

Paper Presentation - Dronathon 2022

26th - 27th May 2022

Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurgugram organized “**Dronathon 2022**” from 26th -28th May 2022. Under Dronathon, “**Paper Presentation**” was conducted on 26th - 27th May 2022 at Seminar Hall (004) and Conference Room (006).

The event was co-ordinated by **Dr. Seema**, (Associate Professor, ECE) along with the faculty coordinators **Dr. Sandeep Bansal** (ME), **Dr. Shipra** (AIML) and **Dr. Manoj** (App. Sc.). The event promotes the students to learn how to present your research work before the gathering, and it develops their professional and presentation skills in terms of how to review the articles, find out the problem statement, then do their research work and write a quality paper. It will enhance student's ability in writing or making papers as well as to present it, and also to broaden the mind of the participants.

Teams registered for the event. Participants showed the enthusiasm in the event of paper presentation. They have come up with their latest research findings in their respective discipline. The student coordinators **Aryan Yadav** (ECE - 4th Sem), **Ajitesh Kumar Verma** (ECE - 4th Sem), **Nitin Jakhar** (EEE – 4th Sem), were actively involved in successful completion of this event. They prepared 2 handmade posters related to the event.

Best Paper Presentation

- Pushpender Rathore (ME - 6th sem)
- Sejal Talwar (AIML - 2nd sem)



Paper presentation on Advance Technology

26th May 2022

A **Paper Presentation on Advanced Technology** was organized on **26th May 2022** by Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram, providing a dynamic platform for B.Tech students to showcase their innovative ideas and recent research developments in various fields of engineering and technology. The event aimed to encourage analytical thinking, technical writing, and public speaking among participants by allowing them to present their original work before a panel of faculty members and peers.

Students from multiple disciplines actively participated, presenting papers on emerging technologies such as Artificial Intelligence, Internet of Things (IoT), Renewable Energy Systems, Automation, and Smart Manufacturing. The event not only highlighted the creativity and technical knowledge of the participants but also fostered academic collaboration and critical feedback. It served as a valuable opportunity for students to gain confidence in articulating complex technical concepts and to refine their research and presentation skills for future academic and professional endeavors.



The poster is for a 'PAPER PRESENTATION' event titled 'DRONA THON A TECHNICAL EVENT'. It is scheduled for 'DATE: 26TH & 27TH MAY 2022'. The event is organized by Dronacharya College of Engineering and the Institution's Innovation Council. The poster includes logos for '75 Azadi Ka Amrit Mahotsav' and 'Dronacharya College of Engineering'. A globe graphic is on the left. The bottom section contains guidelines, faculty co-ordinators, and student co-ordinators.

Guidelines :	Faculty Co-ordinators:	Student Co-ordinators:
1. Paper must be in IEEE Format	Dr. Seema(9896773630)	Ajitesh K. Verma- 9793362273
2. Team size should be 1-4 members	Dr. Sandeep Bansal (7009572188)	Aryan Yadav- 9793362273
3. Free from Plagiarism	Dr. Manoj Kumar (8901283798)	Nitin Jahhar- 9991514183
4. Report to the venue before 10 min of their allotted time	Dr. Shipra Arora(9911156590)	



Workshop on “Statistical Tools for Data Analysis in Technical Research”

16th April 2022

A workshop on "Statistical Tools for Data Analysis in Technical Research" was organized on **16th April 2022** by **IIC Cell of Dronacharya College of Engineering, Gurugram** to enhance the research capabilities of B.Tech students by introducing them to key statistical methods and tools used in engineering research. The session aimed to equip participants with practical knowledge of data interpretation, hypothesis testing, correlation, regression, and other statistical techniques essential for analyzing experimental and survey-based research data. 55 students attended the workshop.

Students were given hands-on training using software tools such as **Excel, SPSS, and MATLAB**, allowing them to apply statistical concepts to real-world datasets. Resource persons demonstrated how to select appropriate statistical tests based on research objectives and data types. The workshop emphasized the role of accurate data analysis in drawing valid conclusions and improving the quality of technical research. By the end of the session, participants gained confidence in using statistical tools to support their academic projects, technical papers, and final year theses.



Internal Smart India Hackathon

12th March 2022

Smart India Hackathon 2022 is a nationwide initiative to provide students a platform to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. In SIH 2022, the students would have the opportunity to work on challenges faced within various Ministries, Departments, Industries, PSUs and NGOs to create world class solutions for some of the top organizations including industries in the world, thus helping the Private sector hire the best minds from across the nation.

Dronacharya College of Engineering organised an Internal Institute Level Hackathon to shortlist the teams to participate in the national level competition. The hackathon was open to students of all years and branches. The Internal Institute Level Hackathon was held on March 12, 2022, in EDC cell. A total of 29 teams participated in the event. The teams comprised of students from Mechanical, Computers ,Electronics and Electrical Engineering. The jury members for the event were Mr. Samundar Singh, Project Manager, Stryker ltd. and Mr. Prashant Vashist, Senior system analyst Tesco Bangalore, Mr. Pranay Vashist, Senior consultant, EY Pvt. Ltd., Mr. Sachin Vats, Hardware designer, Nippon Seiki and Mr. Divyansh Chauhan, Senior Software Engineer United health group. The jury panel was very much impressed with the innovative ideas presented by the students. The judges provided valuable inputs and feedback to the student participants. Total 15 teams were shortlisted. The event was organized by Mrs. Dimple Sapru, HoD ECE & EEE Department, SPOC-SIH 2022.



Workshop on Developing Startups Using the Business Model Canvas

18th December 2021

Institution's Innovation Council (IIC), Ministry of Education (MoE) Dronacharya College of Engineering, Gurugram organized a session on “**Start-up Program-Business Model Canvas (BMC)**” on 18th December 2021. The session was led by **Mr. Dhruv**, founder of Instadiet and coordinated by **Mrs. Renu**, Assistant Professor (CSE). 87 students attended the workshop.

The main objective of the session was to encourage, enlighten and motivate the students to think out of the box and start their own ventures.

Mr. Dhruv shared experiences of his whole journey towards a successful entrepreneur and counselled the students on how to start their own start-ups and how to take the first step towards the aim. He guided the students on how to avoid the most common mistakes made by freshers. Along with this Mr. Dhruv informed the students with the mostly used technologies in start -up world.

The session ended with discussions on start-up ideas presented by students, which made them learn their flaws and do some more innovations on their idea.



Workshop on "Strategic Innovation through Design and Analytical Thinking"

27th October 2021

Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram organized a workshop on "Strategic Innovation through Design and Analytical Thinking" was successfully conducted on **27th October 2021**, aimed at equipping B.Tech students with the skills to approach complex problems creatively and analytically. The session introduced participants to the principles of design thinking and critical analysis, emphasizing how these methodologies can drive innovation in engineering and technology. Students explored various stages of the design thinking process—empathize, define, ideate, prototype, and test—through interactive activities and real-world case studies.

Experts from academia and industry shared insights into how strategic thinking and innovation can be integrated into product development and problem-solving. Participants were encouraged to collaborate in teams, apply structured frameworks, and think beyond conventional solutions. The workshop enhanced students' ability to tackle challenges with a user-centric mindset and analytical rigor, preparing them to innovate effectively in both academic projects and future entrepreneurial ventures.



Celebration of National Innovation Day (Workshop on drone assembly-QUADCOPTER)

22nd October 2021

Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram celebrated National Innovation Day and organized a **Workshop on Drone Assembly – QUADCOPTER** on **22nd October 2021**. Against the backdrop of the ever-increasing use of Unmanned Aerial Vehicles (UAVs), popularly known as drones, for various applications, Innovation cell of DCE, conducted a day-long training programme on drones for students to celebrate National Innovation Day. The focus of the training session was to give students hands-on experience on drone construction and flying, from concept initiation to building a drone. The training session covered introduction and fundamentals of aviation and UAVs, drone electronics, assembly and manual construction, drone prototyping, drone simulator training, stability and control and flight testing. About 150 registered students from various departments participated in the workshop.



Workshop on “Design Thinking, Critical Thinking and Innovation Design”

21st October 2021

Institution’s Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram organized a workshop on “Design Thinking, Critical Thinking and Innovation Design” on 21st October 2021. 180 students attended the workshop.

DRONACHARYA
College of Engineering

Workshop on
DESIGN THINKING, CRITICAL THINKING & INNOVATION DESIGN

WED 21st October 2021
09 AM – 12 PM

Venue
•Microsoft teams
in “IIC” Team

Dr. Binita Phatak
Assistant Professor, IIT (BHU)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

ZERO To INFINITY
Crafting a Successful Engineering Career
Dr. Binita Phatak
IIT BHU Varanasi

DRONACHARYA

Building your Career
• Be Focused
- Know your career path (early planning)
- Take every semester seriously, take yourself against friends - focus on skills, your specialization
- Attend talks, conferences, seminars

B.Tech
job/industry
Defense [DRDO/ISRO /NAVY/AR FORCE]
Higher Education
MBA/MS/PhD
PhD/MBA
Regular PhD

Online Session on “Emerging Trends of Artificial Intelligence and Machine Learning”

20th October 2021

Institution’s Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram organized an enlightening online session on “**Emerging Trends of Artificial Intelligence (AI) and Machine Learning (ML)**” on **20th October 2021**. The session aimed to familiarize students and faculty members with the rapidly evolving landscape of AI and ML technologies and their applications in various domains.

The session was delivered by Prof. Yashwardhan Soni, who delivered a comprehensive talk covering the latest innovations and research directions in AI and ML. The speaker discussed the transformative impact of AI and ML on industries such as healthcare, finance, education, robotics, and cybersecurity.

Key topics included supervised and unsupervised learning, neural networks, deep learning, natural language processing (NLP), and real-time data analytics. The talk also explored future trends such as explainable AI, ethical AI, and the integration of AI with Internet of Things (IoT) and Big Data.

The session was highly interactive, with enthusiastic participation from students and faculty members. During the Q&A round, attendees discussed career opportunities, project ideas, and ongoing research in AI and ML.

The event concluded with a vote of thanks, appreciating the speaker's insights and the participants’ engagement. The session proved to be a valuable platform to inspire budding technologists and researchers to explore AI and ML as dynamic and impactful fields of study and innovation.



Workshop on Do's and Don'ts in Research and Technical Publications

4th October 2021

Institution's Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram organized a workshop on **“Do's and Don'ts in Research and Technical Publications”** on **4th October 2021** aimed at guiding students, research scholars, and faculty members in maintaining academic integrity and improving the quality of their research publications.

The workshop was facilitated by Dr. Neha Chauhan, a reputed academic and publishing expert, who shared essential guidelines and ethical practices involved in preparing and publishing research papers and technical articles. The session highlighted the importance of originality, clarity, proper referencing, and adherence to publication standards.

Key topics covered included:

- Structuring a research paper effectively
- Common pitfalls to avoid during manuscript preparation
- Understanding plagiarism and its consequences
- Selecting appropriate journals for publication
- Responding to reviewer comments and revising submissions

The speaker also emphasized the role of tools like plagiarism checkers, reference managers (e.g., Mendeley, Zotero), and journal selection portals. Participants actively engaged in the discussion, raising relevant questions about journal indexing, impact factors, and publication ethics.

The workshop concluded with a formal vote of thanks. It was a highly informative and practical session that provided clear guidance to researchers at all levels, encouraging responsible research conduct and quality publishing.



Engineer's Day Celebration

15th September 2021

On the occasion of **Engineers' Day**, **Dronacharya College of Engineering, Gurugram** organized “**Abhiyantriki 2021**” on 15th September 2021 to celebrate the life of **Bharat Ratna, Sir Mokshagundam Vishweshwaraya**. The event was attended by students and faculty members of all the departments. Some technical and techno-cultural event was organized.

The event was inaugurated by Principal **Prof.(Dr.) Isha Malhotra**. She addressed students and remembered the legacy of **Sir Mokshagundam Vishweshwaraya** and laid emphasis on the roles and duties of engineers in changing this world for the better. She said budding technocrats must learn from the life of **Sir Mokshagundam Vishweshwaraya** and accordingly contribute to the society.

The **Wise Owl Quiz Competition** was organized under technical events. In this competition a quiz was conducted on online platform called kahoot. Student Coordinator and host of the event were **Isha Dabas** and **Tanmay Srivastava**. The winners of the quiz competition, based on speed and accuracy in the quiz are: **Ankit Prajapati** (22643) from CSIT (5th sem) and **Prashant Karn** (23116) from CSE (3rd sem) scored first prize and **Ishank Gera** (23217) from CSE (3rd sem) scored second prize.

Tech Pirate was organized under technical events. The event was divided in 3 rounds with 1st round treasure hunt where participants searched for 15 treasures in their home. 2nd round was riddle round with 10 riddle and last round was quiz to solve clues and reach to final treasure. Winner was decided by the gold coins gathered by the participants.

Vineet Gahlan (22590) from EEE was the winner and **Nishant Singh Tanwar** (23093) from CSE was the runner up of the competition.

Poster My Pc was organized under technical events. Topics for the poster given to be students were : AI, Cyber Security , Big Data, Virtual Reality, Block Chain, IOT, Android vs IOS, 3d printing, 3d printing, Robotics Crypto currency. Student made poster in PPT and Paint on given topics and submitted in digital form. **Aditya Raj** from CSE Department was the winner and **Ankit Aryan** from EEE Department was the runner-up of the competition.

Unsung Tech was organized under technical events. The event was divided in 2 rounds. In the 1st round participants submitted case study on underrated innovation or technology for fighting climate change. In the 2nd round finalist gave online presentation on their topic.

Nikhil Kumar from ME Department was the winner and **Sumit Kumar** from ME and **Vineet Gahlan** from EEE Department were the runner-up of the competition.

Hoist The Mic was organized under Techno – Cultural Event. Under the event participants presented 5 min standup comedy act related to engineering and education. The participants were judged on the basis of content, humor, presentation.

Kartik Garg from IT Department was the winner and **Ajay Thakran** from ECE Department was the runner up of the competition.

Scribble was organized under Techno – Cultural Event. Participants were in the team of two. Event was conducted on MS Team. Participants were given maximum of 3 min time to complete the task.

Noorkaran and **Chirag Sharma** from CSE Department were the winner and **Jatin Kumar** and **Yatin Madan** from CSE Department were the runner up of the competition.

MEME for Engineers was organized under Techno – Cultural Event. The event garnered lot of fun activities. The event was divided in two rounds: 1st round: “wheel for fun” where participants is given task to perform and 2nd round: “Meme for engineers” where students submit their self-made memes.

Avinash Verma (23691) from R&A was the winner and **Dhruv Sharma** (22932) from ECE was the runner-up of the competition.

Talkie Challenge was organized under Techno – Cultural event. Under the event participants have to guess the movie with the help of picture shown. Participant has to find the common word from the picture and then replace that common word by “___” word given on the spot.

Harsh Baghel from CSE was the winner and **Divanshi Oberoi** from CSE Department was the runner-up of the competition.

DRONACHARYA
College of Engineering

Abhiyantriki-2021
(NATIONAL ENGINEER'S DAY MERRIMENTS)

September 15, 2021

TECHNICAL EVENTS	TECHNO-CULTURAL EVENTS
❖ The Wise Owl-Quiz Competition	❖ Scribble
❖ Poster My PC	❖ Talkie Challenge
❖ Unsung Tech	❖ Hoist the Mic
❖ Tech Pirate	❖ MEME for Engineers

IMPORTANT NOTE

- ❖ Student can participate in maximum three events of a day.
- ❖ Registration closes on September 12, 2021 (midnight)
- ❖ Registrations are acceptable only through shared Google form link.

DRONACHARYA
College of Engineering

Congratulations!
WINNERS
Abhiyantriki 2021

Technical Event	TechnoCultural Event
Poster My PC	Talkie Challenge
1 Aditya Raj Student of 2 nd Year Roll No : 22035 (CSE)	1 Harsh Baghel Student of 2 nd Year Roll No : 23212 (CSE)
2 Ankit Aryan Student of 2 nd Year Roll No : 22041 (CSE)	2 Divanshi Oberoi Student of 2 nd Year Roll No : 22040 (CSE)

Webinar on “Innovative Research Methodologies for Academics”

7th August 2021

The Institution’s Innovation Council (IIC), Ministry of Education (MoE), Dronacharya College of Engineering, Gurugram organized a webinar on “Innovative Research Methodologies for Academics” on 7th August 2021. The primary objective of the session was to acquaint faculty members, research scholars, and students with modern and effective research methodologies that are essential in the evolving academic landscape.

The keynote speaker for the session was Prof. Dimple Saproo (Faculty, DCE), who shared deep insights into contemporary research practices. The webinar focused on the integration of interdisciplinary approaches, qualitative and quantitative techniques, and the use of advanced digital tools and software to enhance research quality.

Topics covered included formulation of research problems, design of experiments, data collection and analysis strategies, ethical considerations in research, and the importance of publication in high-impact journals. Emphasis was laid on adopting innovative techniques such as action research, design thinking, and mixed methods research to tackle complex academic problems.

Participants actively engaged in the session, and the Q&A segment provided a vibrant platform for intellectual exchange. The event was particularly beneficial for young researchers seeking guidance on research planning, execution, and dissemination.

The webinar concluded with a formal vote of thanks to the speaker and participants. The session was highly informative and left attendees with valuable takeaways to improve the effectiveness and impact of their academic research.

