

Department of Electrical & Electronics Engineering, Amritapuri Campus

B.Tech EEE Course Book July-Dec 2021

I SEMESTER EEE

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 EEE

Cat.	Code	Title	L T P	Credit	Exam Slot
SCI	19MAT214	Fourier Transforms and Complex Analysis	2 1 0	3	
ENGG	19EEE205	Fundamentals of Mechanical Engineering	2 0 0	2	
ENGG	19EEE206	Material Science for Electrical Engineering	2 0 0	2	
ENGG	19EEE202	Analog Integrated Circuits	3 0 3	4	
ENGG	19EEE204	Electrical Measurements	3 0 3	4	
ENGG	19EEE203	Digital Systems	3 0 3	4	
ENGG	19EEE201	Electromagnetic Theory	3 0 0	3	
HUM	19AVP201	Amrita Values Programme I	1 0 0	1	
TOTAL			29	23	

V SEMESTER EEE

Cat.	Code	Title	L T P	Credit	Exam Slot
ENGG	19EEE302	Electrical Energy Systems II	3 0 3	4	A
ENGG	19EEE304	Power Electronics	3 0 3	4	D
ENGG	19EEE301	Digital Signal Processing	3 0 3	4	C
	19EEE303	Electrical Machines II	3 0 3	4	B
ENGG		Professional Elective I*	3 0 0	3	E
	19EEE331	Smart Grid and IoT			
	19EEE432	Vehicular Networks and Communication			
ENGG		Professional Elective II*	3 0 0	3	F
	19EEE354	Introduction to Robotics			
	19CSE362	Fundamentals of Soft Computing			
HUM	19SSK301	Soft Skills II	1 0 2	2	L1
ENGG	19LIV390	[Live in Labs]***		[3]	G
TOTAL			33	24	

VII SEMESTER EEE

Cat.	Code	Title	L T P	Credit	Exam Slot
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ENGG	15EEE401	Electric Drives & Control	3 1 0	4	A
ENGG	15EEE402	Electrical Energy Systems II	3 1 0	4	B
ENGG		Elective II*	3 0 0	3	C
	15EEE330	Advanced Control Systems			
	15EEE353	Power Quality			
ENGG		Elective III*	3 0 0	3	D
	15EEE333	Deregulated Power System			
	15EEE339	Electrical Safety			
ENGG	15EEE481	Drives & Control lab	0 0 3	1	L1
ENGG	15EEE482	Power Systems Lab	0 0 3	1	L2
PRJ	15EEE495	Project Phase I	0 0 4	2	P1
ENGG	15EEE490	Live in Lab**	---	3	P2
		TOTAL	24	21	

