

**An Expert Talk under IIIC on  
“AUTOMOBILE TRANSMISSION SYSTEMS”**

**25<sup>th</sup> July, 2014**

**(Under TEQIP-II)**

An expert talk was organized on “Automobile Transmission Systems” by **Mr. D.B. Sri Prakash**, Team lead at Defiance Technologies under Industry Institute Interaction Cell (IIIC) activity sponsored by Technical Education Quality Improvement Programme (TEQIP-II) on the afternoon of 25.07.2014 by the Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, Tirupati.



During the Session-I on **Automobile Transmission Systems**, the speaker Mr. D.B. Sri Prakash, elucidated the Diesel Engine System design and Architecture, benchmarking and arriving at the Performance metrics of the Engine systems. He explained the importance of Gear train design, concept development and layout creation of Transmission systems and exposure to Driveline components and systems, and Transmission matching for better performance, fuel efficiency and emissions.



During the Session-II on **Automobile Transmission Systems**, the speaker Mr. D.B. Sri Prakash discussed various types of Transmissions like Manual, Automatic, AMT, CVT, and DCT and Valve train, Timing system, FEAD, & Air system. Later on, Mr. D.B. Sri Prakash illustrated the Optimization of Transmission parameters for better vehicle performance like Maximum speed, fuel consumption, and emissions. He had given a clear picture on the design and development of Automobile Transmission Systems.



**Mr. D.B. Sri Prakash, addressing the students**

The students of Mechanical Engineering got enriched by the interaction with Mr. D.B. Sri Prakash, his knowledge and experience helped them in appreciating the significance of various subjects they are studying for design and development of Automobile Transmission Systems.



## **An Expert Talk on “Modeling and Design of Microelectimechanical systems”**

**16<sup>th</sup> September, 2014**

**(Under TEQIP-II)**

An expert talk was organized on “Modeling and Design of Microelectimechanical systems” by **Dr.G.K.Ananthasuresh**, Professor, IISc Bangalore, activity sponsored by Technical Education Quality Improvement Programme (TEQIP-II) on the forenoon of 16.09.2014 by the Department of Mechanical Engineering, Sree Vidyanikethan Engineering College, and Tirupati.



During the Session-I the Speaker Dr.G.K.Ananthakrishna delivered lecture on ‘**Modeling and Design of Microelectricmechanical systems**’. He explained the design and manufacturing of MEMS and explained its variety of applications in medical devices, and everyday consumer products.



During the Session-II on '**Soil-moisture Sensors for Agricultural Applications**', the speaker Mr. G.K Ananthasuresh discussed various types of Soil moisture sensors manufacturing and its application in agriculture fields to maintain sufficient water lever for different seasons of cultivation. He explained how the research helped to the farmers of India to improve their productivity with less expenditure, he concluded the results with soil moisture sensors in different parts of India, this lecture boosted our faculties and students how to do a research work, and its implementation in real life applications.



**Dr. G.K Ananthasuresh, addressing the students**

The students of Mechanical Engineering got enriched by the interaction with Dr.G.K.Ananthakrishna, his knowledge and experience helped them in appreciating the significance of various subjects they are studying for design and development of Micro electro mechanical Systems.