



Dronacharya College of Engineering

ISSUE

Vol xi issue CXIV

Computer Science & Information Technology

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From Editor's Desk :

Dronacharya College of Engineering, Gurgaon represents a collective being, and in it and by it the individual lives, and he owes to it all that he can give. This is a place where one can attain perfection by devotion to and performance of duty. We always foster our students with a sense of accountability, integrity, sincerity and dignity.



Our college is well-known as a place where creativity, innovation, sustainability and technology converge to produce extraordinary results every year. This powerful clustering supply engineers, technocrats and entrepreneurs that are global leaders in their industries. As a regional hub of cutting-edge creativity and innovation, **Dronacharya College of Engineering** flourishes the technical knowledge around the globe. The College is playing an even greater role in building a technological nexus here in Gurgaon that is impacting the rest of the world. Our endeavor is to make this Newsletter a source of information and a means of deepening, widening and heightening **Dronacharya College of Engineering**.

Editor, (Dr. Sunil Mishra)

From HOD's Desk :

Learning may be a continuous and endless method and doesn't finish with the acquisition of a degree, particularly due to steady and speedy advancements in computing technologies, shortened lifetime of tools and techniques and rife these days. Therefore, we tend to offer our students a robust foundation in IT and imbibing techniques that make them adaptable to changes. Right from its origin, the Department of Information Technology has been providing an excellent infrastructure, teaching facilities with a wide range of computing platforms for aspiring skilled students to satisfy the burgeoning demands of the IT industry.



Over the years we have developed a definite vogue and technique that bridge the speculation - follow divide while remaining grounded within the core. We have a tendency to believe that this approach to teaching-learning, as well as sensible expertise gained throughout Industrial coaching in putative organizations, equips our students to handle the challenges display by the IT business.

We at Information Technology Department of Dronacharya College of Engineering, Gurgaon impart futuristic technical education and install high sense of discipline through our dedicated faculty members who set global standards. We strive to make our students technically superior and ethically strong, who in turn shall improve the quality of life, by promoting Research and Development in the frontline areas of Information Technology. The result of hard work is reflecting in the performance of our students in placements (100% placement of 2015 Batch), University results (**50 University merits in 2013**) and projects (Projects of our students have won the first prize at many places including **CSI National level Project Competition held at Vishakhapatnam**).

Head of Department, Prof. Megha Goel

Events :

Google for Everyone-Developer Track on 16th December 2015 :

Google India organized "**Google for Everyone-Developer Track**" on **16th December 2015** at **Hotel Pullman Aerocity, New Delhi**. Two students, **Birender Singh Rawat (16043)** and **Brijesh Aggarwal (16044)** from **Department of Computer Sciences & Engineering, Dronacharya College of Engineering, Gurgaon** attended the event. **Mr. Francis Ma**, Senior Product Manager, Developer Products Group, Google, shared the enhancements in the Android studio 2.0, and focused on various aspects such as material design, android and chrome. **Mr. Francis Ma** encouraged the developers to engage them on Web through some techniques like push notifications, work offline, etc. **Ms. Tal Oppenheimer** discussed about several constrains that could affect an application, like screen size, RAM, Device Storage and how to optimize them in a better way. The event proved to be very fruitful as attendees got an opportunity to get experience from Global Leaders of Google, as they shared their vision on how technology can change people's lives for the better tomorrow.



Mr. Kunal Soni, Head of Business Development, during the discussion



Google Students of CSE Department at Venue Play

Google India Education Symposium :

Google India Education Symposium was organized by **Google India Inc.** on **16th December 2015** at Hotel Holiday Inn, New Delhi. **Prof. (Dr.) Jitender Kumar, Prof. (Dr.) Neelam Ruhil**, Head, Department of Electronics and Computer Engineering, **Prof. Yashvardhan Soni**, Department of Information Technology and **Mr. Amar Saraswat**, Department of Computer Science & Engineering from **Dronacharya College of Engineering, Gurgaon** attended the symposium.

The objective of the symposium was to promote and embed creativity in teaching paradigm. The Google India Education Symposium brought politicians, educators and Google For Education team together under one roof to discuss how Google's cutting -edge technology tools can help India reach its education goals.



Prof. (Dr.) Jitendra Kumar, Academic Administrator, Prof. (Dr.) NeelamRuhil, HOD-ECS at symposium



Prof. (Dr.) Jitender Kumar, Academic Administrator, Mr. Yashvardhan Soni, Associate Professor, Department of Information Technology and Mr. Amar Saraswat, Assistant Professor, CSE during the symposium

12th IEEE Indicon 2015: Technical Talk on “Integration of Demand Response with Renewable Energy for Efficient Power System Operation” on 17th December 2015 :

IEEE Delhi Chapter in association with **IIT Delhi**, organized a **Technical talk in 12th IEEE INDICON 2015** on “**Integration of Demand Response with Renewable Energy for Efficient Power System Operation**” by **Prof. Saifur Rahman** on **17th December 2015** at **Jamia Milia Islamia, New Delhi**. **Two Students** from **Department of Computer Science & Engineering** attended the talk. **INDICON** is annual conference conceptualized by **IEEE India Council** in the field of Computer Science and Engineering. Prof. Rahman discussed about demand response that it provides an opportunity for consumers to play a significant role in the operation of the electric grid by reducing or shifting their electricity usage during peak periods in response to time-based rates or other forms of financial incentives.



Prof. Rahman delivering his lecture



Students from CSE deptt. at the Venue

Seminar on “Powering Digital India with Enterprise Architecture - Strategies, Practices & Outcomes” :

Mr. Jagdish Shivhare, Sr. Assistant Professor from Electronics & Communication Dept on behalf of **Dronacharya College of Engineering, Gurgaon** attended a Seminar on “Powering Digital India with Enterprise Architecture Strategies, Practices & Outcomes” at **FICCI, New Delhi** on **17th December, 2015** organized by **Federation of Indian Chambers of Commerce & Industry (FICCI)**. The seminar was very beneficial and knowledgeable as the participants become more aware about the concept of entrepreneurial architecture. The seminar highlighted that EA comprises the institutional, communicative, coordinative and cultural elements of an organization oriented towards innovation.



A group of students ready for the visit

21st Technology Summit & Expo ‘Smart Technologies for Sustainable Growth’ Country Partner Republic of Korea :

Mrs. Sakshi Pahuja, Associate Professor, ECE department attended **21st Technology Summit & Expo ‘Smart Technologies for Sustainable Growth’** organized by CII in association with DST, Govt. Of India and Ministry of Science, ICT and Future Planning on **17th - 18th December 2015** at Hotel Lalit, New Delhi. The objective of the summit was to strengthen and scale up global science, technology and innovation partnerships with Indian government, including states, Indian industry and Indian institutions to forge joint venture, joint R&D, technology transfer, investment, etc. The theme for this summit was **‘Smart Technologies for Sustainable Growth’**.



Mrs. Sakshi Pahuja during 21st Technology Summit at Hotel Lalit, New Delhi



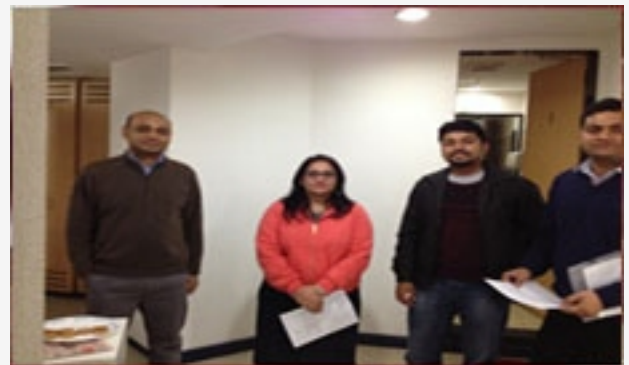
Mr. Y. S Chowdhary (Minister, GOI) & Mr. Minsik Ahn (Minster, Korea) Welcomed by CII

COMSOL for Electrical Applications :

Ms. Seema Assistant Professor, ECE deptt. attended a one day workshop on '**COMSOL for Electrical Applications**' organized by '**COMSOL Multiphysics Pvt. Ltd.**' at Hansalaya Building, Barakhamba Road, New Delhi on **18th December 2015**. The COMSOL Desktop is a powerful integrated environment designed for cross-disciplinary product development with a unified workflow, regardless of the application area. It provides an interactive environment to students & researchers for modeling and simulating scientific and engineering problems. It is a Finite Element Analysis (**FEA**), Solver and Simulation software / **FEA** Software package for various physics and engineering applications.



Mr. Samarth briefing the participants



Ms. Seema with Mr. Samarth & Mr. Avinash Chaudhry during session

Paper Presentation in SocProS'15 International Conference on Soft Computing for Problem Solving :

Ms. Priyanka Mahani, Assistant Professor, Department of Electronics and Computer Engineering of **Dronacharya College of Engineering, Gurgaon** attended an **International Conference on Soft Computing for Problem Solving (SocProS'15)** organized by **Soft Computing Research Society (SCRS)** in collaboration with "**Springer**" at **Saharanpur Campus of Indian Institute of Technology, Roorkee (IIT-R)** from **18th-20th December'15**. **Ms. Priyanka Mahani** presented her paper titled "**Classification of Texture Images (Using Neuroph Studio)**" in Track 26 - Soft Computing for Environmental Applications and Remote Sensing. The proceedings will be published as a book chapter by Springer.



Ms. Priyanka Mahani, Faculty, ECS Department, DCE, GURGAON presenting the paper at the Conference



Certificate received by Ms. Priyanka Mahani (Asstt. Prof. ECS Department)

NPTEL Local Chapter Felicitation Event on 19th December 2015 :

To share the necessary concepts and ideas, **IIT Madras** organized a feedback session on the course offerings and processes with a **Felicitation cum Recognition** of the **Principals, SPOCs and Mentors of NPTEL running Colleges** on **19th December 2015**. Ms. Ashu Khurana, Assistant Professor from Department of Computer Science & Engineering with Ms. Dipti Girdhar, Assistant Professor, Department of Applied Science & Engineering represented **Dronacharya College of Engineering, Gurgaon** in the event. **Prof. Andrew Thangaraj**, Associate Professor, Electrical Engineering, Indian Institute of Technology Madras, Chennai gave the information of updated **MOOCs** on **NPTEL**. The event provided a very good discussion platform for student's encouragement.



Faculty Members Ms. Dipti Girdher & Ms. Ashu Khurana, from DCE, GURGAON receiving the Certificates at the NPTEL Local Chapter Felicitation Event

CII National FMCG Summit 2015 "Re-Imaging FMCG in India" :

Confederation of Indian Industries (CII) organized the **National FMCG Summit 2015 "Re-Imaging FMCG in India"** on **21st December 2015** at **Hotel Taj Mahal, New Delhi**. **Mr. Chandra Shekhar Singh**, Department of EEE and **Mr. Rajesh Mattoo** of ME Department on behalf of **Dronacharya College of Engineering, Gurgaon** attended the event.

The Indian business landscape is undergoing an unprecedented evolution. Dynamism is critical for the survival of industry tycoons as well as startups. Within the consumer space in India, companies are witnessing evolving expectations and realities across all aspects of their business changing consumer dynamics, continuing macroeconomic volatility, sustained policy amendments, new sales channels and shifting media habits.



Mr. Chandra Shekhar Singh attending session during CII national FMCG Summit 2015



Mr. Rajesh attending session during CII national FMCG Summit 2015



Roadshow & Interaction on Happening Haryana Global Investors' Summit:

Government of Haryana in association with **Confederation of Indian Industries (CII)**, organized a Road show and Interactive session on "**Happening Haryana Global Investors Summit 2016**" on **22nd December 2015** at Hotel The Lalit, New Delhi.

The objective of the summit was to ensure an enabling environment in state, and it was a platform for the pre-event activities of the main summit. **Mr. Amar Saraswat**, Department of Computer Science & Engineering from **Dronacharya College of Engineering, Gurgaon** attended the summit.



Summit in Progress



Mr. Amar Saraswat at the Venue

KPIT Sparkle 2016 Organized by KPIT Technologies Limited:

KPIT Technologies Limited in association with the **College of Engineering, Pune (CoEP)** hosted an annual national design and development innovation contest for engineering and science students from across India - **KPIT Sparkle 16**. The competition with the theme of '**Smart Solutions for Energy and Transportation**' was held at CoEP College ground, Pune on **29th & 30th January 2016** where the top 54 shortlisted teams from across the country presented their innovative and sustainable solutions through scale models and working prototypes. **Mrs. Sanghamitra V. Arora** (project guide) along with five students namely Anmol Goyal, Ashish Sharma, Himanshu Kataria, Himanshu Lamba and Ankush Verma of ECE department from **Dronacharya College of Engineering, Gurgaon** attended the event and were selected to showcase their idea with Project titled: **Intelligent [Real time] Traffic Routing** at the event.

The other two project teams [Team - I & Team - II] that have participated in KPIT Sparkle 2016 under the guidance of **Mr. Amit Bhatia** (Mechanical Engineering Department) were as follows:

- **Team - I - Project title: - Nitro Methane Gas Powered Spying Vehicle : Four students were the team members for the project.**
- **Team II Project title: - Decongestion of Vehicles on Traffic Lights : Four students were the team members for the project.**

Both the teams have been shortlisted for next round and already submitted documents for third round.



Students of DCE, Gurgaon with members of the jury

E-Yantra Robotics Competition - 2015 Organized by IIT Bombay :

IIT Bombay organized the **E-Yantra Robotics Competition-2015**. Four students **Neetu Sharma** (ME), **Nikhil Mehra** (ME), **Aditya Goswami** (CSE) and **Hitesh Kansal** (CSE) from 5th semester of **Dronacharya College of Engineering, Gurgaon** participated in the competition cleared second round under the guidance of **Mr. Amit Bhatia**, Mechanical Engineering department.

Twenty one teams were selected with marks in between 78 to 80. The DCE team secured 78 marks out of 80.



Project team of e-Yantra Robotics Competition-2015 organized by IIT Bombay

Two - Week ISTE STTP on Introduction to Structural Engineering, IIT Kharagpur :

The Indian Institute of Technology, Kharagpur under the **National Mission on Education through ICT, MHRD, Government of India** organized a **two-Week ISTE STTP on Introduction to Structural Engineering** from 4th to 9th January 2016 at **Dronacharya College of Engineering, Gurgaon (Remote Center 1299)**. **Mr. M. Gopi Chand** was the workshop coordinator and 8 faculties of the College participated in the week long program.

The main objective of the workshop was to focus on teaching Methods on introduction to Structural Engineering through an advanced high-level online interaction with the Professors over video conferencing and to promote it as a culture of investing in human capital development for making India a pool of skilled resources for a better future.



Participants attending workshop along with Prof. Jitender Kumar, Remote Center Coordinator, DCE, Gurgaon

One Day Workshop “Entrepreneur Development, Innovation & Patenting”:

A workshop on **“Entrepreneur development, Innovation and Patenting”** was organized on **7th January, 2016** at the **Dronacharya Group of Institutions, Greater Noida**. The workshop was attended by **Ms. Pankti Brar, Mrs. Sanghmitra Arora** and **Mr. Jagdish Prasad Shivhare** of ECE Department, **Mr. Chandra Shekhar Singh**, EEE Department and **Mr. Vineet Mishra**, Mechanical Engineering Department of **Dronacharya College of Engineering, Gurgaon**.

The event focused on Innovation and Entrepreneurship. A new product in market must possess utility and a justifying cost in order to survive in market. An existing product also needs to be updated time and again so that it meets up the challenges posed by the ever changing and ever growing market. This necessitates an entrepreneur to bring about a product which is acceptable to the market and the society and sustains itself in the long run. The workshop was organized to empower faculties with the knowledge regarding innovation and patenting.

The guest speakers of the workshop were:

- ▣ **Dr. Saurabh Kwatra**, Technical Head, International Innovations, Bangalore and Patent consultant at The Institution of Engineers(India), Karnataka State Centre.
- ▣ **Mr. Tushar Kanikdale**, Master Black Belt at Cummins Technical Centre.



The expert Dr. Saurabh Kwatra during the session



Faculty members of DCE, Gurgaon at the event

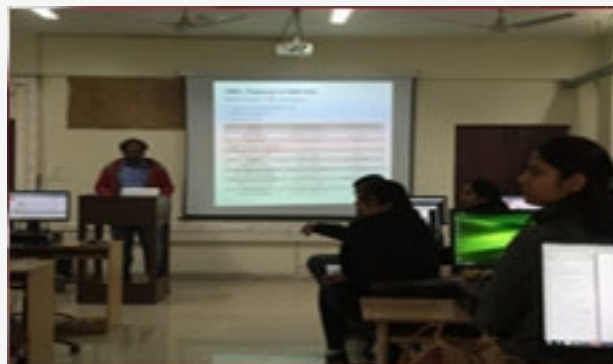
Professor Summit on ‘Embedded System Design’:

Atmel India University Program in coordination with, Maharaja Agrasen College conducted the 2-day Professor summit on **‘Embedded system design using Atmel Atmega XPLD mini 168PB and ARM based SAM D21’** on **7th - 8th January 2016**. **Ms. Priya Yadav** (ECE department) of **Dronacharya College of Engineering, Gurgaon** attended the summit.

Mr. Vinod Kumar Khera, program manager, ATMEL briefed about the AVR family of Microprocessors and Microcontrollers. **Mr. Shanmuga sundaram**, member of the R&D department detailed about the microcontroller programming and a hands-on session was provided on ATmega168PB kits.



Inaugural session by Dr. Sunil Sondhi



Ms. Priya Yadav during the session

3rd International Conference on Transformations in Engineering Education :

The Third International Conference on Transformations in Engineering Education (ICTIEE) under the Indo-US Collaboration for Engineering Education (IUCEE) organized a two day workshop on Outcome based Education on **9th and 10th January 2016** at College of Engineering, Pune. The workshop was attended by **Ms. Reva Nagi** from CSE Department of **Dronacharya College of Engineering, Gurgaon**.

The workshop aimed to bring Engineering educators from across the world to share best practices for preparing Engineering graduates who will be leaders in addressing global challenges. In a world driven by innovations in Engineering for promoting prosperity of mankind, augmenting human resource capital through quality engineering education is vital.



Participant Id card of Ms. RevaNagi received during the workshop



Dr. Shyam Diwakar, Asst. Professor, School of Biotechnology, Amrita University delivering hands on session on "Virtual"

iBharat - 2016 at FICCI, New Delhi :

Prof. (Dr.) Neelam Ruhil and **Ms. Parul Bansal** from Electronics and Computer Engineering Department of **Dronacharya College of Engineering, Gurgaon** attended the **iBharat 2016** organized at FICCI, New Delhi in partnership with the Department of Electronics & IT, Government of India on **11th January 2016**. "i-Bharat" is an ICT initiative undertaken by FICCI and the conference aims at engaging various stakeholders of ICT to deliberate upon transformation of key sectors in India through effectual implementation of ICT.

The objective of the conference was to bring together resource persons and provide a platform to speed ahead on Digital Highway, delve deep into practical means/measures that can transform key sectors in the country through effective technology implementation, and explore action plans to drive deployment and strengthen the public-private partnership. It provided industry personalities and academicians with a platform for sharing the views and discussing the role ICT can play in making India reach for sustainable development including education and healthcare. The conference included several sessions with the motive of creating awareness about the policies of government to make India build excess capacity and ways through which these steps can be taken at the grassroot level.



Chief Guest Shri Ravi Shankar Prasad (Hon'ble Minister for Communications & IT, Government of India) (Hon'ble Member of Parliament, Lok Sabha) sharing his views on the event



Prof. (Dr.) Neelam Ruhil and Ms. Parul Bansal from Dronacharya College of Engineering, Gurgaon at the conference

ICT Short Term Course on “MATLAB & It's Hardware Interface”, NITTTR Chandigarh :

Dr. Deepika Yadav (Associate Professor Electricals and Electronics Engineering Department) represented **Dronacharya College of Engineering, Gurgaon** in the 5 - day workshop on “MATLAB AND ITS HARDWARE INTERFACE” organized at NITTTR, Chandigarh **from 11th - 15th January, 2016**. This training programme is specially designed for Engineering applications that mainly deal with Programming using **MATLAB** and its various toolboxes.



Mrs. Shimi S.I. presenting demo of MATLAB/SIMULINK Simulations



Dr. Satvir Sidhu presenting demo of Optimization

STC on “Climate Change, Disaster Management & Sustainability Development” :

Dronacharya College of Engineering, Gurgaon in association with **NITTTR, Chandigarh** conducted a **five day's workshop on "Climate Change, Disaster Management and Sustainability Development" through ICT from 11th -15th January, 2016**. 36 Faculty members from various departments of **the College** participated in the workshop. The main objective of this workshop was to address the Climate change due to anthropogenic activities which is the major concern for the scientists and planners world over. The Course was conducted in three sessions per day.



Banner of the workshop



Prof. Vishal Bharti giving the opening address

6th International Conference on cloud System & Big Data Engineering Confluence :

The **6th International Conference on Cloud System and Big Data Engineering: Confluence 2016** was organized at Amity University, Noida from **14th-15th January 2016**. The event was sponsored by **IEEE, Uttar Pradesh** branch. On **14th January 2016 Ms. Sarita** Assistant Professor from Computer Science & Engineering Department of **Dronacharya College of Engineering, Gurgaon** presented a paper **"An Efficient Automated Design to Generate UML Diagram from Natural Language Specifications"** at the conference.

The conference **"Confluence-2016"** intended to bring together the scholars, academicians, scientists, industrialists from all over the world in the IT industry to a common platform.

The theme of the paper was based on Automating UML diagrams generation using Natural Language Processing techniques. Going from requirements analysis to design phase is considered one of most complex and difficult activities in software development. Errors caused during this activity can be quite expensive to fix in later phase of software development & these problems are due to specification of software requirements in natural language format. To minimize errors a technique was proposed which provide automated assistance to analysts to generate UML Models from Natural Language Requirements.



Delegates and Faculty member at Conference



Conference Certificate received by Ms Sarita

Conference on Sustainable Solid Waste Management - an Innovative Approach :

The **6th International Civil Engineering Department of Dronacharya College of Engineering** organized a **National Level Conference on "Sustainable Solid Waste Management- An Innovative Approach"** on **15th January 2016**.

Hon'ble Principal Prof. (Dr.) B.M.K Prasad delivered the welcome address of the conference. In this conference **Dr. Bhoop Singh, Director/Scientist G, DST, GOI** was invited as **Chief Guest** for the conference. He shared his valuable views on Sustainable solid waste management including the process of treating solid wastes and gave variety of solutions for recycling. It was about how garbage can be used as a valuable resource.

It was discussed that waste management means disposing off the products and substances that have been used in a safe and efficient manner. **Dr. Ashok K. Keshari (Professor, IIT Delhi)** was the Guest of honor of the conference.



Participants attending the conference



**Dr. Bhoop Singh, Chief Guest of the Conference
sharing his views**

Achievements :

CISCO NetRiders - Asia Pacific :

Two students of IT VII Sem (Sandeep Singh and Ankit Saxena) secured 17th and 33rd rank in India respectively and rank 232 and 303 respectively in entire Asia Pacific Region In NetRiders competition organized by CISCO.



Sandeep Singh



Ankit Saxena

Placement :

CONGRATULATIONS to the students of Information Technology Department for being placed in companies: IGATE , AON Services India Pvt. Ltd , Axiom Domain Pvt. Ltd, Bharti Airtel Limited, Cellos Software Limited, XecuteHR Solutions Pvt. Ltd, Doon Consulting Pvt. Ltd., Sirez Ltd., EXL, BluePi Consulting Pvt Ltd, Pioneer-e-Solution, Pinnacle India, Kelton Tech and Cocubes.

Student's Speak :

My experience in this college turned out to be very different from what I expected. Unlike any other professional institute where the personal touch is often missing, our college treated us like a part of Dronacharya family. I am really glad to be associated with the Department of Computer Science & Information Technology at Dronacharya College of Engineering. CS&IT department in coming future will be counted as the best department of **Dronacharya College of Engineering**. I am thankful for all this support, encouragement and guidelines on Dronacharya Family.



Sushil Kumar

It feels highly privileged to be a part of Information Technology Department of this college. Our department give opportunity to young engineers to lead the IT industry to new heights and prepare them to play leading roles in transforming the industry for betterment, be it through research, advanced development, with new invention, innovation and entrepreneurship. Our department also help the students to develop skills by identifying potentials and knowledge through innovative research for challenging applications in the IT industry and also to carry out research in the areas of building working projects and eco-friendly technologies.



Priyanka Gera

Dronacharya College of Engineering (DCE) Gurgaon is one of the top colleges of Maharishi Dayanand University, Rohtak. The college has excellent faculty which is really very co-operative and supportive in every phase and aspect. The college has a Microsoft Innovation Centre (MIC). The college is updated with the latest techniques and advanced technology. The college has focus on academic as well as non-academic activities. The college provides a lot of recreational activities so as to have a break from the monotonous lifestyle. Day by day, the college is adding feathers to its cap by participating in various well known competitions and getting prizes. The name and fame of ***Dronacharya College of Engineering*** is spreading in every corner of the country. Well known IT companies come to the college for campus placements. The college attracts experts from various fields for guest lectures and workshops.



Ankit Saxena