cash prizes and certificates.

**Communication Club**, under the aegis of Department of Electronics and Communication Engineering, conducted project on **Office Automation** which has been completed in November 2019. The devices/appliances in this project have automated control through the smart phone. Aurdino Uno and Raspberry-Pi are the key platforms behind the project.

The students also prepared a chart on CHANDRAYAAN-2 covering all the technical details associated with the CHANDRAYAAN-2 in a comprehensive manner under the theme of Indian Space Mission.

The **Electronics Club**, under the aegis of Department of Electronics and Communication Engineering, conducted lecture and hands on training on **Introduction to Front End Design and Hands-on training on Introduction to Linux based Cadence Tool and Analog and Digital Layout Design.**

**OSS R&D Centre**, under under the aegis of Department of Computer Science and Engineering, conducted **Code-O-Fiesta 2019** – an Online Coding Contest on 26 September, 2019 in association with CodeChef. Total 43 teams (69 Students) participated in the event. A set of 5 questions were given to the candidates to solve within the time limit (2 hours) and teams were ranked by CodeChef on the basis of marks and the time engrossed to solve the problem.

Winners	
Student Name	Year and Branch
Harshit Chaudhary	B.Tech II Year CSE
Karan Yadav	B.Tech II Year CSE
Rajat Pal	B.Tech IV Year CSE
Suyash Srivastava	B.Tech IV Year CSE



**Computer Society of India (CSI) AKGEC Student Chapter** conducted 12 day **workshop on Node Js with MongoDB** during 12-28 September, 2019. The classes, attended by 40 students, were conducted by CSI-AKGEK student chapter members. The contents of the workshop included the basics of web designing i.e. HTML5, CSS, JavaScript, the various uses of Node JS as a backend building framework, its associated libraries and application with practical examples and database building using MongoDB. The workshop concluded with a MCQ test on the last day.





**Cloud Computing Cell**, under the aegis of Department of Information Technology, conducted event **Quizard** during 22-23 October, 2019. The event was conducted in two rounds – the first round consisted of testing the participants on web series on a mobile app developed by Cloud Computing Cell and the second round was based on the questions related to aptitude, programming and puzzles. The top three winners were awarded with cash prizes.

Winning Teams	
Utkarsh Srivastava	B.Tech IV Year CSE
ShresthJauhari	B.Tech IV Year CSE
Vibhas Saxena	B.Tech III Year CSE

**Big Data Centre of Excellence**, under the aegis of Department of Information Technology, conducted the event **Abhyantriki** – an intra college 48 hour Hackathon during 16-17 November, 2019.



The sole purpose of Abhyantriki was to create awareness about the vital technical skills needed for the students to help them for participating in National Level Hackathons in the future. Abhyantriki provided a platform where the students were motivated and guided by the members of BDCoE in making their projects.

**Abhikalp: The Designing Crew**, is the club run under the flag of SAMVEG, the technical society of Mechanical Engineering. The club conducted **CAD classes** for second year students which included AUTOCAD, SOLIDWORKS & STAAD.PRO during **12th September to 4th October 2019**. An objective and practical test was conducted after completion of classes. Test was divided into two sections - Aptitude Test and Designing Test, both having 20 and 80 marks respectively and total of 100 marks. Every participant performed their best and finally concluded the test with these best three scorers.

Winners		
Name	Branch	Position
Harshit Chahal	B.Tech II Year CE	1st
Ayush Dogra	B.Tech II Year ME	2nd
Vivek Kumar	B.Tech II Year CE	3rd
Mohit Kumar	B.Tech II Year ME	3rd

Mentors for AutoCAD Classes		
Name	Branch	Year
Abhinav Singh	CE	B.Tech III Year
Dhananjay Singh	ME	B.Tech III Year
Dipanker Varshney	ME	B.Tech III Year
Kapil	ME	B.Tech III Year
Vashu Dwivedi	ME	B.Tech III Year



## ANTI RAGGING MEASURES



Like previous years this year too, **Anti Ragging Campaign** at AKGEC began with launch of air balloon with Anti Ragging Message above college complex.

Anti Ragging Awareness among senior students began with the annual **KIRAN (Kaho India Ragging Aur Nahin)** program. The Proctor of the college addressed all 2nd, 3rd & 4th year students between 19 July, 2019 to 27 July, 2019 mentioning the ills of ragging and provision of strict punishment for any kind of involvement in ragging activities. Various provisions of ragging, as laid down by UGC and AICTE, were explained. Video clips available on UGC site were also shown to the students. Students were also educated on ills of drugs.

To infuse a mood of no ragging in the college, the annual **Anti Ragging Kite Flying** event was organized in the College Football Ground on 28 August, 2019. Kites of various colors and sizes were seen flying high in the sky. Students whose kites flew the highest were appreciated by the Director General by presenting the college T-shirt and cap.





## INDUCTION PROGRAM

As per guidelines laid down by AICTE and AKTU, a three week **Induction Program** was organized for all first year students during 01-22 August, 2019. Various activities including PT, sessions on Human Values and Literary and Arts sessions were conducted during the Induction Program. Lectures on important and relevant topics like Sanskar, Nationalism and Time & Stress Management were organized. Sessions on Art of Living were provided to the students by the Art of Living Foundation for two hours daily during the Induction Program. The first year students visited all the departments, college facilities and the Faith Centre.

**Anti Ragging and Anti Drug Poster Making Competitions** were planned on 30 August, 2019 for all first year students. Selected award winning posters were displayed in college exhibition arcade.

The Induction Program was followed by **Students Enhanced Learning Program (SELP)** during 26-31 August, 2019 wherein the students experienced a comprehensive exposure to the various Centres of Excellence in the College. It was a good learning for the students and opportunity to identify what they could learn and develop skill in during the four years of stay at AKGEC.



## TALENT SEARCH PROGRAM

A full day **Talent Search Program** for all first year students was conducted under supervision of Proctor, Dean Hostels and faculty members. The program provided the newly admitted students a platform to showcase their talent and facilitated the college cultural societies to identify the talented lot for college activities and outside participations. The students were engaged for the whole day with College Band Euphony, Dance Society Taal, Dramatics Society Goonj and Fashion Society Verve.



## FRESHERS' PARTY

Pulsating ambience, flashing lights and foot tapping music marked the dawn of **SAHASRA' 2019** - The Freshers' Party newly admitted students on 30 September, 2019. The excitement inflated to a high as performances graced the stage. Joy and happiness could be seen on the faces all around.

The evening gave room to the newcomers to build a rapport with their batch mates, seniors and faculty and become part of the AKGEC fraternity. Dr. R.K. Agarwal, Director General, AKGEC, welcomed the young energy in the clan and inspired them to put in their best for a happy, successful and prosperous life ahead.

The celebration started with ice-breaking fun activities followed by ramp walk and questionnaire round for the contestants for the alluring titles. The winning students were

honored by the Director General with awards and sashes.



Mr. & Ms. Fresher	Kartikey Verma & Anushree Gupta
Mr. & Ms. Personality	Aditya Mishra & Parul Choudhary

Blissful gestures, flickering faces, enthralled beats of dance floor and sumptuous dinner were the defining moments of the evening.



## SCROLLS-2019

The twelfth edition of SCROLLS (**Students' Creative and Oratory Learning Skills**), an annual National level technical paper presentation competition, was organized by Ajay Kumar Garg Engineering College in association with Ghaziabad Management Association on 23 October, 2019.

The event witnessed enormous participation from around 40 colleges including AKGEC, RKGIT, IGDTUW, HIMS, CERT etc having a total of 105 synopsis and 273 participants in six domains to be presented in the main event.

The event commenced with the opening ceremony and was elevated with the esteemed presence of Chief Guest, Dr. Rakesh Chharia, President GMA, Dr R.K. Agarwal, Director General, AKGEC and Guest of Honor, Sh. Vinay Gupta, Executive Director, GMA.

The presentations were fluently executed in respective venues, with erudite judges assessing the participants according to their creativity, ingenuity and communication skills.

Based on the judges' evaluation, winners were announced and awarded with merit certificates and cash prizes worth a total of Rs. 54,000; Rs.4000 for the first position, Rs. 3000 for the first runner up and Rs. 2000 for the second runner up in each domain.



WINNERS		
Position	Participants	College
<b>Computer Science &amp; Information Technology</b>		
First	Damak Kapoor	IGDTUW
First Runner Up	Shruti Jain Vishal Tyagi	RKGIT RKGIT
Second Runner Up	Nidhi Upreti Rohan Asthana Shashwat Upadhyay	AKGEC AKGEC AKGEC
<b>Electronics &amp; Communication Technology</b>		
First	Devansh Mittal Harsh Varshney Akash	AKGEC AKGEC AKGEC
First Runner Up	Shubhaksh Kumar Mansi Singh Disha Srivastava	HIMSR RKGIT RKGIT
Second Runner Up	Shruti Parashar Pratham Jadoun	ABES ABES
<b>Electrical &amp; Electronics Communication Technology</b>		
First	Utkarsh Dwivedi Mahima Baghel	AKGEC AKGEC
First Runner Up	Mohit Singh Malay Joshi	AKGEC AKGEC
Second Runner Up	Vishal Pandey Harsh Vardhan	AKGEC AKGEC
<b>Mechanical Engineering</b>		
First	Utkarsh Dwivedi Faraaz Asad Fahad Akhtar	AKGEC AKGEC AKGEC
First Runner Up	Anshika Ishita Rai	AKGEC AKGEC
Second Runner Up	Uday Chakrawal Sumit Dagar Tanushree	AKGEC AKGEC AKGEC
<b>Civil Engineering</b>		
First	Shashank Garg Shreyanshi Singh Akshat Saxena	AKGEC AKGEC AKGEC
First Runner Up	Apoorv Maheshwari Siddharth Samanta Aryan Agarwal	AKGEC AKGEC AKGEC
Second Runner Up	Kumar Gaurav Srivastava Piyush Mishra	RKGIT RKGIT
<b>Management Science</b>		
First	Ishita Agarwal Akansha Nagar MayankJha	AKGIM AKGIM AKGIM
First Runner Up	Ayush Rana Molshree Gupta	AKGEC AKGEC
Second Runner Up	Shubhaksh Kumar Mansi Singh Disha Srivastava	HIMSR RKGIT RKGIT

## AICTE Workshop on Students Induction Program (SIP)



Ajay Kumar Garg Engineering College, on behalf of AICTE, organized two day workshop for the resource persons of three week Students Induction Program (SIP) to be conducted for B.Tech first year students. The SIP, as per guidelines of AICTE, is primarily to make the students comfortable in the new environment and expose them to various facets of life, with emphasis on holistic approach towards life in the light of Universal Human Values. The objective of this workshop, conducted during 28-29 September, 2019, was to contemplate and strengthen the process and contents of SIP and its effectiveness by virtue of the methods and procedures adopted so far.

The event commenced with the inaugural ceremony graced by eminent functionaries from AICTE & National Coordinator Committee-Induction Program (NCC-IP) - Prof. Rajive Kumar, Member Secretary AICTE; Dr. Manoj Tiwari, Regional Officer NRO-AICTE; Prof. Rajneesh Arora, Chairman NCC-IP and Dr. Shishir Gaur, Convener NCC-IP.

Dr. R.K. Agarwal, Director General AKGEC (Host College) welcomed all the dignitaries and 88 delegates from AKTU

affiliated colleges and seven different states as participants of the workshop. In his address, he emphasized value based education for developing holistic perspective and a way of living for the well-being of all. He offered AKGEC resources to be put at the complete disposal of AICTE and NCC-IP for implementation of Universal Human Values and Student Induction Programs at all India level.

Prof. Rajneesh Arora projected that the focus of the two day workshop was to review the SIP program and to discuss ideas and proposals for refinement of the program. He expressed his happiness that AICTE has got this scheme implemented on a pan India level in all engineering colleges.

Prof Rajive Kumar, in his address, expressed that AICTE is committed to a full time support in any form and all financial help for effective implementation of the program.

Dr. M.P. Ponia, Vice-Chairman, AICTE also graced the event little late in the afternoon and held a meeting with Director, AKGEC and all the functionaries of AICTE & NCC-IP.



## 23<sup>rd</sup> AJAY KUMAR GARG MEMORIAL TABLE TENNIS TOURNAMENT

AKGEC organized the 23rd edition of the prestigious annual sports event Ajay Kumar Garg Memorial Table Tennis Tournament under the aegis of Ghaziabad Association of Table Tennis GATT affiliated with Uttar Pradesh Table Tennis Association (UPTTA) in the college during 05-06 November, 2019. This State level tournament is held every year for all professional institutes, colleges and schools of the State.

The tournament was participated by 35 teams with a total of 250 participants form various cities including Gorakhpur, Varanasi, Roorkee, Bareilly, Moradabad, Meerut, Muzaffarnagar, Agra, Noida, Gautam Buddha Nagar and Ghaziabad. Participation by State and National level players raised the level of the game to high standards during the tournament.

The tournament was a huge success as young players mesmerized everyone with their skilful game. The winners cherished their moments while others vowed to come back stronger next year.

Adding to the grandeur, the closing ceremony on 06 November, 2019 was presided over by Shri Sudhanshu Grover Ji, who is well known Table Tennis Player and Gold Medallist in senior category during South Asian games as is indicated through his various achievements at State, National and International level. Honourable Management members, Director General, Heads of Departments, Deans, Section Incharges, faculty, staff and students of AKGEC along with members of Ghaziabad Table Tennis Association witnessed the prize distribution ceremony, wherein total prize money of Rs 75,000/- besides trophies and certificates, was presented to the winners.

WINNERS	
Category	Team Members
Men's Team	Akshat Tyagi (BBPS Noida) Vansh Singhal (BBPS Noida) Shitij Dahiya (BBPS Noida) Ashish Jain (BBPS Noida)
Women's Team	Kashvi Dixit (T-SPARTANZ) Kavya Yadav (T-SPARTANZ)
Men Single	Akshat Tyagi (BBPS Noida)
Women Single	Suhana Narjinary (Moradabad)
Youth Boys	Akshat Tyagi (BBPS Noida)
Youth Girls	Suhana Narjinary (Moradabad)
Junior Boys	Akshat Tyagi (BBPS Noida)
Junior Girls	Suhana Narjinary (Moradabad)
Veteran Men	Hemant Dagar (Noida)
Veteran Women	Preeti Sharma (Ghaziabad)



## Internal Smart India Hackathon (SIH) 2020



Smart India Hackathon(SIH) - 2020 is a nationwide initiative of the Ministry of HRD and AICTE to provide students a platform to solve some of the pressing problems that we face in our daily lives and thus inculcate a culture of product innovation and a mindset of problem solving. SIH provides students the opportunity to work on the challenges faced within various ministries, departments, industries, PSUs and NGOs to create optimal solutions.

SIH 2020, the fourth edition of the Hackathon, requires all participating institutions to conduct an internal Hackathon, both in software and hardware domains, for short listing the teams for the final round.

The AKGEC internal SIH, conducted on 20 January, 2020, was participated enthusiastically by 20 teams in the software domains and 8 in the hardware domain.

The innovative ideas and unorthodox solutions to various problems were evaluated by a panel of judges including Mr. Kulmani Gupta, Managing Director, Shristhi Softech Solutions (P) Ltd., Mr. Ajay Bandhu Saksena Founder and CEO Samarth Mechatronics (P) Ltd. and senior faculty from engineering departments at AKGEC.

The teams were judged on the basis of the novelty of the idea, complexity, clarity, feasibility, practicability and sustainability of the solution, potential for future work progression and presentation and communication skills.

Seven teams-five in software domain and two in hardware domain, were selected for participation in the final round of SIH 2020.

The opening ceremony for the SIH was graced by the presence of Mr. Kulmani Gupta, Managing Director, Shristhi Softech Solutions (P) Ltd., Mr. Ajay Bandhu Saksena Founder and CEO Samarth Mechatronics (P) Ltd., Dr. R.K. Agarwal, Director General AKGEC, Heads of Departments, Deans, faculty and students.

During the valedictory ceremony, held towards the end of the day, the winning teams were awarded certificates of appreciation. The participating students were appreciated for their efforts and encouraged to participate more and more in such events.



## INTER DEPARTMENTAL SPORTS MEET

**SAKSHAM** is the inter-departmental annual college sports fest at Ajay Kumar Garg Engineering College. The event spanning over almost two months witnessed a massive participation of more than 500 students in about 25 team events and 22 individual sports including badminton, volleyball, basketball, football, athletics, cricket, table tennis, tug-of-war, chess, carom, pool, kabaddi, kho-kho, athletics and power lifting.

A total of 257 matches were played during the course of the sports meet. All the matches were efficiently managed and were played in the spirit of the game.

The closing ceremony on 12th February, 2020 was graced by the esteemed presence of Dr. R. K. Agarwal, Director General AKGEC, Deans, Heads of Departments, faculty members and staff.

Colorful balloons were released high in the sky to mark the colours of success, talent and sportsman spirit witnessed throughout the sports meet. Enthralling performances of dance and music were showcased by TAAL and Euphony, the college Dance and Music societies.

The fest closed with the 100 metres race, boys and girls, and the final TUG Of WAR match between EN and CSE teams in boys' category. The friendly TUG OF WAR match among faculties added colors to the ceremony.



Points Table (All Events)		
Position	Branch	Total
I	CSE	121
II	ECE	111
III	ME	106
IV	IT	60
V	CE+EI	41
VI	EN	27

The overall championship trophy was won by the Computer Science and Engineering Department with a score of 121 points. The Electronics and Communication Engineering Department followed closely as the runner up with 111 points.





During the valedictory ceremony, the winners of the faculty and staff sports meet, conducted earlier, were felicitated with trophies, certificates and cash awards. The winning students of Saksham were awarded trophies and certificates. The College Sports Officer, coaches, college captains-boys and girls, and the Organizing Head were also felicitated.



# CELEBRATIONS

## VISHWAKARMA DAY



Vishwakarma is known as the divine Engineer since the Puranic age. As a mark of reverence the Lord Vishwakarma is not only worshiped by the engineering community but also by all other professionals. This festival is celebrated in the month of September.

Lord Vishwakarma is the presiding deity of all architects and the official builder of all the God's palaces and the designer of all celestial vehicles and weapons. Lord Vishwakarma is regarded as the God of architecture and engineering. AKGEC celebrated Vishwakarma Day on 17 September 2019. Pooja was performed within the mechanical engineering workshop which came alive with the fiesta. The students of all branches gathered early in the morning and decorated the whole workshop with flowers, coloured stripes and balloons. Director General Dr. R. K. Agarwal, HoDs, Section Incharges, faculty members and students performed Pooja with full devotion which was followed by the hawan and Prasad distribution.

## GARBA NIGHT



**KRITAGYA'19**, the Garba Night at AKGEC, brought forward for us a tide of happiness and hope that left behind a memory that will be remembered as an oasis of serendipity.

The beautifully and intricately decorated premises of Girls Hostel welcomed the dignitaries including our Director General, Dr. R.K. Agarwal, Dean Student Welfare, Dean Hostels, Proctor, Heads of Departments, Section Incharges and faculty and their families to the annual Garba night celebration.

The program, on the evening of 4 October, 2019, was inaugurated with the lighting of lamp followed by Ganesh Vandana. The concoction of dance, song and skit performances by the students left the guests mesmerized. The highlight of the night was the **Miss Garba and Miss Personality** contest won by **Ms. Saloni Agarwal** and **Ms. Shubhi Rajpoot** respectively through the series of introduction, performance and questionnaire rounds. The games for the faculty and their families added fun to the colorful evening. The event ended on a happy note with the DJ for the students to thrill the celebration.



## DEEPAWALI

Deepawali, the festival of lights, was celebrated by the management, faculty and staff of AKGEC with great zeal and fervor. The campus was brightly lit up and decoration with flowers and rangoli imparted a joyful appearance to the entire campus. A heart captivating cultural bonanza including song and dance performances and skits presented by the faculty and staff members was a delight for all present. A stupendous dance performance by children of Adarsh Vikas Kendra, a primary school run by the college for children of labor employed in the college, was the highlight of the celebrations. The school children were felicitated with awards for their performance by the Director General. The innovative and exciting games for the management, faculty and staff were enjoyed by all.

## INDEPENDENCE DAY AND REPUBLIC DAY

The days of National importance were celebrated at AKGEC by hoisting the flag by the Director General in the presence of Heads of Departments and Deans. The attendees shared their ideas on the significance of these days and paid homage to the freedom fighters who sacrificed their lives to ensure a free Nation. The Director General emphasized that if everybody contributes a little by performing the responsibilities towards our country, we can soon be a happy, corruption free and flourishing nation.



## THANK YOU DAY

International Thank You Day is celebrated on 11 January every year. This year the college organized the Thank You Day for the first time. Having understood the importance of Thank You for the wellness and mental health of both the persons i.e. the one who conveys the Thank You greetings and the person who receives them, a campaign was organized including Director General, HoDs, Deans, Professors, faculty, Section Incharges, staff and the students.

The Director General explained the philosophy and positive effects of thanking greetings. HoDs, Deans and faculty shared their views on the importance of the word Thank You. The campaign ended with exchanging of Thank You cards over high tea.



## BASANT PANCHAMI

The festival of Basant Panchami marks the arrival of spring and is celebrated by people in various ways. For many beliefs, Basant Panchami is the festival dedicated to Maa Saraswati, the Goddess of Knowledge.

Like every year, festival of Basant Panchami was celebrated in the College on 30 January, 2020. About 750 students, faculty and staff along with their families and parents of students visited the Faith Centre of the College to seek blessings of Maa Saraswati. Amidst the recital of heart touching 'Shlokas' played in dedication to Maa Saraswati, 'Prasad' distribution continued from 11:00 am to 6:00 p.m. Atmosphere of devotion and reverence to Maa Saraswati continued throughout the day.





# INTERNATIONAL DAY of YOGA

JUN 21 2020

## INTERNATIONAL DAY OF YOGA

Based on the proposal by our Hon'ble Prime Minister, Shri Narendra Modi, during his first address to the UN General Assembly, and realizing the importance of yoga practices in maintaining mental and physical wellbeing, United Nations declared 21 June as International Yoga Day on 11 Dec 2014. The objective of this day is to be sensitized and remind people across the globe about the benefits of yoga. Since then our college has been observing the Yoga Day every year by organizing Yoga sessions for faculty, staff and students. College has also been organizing yoga sessions for the benefit of faculty and staff during June and July and for the students during the Orientation period.



On account of the Covid 19 pandemic, the college advised all its members to celebrate the Yoga Day safely from home along with their family members on 21 June, 2020.



## COMMUNAL HARMONY WEEK

The college observes the Communal Harmony Campaign and Fund Raising Week from 19-25 November, under the guidelines of the Ministry of Home Affairs, every year. Like previous years, this year also, the faculty, staff and students donated generously to raise a fund of about Rs. 46,000 which was transferred to The National Foundation for Communal Harmony (NFCH), an autonomous body under the Ministry of Home Affairs, Government of India.

## ADOPTION OF KAZIPURA SCHOOL

AKGEC has adopted Prathmik Vidyalaya, Kazipura, Ghaziabad and carries out various activities of maintenance and support including plumbing, horticulture, civil work, fabrication, electrical work and provision of furniture, swings etc. 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. The college has also donated computers to the school for use by the students. A visit to National Science Museum was also organized for the school students.



## UNNAT BHARAT ABHIYAAN

Unnat Bharat Abhiyaan (UBA) is a flagship program of the Ministry of Human Resource Development (MHRD). It aims to link the Higher Education Institutions with a set of at least 5 villages, so that these institutions can contribute to the economic and social betterment of these village communities using their knowledge base.

Under the UBA, AKGEC has adopted five villages in Ghaziabad namely Raghunathpur, Sadat Nagar Ikla, Piplehda, Galand and Kalchhina. To meet the goals of UBA, the college has dedicated team of faculty, staff and students. The UBA team of college has visited all five villages for survey and have identified the specific problems faced by the villages such as unavailability of safe drinking water for school students, unavailability of school furniture, lack of computer knowledge and computers, insufficient and unhygienic toilets and non-awareness of government schemes. Based on the observations, the College has started building plans to support these villages. As a first initiative, the College has donated computers to the Kalchhina village school. Future plans include provision of furniture in the schools and awareness programs on solar energy system and bio-gas system as alternate fuel options.





## BLOOD DONATION CAMP

AKGEC in keeping with its policy of commitment towards society and to sensitize the students accordingly organized its annual Blood Donation Camp on 04 March 2020 in the Mechanical Engineering Block of the college. The camp was conducted in association with Rotary Sahibabad Research and Social Welfare Trust (Blood Bank) and Vardaan Multispeciality Hospital (Blood Bank), Ghaziabad.

The camp was inaugurated by Sh. Alok Gupta, District Governor Elect of Rotary Club Ghaziabad and part of NCR and Sh. Amit Garg, Assistant Governor of Rotary Club Ghaziabad and part of NCR. The inauguration ceremony was also graced by the presence of Sh. Vidhur Chharia, President Rotary Club, Sahibabad, Sh. Sandeep Garg, Chairman, Blood Donation Committee Sahibabad, Rotary Club members Sh. Rakesh Chharia and Sh. Arun Agarwal, Mr. Vinay Gupta, Executive Director, Ghaziabad Management Association and delegates from Vardaan Multispecialty Hospital Blood Bank, Rotary Club and Ghaziabad Management Association.

Three hundred and fifty nine units of blood were donated generously by the students, faculty and staff of the College. Fitness of the donors for donation was checked by a team of competent doctors under arrangements of safe and hygienic blood donation. Nutritious refreshments were served to the donors after the donation and they were honoured with a certificate for donation, a donor card and a small gift for their gesture towards this noble cause.

Student conveners Siddharth, Arnav Bajpayee, Rishabh Kumar and Muskan Verma with their team of student volunteers from all years and branches managed the camp with full dedication under the guidance of Dean Students Welfare.

With a motive to encourage students to step forward and donate blood, Team Footprints, the Arts and Literary Society of the College, had organized **Blood Donation Poster Making Competition** on 02 March, 2020. Selected posters were displayed in the college exhibition arcade and were well appreciated by the guests and the AKGEC family.



## SWACHH BHARAT ABHIYAN

Sh. Dinsh Chandra Singh, IAS, the Municipal Commissioner of Ghaziabad District visited the college on 25 January, 2020. He addressed the students and faculty on the need of keeping environment around us clean and emphasized the various measures which have been initiated to make Ghaziabad the cleanest city. He along with all students and faculty available took the oath for making the Swachh Bharat Abhiyan a grand success.



## AKGEC INITIATIVES DURING COVID 19 PANDEMIC LOCKDOWN

Ajay Kumar Garg Engineering College has adopted a refugee camp at Adarsh Nagar, Delhi with 111 families consisting of about 700 people. The College has built two rooms and is furnishing one as a classroom for children and the other as a sewing machine centre for skill development of the community. In addition, the college is also providing them complete rations, vegetables and money for miscellaneous expenses since the beginning of the lockdown due to covid 19 pandemic.

The college has also distributed rations and food packets worth Rs. 11 lacs to the needy families in Ghaziabad, through the District Administration.



## ESSAY WRITING COMPETITIONS

The country celebrated the 10th **Voters' Day** on 25 January, 2020 with the idea to motivate all eligible voters to exercise their franchise. AKGEC celebrated the spirit of this day by organizing Essay Writing Competition in English and Hindi on the topics **"Let us Vote: No Voter to be left behind"** and **"वoters' Day: A Way of Life"**.

Ministry of Human Resources celebrated **"Matribhasha Diwas"** on 21 February, 2020 with the objective to promote and preserve our mother language and highlight the linguistic diversity in our country.

Team Footprints organized essay writing competition in English and Hindi on the topics **"In addition to respect for our own mother tongue, it is our social duty to respect other Indian languages as well"** and **"एक हिंदी देश एक ही जग है"** respectively.

Essay writing competition under the directions of Central Vigilance Commission, India was conducted. The students participated with great enthusiasm in both groups Hindi and English on the topics **"बेकरोबती और जीवन - एक रास्ता"** and **Integrity - A Way of Life"**.

Winners English		
Student Name	Year and Branch	Position
Rohit Patel	B.Tech IV Year CE	First
Prakruti Yadav	B.Tech III Year CSE	Second
Aman Kumar Mishra	B.Tech III Year IT	Third
Winners Hindi		
Arun Kumar Maurya	B.Tech IV Year EN	First
Shivendra Shukla	B.Tech III Year EN	Second
Pawan Kumar Gupta	B.Tech III Year CE	Third

Winners English		
Student Name	Year and Branch	Position
Rohit Patel	B.Tech IV Year CE	First
Pranjal Mishra	B.Tech IV Year CE	Second
Prakhar Yadav	B.Tech III Year CE	Third
Winners Hindi		
Arun Kumar Maurya	B.Tech IV Year EN	First
Sarthak Sahu	B.Tech IV Year CE	Second

The Parliament of India promoted Essay Writing Competition on the topics **"Indian Constitution - A Catalyst of National Integration"** and **"हिंदी भाषा का विकास और जीवन - एक रास्ता"**.

## NATIONAL VOTERS' DAY

Ajay Kumar Garg Engineering College celebrated the 10th National Voters' Day on 25th January, 2020 as part of the Government's mission to bring awareness in the youth to exercise their right to voting and encourage more young voters to take part in this process of forming their Government.

All faculty, staff and students took pledge to exercise their right to vote at various locations in the College. Essay competition in Hindi and English were conducted for the students and the winning students were awarded cash prizes and certificates.







**SAVE WATER. SAVE LIFE.**



## **Ajay Kumar Garg Engineering College**

**NAAC Accredited • NBA Accredited B.Tech. Courses**

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