

Editorial



The “fourth industrial revolution” also called as “Industry 4.0” is transforming a wide range of industrial sectors by automation with A-I and machine learning , planning and construction of Smart Cities, Protection of Environment ,Internet of Things / Cloud Based Technology, Virtual offices, E-commerce and digital banking revolution. This will create an increased technical and organizational complexity of industrial processes and therefore an increase in demand for qualified staff at all organizational levels specifically engineers. The entailing increased degree of digitization and automation requires a dramatic change for engineering education. The required competencies of future engineers consist of advanced hard skills consisting of an integration of industrial engineering with mechatronics and informatics engineering competencies. Such skills are needed to re-engineer processes with the support of information technology and automation to increase interconnection and collaboration among machines and human operators. Moreover, future engineers require soft skills like teamwork ability, problem analysis abilities, structuring capabilities, data analysis and interpretation skills. All this can be achieved easily if the engineers bear a growth mindset . A person with growth mindset believes that basic qualities can be cultivated through consistent efforts. They believe that everyone can change and develop these qualities through application and experience. Such a person is ready to take Risks, confront the challenges and keep working at them and have a self –esteem believing that how I can become better than myself yesterday. As educators we need to create situations for struggles, mistakes, perseverance so that intellectual skills can be cultivated. We should be stretching the students to learn new, try difficult things. they should be taught not to be discouraged by failure rather consider it as a new learning opportunity. I assure you that JEET represents a collection of pioneering research in engineering education in the era of Industry 4.0 with innovative ideas for transforming future engineering education.

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Editor