

SYMPOSIUM

Skill Based Engineering Education Challenges & Opportunities

School of Engineering & Technology organized a One Day Symposium on "Skill Based Engineering Education Challenges & Opportunities" on 6th February 2016 in CP University Auditorium. This one day session was intended to provide insight of Engineering disciplines and the related disciplines which are required to incorporate system development as a whole. The eminent personalities of various well known institutes were invited as the keynote speaker.

The session was initiated by Dr. V Arun Kumar. Dr. Kumar worked for 35 years as a scientist in the Propulsion Division with specialization in mechanical Aspects of Turbomachinery. He also served as Head of Propulsion Division for 2 years. His session intensified various skills which are required to build a complete engineer. He focused on Communication skills, personality development, goal setting, technical and other aspects of skills learning. He discussed major sectors which require highly skilled engineers such as Automotive, Power sector, Aerospace, Construction Sector. He discussed various deductive approaches, integrated approaches which can create the basis to apply theoretical aspects into real time situation. He discussed few Case Studies on innovation in Bearings.

Dr. Anand Bardava addressed the next session of the day. Mr. Anand who is the Regional Manager of Rajasthan State Final Corporation and former Secretary of the Institution of Engineers, Kota. His session was focus on the awareness in the domain of engineering a student specializes in, so that it helps him to identify the advancements which are required in his field. He discussed about the industrial revolution and how it gave a phase shift not only to the industrial sector but in telecommunication. He discussed how this industrial uprising changed from goods to services to Mobile Phones, Facebook etc.

The third session of the day was conducted by Dr. S. Seetharamu who is a Retired Director of Central Power Research Institute, Bangalore and owns a Ph.D in Mechanical Engineering from Indian Institute of Science in 1981. His session covered the Advances in Power Generation and Acceleration of Energy Efficiency in Industries. He addressed various aspects which needs attention and research in industries. He focused on the renewable source of power generation which is cost economic and efficient. He focused on 4 E's i.e. Education, Experience, Expectation and Evolution which lay down the basis in power sector.

The last session of the day was addressed by L V Muralikrishna Reddy who is the youngest president of India's oldest Professional body of engineers, Institution of Engineers. He is a technologist and a researcher. Dr. Reddy covered the role of interdisciplinary education system which is essential for the development in various domain of engineering which doesn't include basic disciplines but Art, Medicine, Digital Economics, Built Environment, Energy, Bio Engineering and Bio Mechanics, Nanotechnology and Nano-mechanics etc. Dr. Reddy discussed future skill trends. He focused on the concerns of engineering education of India which needs international collaboration, creativity and innovation. He also discussed various attributes which the young engineers must focus on that includes Strong Analytical skills, High Ethical standards and interdisciplinary focus.

Dean of **School of Engineering & Technology** Dr. Sudhakar asked students to focus more on practical and skills based training.

Vice chancellor of the University Dr. Mithlesh Dixit said that "We must not mix Engineering with Technical skills. Skills are common to all." He discussed importance of skills with an example of labor market which is replaced by Robots.