DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

REPORT ON Guest lecture on "Research Internship Opportunities in Embedded Systems and Artificial Intelligence/Machine Learning (Defence Electronics)"

Event Type	:	Guest Lecture
Date / Duration	:	01-06-2022 /One day
Resource Person	:	Mr.K.Srinivasa Raju , CEO, Unistring Tech solutions, Hyderabad
Name of Coordinator	:	Dr.G.L.N.Murthy
Target Audience	:	VI Semester B.Tech Students
Total no of Participants:		VI Semester Students-146 Nos.
Objective of the event:		To expose the students to the role of Artificial intelligence and machine learning in defence electronics and to provide internship as well as placement opportunities for the pre final year students.

Outcome of event   :   By attending the guest lecture, the final year students will get knowledge about the developments in defence sector and the role of an Electronics & Communication Engineer in relevant areas. Further, the lecture will educate the student to do internship in latest core areas as well as placement opportunities thereby.

Description / Report on Event:

The guest lecture began with inaugural address by Dr.Y.Amar Babu, Head of the department. In his inaugural speech, the students were told to expertise in core areas than orienting towards software based on the salary packages. It was told that, for core companies, even though the offer is initially low, after getting expertise students can earn more than software. All the students present were advised to make use of the guest lecture arranged by the department for internship selection as well as opting for either core industries or software. Dr.G.L.N.Murthy , Coordinator, Reconfigurable Computing Club ,

Department of ECE , has given the detailed schedule of the program that includes selection of students for internship. All students are told to make use of the initiative taken by the department towards training and placement.   The lecture started after introducing the resource person Mr.K.Srinivasa Raju by the coordinator.

Mr.K.Srinivasa Raju started his lecture by describing the current trends in drone technology. It was told that these days drones are being used for a wide variety of applications starting from defence to spraying of pesticides in agriculture. It was mentioned like other technologies, drones also have adverse effects. It was pointed out that these days drones have been used to drop explosives by the enemy country. The usage of drones by anti-national elements can be checked by using anti drone technology as elaborated. It was told that an anti-drone system will be primarily comprised of jammer antenna system and director antenna system. The complete process of detecting and jamming the drone is tracked by means of video. It was told that advanced image processing techniques will be used for real time detection, classification and tracking. It was pointed out that there are several crucial requirements in the system like powerful AI algorithms for detection in ambiguity with highest resolution and automatic correction of misfire. The recent achievements by Unistring in association with Zen Technology were also demonstrated to the students.

Various steps in the PCB design lay out using Kicad software which is an opensource were explained to the students. The session ended with the mentioning of various opportunities in Unstring and the significance of joining a core company.

In the afternoon session, test was conducted for selecting the students for internship which 146 students have attended.

Feedback / Suggestions:

1. Provide industrial Visits
2. More number of core company opportunities

Comments on feedback:

1.Department is regularly arranging industrial visits earlier. Bur due to Covid pandemic recently no visit was possible for conducting. Once situation settles down, definitely visits will be scheduled.

2.Efforts are going on to have more MoUs with core companies so that students can get internship and placement opportunities**.**

Photographs :

Addressing by Dr.Y.Amar Babu,

Head of the Department

Department of ECE

Introduction of Resource person Sri .K.Srinivsa

Raju by Dr.G.L.N.Murthy, Mentor ,

Reconfigurable Computing Club

Presentation by Sr.K.Srinivasa Raju , CEO, Unistring

Tech Solutions Pvt.Ltd.

Students listening to the lecture

Students attempting the exam