

Monthly

Newsletter

Jan – Feb, 2022

Message from HoD



I wish to convey my wishes to all the students and faculty members for making this semester a wonderful one. Various events will be conducted in the even semester 2022 which creates awareness among students for latest technology and industry demands.

- Ashish Kumar Gupta

Guest Lecture on “ Network Analysis”

The department of ECE has successfully organized a technical session on “**Basics of Network Analysis**” in association with **ACE Academy on 18th Jan 2022**. ACE Academy is a premier institute in guiding students in GATE AND PSU exam preparations. As we face the perpetual



challenge of keeping each class session fresh and interactive, so ECE Department has invited **Mr. Anish Sing Rajput** (Ex IES, GATE AIR 8, ISRO Qualified) to guide our students to prepare for subjects at university level itself. As none of us is an expert on everything, so we tried to bring speakers with proven expertise in a topic

provides added credibility to our content. Hearing new voices provides students not only with different points-of-view, but also with potential resources they can apply in later courses.

Specialization in IoT and Robotics

In the next five years, companies will spend almost \$5 trillion on the IoT, showing that we can all expect a rise in the combination of these

technologies and the resulting capabilities in number of industries.

In the view of current industry demands, department of ECE is focusing on IoT and Robotics. To fulfill the gap between curriculum and industry demands, department has established a Robotics Lab (E-Yantra) in collaboration with IIT Bombay.



Now we started working on IoT as well on regular basis. Students have been assigned projects based on IoT and Robotics.

Hosted MoU Signing Ceremony

On “National Science Day” ECE Department has successfully planned and hosted the signing ceremony of Memorandum of Understanding (MoU) between Shivalik College of Engineering and ICAR-Indian Institute of Soil and Water Conservation, Dehradun. This is an initiative to collaborate for technological up-gradation, innovation, effective utilization of the intellectual



capabilities and competitiveness. Both Organizations believe that close co-operation

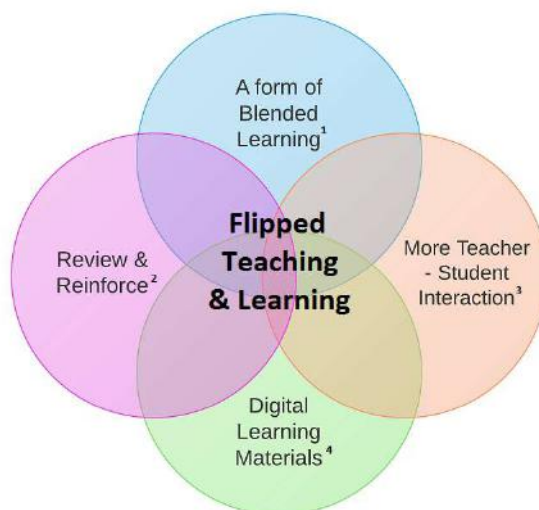
between the two would be of major benefit to the society. This MoU contains five clauses:

Clause 1 represents the CO-OPERATION, Clause 2 includes SCOPE OF THE MoU, Clause 3 represents INTELLECTUAL PROPERTY, Clause 4, discusses VALIDITY of the MoU and Clause 5 expresses the RELATIONSHIP BETWEEN THE TWO ORGANIZATIONS.

The Key persons of the ceremony were Dr. M. Madhu, Director, Indian Institute of Soil and Water Conservation (IISWC) Dehradun, Dr. D.V. Singh Principal Scientist & Acting Head (HR & Social Science), ICAR, Dehradun, Dr. Muruganandam Muthiah, Principal Scientist & OIC Research Prioritization, Monitoring and evaluation cell, IISWC, Dehradun , Dr. Shankar In-charge, IISWC, Selaqui, Dehradun, Dr. Prahlad Singh, Director, Shivalik College of Engineering, Dehradun, Dr. Md. Danish, Dean research, Dr. Ganesh Kumar, Principal, College of Pharmacy, Dean Student welfare and heads of departments.

Advanced teaching learning Process

In today’s competitive environment it is the need of time to update and enhance the teaching learning process. In order to give our students an edge over other students, ECE department has implemented the concept of Flip classes. It is a model that uses a blended form of learning and will result in increased student engagement.



The flipped classroom intentionally shifts instruction to a learner-centered model, in which students are often initially introduced to new topics outside of class, freeing up classroom time for the exploration of topics in greater depth, creating meaningful learning opportunities.

Among various benefits of a flipped class environment, enhancement in the communication skills of students is greatly emphasized essentially referring to: student-student and student-teacher interactions. It also avoids the overarching idea of "cramming" for exams and forgetting the information post-examination, as it encourages students to understand the underlying rationale behind the information provided to them.

Ms. Priyamvada participated in ATAL FDP titled as **"Outcome Based Learning"** on 11-01-2022 to 15-01-2022 and **"Robotics"** on 14-02-2022 to 18-02-2022.

All faculty members and students of 2nd, 3rd and 4th year are doing online MOOC courses through NPTEL in different areas.

Research and Development

In a globalized world, the role of research in an academic institution is significant for its sustainability and development, and it is imperative to have knowledge-driven growth based on innovation. Our education system faces number of constraints and challenges—quality research is one of them.

Mrs. Shabnam Ara appointed as research representative of the department of ECE. She published a research paper titled as "Compact structure in patch antenna for X band application" in IEMECON (an IEEE conference) in Feb 2022.

Mrs. Shabnam Ara participated in ATAL FDP titled as **"Machine Learning and Deep Learning using Python"** on 04-01-2022 to 08-01-2022.

Mr. Ashish Kumar Gupta participated in ATAL FDP titled as **"Wireless Sensor Networks and IoT"** on 10-01-2022 to 14-01-2022 and **"SCILAB and XCOS-FOSS Alternatives for MATLAB and Simulink"** on 07-02-2022 to 11-02-2022.

Mr. Sunil Sharma participated in ATAL FDP titled as **"Industrial IoT using Labview"** on 03-01-2022 to 07-01-2022 and **"Control System: Sensor Technology"** on 11-01-2022 to 15-01-2022".

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