PRELUDE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

JIS College of Engineering, Kalyani, WB

Editors

FROM THE DESK OF THE EDITORIAL BOARD!

To educate students from the foundations to the state of art knowledge in the development of electronic devices and communication systems with design optimizations and to carry out research through constant interaction with research organizations and industry. To nourish the mind of growing engineers through qualitative evaluations, internal assessments, corporate trainings, efficient technical communication skills and creative project assignments. To motivate the engineers of the future through competition in communication skill, seminar presentation, project, and group discussion. To encourage the intended engineers in kind, humble and moral behavior with ignition in mind to contribute for the welfare of society.

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DEPARTMENTAL VISION AND MISSION

VISION

To excel in electronics & communication engineering in order to meet the challenges of modern industrial society through quality technical education, research, innovation and teamwork.

MISSION

DM1

To educate students from the foundation to the state-of-art knowledge in the development of electronic devices and communication systems with design optimizations.

DM2

To nourish the mind of growing engineers through qualitative evaluations, internal assessments, corporate trainings, efficient technical communication skills and creative project assignments.

DM3

To motivate the engineers of the future through competition in communication skill, seminar presentation, project, and group discussion.

DM4

To encourage the intended engineers in kind, humble and moral behavior with ignition in mind to contribute for the welfare of society.

Program Educational Objectives (PEOs)

PEO1

Graduates will have a strong foundation in engineering, science, and technology that will enable them to succeed as engineers and innovators in their respective fields.

PEO2

Graduates will comprehend, analyze, develop, & design unique products to address real-world challenges.

PEO3

Graduates will pursue their education beyond the undergraduate level, conduct diverse research, and advance their professional competencies.

PEO4

Graduates will recognize, formulate, and use professional skills and ethics to address industrial, societal, and environmental concerns.

PEO5

Graduates will communicate efficiently and maintain ethical guidelines as a member or leader in a group and as an entrepreneur.

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

2. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

3. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

4. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

5. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

sustainable development.

6. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

7. Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary settings.

8. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

9. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.

10. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

1. PSO1: Technical Knowledge and Analysis: Ability to Identify, Formulate & Solve problems of Analog & Digital Circuits, Communication, Networking, Signal & Systems, Computer Programming, Embedded Systems and Semiconductor Technology by applying the knowledge of Basic Sciences, Engineering Mathematics and Engineering fundamentals.

2. PSO2: Design & Implementation: Ability to design the systems of Electronics & Communication Engineering using advanced hardware and software tools with analytical skills to achieve societal needs keeping environmental awareness intact.

3. PSO3: Creation of Professional Engineers: Ability to analyze and transfer knowledge of various areas, like Communication Systems, Signal Processing, SoC (System on a Chip), VLSI and Nanotechnology to achieve a successful career as Engineering Professional, Researcher, Academician and Entrepreneur who can who can direct to implement the real-world applications along with ethical responsibility.

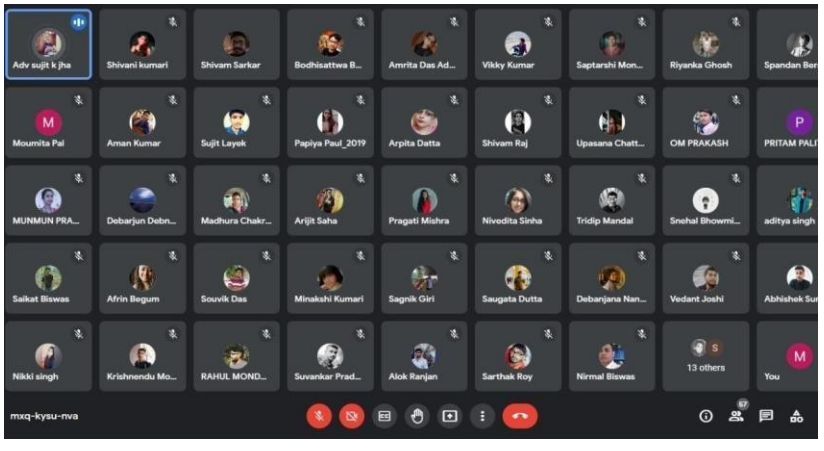
ALUMNI CONNECT TASK

ORGANIZED BY ECE DEPARTMENT

The Department of Electronics and Communication Engineering has organized a lot of Alumni Connect Programs for the current students to get benefits by gathering information on current requirement in industry and interview process for fresher. Some of lectures are related to industry. Mr. Sabyasachi Sinha, Dr. Neelan Jana Sengupta, Ms. Ayendreyee Sinha, and more Alumna ECE, JISCE, and currently were the invited . speaker in several alumna connect program. Huge numbers of participants were attended these types of meetings. All the programs were coordinated by Professors of Department of ECE. The speaker explained the present-day scenario/ requirement in Industry in most sophisticated way. Also, they clarified regarding how to prepare for an interview/ how to crack a good job etc.

CULTURAL ACTIVITY

ORGANIZED BY ECE DEPERTMENT

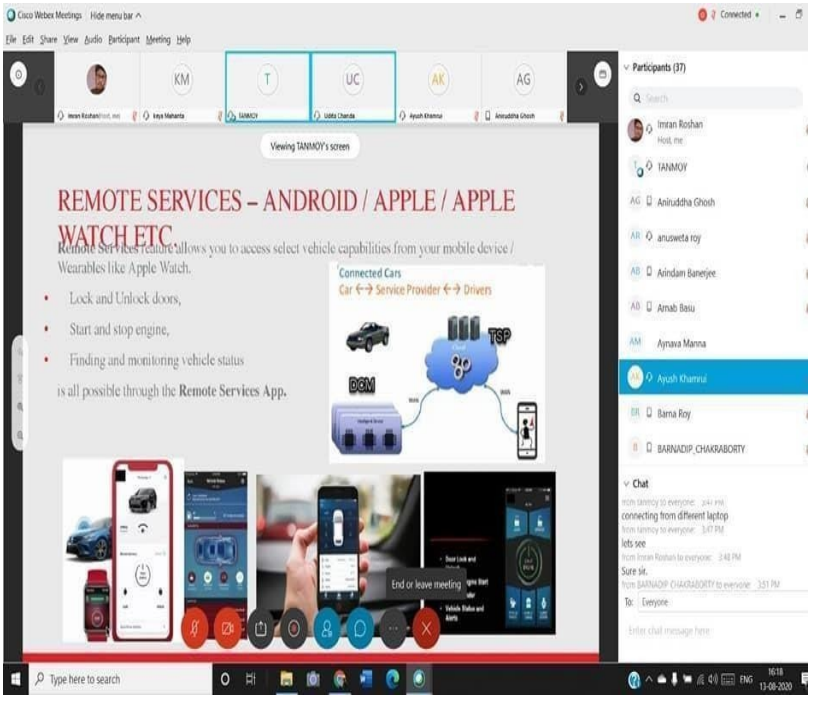


WORKSHOP

ORGANIZED BY ECE DEPARTMENT

The Department of Electronics and Communication Engineering has continuously organized a huge number of workshops for the benefits of students, faculty members as well other staff members also to acquire knowledge regarding various subjects and teaching or industry related aspects. Some important events are listed here.

- Online Workshop Ethical Hacking and InfoSec on 4th Nov, 2020.
- Professional Programming Techniques- Employability Skill Development Initiative 24th Nov, 2020.
- Workshop on Remote Services- Android/ Apple/ Apple Watch etc.
- FDP on Recent Research Trends of AI/ML and Data Science, Duration 5th- 10th Dec, 2020.
- Workshop on Firebase in Internet of Things on 12th Feb, 2021.



STUDENTS PLACEMENT 2020 – 2021

Name of The Company	Department	Date of Interview	Organized by	Candidates
Capgemini	ECE	19/11/20	JIS group	Deepanjan Banerjee DEBASHREE MAITI
Presistance	ECE	27/11/20	JIS group	PUJA JAYDHAR
CTS	ECE	12/12/20	JIS group	ARVIK SAIN AYAN SAHA
British Telecom	ECE	18/12/20	JIS group	ARKA SARKAR TIRTHANKAR DEY
TCS	ECE	07/01/21	JIS group	INDRA DEY SUBHAM VERMA
Accenture	ECE	14/02/21	JIS group	SAMBHABI BANERJEE SAHELI DHAR

THANKS

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