



# SHREE DEVI INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University & Recognized by AICTE)

**AIRPORT ROAD, KENJAR, MANGALORE – 574 142**

Phone: 0824 – 2254104 Website: www.sdc.ac.in, E-mail : sdit\_kenjar@rediffmail.com

<b>Subject:</b> MANAGEMENT AND ENTREPRENEURSHIP													<b>Subject Code:</b> 15AE51		
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the basic concepts of management, planning, organizing and staffing.														
<b>CO2</b>	Acquire the knowledge to become entrepreneur.														
<b>CO3</b>	Comprehend the requirements towards the small-scale industries and project preparation.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	-	-	-	-	-	-	-	2	-			
<b>CO2</b>	2	2	3	-	-	-	-	-	-	-	2	-			
<b>CO3</b>	2	2	3	-	-	-	-	-	-	-	2	-			
Average	2	2	3	-	-	-	-	-	-	-	2	-			

<b>Subject:</b> INTRODUCTION TO COMPOSITE MATERIALS													<b>Subject Code:</b> 15AE52		
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the advantages of composite materials compared to conventional materials														
<b>CO2</b>	Evaluate the properties of polymer matrix composites with fiber reinforcements														
<b>CO3</b>	Explain the manufacturing process and applications of composite materials														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> HEAT AND MASS TRANSFER													<b>Subject Code:</b> 15AE53		
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the different modes of heat transfer.														
<b>CO2</b>	Understand the free convection and forced convection.														
<b>CO3</b>	Acquire the knowledge of heat transfer problems in combustion chambers.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3

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	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	-	2	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	-	2	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	-	2	-	-	-	-	-	-	-			
Average	2	2	3	-	2	-	-	-	-	-	-	-			

<b>Subject:</b> 15AE54							<b>Subject Code:</b> 15AE54								
<b>Course Outcomes</b>															
<b>CO1</b>	Comprehend the basic concepts of stress and strain.														
<b>CO2</b>	Acquire the knowledge of types of loads on aerospace vehicles.														
<b>CO3</b>	Understand the theory of elasticity.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	-	2	1	-	-	-	-	-	-	1			
<b>CO2</b>	2	2	-	2	1	-	-	-	-	-	-	1			
<b>CO3</b>	2	2	-	2	1	-	-	-	-	-	-	1			
Average	2	2	-	2	1	-	-	-	-	-	-	1			

<b>Subject:</b> THEORY OF VIBRATIONS							<b>Subject Code:</b> 15AE553								
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the basic concepts of vibrations.														
<b>CO2</b>	Understand the working principle of vibration measuring instruments.														
<b>CO3</b>	Acquire the knowledge of numerical methods for multi-degree freedom systems.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> AIRCRAFT TRANSPORTATION SYSTEMS							<b>Subject Code:</b> 15AE563								
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the air transport systems.														
<b>CO2</b>	Acquire the knowledge of aircraft characteristics, airlines and airport.														
<b>CO3</b>	Understand the navigation and environmental systems.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	-	2	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	-	2	-	-	-	-	-	-	-			

<b>CO3</b>	2	2	3	-	2	-	-	-	-	-	-	-			
Average	2	2	3	-	2	-	-	-	-	-	-	-			

<b>Subject:</b> AERODYNAMICS LAB							<b>Subject Code:</b> 15AEL57								
<b>Course Outcomes</b>															
<b>CO1</b>	Be acquainted with basic principles of aerodynamics using wind tunnel.														
<b>CO2</b>	Acquire the knowledge on flow visualization techniques.														
<b>CO3</b>	Understand the procedures used for calculating the lift and drag.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

<b>Subject:</b> ENERGY CONVERSION & FLUID MECHANICS LAB							<b>Subject Code:</b> 15AEL58								
<b>Course Outcomes</b>															
<b>CO1</b>	Familiarize with the flash point, fire point and viscosity of lubricating oils.														
<b>CO2</b>	Study IC engine parts, opening and closing of valves to draw the valve-timing diagram.														
<b>CO3</b>	Gain the knowledge of various flow meters and the concept of fluid mechanics.														
<b>CO4</b>	Understand the Bernoulli's Theorem.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO4</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> AERODYNAMICS-II							<b>Subject Code:</b> 15AE61								
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the concepts of compressible flow and shock phenomenon														
<b>CO2</b>	Acquire the knowledge of oblique shock and expansion wave formation.														
<b>CO3</b>	Appreciate the measurement in high-speed flow.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			

<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> GAS TURBINE TECHNOLOGY								<b>Subject Code:</b> 15AE62							
<b>Course Outcomes</b>															
<b>CO1</b>	Comprehend the types of engines and its applications.														
<b>CO2</b>	Understand the materials required for engine manufacturing.														
<b>CO3</b>	Acquire the knowledge of engine performance and testing.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

<b>Subject:</b> AIRCRAFT PERFORMANCE								<b>Subject Code:</b> 15AE63							
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the aircraft performance in steady unaccelerated and accelerated flight.														
<b>CO2</b>	Understand the airplane performance parameters.														
<b>CO3</b>	Acquire the knowledge on aircraft maneuver performance.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> EXPERIMENTAL STRESS ANALYSIS								<b>Subject Code:</b> 15AE654							
<b>Course Outcomes</b>															
<b>CO1</b>	Understand the basics of measurements.														
<b>CO2</b>	Study about the electrical resistance strain gauges.														
<b>CO3</b>	Acquire the knowledge of NDT.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

<b>Subject:</b> MAINTENANCE, OVERHAUL & REPAIR OF AIRCRAFT SYSTEMS													<b>Subject Code:</b> 15AE664		
<b>Course Outcomes</b>															
<b>CO1</b>	Comprehend the fundamentals of maintenance and certification.														
<b>CO2</b>	Acquire the knowledge of documentation for maintenance.														
<b>CO3</b>	Understand the Aircraft Maintenance, safety and trouble shooting.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> AIRCRAFT STRUCTURES LAB													<b>Subject Code:</b> 15AEL66		
<b>Course Outcomes</b>															
<b>CO1</b>	Learn about the simply supported beam, cantilever beam.														
<b>CO2</b>	Understand the Maxwell's theorem and Poisson ration.														
<b>CO3</b>	Acquire the knowledge about buckling load, shear failure and shear center.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

<b>Subject:</b> AIRCRAFT PROPULSION LAB													<b>Subject Code:</b> 15AEL67		
<b>Course Outcomes</b>															
<b>CO1</b>	Understand how to do the heat transfer														
<b>CO2</b>	Comprehend the cascade testing of axial compressor and axial turbine blade row.														
<b>CO3</b>	Study the performance of propeller and jet engines.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1			
<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

  
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<b>Subject:</b> Project Work Phase - 1												<b>Subject Code:</b> 15AEP68				
<b>Course Outcomes</b>																
<b>CO1</b>	Identify and interpret the realistic mechanical engineering problems and related systems.															
<b>CO2</b>	Apply the basic principles and concepts of mechanical engineering in real world systems based on professional ethics and responsibilities.															
<b>CO3</b>	Criticize and experiment to achieve optimum solutions for mechanical engineering problems.															
<b>CO4</b>	Analyze, evaluate and review the obtained solution for problems in mechanical engineering systems.															
<b>CO5</b>	Demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context.															
<b>CO-PO-PSO Mapping</b>																
<b>COs</b>	<b>POs</b>												<b>PSOs</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>CO1</b>	3				1	2	2	-	3	3	1	2				
<b>CO2</b>	3	1			2	1	-	1	3	3	1	3				
<b>CO3</b>	3	2	2	2	2	2	1		3	3	1	2				
<b>CO4</b>	3	2	2	2	2	2	1		3	3	1	2				
<b>CO5</b>						1		3	3	3		1				
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6				

<b>Subject:</b> CONTROL ENGINEERING												<b>Subject Code:</b> 15AE71				
<b>Course Outcomes</b>																
<b>CO1</b>	Apply the concepts of control systems.															
<b>CO2</b>	Reduce the block diagrams and signal flow graphs.															
<b>CO3</b>	Determine the frequency response analysis by using various types of plots.															
<b>CO-PO-PSO Mapping</b>																
<b>COs</b>	<b>POs</b>												<b>PSOs</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>CO1</b>	2	2	3	-	-	-	-	-	-	-	2	-				
<b>CO2</b>	2	2	3	-	-	-	-	-	-	-	2	-				
<b>CO3</b>	2	2	3	-	-	-	-	-	-	-	2	-				
Average	2	2	3	-	-	-	-	-	-	-	2	-				

<b>Subject:</b> COMPUTATIONAL FLUID DYNAMICS												<b>Subject Code:</b> 15AE72				
<b>Course Outcomes</b>																
<b>CO1</b>	Differentiate the FDM, FVM and FEM															
<b>CO2</b>	Perform the flow, structural and thermal analysis.															
<b>CO3</b>	Utilize the discretization methods according to the application.															
<b>CO-PO-PSO Mapping</b>																
<b>COs</b>	<b>POs</b>												<b>PSOs</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>	
<b>CO1</b>	3	3	-	2	2	-	-	-	1	-	-	1				
<b>CO2</b>	3	3	-	2	2	-	-	-	1	-	-	1				

<b>CO3</b>	3	3	-	2	2	-	-	-	1	-	-	1			
Average	3	3	-	2	2	-	-	-	1	-	-	1			

<b>Subject:</b> AIRCRAFT STABILITY AND CONTROL								<b>Subject Code:</b> 15AE73							
<b>Course Outcomes</b>															
<b>CO1</b>	Apply the basic concepts of aircraft stability and control.														
<b>CO2</b>	Differentiate the static longitudinal and static directional stability														
<b>CO3</b>	Estimate the dynamic derivatives.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>CO1</b>	2	2	3	-	2	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	-	2	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	-	2	-	-	-	-	-	-	-			
Average	2	2	3	-	2	-	-	-	-	-	-	-			

<b>Subject:</b> HELICOPTER DYNAMICS								<b>Subject Code:</b> 15AE743							
<b>Course Outcomes</b>															
<b>CO1</b>	Apply the basic concepts of helicopter dynamics.														
<b>CO2</b>	Compute the critical speed by using various methods.														
<b>CO3</b>	Distinguish the turborotor system stability by using transfer matrix and finite element formulation.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>CO1</b>	2	2	-	2	1	-	-	2	2	-	-	1			
<b>CO2</b>	2	2	-	2	1	-	-	2	2	-	-	1			
<b>CO3</b>	2	2	-	2	1	-	-	2	2	-	-	1			
Average	2	2	-	2	1	-	-	2	2	-	-	1			

<b>Subject:</b> FLIGHT SIMULATION LAB								<b>Subject Code:</b> 15AEL76							
<b>Course Outcomes</b>															
<b>CO1</b>	Plot the root locus and bode plot														
<b>CO2</b>	Calculate the dynamics response of aircraft.														
<b>CO3</b>	Use computational tools to model aircraft trajectory														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			

Average	2	2	3	1	-	-	-	-	-	-	-	-			
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<b>Subject:</b> MODELING & ANALYSIS LAB				<b>Subject Code:</b> 15AEL77											
<b>Course Outcomes</b>															
<b>CO1</b>	Draw the geometric models of symmetric, cambered aero foil, nozzle, wing and other structures.														
<b>CO2</b>	Apply different types of meshing.														
<b>CO3</b>	Perform the flow and stress analysis.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	-			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	-			
Average	2	2	3	1	-	-	-	-	-	-	-	-			

<b>Subject:</b> Project Work Phase - 1				<b>Subject Code:</b> 15AEP78											
<b>Course Outcomes</b>															
<b>CO1</b>	Identify and interpret the realistic mechanical engineering problems and related systems.														
<b>CO2</b>	Apply the basic principles and concepts of mechanical engineering in real world systems based on professional ethics and responsibilities.														
<b>CO3</b>	Criticize and experiment to achieve optimum solutions for mechanical engineering problems.														
<b>CO4</b>	Analyze, evaluate and review the obtained solution for problems in mechanical engineering systems.														
<b>CO5</b>	Demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>1</b>	<b>2</b>	<b>3</b>
<b>CO1</b>	3				1	2	2	-	3	3	1	2			
<b>CO2</b>	3	1			2	1	-	1	3	3	1	3			
<b>CO3</b>	3	2	2	2	2	2	1		3	3	1	2			
<b>CO4</b>	3	2	2	2	2	2	1		3	3	1	2			
<b>CO5</b>						1		3	3	3		1			
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6			

<b>Subject:</b> FLIGHT TESTING				<b>Subject Code:</b> 15AE831											
<b>Course Outcomes</b>															
<b>CO1</b>	Measure the flight parameters.														
<b>CO2</b>	Estimate the performance of flight.														



<b>CO3</b>	Apply the FAR regulations.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	1	-	-	-	-	-	-	-	-	-	1			
<b>CO2</b>	2	1	-	-	-	-	-	-	-	-	-	1			
<b>CO3</b>	2	1	-	-	-	-	-	-	-	-	-	1			
Average	2	1	-	-	-	-	-	-	-	-	-	1			

<b>Subject: AVIONICS</b>								<b>Subject Code: 15AE81</b>							
<b>Course Outcomes</b>															
<b>CO1</b>	Select the suitable data bus based on the application.														
<b>CO2</b>	Identify the suitable navigation systems.														
<b>CO3</b>	Distinguish the avionics system architecture.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	1	-	-	-	-	-	-	-	-	-	1			
<b>CO2</b>	2	1	-	-	-	-	-	-	-	-	-	1			
<b>CO3</b>	2	1	-	-	-	-	-	-	-	-	-	1			
Average	2	1	-	-	-	-	-	-	-	-	-	1			

<b>Subject: Project Phase – II</b>								<b>Subject Code: 15AEP83</b>							
<b>Course Outcomes</b>															
<b>CO1</b>	Identify and interpret the realistic mechanical engineering problems and related systems.														
<b>CO2</b>	Apply the basic principles and concepts of mechanical engineering in real world systems based on professional ethics and responsibilities.														
<b>CO3</b>	Criticize and experiment to achieve optimum solutions for mechanical engineering problems.														
<b>CO4</b>	Analyze, evaluate and review the obtained solution for problems in mechanical engineering systems.														
<b>CO5</b>	Demonstrate professionalism with ethics; present effective communication skills and relate engineering issues to broader societal context.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3				1	2	2	-	3	3	1	2			
<b>CO2</b>	3	1			2	1	-	1	3	3	1	3			
<b>CO3</b>	3	2	2	2	2	2	1		3	3	1	2			
<b>CO4</b>	3	2	2	2	2	2	1		3	3	1	2			
<b>CO5</b>						1		3	3	3		1			
Average	2.5	2.33	2.33	2	1.75	2	2	2.5	3	3	1.6	2.6			

<b>Subject:</b> Seminar													<b>Subject Code:</b> 15AES84		
<b>Course Outcomes</b>															
<b>CO1</b>	Identify recent technical topics from interested domains														
<b>CO2</b>	Acquire basic skills for performing literature survey.														
<b>CO3</b>	Improve their Presentation and Communication skills.														
<b>CO4</b>	Develop skills for preparing technical report														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	2			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	2			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	2			
<b>CO4</b>	2	2	3	1								1			
Average	2	2	3	1	-	-	-	-	-	-	-	1.8			

<b>Subject:</b> FLIGHT VEHICLE DESIGN													<b>Subject Code:</b> 15AE82		
<b>Course Outcomes</b>															
<b>CO1</b>	Calculate the thrust to weight ratio and wing loading.														
<b>CO2</b>	Compute the flight vehicle performance.														
<b>CO3</b>	Select the subsystems as per vehicle design.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	3	2	2	2	2	-	-	-	-	-	-	2			
<b>CO2</b>	3	2	2	2	2	-	-	-	-	-	-	2			
<b>CO3</b>	3	2	2	2	2	-	-	-	-	-	-	2			
Average	3	2	2	2	2	-	-	-	-	-	-	2			

<b>Subject:</b> Internship													<b>Subject Code:</b> 15AEI85		
<b>Course Outcomes</b>															
<b>CO1</b>	Conduct experiments to evaluate the design characteristics of various machine elements subjected to various loading.														
<b>CO2</b>	Analyse the theoretical and experimental concept in machine elements subjected to various loading.														
<b>CO3</b>	Understand and discuss the design characteristics of various systems subjected to mechanical loading.														
<b>CO-PO-PSO Mapping</b>															
<b>COs</b>	<b>POs</b>												<b>PSOs</b>		
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
<b>CO1</b>	2	2	3	1	-	-	-	-	-	-	-	2			
<b>CO2</b>	2	2	3	1	-	-	-	-	-	-	-	2			
<b>CO3</b>	2	2	3	1	-	-	-	-	-	-	-	2			
Average	2	2	3	1	-	-	-	-	-	-	-	2			

