

		KAS154/254 (Professional English Lab)												2.00	2.00		2.00
9	KEE101/201	CO-1	Apply the concepts of KVL/KCL and network theorems in solving DC circuits.	K3	3	3	3										2
		CO-2	Analyze the steady state behavior of single phase and three phase AC electrical circuits.	K2	3	3	3										2
		CO-3	Identify the application areas of a single phase two winding transformer and calculate their efficiency.	K2	3	2	3										2
		CO-4	Illustrate the working principles of induction motor, synchronous machine and DC machine.	K2	3	2											2
		CO-5	Describe the components of low voltage electrical installations.	K2	3	2											3
		KEE101/201 (Basic Electrical Engg.)				3.00	2.40	3.00									
10	KEE151/251	CO-1	Apply KVL/KCL and network theorems in DC circuits.	K3	2	2	2	2									
		CO-2	Demonstrate the behaviour of single phase and three phase AC circuits	K3	3	2	2	2		2							2
		CO-3	Illustrate and study the parameters of single phase transformer.	K3	3	3	2	2		2							2
		CO-4	Analysing speed control of AC and DC Motor	K3	3	3	2	2		2							2
		CO-5	Determine energy consumption (kWh) using single phase induction type energy meter.	K3	3	2	2	2									2
		KEE151/251 (Basic Electrical Engg. Lab)				2.80	2.40	2.00	2.00		2.00						
11	KCS101/201	CO-1	Translate the algorithms to programs & perform its execution in C language.	K3	3												3
		CO-2	Implement conditional branching, instructions along with operators.	K3	3	3	3										3
		CO-3	Use looping control instructions to decompose a problem into function.	K3	3	3	3										3
		CO-4	Apply arrays and structures to develop programs.	K3	3	3	3										3
		CO-5	Utilize pointer, file handling, dynamic memory allocation to solve problems.	K3	3	3	3										3
		KCS101/201				3.00	3.00	3.00									
12	KCS151/251	CO-1	Solve simple problems based on arithmetic expressions using operators.	K3	2	2	2										
		CO-2	Implement conditional branching instructions to develop programs.	K3	3	3	3										
		CO-3	Use looping control instructions and functions to solve complex problems.	K3	3	3	3										3
		CO-4	Design solutions by using arrays and structures to develop programs.	K3	3	3	3										3
		CO-5	Utilize pointer, file handling, dynamic memory allocation to solve problems.	K3	3	3	3										3
		KCS 151P/251P				2.80	2.80	2.80									
		CO-1	Use various engineering materials, tools, machines and measuring equipments.	K3	2					2		2	2			2	
		CO-2	Perform machine operations in lathe and CNC machine.	K3	3					2	2		2	3			2

13	KWS101/201	CO-3	Perform manufacturing operations on components in fitting and carpentry shop.	K3	2					2		2	2			2
		CO-4	Perform operations in welding, moulding and casting	K3	3					2	2	2	2			2
		CO-5	Fabricate a job by 3D printing manufacturing technique.	K3	2				2	2		2	3			2
		KWS101/201 (Workshop Practices)			2.40				2.00	2.00	2.00	2.00	2.40			2.00
14	KCE101/201	CO-1	Use scales and draw projections of objects.	K2	3									2		
		CO-2	Explain views of solids and their sectional surfaces.	K2	3	2								2		
		CO-3	Analyze and draw isometric projections of objects.	K3	3									2		
		CO-4	Demonstrate orthographic representation of perspective views using modern tools.	K2	3		2		3				2	2		
		CO-5	Apply AutoCAD software for creation of engineering drawing and models.	K3	3		2		3				2	2		2
		KCE101/201 (Engg. Graphics and Design)			3.00	2.00	2.00		3.00				2.00	2.00		2.00