STRUCTURE OF THE SYLLABUS FOR 4 YEAR UG PROGRAMME

ROYAL SCHOOL OF ENGINEERING & TECHNOLOGY

B.Tech Mechanical Engineering

SEMESTER 1		
S. No.	Subject Code	Names of subjects
1	CHY022C101	Chemistry -I
2	CHY022C111	Chemistry Lab
3	MAT022C101	Mathematics-I
4	CSE022C104	Programming for problem solving
5	MEE022C103	Biology For Engineers
6	MEE022C115	Manufacturing Practice Workshop
7	BHS022A103	Universal Human Values
8	CEE022S117	Sports and Yoga/NSS/NCC
		TOTAL

SEMESTER 2		
S. No.	Subject Code	Names of subjects
1	PHY022C201	Physics -I
2	PHY022C211	Physics Lab
3	MAT022C201	Mathematics-II
4	CSE022C203	Basic Electrical Engineering
5	CSE022C215	Basic Electrical Engineering Lab
6	CEE022C204	Engineering Graphics & Design
7	CEN022A201	English For Technical Writing
8	COD022S216	Design Thinking
9	CEE022S217	IDEA LAB
		TOTAL

SEMESTER 3		
S. No.	Subject Code	Names of subjects
1	Engineering Thermodynamics	Engineering Thermodynamics
2	Engineering Mechanics	Engineering Mechanics
3	Mechanics of Deformable Solids	Mechanics of Deformable Solids
4	Mathematics-III	Mathematics-III

S. No.			
5	IKS-I	IKS-I	
6	Basic Electronics Engineering	Basic Electronics Engineering	
7	Machine Drawing Lab	Machine Drawing Lab	
		TOTAL	
8		**Honors/Minor (Optional) [To be obtained through MOOCS/ SWAYAM]**	

	SEMESTER 4	
S. No.	**Subject Code**	**Names of subjects**
1	MEE022C401	Fluid Mechanics & Hydraulic Machines
2	MEE022C402	Primary Manufacturing
3	MEE022C403	Applied thermodynamics
4	MEE022C404	Kinematics of Machines
5	MEE022C405	Engineering Materials and Application
6	MEE022C411	Fluid Mechanics Machines lab
		TOTAL
7		**Honors/Minor (Optional) [To be obtained through MOOCS/ S**

	SEMESTER 5	
S. No.	**Subject Code**	**Names of subjects**
1	MEE022C501	Machine element and system design
2	MEE022C502	Manufacturing Process
3	MEE022C503	Measurements and Metrology
4	MEE022C504	Heat Transfer and Thermal Machines
5	MEE022C514	Heat Transfer Lab
6	MEE022C506	Robotics & Control
		TOTAL
7		**Honors/Minor (Optional) [To be obtained through MOOCS/ S**

	SEMESTER 6	
S. No.	**Subject Code**	**Names of subjects**
1	MEE022C601	CAD/CAM
2	MEE022C602	Manufacturing Automation
3	MEE022C603	IC Engine
4	MEE022C604	Dynamics of Machinery
5	MEE022C614	Dynamics of Machinery Lab
6	MEE022C606	Production and Operation Management
7	MEE022C617	Engineering Project-1 (Seminar)
		TOTAL

	SEMESTER 7	
8		**Honors/Minor (Optional) [To be obtained through MOOCS/ S**
S. No.	**Subject Code**	**Names of subjects**
1	MEE022C701	Product Innovation & Entrepreneurship
2	MEE022D702	Finite Element Analysis (PE1)
3	MEE022D703	Renewable Energy Engineering (PE2)
4	MEE022O704	Additive Manufacturing (OE1)
5	MEE022O705	Composite Materials (OE2)
6	MEE022C706	Internship Evaluation (Seminar)
7	MEE022C717	Engineering Project-2 (Design & Analysis)
		TOTAL

8		Honors/Minor (Optional) [To be obtained through MOOCS/ S
	SEMESTER 8	
S. No.	**Subject Code**	**Names of subjects**
1	MEE022D801	Computational Fluid Dynamics (PE 3)
2	MEE022C802	Refrigeration & Air Conditioning
3	MEE022O803	Automobile Engineering (OE 3)
4	MEE022C804	Engineering Project-3(Prototype)
		TOTAL
5		Honors/Minor (Optional) [To be obtained through MOOCS/ S

TOTAL CREDITS (1st-8th Semester):168