Shanti Education Society's

A. G. Patil Institute of Technology, Solapur
NAAC ACCREDITED

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CO-PO matrices of Courses

SUBJECT	Course Outcomes (COs)	PROGRAM OUTCOMES(POs)										
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
SY-I-Engineering Mathematics – III	CO-1	√										√
	CO-2	√										
Discrete Mathematics	CO-1				√							
	CO-2	√						√				
Computer Architecture & Organization	CO-1		√									
	CO-2				√							√
Elective –I OOP	CO-1	√								√		
	CO-2			√								
Data Structures Lab & Object Oriented Programming Lab	CO-1					√						
	CO-2	√							√			
SY-II-Design & Analysis of Algorithms	CO-1	√			√							
	CO-2		√			√						
Operating Systems	CO-1	√						√				
	CO-2			√						√		
Basic Human Rights	CO-1	√										
	CO-2	√				√						
Probability Theory and Random Processes	CO-1	√										
	CO-2	√				√						
Digital Logic Design & Microprocessors	CO-1				√				√			
	CO-2						√					
TY-I-Database Systems	CO-1	√			√							
	CO-2	√			√							
Theory of Computation	CO-1									√		
	CO-2	√				√					√	
Software Engineering	CO-1				√						√	
	CO-2			√								
Elective – II	CO-1	√										
	CO-2	√								√		
Elective – III	CO-1			√								

SUBJECT	Course Outcomes (COs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO-2	√						√				
TY-II-Compiler Design	CO-1	√					√					
	CO-2			√				√				
Computer Networks	CO-1	√										
	CO-2	√										
Machine Learning	CO-1			√					√			
	CO-2					√					√	
Elective– IV	CO-1	√					√					
	CO-2	√										
Elective – V	CO-1				√							
	CO-2	√						√				
BE-Artificial Intelligence	CO-1										√	
	CO-2	√			√							
Cloud Computing	CO-1						√					
	CO-2								√			
Elective – VI	CO-1	√					√					
	CO-2	√										
Open Elective – VII	CO-1			√								
	CO-2						√					
Open Elective – VIII	CO-1		√					√				
	CO-2	√										
Foreign Language Studies	CO-1	√			√							
	CO-2	√									√	

SUBJECT	Course Outcomes (COs)	PROGRAM OUTCOMES(POs)										
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
SY-I-Engineering Mathematics – III	CO-1	√										
	CO-2			√				√				
Materials Science and Metallurgy	CO-1	√										
	CO-2				√					√		
Fluid Mechanics	CO-1	√										
	CO2											
Machine Drawing and CAD	CO-1										√	
	CO-2	√							√	√		
Thermodynamics	CO-1										√	
	CO-2	√										
Basic Human Rights	CO-1			√								
	CO-2						√					
SY-II Manufacturing Processes - I	CO-1		√									
	CO-2				√					√		
Theory of Machines-I	CO-1			√								
	CO-2	√								√		

Subject	CO	1	2	3	4	5	6	7	8	9	10	11	12
Strength of Materials	CO-1	√					√						
	CO-2			√									
Numerical Methods in Mechanical Engineering	CO-1	√								√			
	CO-2	√					√						
Product Design Engineering – I	CO-1				√								
	CO-2	√									√		√
Elective	CO-1	√								√			
	CO-2												
TY-I Heat Transfer	CO-1				√								
	CO-2		√										
Applied Thermodynamics – I	CO-1	√						√					
	CO-2			√						√			
Machine Design – I	CO-1	√											
	CO-2	√										√	
Theory of MachinesII	CO-1				√						√		
	CO-2	√				√							
Metrology and Quality Control	CO-1	√											√
	CO-2			√				√					
Product Design Engineering - II	CO-1	√											
	CO-2				√						√		
Elective	CO-1		√										
	CO-2	√											
TY-II Manufacturing Processes- II	CO-1				√		√						
	CO-2	√								√			
Machine Design-II	CO-1				√								
	CO-2	√								√			
Applied Thermodynamics- II	CO-1	√						√				√	
	CO-2				√								
Elective-1	CO-1	√											
	CO-2			√						√			
Elective-2	CO-1	√						√					
	CO-2		√									√	
Elective-3	CO-1	√											
	CO-2				√			√					
BE-I Mechatronics	CO-1	√											
	CO-2				√								
CAD/CAM	CO-1			√							√		
	CO-2												
Manufacturing Processes - III	CO-1	√				√							√
	CO-2			√				√					

SUBJECT	Course Outcomes (COs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Elective-1	CO-1	√										
	CO-2	√										
Elective-2	CO-1		√		√							
	CO-2	√					√					
SUBJECT	Course Outcomes (COs)	PROGRAM OUTCOMES(POs)										
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
SY-I-Engineering Mathematics – III	CO-1	√						√				
	CO-2			√								
Mechanics of Solids	CO-1	√								√		
	CO-2			√			√					
Building Construction & Drawing	CO-1	√										
	CO-2				√						√	
Hydraulics -I	CO-1						√					
	CO-2	√										
Surveying	CO-1			√								
	CO-2						√					
Soft Skill Development	CO-1		√									
	CO-2	√										√
SY-II Building Planning and Drawing	CO-1				√							
	CO-2		√								√	
Environmental Engineering	CO-1	√										√
	CO-2				√							
Structural Mechanics - I	CO-1	√					√			√		
	CO-2			√								
Water Resources Engineering	CO-1						√					
	CO-2	√										
Hydraulics - II	CO-1			√				√				
	CO-2											√
Engineering Geology	CO-1	√										
	CO-2			√								√
TY-I Design of Steel Structures	CO-1						√			√		
	CO-2	√										
Geotechnical Engineering	CO-1		√									
	CO-2	√								√		
Structural Mechanics –II	CO-1											√
	CO-2	√			√							
Concrete Technology	CO-1						√					
	CO-2	√										
Project Management	CO-1	√								√		
	CO-2	√										
Elective	CO-1					√						√

SUBJECT	Course Outcomes (COs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
	CO-2	√							√			
Software applications in Civil Engineering	CO-1					√						
	CO-2	√										
TY-II Design of RC Structures	CO-1			√					√			
	CO-2	√				√						√
Foundation Engineering	CO-1	√										
	CO-2	√				√						
Artificial Intelligence	CO-1	√	√									√
	CO-2			√				√				
Elective-1	CO-1	√										
	CO-2											
Elective-2	CO-1		√				√				√	
	CO-2	√										
Indian Constitution	CO-1											√
	CO-2	√							√			
BE-I Design of Concrete Structures - II	CO-1	√			√							
	CO-2	√								√		
Infrastructure Engineering	CO-1	√										
	CO-2	√									√	
Water Resources Engineering	CO-1			√				√				
	CO-2	√								√		
Professional Practices	CO-1	√				√						
	CO-2		√									
Elective	CO-1								√			
	CO-2	√										
Open elective	CO-1				√							√
	CO-2	√							√			
SUBJECT	Course Outcomes (COs)	PROGRAM OUTCOMES(POs)										
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
SY-I-Engineering Mathematics – III	CO-1	√							√			
	CO-2							√				
Analog Circuits	CO-1			√			√					√
	CO-2	√										
Electronic Devices & Circuits	CO-1	√										
	CO-2	√			√					√		√
Network Analysis	CO-1							√				
	CO-2	√										
Digital Logic Design	CO-1				√							
	CO-2	√							√			
Basic Human Rights	CO-1							√				√
	CO-2	√										

Course	CO	1	2	3	4	5	6	7	8	9	10	11	12
SY-II-Electrical Machines and Instruments	CO-1				√						√		
	CO-2	√	√										
Analog Communication Engineering	CO-1	√			√								
	CO-2			√									√
Microprocessor	CO-1	√						√					
	CO-2			√									
Signals and Systems	CO-1	√			√								
	CO-2						√						
Product Design Engineering	CO-1				√						√		
	CO-2	√							√				
Numerical Methods and Computer Programming	CO-1	√					√						
	CO-2				√			√					
TY-I-Electromagnetic Field Theory	CO-1		√										
	CO-2						√						
Control System Engineering	CO-1	√											√
	CO-2								√				
Computer Architecture	CO-1	√			√								
	CO-2	√									√		
Digital Signal Processing	CO-1	√											
	CO-2										√		
Microcontroller and its Applications	CO-1	√					√						
	CO-2	√											
Data Structure & Algorithms Using Java Programming	CO-1	√											
	CO-2		√										√
TY-II-Antennas and Wave Propagation	CO-1		√				√						
	CO-2				√								
Computer Network & Cloud Computing	CO-1	√											
	CO-2	√		√				√					
Digital Image Processing	CO-1	√					√						
	CO-2	√											√
Power Electronics	CO-1										√		
	CO-2	√											
Python Programming	CO-1												
	CO-2	√					√		√				
Employability & Skill Development	CO-1			√									
	CO-2	√											
BE-I-Digital	CO-1	√										√	

SUBJECT	Course Outcomes (COs)	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Communication	CO-2				√							
Program Elective 3	CO-1	√								√		
	CO-2	√					√					
Program Elective 4	CO-1											√
	CO-2			√					√			
Program Elective 5	CO-1	√				√				√		
	CO-2	√			√							
Financial Management	CO-1			√			√					
	CO-2	√					√			√		
SUBJECT	**Course Outcomes (COs)**	**PROGRAM OUTCOMES(POs)**										
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Engineering Mathematics- I	CO-1	√							√			
	CO-2											
Engineering Physics	CO-1				√							√
	CO-2	√										
Engineering Graphics	CO-1	√						√				
	CO-2											
Communication Skills	CO-1	√				√						
	CO-2											
Energy and Environment Engineering	CO-1		√									
	CO-2				√				√			√
Basic Civil and Mechanical Engineering	CO-1	√								√		
	CO-2						√					√
Engineering Mathematics-II	CO-1	√			√			√				
	CO-2											
Engineering Chemistry	CO-1								√		√	
	CO-2	√										
Engineering Mechanics	CO-1	√					√					√
	CO-2											
Computer Programming in C	CO-1								√			
	CO-2	√									√	
Workshop Practices	CO-1	√				√						
	CO-2										√	
Basic Electrical and Electronics Engineering	CO-1	√	√					√				√
	CO-2						√			√		