



NALLA NARASIMHA REDDY

Education Society's Group of Institutions - Integrated Campus

(UGC AUTONOMOUS INSTITUTION)



School of Engineering

Department of Electronics and Communication Engineering

Date: 08-07-2022

Report

on

Guest Lecture: "Electronic Leverage in ECE"

Overview of Program

The Department organized a Guest Lecture on "Electronic Leverage in ECE" by Mr. Muthyala Sarath, Associate Faculty Member, National Institute for Micro, Small and Medium Enterprises (NIMSME), Hyderabad. The lecture focused on emerging technologies, innovation, entrepreneurship, and the growing role of electronics in modern industries.

Date Organized	Title of Program	Name of Resource Person	Participants
05-07-2022	"Electronic Leverage in ECE"	Mr. Muthyala Sarath, Associate Faculty Member, National Institute for Micro Small and Medium Enterprises (NIMSME), Hyderabad.	B. Tech. ECE II-II (84 Students) and ECE faculty members



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Department of Electronics and Communication Engineering
Organizes

Guest Lecture

on

**ELECTRONIC LEVERAGE
IN ECE**



Mr. Muthyala Sarath

Date: 05-07-2022

Time: 2:00 PM

Venue: ECE Seminar Hall, S-23

Purpose of Program

The programme was conducted to create awareness among students about emerging technologies in Electronics and Communication Engineering, innovation-driven product development, entrepreneurship, and Industry 4.0. It also aimed to encourage students to develop technical and entrepreneurial competencies

Program Highlights

The resource person discussed the role of electronics in Industry 4.0, embedded systems, Internet of Things (IoT), smart technologies, innovation management, startup ecosystems, and government support for MSMEs. The session also included discussions on product development and career opportunities in the electronics industry.

1. Electronics in Industry 4.0

The session commenced with an overview of Industry 4.0 and the significant role of electronics in the digital transformation of modern industries. Students learned how advanced technologies such as automation, cyber-physical systems, smart manufacturing, and intelligent sensors are revolutionizing industrial processes. The resource person explained the integration of electronics with data-driven technologies to improve productivity, efficiency, and quality in manufacturing sectors. This discussion enabled students to understand the growing importance of Electronics and Communication Engineering in the era of smart industries.

2. Embedded Systems and Internet of Things (IoT)

Students gained valuable insights into embedded systems and the Internet of Things (IoT), which form the backbone of today's smart devices and connected environments. The speaker explained how embedded controllers, sensors, communication modules, and cloud technologies work together to create intelligent systems. Through real-world examples of smart homes, healthcare monitoring, industrial automation, and smart agriculture, students understood the practical applications of IoT and the increasing demand for embedded system technologies across various industries.

3. Startup Ecosystem and MSME Support

The resource person introduced students to the startup ecosystem in India and explained the important role played by Micro, Small, and Medium Enterprises (MSMEs) in promoting innovation and economic development. Students learned about various government initiatives, incubation centres, financial assistance schemes, and entrepreneurship development programmes available for aspiring entrepreneurs. The session encouraged students to explore innovative business ideas and understand the support mechanisms available for transforming technical concepts into successful startups.



4. Product Innovation and Entrepreneurship

Students were encouraged to develop an innovative mindset by understanding the process of product development and entrepreneurship. The speaker explained the various stages involved in identifying real-world problems, designing technology-based solutions, developing prototypes, and commercializing innovative products. Practical examples of successful electronic products and startup ventures motivated students to enhance their creativity, problem-solving abilities, and leadership skills. The session highlighted the importance of innovation in addressing societal challenges and creating sustainable technological solutions.

5. Career Guidance in Core Electronics

The lecture concluded with an informative discussion on career opportunities in core electronics, embedded systems, industrial automation, semiconductor industries, and entrepreneurship. Students actively participated by seeking guidance on higher education, certification programmes, internships, and employment opportunities in electronics industries. The resource person advised students to strengthen their technical knowledge, practical skills, communication abilities, and innovative thinking to become competent professionals capable of meeting future industrial challenges and contributing to technological advancement.

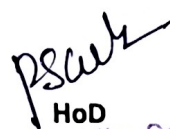




Outcome of Program

Students understood the significance of innovation, entrepreneurship, and emerging technologies in Electronics and Communication Engineering. The programme motivated them to develop problem-solving abilities, technical expertise, and entrepreneurial skills for future professional growth.

Guest Lecture	Mapped POs & PSOs	Mapped SDGs
Electronic Leverage in ECE (05-07-2022)	PO1, PO5, PO8, PO10, PO11, PO12, PSO1, PSO2	SDG 4: Quality Education SDG 8: Decent Work and Economic Growth SDG 9: Industry, Innovation and Infrastructure SDG 17: Partnerships for the Goals


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