



Department of Mechanical Engineering

ACADEMICS YEAR 2019-20

Summary Report of Add-on / Certificate program with its Outcomes

Title of the Course: ANSYS

Learning Outcomes: The student have learnt to

- Understand the concepts behind formulation methods in FEM.
- Identify the application and characteristics of FEA elements such as bars, beams, plane and iso-parametric elements.
- Develop element characteristic equation and generation of global equation.
- Able to apply suitable boundary conditions to a global equation for bars, trusses, beams, circular shafts, heat transfer, fluid flow, axi symmetric and dynamic problems and solve them displacements, stress and strains induced..

Title of The course : CATIA

Course Outcomes : The student have learnt to

- Demonstrate competency with multiple drawing and modification commands in CATIA.
- Create three-dimensional solid models.
- Create three-dimensional assemblies incorporating multiple solid models.
- Apply industry standards in the preparation of technical mechanical drawings.
- Create Simulation of the assemblies incorporating multiple solid models

Title of the Course: CNC

Course Outcomes : The student have learnt to

- Appreciate the importance of CNC lathe and CNC Milling machines
- Understand the codes (G-code and MCode) used in CNC machines for programming
- Develop Programming skills and create an component for required drawing, Simulate the prepared part programme using available simulation software's. And Prepare the parts on CNC

Title of the Course : HANDS ON FABRICATION WORK

Course Outcomes : The student have learnt to

- Build thorough knowledge of various tools, machines, devices used in engineering practice.
- Acquire thorough knowledge of carrying out various operations in mechanical engineering workshop
- Utilize measuring skills gained in workshop practice
- Acquire "Hands on" training and practice to students for use of various tools, devices and machines
- Acquire skills in basic engineering practice for creating objects from raw materials Utilize practical skills in guiding works the trades

HOD