Department of Electrical & Electronics Engineering, Amritapuri Campus
B.Tech ELC Course Book July-Dec 2021

I SEMESTER ELC

Cat.	Code	Title	L T P	Credit	Exam Slot
HUM	19ENG111	Technical Communication	2 0 3	3	
SCI	19MAT101	Single Variable Calculus	1 0 0	1	
SCI	19MAT106	Ordinary Differential Equation	2 0 0	2	
SCI	19MAT102	Matrix Algebra	2 0 0	2	
ENGG	19CSE100	Problem Solving and Algorithmic Thinking	2 1 3	4	
SCI	19CHY102	Engineering Chemistry - B	2 1 0	3	
SCI	19CHY182	Engineering Chemistry Lab - B	0 0 3	1	
ENGG	19MEE181	Manufacturing Practice	0 0 3	1	
ENGG	19MEE100	Engineering Graphics - CAD	2 0 3	3	
HUM	19CUL101	Cultural Education - I	2 0 0	2	
		TOTAL	32	**22**	

III SEMESTER ELC

Cat.	Code	Title	L T P	Credit	Exam Slot
ENGG	19ELC204	Electric Machines	3 0 3	4	
ENGG	19ELC205	Microelectronic Circuits	3 0 3	4	
ENGG	19ELC201	Sensors and Sensor Circuit Design	3 0 3	4	
ENGG	19ELC203	Computer Architecture	2 0 3	3	
SCI	19MAT214	Fourier Transforms and Complex Analysis	2 1 0	3	
ENGG	19ELC206	Operating Systems	3 0 0	3	
ENGG	19ELC202	Object Oriented Programming	1 0 3	2	
HUM	19AVP201	Amrita Values Programme I	1 0 0	1	
		TOTAL	34	**24**	

V SEMESTER ELC

Cat.	Code	Title	L T P	Credit	Exam Slot
ENGG	19ELC304	Machine Learning	3 0 0	3	A
ENGG	19ELC301	Real Time Embedded Systems	3 0 3	4	C
ENGG	19ELC303	Energy Systems	3 0 3	4	B
ENGG	19ELC302	Embedded Digital Signal Processing	3 0 3	4	D
ENGG		**Professional Elective I***	3 0 0	3	E
	19EEE331	Smart Grid and IoT			
	19EEE432	Vehicular Networks and Communication			
	19CSE456	Neural Networks and Deep Learning			
ENGG		**Professional Elective II***	3 0 0	3	F
	19EEE354	Introduction to Robotics			
	19ECE331	Biomedical Instrumentation			
HUM	19SSK301	Soft Skills II	1 0 2	2	L1
ENGG	19LIV390	[Live In Lab]***		[3]	G
		TOTAL	30	**23+[3]**	