

22LPC515	EMBEDDED COMPUTING	SEMESTER V
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COURSE OUTCOMES: Upon completion of the course, the students will be able to:		Bloom's Taxonomy Mapped	POs Mapped
CO1	Explain the fundamental characteristics of embedded computing systems, ARM Cortex M4 architecture, block diagrams, register-memory systems, and basic operating systems.	K2	-
CO2	Apply engineering knowledge to execute ARM instruction sets, configure GPIO ports, and implement embedded programming models.	K3	PO1
CO3	Analyze program-level performance, power optimization strategies, task scheduling algorithms, and IPC mechanisms.	K4	PO2
CO4	Design and develop architectural and structural descriptions for complex embedded systems.	K5	PO 3,5,6,7,8,9, 10,11
CO5	Design and implement RTOS-based embedded solutions using serial communication, ADC/DAC, PWM, and multitasking.	K6	PO 3,5,6

COURSE ARTICULATION MATRIX

COs /POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO 2	3	-	-	-	-	-	-	-	-	-	-	3	-	-
CO 3	-	3	-	-	-	-	-	-	-	-	-	3	-	-
CO 4	-	-	2	-	2	2	1	1	1	1	1	-	2	2
CO 5	-	-	2	-	2	1	-	-	-	-	-	-	2	2
22LPC515	3	3	2	-	2	2	1	1	1	1	1	3	2	2

1–Slight,2 –Moderate,3– Substantial

22LPC727	ADVANCED COMMUNICATION SYSTEMS LABORATORY	SEMESTER VII
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COURSE OUTCOMES:		Bloom's Taxonomy Mapped	PO's Mapped
Upon completion of the course, the students will be able to:			
CO1	Apply the fundamentals of two port networks, S- parameters and analyze the characteristics of microwave sources, passive networks, antennas, optical fibre cables by conducting experiments	K4	PO1
CO2	Analyze the characteristics of various path loss models and multipath mitigation techniques	K4	PO2
CO3	Design and simulate antennas using HFSS to meet the desired specification.	K6	PO3, 4
CO4	Simulate using Matlab to experiment various channel models and channel equalisation techniques	K6	PO4, 5
CO5	Act as a team member to record the work, document the experimentation results and their applications related to the benefit of society.	K6	PO6, 7, 8, 9,10,11

COURSE ARTICULATION MATRIX:

COs /POs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PSO 1	PSO 2	PSO 3
CO 1	3	-	-	-	-	-	-	-	-	-	-	3	-	-
CO 2	-	3	-	-	-	-	-	-	-	-	-	-	2	-
CO 3	-	-	3	2	-	-	-	-	-	-	-	-	2	-
CO 4	-	-	-	1	2	-	-	-	-	-	-	-	2	-
CO 5	-	-	-	-	-	1	1	1	3	1	1	-	2	2
22LPC727	3	3	3	2	2	1	1	1	3	1	1	3	2	2

1– Slight, 2 –Moderate, 3– Substantial