

Department of Electrical & Electronics Engineering, Amritapuri Campus

B.Tech EEE Course Book July-Dec 2020

I SEMESTER EEE

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

III SEMESTER EEE

Cat.	Code	Title	L T P	Credit	Exam Slot	Faculty
SCI	19MAT214	Fourier Transforms and Complex Analysis	2 1 0	3		Ms.Sreelatha K S
ENGG	19EEE205	Fundamentals of Mechanical Engineering	2 0 0	2		Mr. Arunkumar K
ENGG	19EEE206	Material Science for Electrical Engineering	2 0 0	2		Mr. Rahulan N
ENGG	19EEE202	Analog Integrated Circuits	3 0 3	4		Ms. Indu V [Lab-Ms. Indu V, Mr. Anudev J]
ENGG	19EEE204	Electrical Measurements	3 0 3	4		Ms. Seema P N [Lab- Ms. Seema P N, Mr. Jishnu Sankar V C]
ENGG	19EEE203	Digital Systems	3 0 3	4		Ms. Divya R, [Lab- Ms. Divya R, Mr. Anudev J]
ENGG	19EEE201	Electromagnetic Theory	3 0 0	3		Ms. Angel TS
HUM	19AVP201	Amrita Values Programme I	1 0 0	1		Namboothiripad (CIR)
		TOTAL	29	23		

V SEMESTER EEE

Cat.	Code	Title	L T P	Credit	Exam Slot	Faculty
ENGG	15EEE301	Control Systems	3 0 0	3	A	Ms. Angel T S
ENGG	15EEE302	Digital Systems	3 0 0	3	B	Ms. Divya R
ENGG	15EEE303	Electrical Machines II	3 0 0	3	C	Dr. P Kanakasabapathy
ENGG	15EEE304	Signals & Systems	3 0 0	3	E	Ms. Amritha S
HUM	15ENV300	Environmental Science and Sustainability	3 0 0	3	D	Ms. Geena Prasad
ENGG	15MEC305	Thermal Engineering & Fluid Machinery	3 0 0	3	F	Dr. Ajith Kumar S
ENGG	15EEE381	Digital Signal & Systems Lab	0 0 2	1	L1	Ms. Amritha S, Ms. Divya R, Mr. Vivek A
ENGG	15EEE382	Electrical Machines Lab II	0 0 2	1	L2	Dr. P Kanakasabapathy, Ms. Jayasree P R, Dr. Ravikumar Pandi
HUM	15SSK321	Soft Skills II	1 0 2	2	G	CIR Dept
ENGG	15EEE390	Live in Lab**	---	3	P2	
		TOTAL	25	25		

VII SEMESTER EEE

Cat.	Code	Title	L T P	Credit	Exam Slot	Faculty (A Batch)	Faculty (B Batch)
ENGG	15EEE401	Electric Drives & Control	3 1 0	4	A	Mr. Jishnu Sankar V C	Ms. Asha CA
ENGG	15EEE402	Electrical Energy Systems II	3 1 0	4	B	Dr. Preetha PK	Dr. Preetha PK
ENGG		Elective II*	3 0 0	3	C		
	15EEE339	Electrical Safety				Mr. Sreejith Kailas	
	15EEE362	Utilisation of Electric Energy				Ms. Asha C A	
ENGG		Elective III*	3 0 0	3	D		
	15EEE330	Advanced Control Systems				Mr. Vivek A	
	15EEE334	Design of Electrical Apparatus				Mr. Sreejith Kailas	
	15EEE345	Illumination Engineering				Ms. Sreelekshmi R S	
ENGG	15EEE481	Drives & Control lab	0 0 3	1	L1	Mr. Jishnu Sankar VC, Ms. Asha CA	,Mr Sreejith Kailas, Mr. Bharath KR
ENGG	15EEE482	Power Systems Lab	0 0 3	1	L2	Dr. Preetha PK, Ms. Angel TS	Dr. Preetha PK, Ms. Angel TS
PRJ	15EEE495	Project Phase I	0 0 4	2	P1	Mr. Anudev J	Mr. Vivek A
ENGG	15EEE490	Live in Lab**	---	3	P2		
		TOTAL	24	21			

Department of Electrical & Electronics Engineering, Amrita
B.Tech ELC Course Book July-Dec 2020

I SEMESTER ELC

Cat.	Code	Title
HUM	19ENG111	Technical Communication
SCI	19MAT101	Single Variable Calculus
SCI	19MAT106	Ordinary Differential Equation
SCI	19MAT102	Matrix Algebra
ENGG	19CSE100	Problem Solving and Algorithmic Thinking
SCI	19CHY102	Engineering Chemistry - B
SCI	19CHY182	Engineering Chemistry Lab - B
ENGG	19MEE181	Manufacturing Practice
ENGG	19MEE100	Engineering Graphics - CAD
HUM	19CUL101	Cultural Education - I
		TOTAL

III SEMESTER ELC

Cat.	Code	Title
ENGG	19ELC204	Electric Machines
ENGG	19ELC205	Microelectronic Circuits
ENGG	19ELC201	Sensors and Sensor Circuit Design
ENGG	19ELC203	Computer Architecture
SCI	19MAT214	Fourier Transforms and Complex Analysis
ENGG	19ELC206	Operating Systems
ENGG	19ELC202	Object Oriented Programming
HUM	19AVP201	Amrita Values Programme I
		TOTAL

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L T P	Credit	Exam Slot
2 0 3	3	
1 0 0	1	
2 0 0	2	
2 0 0	2	
2 1 3	4	
2 1 0	3	
0 0 3	1	
0 0 3	1	
2 0 3	3	
2 0 0	2	
32	22	

L T P	Credit	Exam Slot
3 0 3	4	
3 0 3	4	
3 0 3	4	
2 0 3	3	
2 1 0	3	
3 0 0	3	
1 0 3	2	
1 0 0	1	
34	24	

Faculty
Dr. Shibani C. Aich
Dr. Manjusha R
Dr. Manjusha R
Dr. Manjusha R
Bri. Neetha
Ms. Athira Krishnan
Ms. Athira Krishnan
ME Dept
ME Dept
Bri. Shakunthala

Faculty
Ms. Jayasree P R [Lab- Ms. Jayasree P R, Dr. P Kanakasabapathy]
Ms. Indu V [Lab - Ms. Indu V, Mr. Bharath K R]
Ms. Lekshmi R Chandran [Lab - Ms. Lekshmi R Chandran, Ms. Seema P N]
Mr. Meher Madhu Dharmana [Lab - Mr. Meher Madhu Dharmana, Ms. Jayasree P R]
Mr.Pramod P Nair
Mr. Bharath KR
Mr. Vivek A [Lab- Mr. Vivek A, Ms. Angel T S]
Bri Deepthi

Department of Electrical & Electronics Engineering, Amritapuri
M.Tech - Power & Energy(Smart Grids & Electric Vehicles)
Course Book July-Dec 2020

I SEMESTER

Cat.	Code	Title
FC	19MA604	Software Based Numerical Computation Methods
SC	19PR611	Power System Planning, Operation and Control
SC	19PR612	Sustainable and Renewable Energy Technology
FC	19PR601	Power Electronic Converters for Smartgrids and Electric Vehicles
SC	19PR613	Smartgrid
SC	19PR614	Electric Vehicle Technology
FC	19PR602	Digital Signal Controllers
HU	19HU601	Amrita Values Program*
HU	19HU602	Career Competency I*
		TOTAL

III SEMESTER

Cat.	Code	Title
P	19PR798	Dissertation
		TOTAL

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L T P	Credit	Exam Slot	Faculty
2 0 2	3		Dr.Sreedeeep C D
3 0 2	4		Dr. Ravikumar Pandi
2 0 2	3		Ms. Sreelekshmi R S
2 0 2	3		Dr. P.Kanakasabapathy
3 0 0	3		Dr. Manjula G Nair
2 0 2	3		Mr. Jishnu Sankar V C
3 0 2	4		Mr. Bharath K R
	P/F		Bri Deepthi
	P/F		CIR Dept
	23		

L T P	Credit	Exam Slot	Faculty
	10		Ms.Sreelekshmi R S
	10		

Department of Electrical & Electronics Engineering, Amritapuri
M.Tech - Embedded Control & Automation
Course Book July-Dec 2020

I SEMESTER EEE

Cat.	Code	Title
FC	19MA605	Computational Linear Algebra, Differential Equations and Probability Theory
FC	19EM601	Digital Signal Controllers
FC	19EM602	Dynamics of Linear & Nonlinear Systems
SC	19EM611	Modelling and Identification of Dynamic Systems
SC	19EM612	Embedded Control System
SC	19EM613	Process Control and Automation
HU	19HU601	Amrita Values Program*
HU	19HU602	Career Competency I *
		TOTAL

i Campus

L T P	Credit	Exam Slot	Faculty
3 1 0	4		Dr. Prajisha E
3 0 2	4		Mr. Bharath K R
2 0 2	3		Ms. Jayasree P R
3 0 2	4		Ms. Amritha S
3 0 2	4		Ms. Seema P N
3 0 2	4		Mr. Meher Madhu Dharmana
	P/F		Bri Deepthi
	P/F		CIR Dept
	23		