

ROYAL SCHOOL OF ENGINEERING & TECHNOLOGY
B.TECH. IN MECHANICAL ENGINEERING
COURSE STRUCTURE

Induction Training: First three weeks of First Semester classes							
1st semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	CHY022C101	Chemistry	3	0	2	4	5
2	MAT022C102	Mathematics - I	3	1	0	4	4
3	MEE022C113	Workshop	1	0	4	3	5
4	CEE022C114	Engineering Graphics	1	0	4	3	5
5		English – I (Developing Oral Communication and Listening Skills)	1	0	0	1	1
6		Environmental Sciences - I	1	0	0	1	1
7		Behavioural Science - I	1	0	0	1	1
		TOTAL	11	1	10	17	22

2nd semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	PHY022C201	Physics	3	0	2	4	5
2	MAT022C202	Mathematics - II	3	1	0	4	4
3	CSE022C203	Programming for Problem Solving	2	0	4	4	6
4	ELE022C204	Basic Electrical Engineering	3	0	2	4	5
5		English – II (Conversation and Public Speaking)	1	0	0	1	1
6		Environmental Sciences - II	1	0	0	1	1
7		Behavioural Science - II	1	0	0	1	1
		TOTAL	14	1	8	19	23

3rd semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MAT022C301	Mathematics III (PDE, Prob/Stat)	3	1	0	4	4
2	ECE022C302	Basic Electronics	3	0	0	3	3
3	MEE022C303	Engineering Mechanics	3	1	0	4	4
4	MEE022C304	Primary Manufacturing	3	0	2	4	5
5	MEE022C305	Basic Thermodynamics	3	1	0	4	4
6	MEE022C316	Machine Drawing	0	0	4	2	3
7	BIO022C307	Biology for Engineers	2	0	0	2	2
8		English – III (Career Oriented Communication)	1	0	0	1	1
		TOTAL	18	3	6	24	26

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4th semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MEE022C401	Applied Thermodynamics	3	1	0	4	4
2	MEE022C402	Mechanics of Materials	3	1	0	4	4
3	MEE022C403	Kinematics of Machines	3	1	0	4	4
4	MEE022C404	Fluid Mechanics	3	1	2	5	6
5	ELE022C405	Electro-Technology	3	0	2	4	5
6	BSA022C406	Principles of Management	3	0	0	3	3
7		English – IV (Communication and presentation skills)	1	0	0	1	1
		TOTAL	19	4	4	25	27

5th semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MEE022C501	Design of Machine Elements	3	1	0	4	4
2	MEE022C502	Material Science	3	0	2	4	5
3	MEE022C503	Heat Transfer	3	1	2	5	6
4	MEE022G504EX	Open Elective I	3	0	0	3	3
5	BSA022C505	Organisational Behaviour	3	0	0	3	3
6		English - V	1	0	0	1	1
7		Indian Constitution	1	0	0	1	1
		TOTAL	17	2	4	21	23

6th semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MEE022C601	Dynamics of Machines	3	1	2	5	6
2	MEE022D602EX	Elective I (Departmental)	3	0	0	3	3
3	MEE022D603EX	Elective II (Departmental)	3	0	0	3	3
4	MEE022G604EX	Open Elective II	3	0	0	3	3
5	COM022C605	Economics & Accountancy	3	0	0	3	3
6		English - VI	1	0	0	1	1
7		Essence of Indian Traditional Knowledge	1	0	0	1	1
		TOTAL	17	1	2	19	20

***Summer training/internship is to be undertaken at the end of 6th Semester*

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7th semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MEE022C701	Instrumentation & Control	3	0	0	3	4
2	MEE022C702	Power Plant Engineering	3	0	0	3	4
3	MEE022D703EX	Elective III (Departmental)	3	0	0	3	3
4	MEE022G704EX	Open Elective I (Core)	3	0	0	3	3
5	MEE022C745	Assessment of the Summer Training/internship	0	0	0	1	0
6	MEE022C726	Project I	0	0	6	3	6
		TOTAL	12	0	6	16	20

8th semester							
Sl. No.	Subject Code	Names of subjects	L	T	P	C	TCP
1	MEE022D801EX	Elective IV (Departmental)	3	0	0	3	3
2	MEE022D802EX	Elective V (Departmental)	3	0	0	3	3
3	MEE022D803EX	Elective VI (Departmental)	3	0	0	3	3
4	MEE022G804EX	Open Elective II (Core)	3	0	0	3	3
5	MEE022C825	Project – II	0	0	10	5	10
6	MEE022C836	Comprehensive Viva	0	0	0	2	0
		TOTAL	12	0	10	19	22

Summary	L	T	P	C	TCP
SEM 1	11	1	10	17	22
SEM 2	14	1	8	19	23
SEM 3	18	3	6	24	26
SEM 4	19	4	4	25	27
SEM 5	17	2	4	21	23
SEM 6	17	1	2	19	20
SEM 7	12	0	6	16	20
SEM 8	12	0	10	19	22
Grand Total	120	12	50	160	183

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MEE022D602EX	Elective I
MEE022D602E1	<i>Machine Tools & Machining</i>
MEE022D602E2	Mechatronic Systems
MEE022D602E3	Microprocessors in Automation

MEE022G504EX	Open Elective I
MEE022G504E1	Computer Aided Design
MEE022G504E2	Workshop Practice: Fitting & Carpentry
MEE022G504E3	Smart Materials

MEE022D603EX	Elective II
MEE022D603E1	<i>Convective Heat Transfer</i>
MEE022D603E2	Composite Materials
MEE022D603E3	Nuclear Power Generation

MEE022G603EX	Open Elective II
MEE022G603E1	Renewable Energy
MEE022G603E2	Fundamentals of Automobile Engineering
MEE022G603E3	3D Printing

MEE022D703EX	Elective III
MEE022D703E1	<i>Fluid Machines</i>
MEE022D703E2	Finite Element Analysis
MEE022D703E3	Welding Technology

MEE022G704EX	Open Elective III
MEE022G704E1	<i>Pollution Control Engineering</i>
MEE022G704E2	Disaster Management
MEE022G704E3	Project & Production Management

MEE022D801EX	Elective IV
MEE022D801E1	<i>Refrigeration and Air Conditioning</i>
MEE022D801E2	Vibration and Noise Control
MEE022D801E3	Engineering System Design

MEE022G804EX	Open Elective IV
MEE022G804E1	<i>Energy Conservation and Management</i>
MEE022G804E2	Operation Research
MEE022G804E3	Total Quality Management

MEE022D802EX	Elective V
MEE022D802E1	<i>Internal Combustion Engines</i>
MEE022D802E2	Design of Transmission Systems
MEE022D802E3	Advanced Mechanics of Solids

MEE022D803EX	Elective VI
MEE022D803E1	<i>Gas Dynamics and Jet Propulsion</i>
MEE022D803E2	Automobile Engineering
MEE022D803E3	Computational Fluid Dynamics