Gokaraju Rangaraju Institute of Engineering and Technology
(Autonomous)
Department of Electronics and Communication Engineering

Summary Sheet of Guest Lectures under ISACA
Academic Year 2023-2024

S.No	Title of the Program	Speaker	Date	Total Participants
1	Applications of AI in biomedical image processing	Dr. P.V. Naganjaneyulu, PROFESSOR Department OF ECE, SCHOOL OF ENGINEERING, MIZORAM UNIVERSITY(Central University)	27 June 2024	158
2	PCB Design Workshop	Prof. A Radhanad, Associate Professor, Dept of ECE	3 June 2024	30
3	Developments in Aerospace	Skyroot Aerospace	15 March 2024	81
4	Jio 5G Seminar	Dr Balaji Kotakonda, Sales and Distribution, Head of Telangana State	14 Sep 2023	157
5	PCB Design Workshop	Prof. A Radhanad, Associate Professor, Dept of ECE	16 Oct 2023	30
6	NavIC, i.e, Indian GPS which is an Independent Navigation Satellite System	Dr P Naveen Kumar, Director Infra, Professor, OU	10 Oct 2023	120
7	Indo Dutch Cyber Security School, online action learning for students and professionals	Christopher Painter – fmr. US Cyber Diplomat, \ Venkatesh Murthy Director of Data Security Council of India \ Virtual Event, Daily the classes are organized in the second half of the day for 2 hours.	6th October- 10th November 2023	25

EVENT SUMMARY REPORT

Griet/Other institutes/Organization Address:	**Gokaraju Rangaraju Institute of Engineering & Technology Nizampet Road, Bachupally, Kukatpally Hyderabad- 500090, Telangana State, India.**			
Department	**ECE**	**Professional Body**	**Institutional Body**	
		ISACA	**GRIET**	
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**GUEST LECTURE**			
Title / Theme of the Event	**Applications of AI in biomedical image processing.**			
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE			

Event Dates/Days	From	To	No. of Days
	27 June '24	27 June '24	1

Details of the Speaker / Guest Organization Address:	Guest Lecture by Dr. P.V. Naganjaneyulu PROFESSOR ,Department OF ECE, SCHOOL OF ENGINEERING MIZORAM UNIVERSITY(Central University) AIZAWL, MIZORAM 796004, INDIA

Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	5	146	4	2	158

Faculty Names & Designation	1. Dr M Kiran Associate Professor, Dept of ECE 2. Dr K Jamal Professor, Dept of ECE 3. Dr. T. Padma- Professor, Dept of ECE 4. Dr V Hima Bindu Professor, Dept of ECE 5. Dr K Meenakshi Professor, Dept of ECE

Summary of the Event	Artificial Intelligence (AI) has become increasingly significant in the field of biomedical image processing, offering transformative applications that enhance the accuracy and efficiency of medical diagnostics and treatment planning.

Prof. Naga Anjaneyulu's work in this area likely emphasizes the role of AI, particularly deep learning, in automating complex tasks such as image segmentation, classification, and lesion detection. These AI-driven techniques allow for more precise identification of abnormalities in medical images like MRI, CT scans, and X-rays. For example, deep learning models, especially Convolutional Neural Networks (CNNs), have been shown to significantly improve tumor detection by identifying key features such as shape, size, and location, which is crucial for early diagnosis and treatment planning.

AI also supports personalized medicine by analyzing individual patient data to suggest customized treatment plans, potentially improving outcomes and reducing side effects. Additionally, AI's ability to process large datasets efficiently means that it can uncover patterns in medical images that might be missed by traditional methods, further aiding in the early detection of diseases and guiding surgical procedures. |
| **IRG (**in rupees**)** | 0 |
| **Expenditure (**in rupees**)** | INR 5000 |
| **POs attained with this Event** (number and description) | PO e. Ability to identify, formulate, and solve engineering problems.
PO f. Understanding of professional and ethical responsibility.
PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context.
PO i. Ability to recognize the need for, and to engage in life-long learning.
PO j. Develop knowledge of contemporary issues.
PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects. |

Photographs of the event (Hard copy and soft copy)	
Proofs: **1.Certificates copies** **2.Profile of Speaker** **3.PPT/Material as** **applicable. etc.,**	-

Signature of Coordinator   **Signature of HOD**
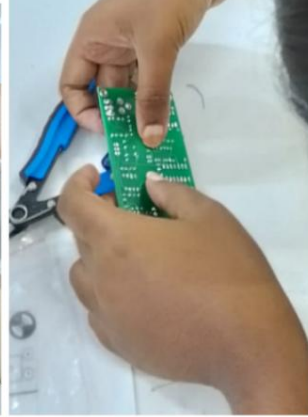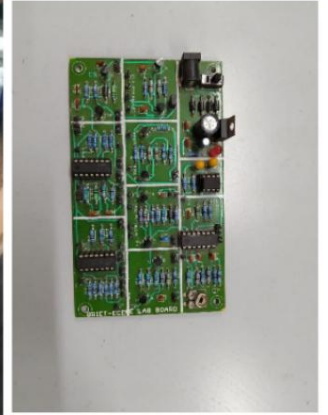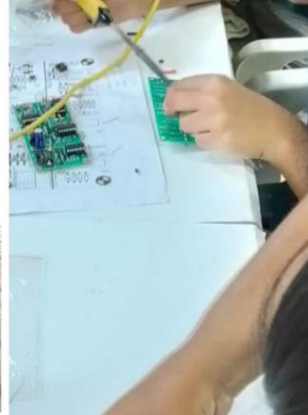
Griet/Other institutes/Organization Address:	Gokaraju Rangaraju Institute of Engineering & Technology Nizampet Road, Bachupally, Kukatpally Hyderabad- 500090, Telangana State, India.				
Department	**ECE**	**Professional Body**	**Institutional Body**		
		ISACA	**GRIET**		
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**WORKSHOP**				
Title / Theme of the Event	**Skilling Programme on PCB Design and Fabrication**				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE				
Event Dates/Days	From	To	No. of Days		
	3 June 2024	3 June 2024	1		
Details of the Speaker / Guest Organization Address:	1. Prof. A Radhanad, Associate Professor, Dept of ECE 2. Mr D V Satya Sai Kumar				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	3	30	0	0	30
Faculty Names & Designation	1. Dr Ch. Usha Kumari, Professor & HoD, Dept of ECE 2. Dr K Jamal Professor, Dept of ECE 3. Dr V Hima Bindu Professor, Dept of ECE				

Summary of the Event	A one day skilling programme on PCB design and fabrication was conducted for 30 students of II year ECE Students. The following processes were done hands-on by the students
	Step 1:PCB schematic capture and board design using Eagle CAD software. A simple power supply circuit was taken for implementation. The students learnt how to select components, draw the schematic, do electrical rule checks, placement of components and routing of the board
	Step 2: Printing the circuit, transferring the circuit onto copper clad using heat process with clothes irons. Copper clad boards of the proper size were used and the circuit was transferred to them using the heat process. Each board was marked with the student roll number
	Step 3: Etching the copper clad in ferric chloride solution. The copper clad boards were dipped in the ferric chloride solution and left for about an hour for the etching process to be completed
	Step 4: Manual drilling of holes using hand-held battery operated drills
	Step 5: Soldering of the PCB using temperature controlled soldering stations
	Step 6: Testing of the PCB
	The circuit designed, assembled and tested was a full-wave rectifier based power supply. The circuit was designed as a single sided PCB. Each student produced and tested successfully his/her own PCB.
IRG (in rupees**)**	15000
Expenditure (in rupees**)**	INR 5000
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

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Signature of Coordinator

Signature of HOD

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Department	ECE	**Professional Body**	**Institutional Body**		
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Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**GUEST LECTURE**				
Title / Theme of the Event	**Developments in Aerospace, Skyroot, 15 March 2024**				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE				
Event Dates/Days	From	To	No. of Days		
	15 March 2024	15 March 2024	1		
Details of the Speaker / Guest Organization Address:	**Mr. Deepankar, Deputy Manager, Skyroot Aerospace** **Vaidehi, Aerodynamics Engineer, Skyroot Aerospace**				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	3	68	8	0	81

Faculty Names & Designation	1. Dr K Jamal Professor, Dept of ECE 2. Dr Anitha Lakshmi, Associate Professor & HoD, Mechanical Engineering 3. Dr.Mohammed Hussain, Professor, Civil Engineering
Summary of the Event	Skyroot Aerospace, an Indian private space-tech company, has been actively working on significant milestones, such as the development and testing of the Vikram-1 rocket.

1. Introduction to Skyroot Aerospace

- **Overview**: Introduction to Skyroot Aerospace, an Indian private space-tech company founded in 2018 by former ISRO scientists.
- **Mission and Vision**: Skyroot's aim to make space more accessible and to provide cost-effective space launch solutions.

2. Key Milestones and Achievements

- **Vikram Series**: Introduction to the Vikram series of rockets (Vikram I, II, and III).
- **Vikram-S Launch**: Discussion of the successful launch of Vikram-S, India's first privately developed rocket, and its significance.
- **Technology Innovations**: Highlights of Skyroot's use of 3D printing for rocket engines, lightweight composite materials, and modular design for rapid development.

3. Recent Developments

- **Vikram-I Rocket**: Updates on the development and upcoming launch plans for the Vikram-I rocket.
- **Funding and Partnerships**: Information on Skyroot's recent funding rounds, partnerships with other space organizations, and government support.
- **Launch Services**: Overview of the launch services Skyroot aims to offer, targeting small satellite missions for commercial and government clients.

4. Future Plans and Vision

- **Expansion Plans**: Skyroot's roadmap for future missions, including the development of more powerful rockets and reusable launch systems.
- **Global Competitiveness**: How Skyroot is positioning itself in the global space industry, competing with companies like SpaceX and Rocket Lab.
- **Long-term Vision**: Skyroot's goals for supporting missions to the Moon, Mars, and beyond.

	5. Challenges and Opportunities • **Regulatory Environment**: Discussion of the regulatory challenges faced by private space companies in India. • **Market Opportunities**: Analysis of the growing market for small satellite launches and how Skyroot plans to capitalize on this trend. • **Technical Challenges**: Potential technical hurdles in rocket development and how Skyroot is addressing them.
IRG (in rupees**)**	0
Expenditure (in rupees**)**	0
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

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Signature of Coordinator   **Signature of HOD**

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Title / Theme of the Event	**Jio 5G Seminar**				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor and Head, ECE				
Event Dates/Days	From	To	No. of Days		
	14 Sep '23	14 Sep'23	1		
Details of the Speaker / Guest Organization Address:	Dr Balaji Kotakonda, Sales and Distribution Head of Telangana State				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	5	140	10	2	157
Faculty Names & Designation	1. Dr. V Hima Bindu – Professor, Dept of ECE 2. Dr. T. Padma- Professor, Dept of ECE 3. Dr. G. Mamata- Professor, Dept of ECE 4. Dr. K. Swaraja- Professor, Dept of ECE 5. Dr. V Ayyem Pillai- Professor, Dept of ECE.				

Summary of the Event	**1. Introduction to 5G Technology**
	
	- **What is 5G?**
	  - Overview of 5G technology.
	  - Differences between 5G and previous generations (3G, 4G).
	- **Key Features of 5G**
	  - Enhanced mobile broadband.
	  - Ultra-reliable low latency communication (URLLC).
	  - Massive machine-type communication (mMTC).
	
	2. Jio's Journey in Telecommunications
	
	- **History of Jio**
	  - Brief history of Reliance Jio and its impact on the Indian telecom market.
	- **Jio's Achievements**
	  - Market share.
	  - Network expansion.
	  - Introduction of VoLTE (Voice over LTE) in India.
	
	3. Jio's 5G Rollout
	
	- **Vision and Strategy**
	  - Jio's vision for 5G in India.
	  - Partnerships with global technology companies.
	- **Network Deployment**
	  - Status of Jio's 5G network deployment.
	  - Key cities and regions covered.
	  - Technologies used in the deployment (e.g., Standalone 5G vs Non-Standalone 5G).

IRG (in rupees**)**	0
Expenditure (in rupees**)**	NA
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

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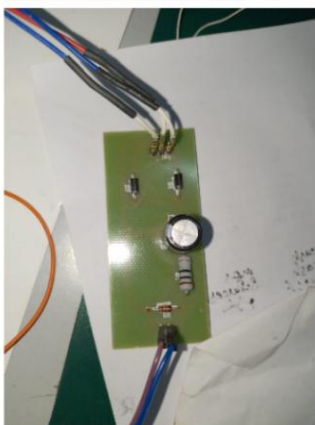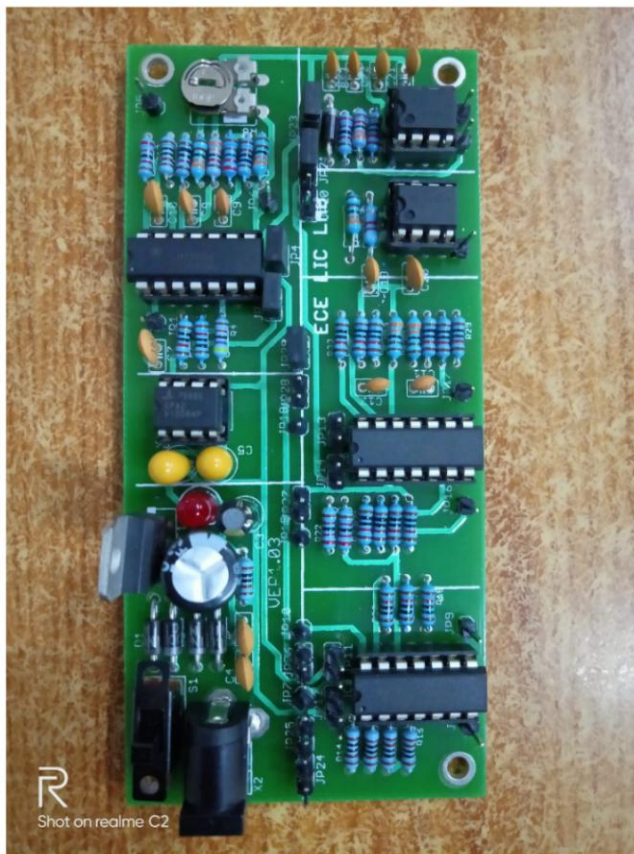**Signature of Coordinator**   **Signature of HOD**

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Title / Theme of the Event	Skilling Programme on PCB Design and Fabrication				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE				
Event Dates/Days	From	To	No. of Days		
	16 Oct 2023	16 Oct 2023	1		
Details of the Speaker / Guest Organization Address:	1. Prof. A Radhanad, Associate Professor, Dept of ECE 2. Mr D V Satya Sai Kumar				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	3	30	0	0	30
Faculty Names & Designation	1. Dr Ch. Usha Kumari, Professor & HoD, Dept of ECE 2. Dr K Jamal Professor, Dept of ECE 3. Dr V Hima Bindu Professor, Dept of ECE				

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Expenditure (in rupees**)**	INR 5000
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Signature of Coordinator   **Signature of HOD**

EVENT SUMMARY REPORT

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Department	ECE	Professional Body	Institutional Body		
		ISACA	**GRIET**		
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**SEMINAR**				
Title / Theme of the Event	**Seminar on NavIC (Navigation with Indian Constellation)**				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE				
Event Dates/Days	From	To	No. of Days		
	10 Oct 2023	10 Oct 2023	1		
Details of the Speaker / Guest Organization Address:	Prof. Dr. PERUMALLA NAVEEN KUMAR, Professor BE(ECE) M.Tech(ECE) Ph.D(ECE), Osmania University, Hyderabad Specialization : Global and Regional Navigation Satellite Systems, GPS, Indian NavIC and GAGAN.				
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	5	120	0	0	120
Faculty Names & Designation	1. Dr Ch. Usha Kumari, Professor & HoD, Dept of ECE 2. Dr Ayyem Pillai, Professor, Dept of ECE 3. Dr Surekha, Professor, Dept of ECE 4. Ms B Shilpa Assistant Professor, Dept of ECE 5. Ms Manisha, Assistant Professsor, Dept of ECE				

Summary of the Event	NAVIC (Navigation with Indian Constellation) is India's regional satellite navigation system, developed by the Indian Space Research Organisation (ISRO). It is designed to provide accurate position information services to users in India and the surrounding region, extending up to 1,500 kilometers beyond its borders. The Indian Regional Navigation Satellite System (IRNSS), also known as NAVIC, is an independent regional satellite navigation system developed by ISRO. The architecture of IRNSS is designed to provide accurate position information to users within India and surrounding regions. IRNSS Architecture Overview IRNSS architecture consists of three main segments: 1. Space Segment 2. Ground Segment 3. User Segment **1. Space Segment** The space segment consists of a constellation of 7 satellites in two different types of orbits: Geostationary Orbit (GEO): 3 satellites are placed in geostationary orbits at 32.5°E, 83°E, and 131.5°E longitude. These satellites are stationary relative to the Earth and appear fixed at a single point in the sky. Geosynchronous Orbit (GSO): 4 satellites are placed in geosynchronous orbits inclined at 29° to the equatorial plane. These satellites move in an inclined orbit that allows them to cover different parts of India at different times of the day. Together, these satellites ensure continuous coverage of India and regions extending up to 1,500 km from its borders. **2. Ground Segment** The ground segment is responsible for monitoring, controlling, and maintaining the satellites in orbit. It consists of several key components: IRNSS Control Center (ICC): The ICC is the main control center that manages the health and operation of the satellite constellation. It oversees satellite station-keeping, orbit maintenance, and monitoring of satellite payloads. Telemetry, Tracking, and Command (TT&C) Stations: These stations are responsible for tracking the satellites, receiving telemetry data, and sending commands to the satellites for control and correction purposes. Range and Integrity Monitoring Stations (RIMS): These are spread across India to track satellite signals and monitor the system's accuracy. The data collected here helps maintain the precision of the navigation signals. Navigation Control Center (NCC): This center processes the data from RIMS and calculates the satellite orbits and clock errors.

	It generates correction data, which is sent back to the satellites for broadcasting to users.
	Atomic Clocks: IRNSS satellites have onboard atomic clocks for precise timing, crucial for calculating accurate positioning data.
	3. User Segment
	The user segment consists of: IRNSS receivers: These are specialized devices capable of receiving signals from NAVIC satellites. They are available for civilian and restricted (defense/government) users.
	Dual-frequency receivers: These support both L5 (1176.45 MHz) and S-band (2492.028 MHz) frequencies, offering higher accuracy and reliability, especially in multipath environments.
	The receivers calculate the user's position based on the signals from multiple satellites. For military applications, encrypted receivers are used to access the restricted service (RS), ensuring secure communication.
IRG (in rupees**)**	0
Expenditure (in rupees**)**	INR 5000
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

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Proofs: **1.Certificates copies** **2.Profile of Speaker** **3.PPT/Material as applicable. etc.,**	-

Signature of Coordinator   **Signature of HOD**

Griet/Other institutes/Organization Address:	GRIET/ Indo-Dutch Cyber Security School 2023				
Department	**ECE**	**Professional Body**	**Institutional Body**		
		ISACA	**GRIET**		
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**Online Action Learning for Students and Young Professionals**				
Title / Theme of the Event	**IDCSS - Indo Dutch Cybersecurity School 2023**				
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor & HoD, ECE				
Event Dates/Days	From	To	No. of Days		
	06 Oct 2023	10 Nov 2023	4 weeks		
Details of the Speaker / Guest Organization Address:					
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	1	25	0	0	25
Faculty Names & Designation	1. Dr Ch. Usha Kumari, Professor & HoD, Dept of ECE				

Summary of the Event	The Indo-Dutch Cyber Security School is an annual large-scale event organised by a number of Dutch and Indian organisations for students and young professionals interested in cyber security issues. The central goal of this school is to give interested students and young professionals the opportunity to grow professionally as well as academically in the sphere of cyber security. The program of the IDCSS consists of two parts. The first part takes place from October 6-26th, consisting of 20 lectures from renowned experts on a wide range of cyber security-related topics, such as ethics, accountability, hardware security, incident response, data protection and norms and governance. This year, the new topics of Cryptography and Artificial Intelligence will also be introduced. The second part will take place from October 27 until November 10, where groups will work together on case studies provided by leading Indian and Dutch organisations and pitch their findings to a panel of experts that will subsequently determine the best proposal(s). **Programme** **Details of letures are avaible in this link** https://hcss.nl/indo-dutch-cyber-security-school-2023-lecture-programme/#toggle-id-3
IRG (in rupees**)**	0
Expenditure (in rupees**)**	INR 12500/- (Registration fee 500/- per student)
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

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Department	**ECE**	**Professional Body**	**Institutional Body**
		ISACA	**GRIET**

Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/ FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities	**GUEST LECTURE**
Title / Theme of the Event	**Jio 5G Seminar**
Details of the coordinator& Designation	Dr. Ch Usha Kumari, Professor and Head, ECE

Event Dates/Days	From	To	No. of Days
	14 Sep '23	14 Sep'23	1

Details of the Speaker / Guest Organization Address:	Dr Balaji Kotakonda, Sales and Distribution Head of Telangana State

Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No.of PG Students	No. of outside participants	Total Participants
	5	140	10	2	157

Faculty Names & Designation	1. Dr. V Hima Bindu – Professor, Dept of ECE 2. Dr. T. Padma- Professor, Dept of ECE 3. Dr. G. Mamata- Professor, Dept of ECE 4. Dr. K. Swaraja- Professor, Dept of ECE 5. Dr. V Ayyem Pillai- Professor, Dept of ECE.

Summary of the Event	**1. Introduction to 5G Technology**
	
	- **What is 5G?**
	  - Overview of 5G technology.
	  - Differences between 5G and previous generations (3G, 4G).
	- **Key Features of 5G**
	
	  - Enhanced mobile broadband.
	  - Ultra-reliable low latency communication (URLLC).
	  - Massive machine-type communication (mMTC).
	
	2. Jio's Journey in Telecommunications
	
	- **History of Jio**
	
	  - Brief history of Reliance Jio and its impact on the Indian telecom market.
	
	- **Jio's Achievements**
	
	  - Market share.
	  - Network expansion.
	  - Introduction of VoLTE (Voice over LTE) in India.
	
	3. Jio's 5G Rollout
	
	- **Vision and Strategy**
	
	  - Jio's vision for 5G in India.
	  - Partnerships with global technology companies.
	
	- **Network Deployment**
	
	  - Status of Jio's 5G network deployment.
	  - Key cities and regions covered.
	  - Technologies used in the deployment (e.g., Standalone 5G vs Non-Standalone 5G).

IRG (in rupees)	0
Expenditure (in rupees)	NA
POs attained with this Event (number and description)	PO e. Ability to identify, formulate, and solve engineering problems. PO f. Understanding of professional and ethical responsibility. PO h. Understanding the impact of engineering solutions in a global, economic, environmental, and societal context. PO i. Ability to recognize the need for, and to engage in life-long learning. PO j. Develop knowledge of contemporary issues. PO l. Ability to demonstrate knowledge and understanding of Electronics and Communication Engineering with management principles and apply these to one's own work, as a member and leader in a team, to manage projects.

Photographs of the event (Hard copy and soft copy)	
Proofs: **1.Certificates copies** **2.Profile of Speaker** **3.PPT/Material as** **applicable. etc.,**	-

Signature of Coordinator   **Signature of HOD**