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Add-on Lecture

The department of **Electronics and Communication Engineering** conducted an **Add on Lecture** titled **Crafting Careers in Embedded Systems: An Industry-Ready Approach** on **18-10-1025** at **10:30 am**, in **Seminar Hall 1**.

The session was conducted by Mr Arnab Kumar Das, Senior Engineer at Qualcomm, and was attended by around 130 enthusiastic 5th-semester students. The primary aim of the lecture was to bridge the gap between academic learning and industry expectations in the field of embedded systems. Mr Das shared his professional journey, starting from his college projects to his current role, which inspired students to understand the importance of practical exposure and continuous learning. The session emphasised the growing demand for embedded systems professionals and provided a roadmap for students to become industry-ready through skill development, project-based learning, and mastering workflows.

Objectives of the Event

The primary objectives of the event were:

- To provide students with a clear understanding of career opportunities in embedded systems
- To highlight the essential skills and tools required to become industry-ready.
- To guide students on resume building and interview preparation for embedded roles.
- To inspire students with practical project ideas and a roadmap for skill development

Event Overview

The lecture began with an engaging introduction where Mr Das narrated his college experiences and projects, setting the tone for the importance of hands-on learning. He then explained the fundamentals of Embedded Systems, highlighting their applications in everyday devices and advanced technologies. The core part of the session focused on essential skills for embedded careers, including microcontroller

programming, hardware basics, real-time operating systems (RTOS), multitasking concepts, communication protocols, debugging tools, and version control systems. Practical advice was given on how to showcase these skills effectively in resumes and portfolios. Mr Das provided a clear roadmap for students: build strong fundamentals, practice real-world projects, and learn industry-standard tools and workflows. To encourage innovation, he suggested project ideas such as a line follower robot, a mobile phone prototype, and a smart dustbin, which combine hardware and software integration. The session concluded with tips on interview preparation, covering technical and behavioural aspects, ensuring students are well-prepared for placement opportunities. The figures mentioned below highlight the Bridging the gap between academics and industry – an engaging session by Qualcomm's Senior Engineer Mr Arnab Kumar Das.

Figure 1: Dr. Shima Ramesh Maniyath, HoD-ECE, presenting a bouquet to Mr. Arnab Kumar Das, Senior Engineer at Qualcomm, during the add-on lecture on "Crafting Careers in Embedded Systems

Figure 2: Mr. Arnab Kumar Das delivering an impactful session on embedded systems and career opportunities at Seminar Hall 1.

Figure 3: Students actively participating and gaining insights into industry-ready approaches in embedded systems during the session

Outcomes and Impact

Students gained clarity on the skill sets required for embedded systems careers. A practical roadmap was provided for skill development and project execution. Enhanced awareness of industry workflows and tools. Motivated the students to undertake hands-on projects and improve their resumes. The lecture bridged the gap between academic learning and industry expectations. Students were left with actionable insights on how to prepare for embedded systems roles, making them bet-

Figure 4: Students gaining real-world insights into embedded systems and career pathways during the interactive lecture.

Figure 5: Packed with curiosity! Students of ECE actively participating in the add-on lecture on "Crafting Careers in Embedded Systems.

ter equipped for internships and placements.

Conclusions

The add-on lecture by Mr. Arnab Kumar Das was highly informative and impactful. It not only introduced students to the world of embedded systems but also provided a structured approach to becoming industry-ready. The session successfully aligned academic knowledge with practical skills, fostering confidence among students to pursue careers in this domain.

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