

## Amrita School of Engineering

Amritapuri Campus

(Dept. of Mechanical Engineering)

**Course Book July - Dec 2020**

### S1 ME A

Cat.	Code	Title	L T P	Cr	ES	Faculty
SCI	19MAT101	Single Variable Calculus	1 0 0	1		Ms.Sreelatha K S
SCI	19MAT111	Multivariable Calculus	2 0 0	2		Ms.Sreelatha K S
SCI	19MAT104	Basic Linear Algebra	2 0 0	2		Ms.Sreelatha K S
ENGG	19CSE100	Problem Solving and Algorithmic Thinking	2 1 3	4		
SCI	19PHY102/ 19CHY101	Engineering Physics - B /Engineering Chemistry - A	2 1 0	3		
SCI	19PHY182/ 19CHY181	Engineering Physics Lab - B / Engineering Chemistry Lab - A	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		Mr. Manu Sivan
HUM	19CUL101	Cultural Education - I	2 0 0	2		
		<b>TOTAL</b>	<b>30</b>	<b>22</b>		

### S1 ME B

Cat.	Code	Title	L T P	Cr	ES	Faculty
SCI	19MAT101	Single Variable Calculus	1 0 0	1		Mr.Pramod P Nair
SCI	19MAT111	Multivariable Calculus	2 0 0	2		Mr.Pramod P Nair
SCI	19MAT104	Basic Linear Algebra	2 0 0	2		Mr.Pramod P Nair
ENGG	19CSE100	Problem Solving and Algorithmic Thinking	2 1 3	4		
SCI	19PHY102/ 19CHY101	Engineering Physics - B /Engineering Chemistry - A	2 1 0	3		
SCI	19PHY182/ 19CHY181	Engineering Physics Lab - B / Engineering Chemistry Lab - A	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		Br. Rupesh R
HUM	19CUL101	Cultural Education - I	2 0 0	2		

		<b>TOTAL</b>	<b>30</b>	<b>22</b>		
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<b>S3 ME A</b>						
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
SCI	19MAT 210	Probability and Complex Variables	4 0 0	4	A	Ms.Sandhya R
ENGG	19MEE 201	Thermodynamics	3 1 0	4	B	Mr. Arunkumar K
ENGG	19MEE 203	Mechanics of solids	3 1 0	4	C	Mr. Ebin P S
ENGG	19MEE 204	Metallurgy and Material science	3 0 0	3	D	Dr. Balakrishanan Shankar
ENGG	19MEE 202	Manufacturing Process I	2 0 3	3	E	Mr. Rakesh N
ENGG	19MEE 281	Material Testing and Metallurgy Lab.	0 0 3	1	L1	Mr. Sambhu / Dr. Karthik
SCI	19CSE 282	Python Programming	2 0 0	2	L2	Mr.Gilad Gressel
HUM		Free Elective I	1 0 3		G	
HUM	19AVP 201	Amrita Values Programme I	1 0 0	1	F	
HUM	19ENV 300	Environmental Science		P/F	H	
		<b>TOTAL</b>	29	<b>23</b>		

<b>S3 ME B</b>						
<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
SCI	19MAT 210	Probability and Complex Variables	4 0 0	4	A	Mr.Ranjith R
ENGG	19MEE 201	Thermodynamics	3 1 0	4	B	Mr. Rakesh N
ENGG	19MEE 203	Mechanics of solids	3 1 0	4	C	Dr. Hariprasad M P
ENGG	19MEE 204	Metallurgy and Material science	3 0 0	3	D	Dr. Balakrishanan Shankar
ENGG	19MEE 202	Manufacturing Process I	2 0 3	3	E	Mr. Rajesh R
ENGG	19MEE 281	Material Testing and Metallurgy Lab.	0 0 3	1	L1	Mr. Ebin P S / Mr. Rahulan N
SCI	19CSE 282	Python Programming	2 0 0	2	L2	Mr.Gilad Gressel
HUM		Free Elective I	1 0 3		G	
HUM	19AVP 201	Amrita Values Programme I	1 0 0	1	F	
HUM	19ENV 300	Environmental Science		P/F	H	
		<b>TOTAL</b>	29	<b>23</b>		

**S5 ME A**

<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
ENGG	15MEC301	Design of Machine Elements I	3 0 0	3	A	Dr. Arunkumar S
ENGG	15MEC302	Dynamics of Machines	3 0 0	3	C	Mr. Sambhu R
ENGG	15MEC303	Heat Power Engineering	3 0 0	3	D	Mr. Manu Sivan
ENGG	15MEC304	Manufacturing Process II	3 0 0	3	F	Dr. Karthik V S
SCI	15MAT302	Numerical Methods	2 0 2	3	B	Ms. Sivaselvi K
<b>ENGG</b>	<b>Elective II</b>		<b>3 0 0</b>	<b>3</b>		
	15MEC252	Gas Dynamics and Jet Propulsion				Mr.Sarath R S
	15MEC271	Non-Destructive Testing				Mr. Sambhu R
	15MEC238	Micro-Electro Mechanical Systems				Dr. Jeethu S Babu
ENGG	15MEC381	Manufacturing Process Lab	0 0 2	1	L1	Mr. Rajesh R
ENGG	15MEC382	Thermal Science Lab	0 0 2	1	L2	Mr. Manu Sivan, Mr. Sarath R S
HUM	15SSK321	Soft Skills II	1 0 2	2	G	
ENGG	15MEC390	Live in Lab		[3]	P2	
		<b>Total</b>		<b>22 [+3]</b>		

**S5 ME B**

<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
ENGG	15MEC301	Design of Machine Elements I	3 0 0	3	A	Mr. Sumesh K P
ENGG	15MEC302	Dynamics of Machines	3 0 0	3	C	Mr. Vipin V
ENGG	15MEC303	Heat Power Engineering	3 0 0	3	D	Mr. Sreekumar P S
ENGG	15MEC304	Manufacturing Process II	3 0 0	3	F	Mr. Rajesh R
SCI	15MAT302	Numerical Methods	2 0 2	3	B	Dr. Arunkumar S
<b>ENGG</b>	<b>Elective II</b>		<b>3 0 0</b>	<b>3</b>		
	15MEC252	Gas Dynamics and Jet Propulsion			<b>E</b>	Mr.Sarath R S
	15MEC271	Non-Destructive Testing				Mr. Sambhu R
	15MEC238	Micro-Electro Mechanical Systems				Dr. Jeethu S Babu
ENGG	15MEC381	Manufacturing Process Lab	0 0 2	1	L1	Mr. Surendran K N
ENGG	15MEC382	Thermal Science Lab	0 0 2	1	L2	Mr. Sreekumar P C, Mr. Harikrishnan G
HUM	15SSK321	Soft Skills II	1 0 2	2	G	
ENGG	15MEC390	Live in Lab		[3]	P2	
		<b>Total</b>		<b>22 [+3]</b>		

**S7 ME A**

<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
ENGG	15MEC402	Control Engineering	3 0 0	3	B	Dr. Jeetu S Babu
ENGG	15MEC403	Industrial Robotics	3 0 0	3	C	Dr. Ganesh Udupa
ENGG	15MEC404	Mechanical Vibrations	3 0 0	3	F	Dr. Pramod Sreedharan
HUM	15ENV300	Environmental Science and Sustainability	3 0 0	3	D	Ms. Sivaselvi K
<b>ENGG</b>	<b>Elective IV</b>		<b>3 0 0</b>	<b>3</b>	<b>E</b>	
	15MEC256	Refrigeration and Air Conditioning				Mr. Sreekumar P C
	15MEC261	Advanced Casting Technology				Dr. Karthik V S
	15MEC258	Turbomachinery				Mr. Ebin P S
<b>ENGG</b>	<b>Elective</b>		<b>3 0 0</b>	<b>3</b>	<b>H</b>	
	15MEC401	Advanced Fluid Mechanics				Dr. Vikas Rajan
	15MEC255	Power Plant Engineering				Mr. Harikrishnan G
ENGG	15MEC481	CIM Lab	0 0 2	1	L1	Dr. Pramod S
ENGG	15MEC482	Machine Dynamics & Control Lab	0 0 2	1	L2	Dr. Hari Prasad M P / Dr. Jeethu
PRJ	15MEC495	Project Phase I		2	P1	
ENGG	15MEC490	Live-in-Lab		[3]	P2	
		<b>Total</b>		<b>22 [+3]</b>		

**S7 ME B**

<b>Cat</b>	<b>Code</b>	<b>Title</b>	<b>L T P</b>	<b>Cr</b>	<b>ES</b>	<b>Faculty</b>
ENGG	15MEC402	Control Engineering	3 0 0	3	B	Dr. Jyothi S N
ENGG	15MEC403	Industrial Robotics	3 0 0	3	C	Dr. Pramod Sreedharan
ENGG	15MEC404	Mechanical Vibrations	3 0 0	3	F	Mr. Vipin V
HUM	15ENV300	Environmental Science and Sustainability	3 0 0	3	D	Ms. Geena Prasad
<b>ENGG</b>	<b>Elective IV</b>		<b>3 0 0</b>	<b>3</b>	<b>E</b>	
	15MEC256	Refrigeration and Air Conditioning				Mr. Sreekumar P C
	15MEC261	Advanced Casting Technology				Dr. Karthik V S
	15MEC258	Turbomachinery				Mr. Ebin P S
<b>ENGG</b>	<b>Elective</b>		<b>3 0 0</b>	<b>3</b>	<b>H</b>	
	15MEC401	Advanced Fluid Mechanics				Dr. Vikas Rajan
	15MEC255	Power Plant Engineering				Mr. Harikrishnan G
ENGG	15MEC481	CIM Lab	0 0 2	1	L1	Mr. Surendran
ENGG	15MEC482	Machine Dynamics & Control Lab	0 0 2	1	L2	Mr. Vipin / Ms Gayathri
PRJ	15MEC495	Project Phase I		2	P1	
ENGG	15MEC490	Live-in-Lab		[3]	P2	
		<b>Total</b>		<b>22 [+3]</b>		