

Industry Institute Partnership Cell (IIP Cell)

Activity	Technical Session
Department	Mechanical Engineering

Title	“Use of MATLAB in field of Mechanical Engineering”
Date	12/06/2019
Speaker	Dr. Souvick Chatterjee (Educational Technical Evangelist at Mathworks India Pvt.Ltd.)
Objectives	<ul style="list-style-type: none"> • Understanding the MATLAB environment for solving Mechanical Engineering Problems • Being able to carry out simple numerical computations and analyses using MATLAB • Overview of Simulink and Simscape to solve the analytical problems
Brief Description	<p>Speaker covers the following topics during the session</p> <ul style="list-style-type: none"> • MATLAB with example in vibrational analysis; Creating app designer to create GUIs for interactive parameter evaluation for any physical problems • Simulink and Simscape with example in vibrational analysis • References to problems in the domain of thermodynamics, fluid mechanics, design engineering will be made.
Outcome	<ul style="list-style-type: none"> • Understand the main features of the MATLAB development environment • Use the MATLAB GUI effectively with local and Global Solvers. • Design simple algorithms to solve problems. • Write simple programs in MATLAB to solve scientific and mathematical problems. • Develop the physical model in Simulink and Simscape environment.

Faculty Benefited	Mechanical Engineering
Faculty Coordinators	Dr.Sunil Dambare(Coordinator) Mr.Keval Nikam(Co Coordinator) Mr.Firoj Pathan(Co coordinator) Mr.Sushil Gaikwad(Co coordinator)

- **Glimpse of Technical Session :**



Guest Felicitation



Speaker explaining the different Applications of MATLAB in Mechanical Engineering