



**MADANAPALLE INSTITUTE OF  
TECHNOLOGY & SCIENCE**  
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### Circular Dated: 02-07-2019

All the students of B. Tech- II & III Year I semester are here by informed that a Guest Lecture on Skill development for Engineering Industry is going to be conducted on 05-07-2019 on the importance of Electric vehicles (EVs) as a part of fourth industrial revolution, driven by disruptive technological change.

Please utilize the opportunity without fail

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# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

## Report on A Guest Lecture on Skill development for Engineering Industry 05 July 2019



**Submitted by : Dr. Chakradhar B. and Dr. Sivaiah. P, Senior Assistant Professors Department of Mechanical Engineering, MITS.**

### Resource Person:

Mr. M. Venkata Sathyanarayana, Principal Engineer R&D, Sahajanand Medical Technology, Surat. (Alumnus of MITS)

### Participants: B. Tech –II&III Yr- Students.

The department of Mechanical Engineering organised a guest lecture on “Skill development for Engineering Industry” on 17 June 2019. The main objective of this lecture was to bring awareness on the automobile industry and medical equipment production.

Mr. Venkata Sathyanarayana stressed on the importance of Electric vehicles (EVs) as a part of fourth industrial revolution, driven by disruptive technological change. This disruption may produce upheaval and uncertainty, with winners and losers. As a result, these technologies can produce new products and new jobs, but also cause possible displacement of jobs. Cars are complex products, with numerous components carefully designed and tested by mechanical engineers before ever even entering production. However, the rise of electric vehicles (EVs) – with their much simpler internal layouts – could significantly alter what mechanical engineers contribute to cars and trucks.

- The biggest change is probably the succession of internal combustion engines by cleaner battery-based power systems. This shift is considerable, but it should not be read as the elimination of the bulk of all mechanical engineering tasks for typical automobiles. He remembers the American Society of Mechanical Engineers (ASME) highlighted challenges as follows.
- The need to replace various composites, plastics and aluminum alloys with sheet-metal steel, which is essential to the torque of an electric motor and minimizing the overall loss of its energy as heat.
- The increased demand for lithium-ion (Li-ion) batteries. Navigant Research estimated the market for vehicle-specific Li-ions at \$7.8 billion in 2015 and projected it would reach \$30.6 billion in 2024.
- The development of rugged mechatronics hardware to accompany AC/DC inverters and high-amperage/voltage motor controls. These pieces of equipment have to withstand constant vibrations as well as wide variances in temperature.
- The design, testing and installation of the different infrastructures supporting EVs. For example, mechanical engineers may contribute to the roadside charging stations necessary for recharging an EV on the go.

He highlighted that mechanical engineers need to focus on specific components like the drivetrains, transmissions and steering controls of EVs. Such parts are carryovers from traditional auto manufacturing, along with others including brakes, suspension and heating/cooling systems. Even with the looming decrease in importance of the gas-powered engine, there is still more than enough work for mechanical engineers to perform in ensuring the efficiency, safety and cost-effectiveness of mass-produced EVs. As car manufacturing becomes more automated, mechanical engineers will also be front and center in the creation of the robots and other machines that drive automotive assembly lines. Automakers are already among the largest purchasers of specialty robots, which are the work of mechanical engineers. He also explained the opportunities in medical industry like research, development, testing and evaluation of medical devices for mechanical engineering. Finally, he visited the vehicle made by the MITS students in Engineering workshop and congratulated the student.

### Organizing Committee & Coordinators:

- Dr. G. Sadasiva Prasad, Associate. Professor and Vice Principal (Admissions).
- Dr. P. Ramesh Reddy, Alumni Secretary, Assistant Professor, Department of Mathematics.
- Dr. Surya Narayana Raju Professor and Head Department of Mechanical Engineering.
- Dr. Chakradhar Senior Assistant Professor, Department of Mechanical Engineering.
- Dr. Sivaiah. P, Senior Assistant Professor, Department of Mechanical Engineering.

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*Press Clips:*

## మెకానికల్ ఇంజనీర్లదే భవిష్యత్



విద్యార్థులతో మాట్లాడుతున్న రీసోర్స్ పర్సన్

కురబలకోట జూలై 5 (వ్రథ న్యూస్) మండలంలోని అంగళ్ళ వద్ద గల మిట్స్ ఇంజనీరింగ్ కళాశాలలో విజిట్ మెకానికల్ ఇంజనీరింగ్ చదువుతున్న ద్వితీయ మరియు తృతీయ సంవత్సర విద్యార్థిని విద్యార్థులకు స్పెల్ డెవలప్ మెంట్ ఫర్

ఇంజనీరింగ్ ఇంజనీర్ల అను అంశంపై అవగాహనా సదస్సును నిర్వహించారు. ఈ కార్యక్రమానికి రీసోర్స్ పర్సన్ గా ఇజే కళాశాలకు చెందిన సూర్య విద్యార్థి యం. వెంకటసత్యనారాయణ ప్రిన్సిపల్ ఇంజనీరింగ్ ఆర్ అండ్ డి సహజానంద్ మెడికల్ టెక్నాలజీ సూరత్ పాల్గొన్నారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ రానున్న రోజులలో ఆటో మొబైల్ రంగంలో మరియు మెడికల్ పరికరాల తయారీ రంగంలో మెకానికల్ పరికరాల తయారీలో మెకానికల్ ఇంజనీర్ల అవసరం

దాదా ఉందని అన్నారు. మెకానికల్ ఇంజనీరింగ్ చదువుతున్న విద్యార్థులు కంప్యూటర్ ఎయిడెడ్ మ్యానుఫాక్చరింగ్ ఆటోలసీస్ వంటి స్పెషియల్ పట్టు సాదించాలని అన్నారు. అంతేకాక ఆటో మొబైల్ రంగంలో నూతన ఆవిష్కరణలకు నాంది పలకాలని అన్నారు. ఇజే విధంగా విద్యార్థులు నూతన టెక్నాలజీ, కృత్రిమ మేదస్సు, మెషిన్ టెర్మింగ్, డేటా అనలిసిస్, మొదలైన వాటిపై కూడా పట్టు సాదించాలని అన్నారు. ముఖ్యంగా ఆటో మొబైల్ రంగంలో ఎలక్ట్రిక్ మోటార్ వాహనాలకు అవసరమైన పరిశోధనలు చేయాలని అన్నారు. ప్రస్తుతం మన దేశంలో అనేక బహుళ జాతి సంస్థలు మెకానికల్ రంగానికి సంబంధించిన అనేక పరిశ్రమలను వెంటోల్పాతున్నట్లు తెలిపారు. ఈ కార్యక్రమంలో మిట్స్ కళాశాల ప్రిన్సిపల్ డాక్టర్ సి. యువరాజ్, విభాగాధిపతి డాక్టర్ సూర్యనారాయణ రాజు, అల్యూమిని రిలేషన్ ఆఫీసర్ డాక్టర్ రమేష్ రెడ్డి తదితరులు పాల్గొన్నారు.

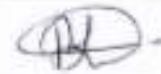
Kurabalakota: MITS Engineering College. Mechanical Engineering Department conducted a seminar about Skill Development for Engineering Industry for students of second and third year. A former alumnus of the same college was the Resource Person for the event. Venkata Satya Narayana, Principal Engineering R&D, Sahaj Anand Medical Technology, Surat the mechanical engineer asserted that mechanical engineering has a bright future in the automobile industry and in the manufacturing of medical equipment. In particular, the automobile industry needs to do research on electric motor vehicles. The event was attended by the Principal of the college, Dr. C. Dr. Suryanarayana Raju, Alumni Relation Officer Ramesh Reddy and others participated.

  
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A GUEST LECTURE ON SKILL DEVELOPMENT FOR ENGINEERING INDUSTRY- 5/7/2019

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144	18691A03G6	Pradivi Raja Reddy, K S	Pradivi
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