

# ACTIVITY NO. - 6

## Expert Talk on Job Opportunities for Electronics Engineers in Industry 4.0

26<sup>th</sup> March 2024

The 'Expert Talk' series, organized by the Electronics and Communication Engineering Department, RPSCET, Balana witnessed an energetic and insightful talk by Mr. Pankaj Soni, Skill Instructor, at Shri Vishwakarma Skill University, Palwal, Haryana. The session was titled as: "Job Opportunities for Electronics Engineers in Industry 4.0".



The Second and Third year students attended the lecture on 26<sup>th</sup> March, 2024 at 12:30am. Mr. Pankaj Soni discussed the various shades of industrial automation, with the help of animations and video clips and how we have moved from Industry 1.0, way back in 1786 to industry 4.0. The first industrial revolution was about coal, water and steam, bringing with it the steam engine and innovations, while the second industrial revolution came about with the invention of electricity and enabled mass production, he briefed. The third industrial revolution was all about computers, transistors, microprocessors, robotics and automation enabled new ways of processing and sharing information, he added. Fourth industrial revolution, also referred to as Industry 4.0 is the era of artificial intelligence, genome editing, biometrics,

renewable energy, 3D printing, autonomous vehicles and the Internet of Things. He highlighted the need to observe the trends in industrial revolution and note the speed and intent with which emergent technology is changing.



While stating the benefits of Industry 4.0 on one hand, he also cautioned the students on the other, against its ill effects. He emphatically stressed on the importance of automation-industry and how it will reduce the job opportunities of humans in the due course of time.

Briefing about Industrial Automation, he discussed about the various control operations in industry and how automation helps in various processes of the industry. Also, he discussed the significance of PID controllers with examples of temperature control and driving of a vehicle. With the help of an example he briefed how predictive maintenance is done using IIOT (Industrial Internet of Things).

He advised the students to develop an acute curiosity to comprehend the gaps in the real world and see how they can fill the gaps by their innovative ideas and projects.

After the session, the speaker also was keen on handling the relevant queries coming from the students with regards to project ideas and attributes required by students to be industry ready.



Vote of thanks was proposed by **Dr. Mahesh Kumar Yadav** our esteemed Director. The session was organized by Prof. Sandeep Head of Department and faculty coordinator Mr. Sandeep Kumar.

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