

Newsletter AY 2023-24

Department of Electronics and Telecommunication Engineering

HoD Desk

The newsletter serves as a platform for disseminating educational information, activities, and events related to the Department. We are delighted to present the third volume of the newsletter with some noteworthy updates from the Department of Electronics and Communication Engineering and the Institute during the preceding semester. This serves as a medium for information sharing, providing an opportunity for active engagement. Its objective is to share fundamental knowledge in electronics and telecommunication engineering fostering the capacity to apply fundamental problem solving approaches.

"Prof. S.H.Atre and Prof. S.M. Patil seeks Ph.D. Admission in E&TC Engineering"



Prof. S. H. Atre

Prof. S. M. Patil

1 Professor Atre S.H. was admitted to the Ph.D. program in Electronics and Telecommunication Engineering in August 2023 at Symbiosis International University, Lavale Campus, Pune. His area of interest is Artificial Intelligence and deep learning. Moreover, Prof. S.M. Patil was admitted to the Ph.D. program in Electronics and Telecommunication Engineering in April 2023 at PICT, Pune. His area of interest is Digital Image Processing. In recognition of their achievement, the Honorable Managing Director, Mr. Rohit Wangde, the Honorable Principal, Dr. A.D. Jadhav, the Honorable Vice Principal, Dr. U.R. More, the Head of the Department, and all

staff members of Electronics and Telecommunication, expressed their appreciation and congratulations.

"E&TC Dept. Celebrates Teachers', Engineers', and IETE Foundation Day"

2 The Department of Electronics and Telecommunication Engineering celebrated various events, namely Teachers' Day, Engineers' Day, and IETE Foundation Day, as part of the Student Activities. All staff and students enthusiastically participated and explored their ideas and knowledge of cutting-edge technologies. The activities were coordinated by Prof. Kharade U.B. under the guidance of the Honorable Principal, Dr. A.D. Jadhav, the Honorable Vice-Principal, Dr. U.R. More, the Honorable Dean of Student Activity cell Dr. S.S. Mulla, and the Head of the Department.



Guest Session organized, on account of celebrating IETE Foundation Day by IETE students Forum at DIET, Satara

"Industrial Visit: E&TC Students Explore Tech at Sai Industries"

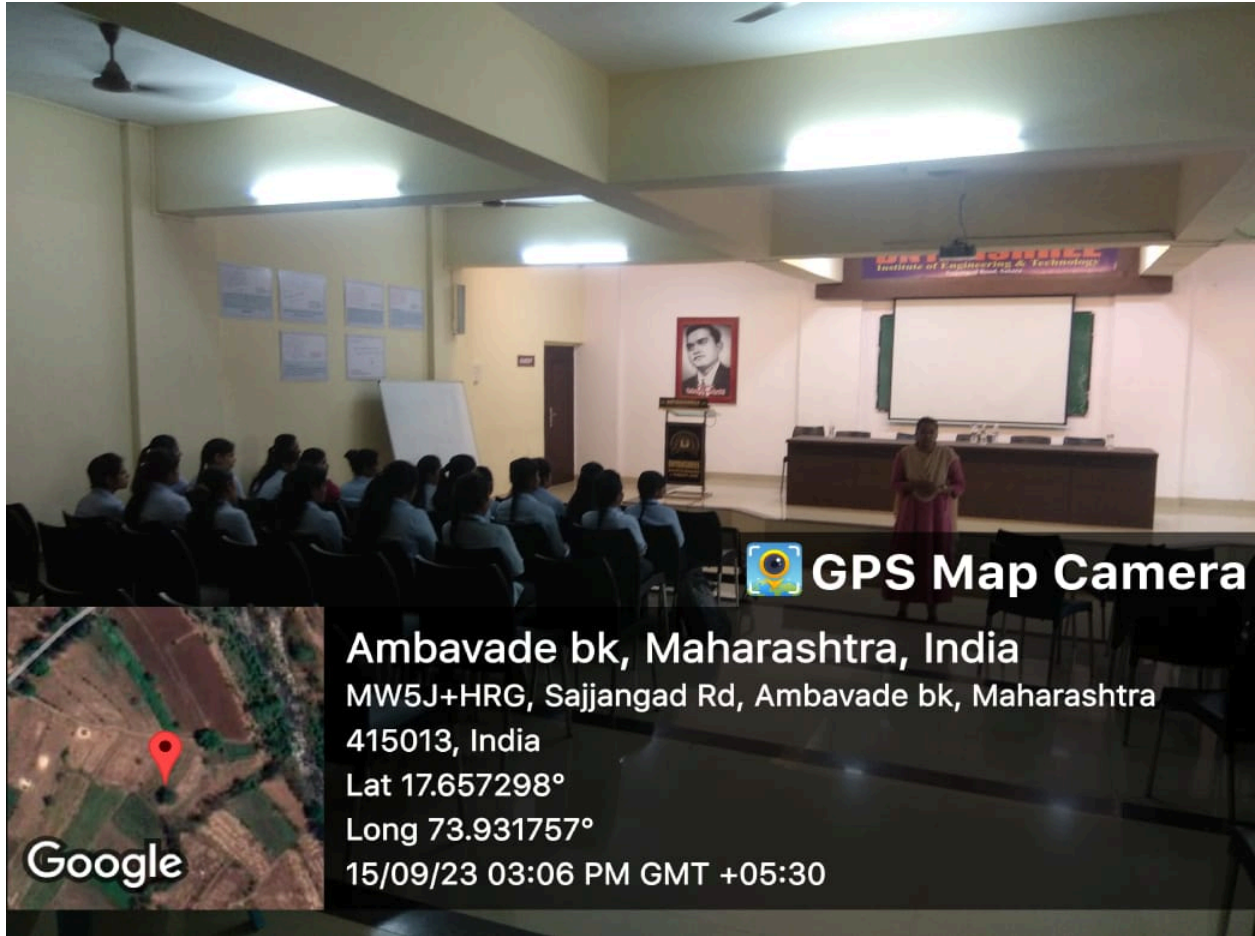
3 As part of the co curricular activity and to acquaint students with recent cutting-edge technologies, an industrial visit was arranged for second-year electronics and telecommunication engineering students at Sai Industries, MIDC, Satara, on Wednesday, November 8, 2023. During this visit, students gained knowledge of the manufacturing process of microcontroller-based medical equipment and the production process for both front and backside wipers of the car. A total of 62 students participated in the industrial visit. The event was successfully coordinated by Prof. Atre S.H. and supporting staff member Mrs. Pawar J.S.

"IETE Student Forum: Ethics, Tech, and IETE Foundation Day Celebration at Dnyanshree Institute"

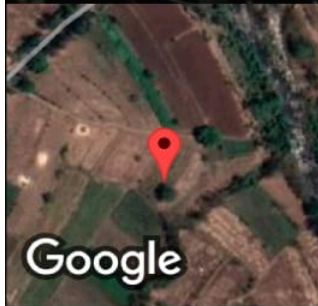
The IETE Student Forum at Dnyanshree Institute of Engineering and Technology, Satara, organized two events: 1) ISF Participative Activity on Professional Ethics and Etiquettes and 2) Pioneering Futuristic Technologies for India's Development.

The resource person, Prof. S.P. Jadhav from the Mechanical Department, conducted an expert lecture for Engineers' Day celebration on 15 September 2023. Additionally, Mr. M.S. Lakade, Managing Director of Indradeep Information Technology Pvt. Ltd Sangli, was the guest speaker for the IETE Foundation Day celebration at Dnyanshree Institute of Engineering and Technology, Satara. The activity was conducted on 2nd November 2023.

These activities were paramountly coordinated by Prof. Kharade U.B., the IETE student coordinator at Dnyanshree Institute of Engineering and Technology, Satara, under the guidance of the Honorable Principal, Dr. A.D. Jadhav, Honorable Vice-Principal, Dr. U.R. More, and the Honorable Dean of Student Activities, Dr. S.S. Mulla.



GPS Map Camera



Ambavade bk, Maharashtra, India

MW5J+HRG, Sajjangad Rd, Ambavade bk, Maharashtra

415013, India

Lat 17.657298°

Long 73.931757°

15/09/23 03:06 PM GMT +05:30



E&TC Faculty members participation in Communication skill club faculty interaction program

5 A Communication Skill Club was established under the Student Activity Cell from the academic year 2023-24 at DIET, Satara. The aim behind the formation of the club was to overcome the fear of the English language and improve communication skills. Faculty interactions are being conducted under this club, and all faculty members of Electronics and Telecommunication Engineering actively conducted and participated in the Faculty Interaction Program. Detailed information is given below:

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conducted under this club, and all faculty members of Electronics and Telecommunication Engineering actively conducted and participated in the Faculty Interaction Program. Detailed information is given below:

Session no.	Name of the Faculty	Designation	Topic	Date
1.	Dr. A. D. Jadhav	Principal	Philosophy of NAAC	25/08/2023
2.	Dr. U. R. More	Vice –Principal	Machine Interface & Electronics System: Aspects	01/09/2023
3.	Dr. S. S. Mulla	Dean, Student Activity Cell	RF & Microwave	09/09/2023
4.	Mr. U. B. Kharade	Assistant Professor, ENTC	Digital Signal Processing	15/09/2023
5.	Mr. S. M. Patil	HOD, ENTC	Meaning of words like innovation, research etc.	22/09/2023
6.	Ms. S.P. Jadhav	Asst. Professor	German Language	13/10/2023
7.	Mrs. S. M. Pawar	Asst. Professor	Introduction to Microstrip and Fractal Antenna	16/10/2023
8.	Mr. S.H. Atre	Asst. Professor	Numerical Methods	17/10/2023

"E & TC Launches Weekly Research Activities to Foster a Dynamic Research Environment"

6 Research activity in the department started on 14/10/2023. It has been decided to conduct the activity every Saturday. The main motive behind this initiative is to create a research environment in the department and encourage teachers to carry out their research. The department is motivated by the Honorable Principal Dr. A.D. Jadhav for initiating the research activities. So far, senior faculty from the Department of Electronics and Telecommunication have delivered lectures. Detailed information follows.

Sr. No.	Title	Date	Resource Person
1.	How to write and publish a scientific research article	14/10/2023	Dr. S. S. Mulla
2.	How to file a patent	21/10/2023	Dr. U. R. More
3.	Research Area / Domain	29/10/2023	Mrs. S. M. Pawar
4.	Publication Ethics	5/11/2023	Mr. S. M. Patil
5.	How to write thesis reports and research articles using Latex.	18/11/2023	Dr. S. S. Mulla

"Enhancing Technological Literacy: Cybersecurity Guest Lecture and LaTeX Typesetting Session at E&TC"

7. The Department of Electronics and Telecommunication Engineering organized a guest lecture on cybersecurity and a hands-on session on LaTeX typesetting for B.Tech students. All students

actively participated in the activities. The resource person for cybersecurity was Prof. Deshmukh, and for the LaTeX typesetting program, Dr. S.S. Mulla led the session. The program was coordinated by Prof. Dhanawade under the guidance of the Honorable Principal, Dr. A.D. Jadhav, and the Honorable Vice Principal, Dr. U.R. More.

News Report: Departmental Advisory Committee Meeting at DIET

In a recent meeting held at Dnyanshree Institute of Technology, Satara, the Departmental Advisory Committee convened to discuss key agenda items pertaining to the B.Tech Electronics and Telecommunication curriculum. The meeting, chaired by Head of the Department Prof. Suhas M. Patil, there were offline and online participation. Hon. Principal Dr. A.D. Jadhav, Hon. Vice Principal Dr. U. R. More and members of the advisory board were present for the meeting.

Prof. Suhas M. Patil extended a warm welcome to all committee members, providing a comprehensive overview of the department's mission and goals. A detailed presentation on the curriculum, specifically focusing on B.Tech Electronics and Telecommunication, was delivered. The distribution of credits across subject categories and the overall credit system were outlined.

The committee engaged in an open dialogue regarding the selection of open elective subjects within the department. The Hon. Principal justified the reason behind choosing specific elective subjects, emphasizing their relevance to industry knowledge. Prof. Deshmukh Madam emphasized the need for coherence among chosen open elective subjects and inquired about steps taken for industry readiness.

In response, the Hon. Principal highlighted various initiatives, including internship programs, value-added programs, industry-sponsored projects, and the establishment of an incubation center and center of excellence, all aligned with AICTE norms.

Dr. Sajeed S. Mulla proposed the inclusion of course laboratory details in the syllabus, to which the Hon. Principal clarified that recommendations have been forwarded to the university, and the syllabus aligns with university guidelines. HoD Prof. Suhas M. Patil sought input on

industry-relevant subjects, with suggestions such as blockchain technology and wireless sensor networks from committee members.

Notably, Mr. Pankaj Gondak, Senior Engineer at Reliance Telecom Ltd, suggested mandatory industrial visits to telecom industries and CCNA courses for all electronics and telecommunication students. Mr. Prathamesh advocated for an elective course like VLSI, emphasizing a practical-oriented approach.

Prof. Suhas M. Patil emphasized the critical role of industry input in the selection of open electives and stressed the importance of organizing industrial visits to enrich students' experiences.

The meeting concluded with HoD Prof. Suhas M. Patil expressing gratitude to all committee members for their active participation despite their busy schedules.

This productive session showcased a collaborative effort to enhance the quality and industry relevance of the B.Tech Electronics and Telecommunication curriculum at Dnyanshree Institute of Engineering and Technology, Satara.



****Parent Faculty Interaction Meet ****

Lonere, September 16, 2023 - Department of Electronics and Telecommunication Engineering recently hosted a significant Parent Faculty Interaction Meet on September 16, 2023, at 11:00 am. The event aimed to foster a constructive dialogue between parents, faculty, and students.

A total of 15 dedicated parents participated in the event, engaging in insightful conversations with both students and faculty members. The discussions encompassed crucial aspects such as student progress, attendance, preparation for placement, the scope of the core engineering field, and skill development opportunities, all of which contribute significantly to the holistic development of students.

Parents actively supported the department's initiatives and provided valuable suggestions for enhancing student performance. During the meet, class teachers meticulously presented examination performance data and overall attendance records of their respective students to their parents. This transparency allowed for an open discussion on the strengths and areas of improvement for each student.

Acknowledging the collaborative effort required for academic success, the faculty advised parents on ways to assist students who faced challenges in examinations and addressed issues related to attendance among certain students. The interactive session proved to be a platform for constructive feedback, fostering a strong partnership between parents and the academic institution.



Group Photo of Parents and Teachers

****Professional News Article: Alumni Meet****

Lonere, September 2, 2023 - Department of Electronics and Telecommunication Engineering and Department of Electrical Engineering jointly hosted a Alumni Meet on September 2, 2023, at 10:00 AM,

The event, attended by a total of 14 esteemed alumni, provided a valuable platform for former students who have ventured into diverse career paths, with some successfully placed in core and IT industries, while others have embarked on entrepreneurial journeys.

During the Alumni Meet, participants engaged in fruitful interactions with current students and faculty members, sharing insights on placement strategies, business opportunities, market demands, and the expansive scope of the core engineering field. The discussions also delved into the importance of skill development, aligning academic pursuits with industry needs.

The alumni extended support for the department by expressing a willingness to contribute to the academic ecosystem, organizing workshops, training sessions focusing on recent industry trends, and facilitating industrial visits. Such initiatives aim to equip current students with the knowledge and skills necessary for success in multinational corporations and empower them to pursue entrepreneurial endeavors.



Alumni Interaction with faculty and students

News Report on Gate-2024 Coaching classes:

The Career Guidance Program was organized by the Department of Electronics and Telecommunication Engineering at Dnyanshree Institute of Engineering and Technology aimed to provide GATE coaching for B.Tech E & TC students. This initiative, conducted from 15/01/2024 to 20/01/2024, played a vital role in shaping the academic and professional aspirations of the participants.

Under the guidance of Hon. Dr. U. R. More, Vice Principal and Hon. Dr. A. D. Jadhav, Principal all faculty members actively contributed to the successful execution of this activity. The meticulous planning and supervision by Dr. Sajeed S. Mulla, Head, Electronics and Telecommunication Engineering ensured a well-structured and effective coaching schedule. The coaching program spanned five days, fostering a focused learning environment from 15/01/2024 to 20/01/2024. The coaching sessions were designed to be interactive, fostering engagement and collaboration among participants and faculty members. Subject experts from the Electronics and Telecommunication Department shared their expertise, providing valuable insights into the GATE examination and guiding students towards a comprehensive understanding of the subject matter. Total 16 students of B.Tech ENTC attended the coaching sessions. The small group setting facilitated personalized attention, enabling students to clarify doubts and engage in meaningful discussions. The GATE coaching classes not only equipped participants with a deeper understanding of the subject matter but also served as a platform for motivation and guidance. Students were encouraged to aim for excellence in their academic pursuits and future endeavors.

The success of the GATE coaching activity underscores the commitment of the Department of Electronics and Telecommunication Engineering at Dnyanshree Institute of Engineering and Technology towards the holistic development of its students. The valuable lessons learned during these sessions will undoubtedly contribute to the academic and professional growth of the participants.

News Report on Industrial Visit To “GMRT-Tata Institute of Fundamental Research (2023-2024)”

The Industrial visit was carried out at GMRT on 28th February, 2024 for TY B.Tech, SEM VI Electronics and Telecommunication Engineering Students. Dr. Sajeed S. Mulla, Prof. Sucheta M. Pawar, Prof. Shrirang H. Atre, and Prof. Aniket M. Khandekar along with 61 students were visited GMRT. The main objective of this visit was that, as a part of the Electronics and Telecommunication Engineering, the students need to know practical fundamentals, implementation, functionality, and mechanism of antennas as also to get the knowledge of the Radio Telescope, different components involved, hardware software co-design, etc. The site for GMRT, about 10 km east of Narayangaon town on the Pune-Nashik highway, was selected after an extensive search in many parts of India, considering criteria such as low man-made radio noise, availability of good communication, vicinity of industrial, educational and other infrastructure and, a geographical latitude sufficiently north of the geomagnetic equator in order to have a reasonably quiet ionosphere and yet be able to observe a good part of the southern sky as well.

After reaching, students were guided by the staff member towards one of the big antennas. It was great to know that GMRT consists of 30 fully steerable gigantic parabolic dishes of 45m diameter each spread over distances of up to 25 km. After introduction all students were shown the big antenna and were told about how it works and were guided about its various functionalities. The metre wavelength part of the radio spectrum has been particularly chosen for study with GMRT because man-made radio interference is considerably lower in this part of the spectrum in India. Fourteen of the thirty dishes are located more or less randomly in a compact central array in a region of about 1 sq. km. The remaining sixteen dishes are spread out along the 3 arms of an approximately ‘Y’- shaped configuration over a much larger region, with the longest interferometric baseline of about 25 km. The visit concluded with an interactive session for the students, where they got an opportunity to interact with the concerned authorities and gain more knowledge. Project assistant also explained different types of antennas operating in the frequency range of 50MHz to 1500 MHz used in radio telescopes. They showed and demonstrated a dual polarization dipole antenna, the also demonstrated a low noise amplifier of frequency range 50MHz to 250MHz. Students asked different questions about antenna and low

noise amplifiers, however the project assistant was given satisfactory answers. It was a great learning experience for one and all.



Personality of the DIET

****Professional News Report: Initiating Free Education for Children of Sugarcane Harvest Workers****

In a commendable effort to address the educational disparity among the children of sugarcane harvest workers, Prof. P. B. Nikam from Dnyanshree Institute of Technology, Satara, has taken a pioneering step by offering free education. This initiative comes in light of the stark contrast between the educational opportunities available to children from affluent families and those from the economically challenged backgrounds of sugarcane harvest workers.

While privileged children have access to tuition and education in esteemed institutions by paying substantial fees, the unfortunate reality for the children of sugarcane harvest workers is vastly different. These families, who migrate to various parts of Maharashtra for sugarcane harvesting after Dussehra, live in makeshift huts in open spaces. Working tirelessly from November to March, these laborers often start their day at 5 am, with no fixed return time.

Despite their relentless efforts, the meager earnings of these families make quality education an unaffordable luxury. Consequently, children in the fifth, sixth, and seventh grades struggle with inadequate reading and writing skills. This stark educational divide in rural India remains a poignant challenge, even as the country excels in technological achievements, such as reaching the Moon.

Prof. P. B. Nikam's noble initiative to provide free education to the children of sugarcane harvest workers is a beacon of hope in addressing this societal imbalance. His commitment to bridging the educational gap has garnered appreciation and congratulations from various parts across the Satara district.

Hon. Bhai Wangde, Founder of DIET, along with Hon. Rohit Wangde, Managing Director, Hon. Dr. A. D. Jadhav, Principal, Hon. Vice Principal Dr. U.R. More, and all staff members of DIET, Satara, have expressed their admiration for Prof. P. B. Nikam's extraordinary efforts and his dedication to making a positive impact on society.

Student Corner:

"Dnyanshree Triumphs in DBATU Interzonal Kabaddi Tournament 2023"

The DBATU Kolhapur Interzonal Kabaddi Tournament occurred on December 1, 2023, at Yashoda Technical Campus, Satara. Participants from Dnyanshree Institute of Engineering and Technology, including Nikita Kalantre, Aditi Salunkhe, and Rupali Jadhav from B.Tech (E & TC), played in the women's team. However, Pritesh Ambrale from B.Tech (E&TC) class, and Aadarsh Sathe from T.Y. (E&TC) class, participated in the men's team.

The game comprised 5 rounds, and Dnyanshree College demonstrated dominance in each round. The Men's team progressed to the semi-final, where they faced Yashoda College of Engineering, Satara. After securing victory in the semi-final, Dnyanshree Institute of Engineering's Men's team advanced to the final against Pharmacy College, Medha, Satara. In a fiercely contested match, Dnyanshree emerged triumphant, securing the Interzonal Kabaddi Tournament Trophy for the year 2023. On the other hand, the Women's Kabaddi team won the third prize in the competition.

Training and Placement

1. Sakshi Bhillare
2. Sanket Bhosale Applications of Programmable Logic Controllers

Value Added Program on Applications of Programmable Logic Controllers

The Department of Electronics and Telecommunication Engineering organized a Value Added Program (VAP) on 'Applications of Programmable Logic Controllers' at Dnyanshree Institute of Engineering and Technology, Sajjangad Road, Satara. The primary objective of the program was to familiarize students with both the theoretical foundations and practical applications of automation, as well as the latest technologies employed in industrial automation. The VAP served as a platform for students to enhance their technical skills, thereby improving their prospects for employment in core electronics industries. The program, conducted by BS Technology Pvt. Ltd., Pune, took place from the 11th to the 13th of March 2024 and then from the 19th to the 20th of March 2024. The venue for the VAP was the Mitsubishi Electrical Automation and Mechatronics Center of Excellence. Spanning five days, with a total duration of 30 hours (comprising three sessions per day), the workshop was led by Mr. Vinay V. Dange of BS Technology Pvt. Ltd., Pune. A total of 45 students from the final year B.Tech program in Electronics and Telecommunication Engineering attended this value-added program.

The Head of the Department Dr. Sajeed S. Mulla, senior faculty member Prof. Suhas M. Patil, program coordinator Prof. Sucheta M. Pawar, and faculty member Prof. Aniket M. Khandekar were present for the inaugural session of the VAP. The VAP was inaugurated by Dr. Sajeed S. Mulla, HoD, Electronics and Telecommunication Engineering. Prof. Sucheta M. Pawar introduced the resource person of the VAP, Mr. Vinay V. Dange. However, Prof. Suhas M. Patil addressed the students; in his speech, he explained the

importance and objectives of the program. The Head of the Department, Dr. Sajeed S. Mulla, addressed the students by introducing the essential knowledge of automation in day-to-day life.



Guest Lecture ofn Cyber Security: Enlightens Final Year Students at Dnyanshree Institute

The **Department of Electronics and Telecommunication Engineering** at **Dnyanshree Institute of Engineering and Technology, Satara**, organized an insightful seminar on **Cyber Security** on **26th**

September 2023 for the **final year B.Tech students**. The session saw enthusiastic participation from **56 students**.

The resource person for the seminar was **Mr. Hemant V. Deshmukh** from **Komal Infotech Private Ltd.**, who brought valuable industry perspectives and expertise to the session.

The seminar covered a wide array of critical topics in the realm of cyber security, including:

- **Current Cyber Threats**
- **Essentials of Security Principles**
- **Cyber Security in E-commerce**
- **Cybersecurity Frameworks and Best Practices**
- **Security Awareness and Training**
- **Technological Solutions**

Mr. Deshmukh emphasized the growing significance of cybersecurity in an increasingly digital world and elaborated on real-world threats and the corresponding defense mechanisms. The session aimed to provide students with foundational knowledge and best practices in safeguarding information and systems.

The event was coordinated by **Ms. Sucheta Pawar**, whose efforts ensured the smooth execution of the seminar. The interactive session concluded with a Q&A round, where students raised thoughtful questions, showing keen interest in pursuing cybersecurity as a future career path.

Such initiatives by the department play a vital role in bridging the gap between academic learning and industry practices, preparing students to tackle real-world challenges.