S.B. PATIL COLLEGE OF ENGINEERING VANGALI-INDAPUR

Program: Mechanical Engineering

Semester: IInd **Subject & Sub Code-: Manufacturing Technology (312313)**

COURSE	COURSE OUTCOMES
313.1	Produce a part using a lathe and drilling machine as per given drawing.
313.2	Produce a part using a milling machine as per given drawing.
313.3	Produce a part using casting processes as per given drawing.
313.4	Produce a part using forming processes as per given drawing.
313.5	Produce a part using joining processes as per given drawing.

CO-PO MAPPING

Course Outcome	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO 1	PSO 2	PSO 3
313.1	3	2	2	2	-	2	2	-	3	3
313.2	3	2	2	2	-	2	2	-	3	3
313.3	3	2	2	2	-	2	2	-	3	3
313.4	3	2	2	2	-	2	2	-	3	3
313.5	3	2	2	2	-	2	2	-	3	3
Correlation Level	3	2	2	2	-	2	2	-	3	3
Average CO-relation Level										2.3

S.B. PATIL COLLEGE OF ENGINEERING VANGALI-INDAPUR

Program: Mechanical Engineering

Semester: IVth **Subject & Sub Code-: Production Processes (314340)**

COURSE	COURSE OUTCOMES
340.1	Use appropriate CNC machine as per given application.
340.2	Prepare the component using grinding and various finishing operation.
340.3	Produce gears using various gear manufacturing methods.
340.4	Select the press and its components for various applications.
340.5	Select suitable Non-Traditional machining process for given component.

CO-PO MAPPING

Course Outcome	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions	PO-4 Engineering Tools	PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management	PO-7 Life Long Learning	PSO 1	PSO 2	PSO 3
340.1	3	-	-	3	-	-	2	3	3	2
340.2	3	2	2	3	-	-	2	-	3	3
340.3	3	3	2	3	-	-	2	3	2	2
340.4	3	3	2	3	-	-	2	2	2	2
340.5	3	-	-	2	-	-	2	2	3	3
Correlation Level	3	2.66	2	2.8	-	-	2	2.5	2.6	2.4
Average CO-relation Level										2.49

Program Outcomes (POs)	
PO1	**Basic and Discipline specific knowledge:** Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
PO2	**Problem analysis:** Identify and analyze well-defined engineering problems using codified standard methods.
PO3	**Design/ development of solutions**: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
PO4	**Engineering Tools, Experimentation and Testing:** Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
PO5	**Engineering practices for society, sustainability and environment:** Apply appropriate technology in context of society, sustainability, environment and ethical practices.
PO6	**Project Management:** Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
PO7	**Life-long learning:** Ability to analyze individual needs and engage in updating in the context of technological changes.

Program Specific Outcomes (PSOs):

Program Specific Outcomes (PSOs)
PSO1: Modern Software Usage: Apply the latest mechanical engineering software tools for simple design, drafting, manufacturing, maintenance, and documentation of mechanical components and processes.
PSO2: Maintenance and selection of machines, equipment, instruments: Select and maintain appropriate machines, equipment, and instruments relevant to various domains of Mechanical Engineering.
PSO3: Manage Mechanical Process: Efficiently manage mechanical processes by selecting and scheduling suitable machinery, equipment, materials, quality control techniques, operational parameters, and software to ensure economical and effective operations.

HOD **Academic Co-Ordinator** **Diploma Co-Ordinator** **Principal**