Course Number and Name	
BGE011 – COMPUTATIONAL FLUID DYNAMICS	
Course Objective	
To impart the knowledge of numerical techniques to the solution of fluid dynamics and heat transfer problems. To introduce Governing Equations of viscous fluid flows. To create confidence to solve complex problems in the field of fluid flow and heat transfer by using high speed computers To enable the students to understand the various discretization methods, solutionprocedures and turbulence modeling.	
Prerequisites	Co-requisites
MANUFACTURING TECHNOLOGY	Nil

Course Outcomes (COs)	
CO1	Will acquire knowledge of numerical techniques to the solution of fluid dynamics and heat transfer problems.
CO2	Will get introduced to Governing Equations of viscous fluid flows
CO3	students will be enabled to understand the various discretization methods, solutionprocedures and turbulence modeling.
CO4	To learn about calculation of flow field
CO5	To study about TURBULENCE AND ALGEBRAIC MODELS
CO6	To study of heat conduction of FEA

Student Outcomes (SOs) from Criterion 3 covered by this Course

COs/SOs	a	b	c	d	e	f	g	h	i	j	k	l
CO1	M											
CO2					H			M				H
CO3	M											H
CO4					H					L		H
CO5	M		H		H							H
CO6	M											