REPORT ON SEMINAR ON RECENT TERNDS IN ELECTRONICS INDUSTRY

The Department of Electronics and Communication Engineering organized a seminar on "Recent Trends in Electronics Industry" for II&III B.Tech ECE Advanced Learner Students on 26.03.2019. Mr. B Sambi Reddy, Chief Engineer, Efftronics Systems Pvt Ltd, Vijayawada was the resource person for the seminar.

The Resource person started his lecture by introducing the Industrial Revolution 1.0 to the students; he said that "The Industrial Revolution, which took place from the 18th to 19th centuries, was a period during which predominantly agrarian, rural societies in Europe and America became industrial and urban. Industrialization marked a shift to powered, special-purpose machinery, factories and mass production. The iron and textile industries, along with the development of the steam engine, played central roles in the Industrial Revolution, which also saw improved systems of transportation, communication and banking. While industrialization brought about an increased volume and variety of manufactured goods and an improved standard of living for some, it also resulted in often grim employment and living conditions for the poor and working classes."

Later he spoke about the Industrial Revolution 4.0 where computers are connected and communicate with one another to ultimately make decisions without human involvement. "A combination of cyber-physical systems, the Internet of Things and the Internet of Systems make Industry 4.0 possible and the smart factory a reality. As a result of the support of smart machines that keep getting smarter as they get access to more data, our factories will become more efficient and productive and less wasteful. Ultimately, it's the network of these machines that are digitally connected with one another and create and share information that results in the true power of Industry 4.0." he stated during his lecture.

The resource person mainly focused on the IoT where different electronic devices, different home appliances can communicate over the internet and also said that IoT is playing a major role in applications which minimize human intervention required in activity. For example, in day-to-day activities such as home maintenance, alerts can be provided at various points like filling a refrigerator, buying oil for the vehicle, checking locks in the house, using purely automated mechanisms but which would seamlessly integrate with human life involved.

"A key component of Industry 4.0 is the Internet of Things that is characterized by connected devices. Not only does this help internal operations, but through the use of the cloud environment where data is stored, equipment and operations can be optimized by leveraging the insights of others using the same equipment or to allow smaller enterprises access to technology they wouldn't be able to on their own". He added to his discussion.

He also discussed about the evolution of "Autonomous cars" which is capable of sensing its environment and moves without human intervention and also explained the different features of these vehicles like path breaking, vehicle to vehicle communication, automatic breaking etc. He also said that by using these vehicles accidents can be avoided to a great extent.

Mr. Sambi Reddy also discussed about 3D printing which is a process of making three dimensional solid objects from a digital file. "In this process an object is created by laying down

successive layers of material until the object is created. Each of these layers can be seen as a thinly sliced horizontal cross-section of the eventual object. This process will reduce the raw material used compared to conventional methods."

The resource person also briefed on various technologies evolving in the industry like Artificial Intelligence, Machine Learning, 5G Technology etc. Finally he suggested the students to learn any of these technologies, so that they can grab a job in the industry very easily.

EVENT PHOTOS:



3rd Year Student Welcoming the **Resource** Person

Resource Person introducing to Industrial Revolution 4.0



Resource person delivering his lecture

Students & Faculty members listening to the lecture



నెల్లారు (ఏదక్క) మార్చి 27 : నగరంలోని నారాయం ఇంజనీరింగ్ కళాశాలలో ఈసీఈ విధాగం ఆధ్వర్తంలో ఎల జ్యానిస్ట్ర్ సెమిసార్ బుధవారం సర్విహిందారు. విజయవా లార్యుకుంలో కళాశల బాధ్యలు డాక్టర్ ఏమిస్ ప్రసాద్. డకు రెందిన బీవ్ ఇంజనీర్ ఏపిసాందర్శి ముఖ్య ఆరిథిగా దాక్టర్ జిక్రీపివాసులరెడ్డి కి.విజ్యక్తేస్ రెడ్డి, ఆర్.సాంబళివరాచ మాత్రదారు. ఆదునికి సాంకేటకళళు కారుగులు లులులు బుల్లు బాలు 2 1 : సాదింలాని నారాయణ ఇంజసీరింగ్ కళాశాలలో తసీత విభాగం ఆధ్వర్యంలో ఎల ప్రూర్ సిపినార్ బుధవారం గిర్వసించారారు. విజయనా రావ్యకమంలో కళాశల బాధులు దాళ్లర్ ఎమీఎవ్ ప్రసాద్, డకు వెందిన బీవ్ ఇంజసీర్ బిస్పాందినిడ్డి ముఖ్య అరిథిగా దాళ్లర్ జిడ్రీగివాసులరెడ్డి, కెమిళ్లేశ్రీనిరెడ్డి, అర్సాంబశివరాష, మాట్లారు. ఆదుర సాంధేతికతకు అమగుణంగా ఎలక్రా డాక్టర్ కెమురళ్ పాల్గినారు. దార్ రోజు సిర్మా సార్య కెందు దూరం సార్యం సిర్మం సిర్యం సిర్రం సిర్మం సిర్మం సిర్యం సిర్రం సిర్రం సిర్రం సిర్రం సిర్రం సిర్యం సిర్రం సిరి సి సిర్రం సిర్రం సిర్రం సిర్రం

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Press Note of the Event