

Amrita School of Engineering

Amritapuri Campus

(Dept. of Mechanical Engineering)

Course Book July - Dec 2021

S1 ME - A					
Cat.	Code	Title	L T P	Cr	ES
SCI	19MAT101	Single Variable Calculus	1 0 0	1	
SCI	19MAT111	Multivariable Calculus	2 0 0	2	
SCI	19MAT104	Basic Linear Algebra	2 0 0	2	
ENGG	19CSE100	Problem Solving and Algorithmic Thinking	2 1 3	4	
SCI	19PHY102	Engineering Physics - B	2 1 0	3	
SCI	19PHY182	Engineering Physics Lab - B	0 0 3	1	
ENGG	19EEE100	Basic Electrical and Electronics Engineering	3 0 0	3	
ENGG	19EEE181	Basic Electrical and Electronics Engineering Lab	0 0 3	1	
ENGG	19MEE101	Engineering Drawing	2 0 3	3	
HUM	19CUL101	Cultural Education - I	2 0 0	2	
		TOTAL	30	22	

S3 ME					
Cat	Code	Title	L T P	Cr	ES
SCI	19MAT 210	Probability and Complex Variables	4 0 0	4	
ENGG	19MEE 201	Thermodynamics	3 1 0	4	
ENGG	19MEE 203	Mechanics of solids	3 1 0	4	
ENGG	19MEE 204	Metallurgy and Material science	3 0 0	3	
ENGG	19MEE 202	Manufacturing Process I	2 0 3	3	
ENGG	19MEE 281	Material Testing and Metallurgy Lab.	0 0 3	1	
SCI	19CSE 282	Python Programming	2 0 0	2	
HUM		Free Elective I	1 0 3		
	18MAL101	Malayalam I			
	19ENG232	Insights into Life through Communication			
	19GER232	Proficiency in German Language (Lower)			
HUM	19AVP 201	Amrita Values Programme I	1 0 0	1	
HUM	19ENV 300	Environmental Science		P/F	
		TOTAL	29	23	

S5 ME					
Cat	Code	Title	L T P	Cr	ES
ENGG	19MEE301	Design of Machine Elements - I	3 0 0	3	
ENGG	19MEE302	Dynamics of Machines	3 0 0	3	
ENGG	19MEE303	Heat Transfer	3 1 0	4	
ENGG	19MEE306	Operations Research	2 0 3	3	
HUM	19MNG300	Disaster Management		P/F	

ENGG	19MEE304	Instrumentation and Control Systems	3 0 0	3	
HUM		Free Elective II**	2 0 0	2	
	19MEE342	Lean Manufacturing	3 0 0	3	
	19MEE341	Engineering Economic Analysis	3 0 0	3	
	19MEE347	Total Quality Management	3 0 0	3	
	19HUM242	The Message of Bhagavad Gita	2 0 0	2	
	19HUM230	Emotional Intelligence	2 0 0	2	
	19ENG232	Insights into Life through Communication	To S5 ME (Cap 30)		
	19MAL111	Malayalam II	To S5 ME (Only for those who opted 18MAL101 in S3)		
ENGG	19LIV390	[Live in Labs]***		[3]	
ENGG	19MEE381	Heat Transfer Laboratory	0 0 3	1	
ENGG	19MEE382	Instrumentation and Control Laboratory	0 0 3	1	
ENGG	19MEE305	Machine Drawing	2 0 3	3	
HUM	19SSK301	Soft Skills II	1 0 3	2	
		Total		25/26 [+3]	

S7 ME					
Cat	Code	Title	L T P	Cr	ES
ENGG	15MEC402	Control Engineering	3 0 0	3	B
ENGG	15MEC403	Industrial Robotics	3 0 0	3	C
ENGG	15MEC404	Mechanical Vibrations	3 0 0	3	F
HUM	15ENV300	Environmental Science and Sustainability	3 0 0	3	H
ENGG	Elective IV		3 0 0	3	E
	15MEC256	Refrigeration and Air Conditioning			
	15MEC261	Advanced Casting Technology			
	15MEC232	Automotive Technology			
	15MEC234	Design for Manufacture and Assembly			
ENGG	Elective VI		3 0 0	3	J
	15MEC401	Advanced Fluid Mechanics			
	15MEC246	Automotive Electronics			
	15MEC251	Fundamentals of Nuclear Engineering			
ENGG	15MEC481	CIM Lab	0 0 2	1	L1
ENGG	15MEC482	Machine Dynamics & Control Lab	0 0 2	1	L2
PRJ	15MEC495	Project Phase I		2	P1
ENGG	15MEC490	Live-in-Lab		[3]	P2
		Total		22 [+3]	