

## VAAGESWARI COLLEGE OF ENGINEERING

UGC AUTONOMOUS

Accredited by NAAC with A+ Grade and ISO 9001:2015 Certified

Approved by AICTE New Delhi, Affiliated to JNTUH Hyderabad and Recognized by Govt. of Telangana

### B.Tech. in MECHANICAL ENGINEERING COURSE STRUCTURE & SYLLABUS (R24 Regulations) Applicable from AY 2024-25 Batch

#### I YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24MA101BS	Matrices and Calculus	3	1	0	4
2.	24PH102BS	Applied Physics	3	1	0	4
3.	24ME103ES	C Programming and Data Structures	3	0	0	3
4.	24ME104ES	Engineering Workshop	0	1	3	2.5
5.	24EN105HS	English for Skill Enhancement	2	0	0	2
6.	24ME106ES	Elements of Mechanical Engineering	0	0	2	1
7.	24PH107BS	Applied Physics Laboratory	0	0	3	1.5
8.	24ME108ES	C Programming and Data Structures Laboratory	0	0	2	1
9.	24EN109HS	English Language and Communication Skills Laboratory	0	0	2	1
10.	24MC110NC	Environmental Science	3	0	0	0
		Induction Programme				
<b>Total</b>			<b>14</b>	<b>3</b>	<b>12</b>	<b>20</b>

#### I YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24MA201BS	Ordinary Differential Equations and Vector Calculus	3	1	0	4
2.	24CH202BS	Engineering Chemistry	3	1	0	4
3.	24ME203ES	Computer Aided Engineering Graphics	1	0	4	3
4.	24ME204ES	Engineering Mechanics	3	0	0	3
5.	24ME205PC	Engineering Materials	2	0	0	2
6.	24ME206ES	Python Programming Laboratory	0	1	2	2
7.	24CH207BS	Engineering Chemistry Laboratory	0	0	2	1
8.	24ME208PC	Fuels & Lubricants Laboratory	0	0	2	1
<b>Total</b>			<b>12</b>	<b>3</b>	<b>10</b>	<b>20</b>

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## II YEAR I SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24MA301BS	Probability, Statistics & Complex Variables	3	1	0	4
2.	24ME302PC	Mechanics of Solids	3	0	0	3
3.	24ME303PC	Metallurgy & Material Science	3	0	0	3
4.	24ME304PC	Production Technology	3	0	0	3
5.	24ME305PC	Thermodynamics	3	1	0	4
6.	24ME306PC	Production Technology Laboratory	0	0	2	1
7.	24ME307PC	Material Science & Mechanics of Solids Laboratory	0	0	2	1
8.	24ME308PC	Computer Aided Machine Drawing	0	0	2	1
9.	24MC309NC	Constitution of India	3	0	0	0
		<b>Total Credits</b>	<b>18</b>	<b>2</b>	<b>6</b>	<b>20</b>

## II YEAR II SEMESTER

S. No.	Course Code	Course Title	L	T	P	Credits
1.	24ME401PC	Basic Electrical and Electronics Engineering	3	0	0	3
2.	24ME402PC	Kinematics of Machinery	3	0	0	3
3.	24ME403PC	Fluid Mechanics & Hydraulic Machines	3	0	0	3
4.	24ME404PC	IC Engines & Gas Turbines	3	0	0	3
5.	24ME405PC	Instrumentation and Control Systems	3	0	0	3
6.	24ME406PC	Basic Electrical and Electronics Engineering Laboratory	0	0	2	1
7.	24ME407PC	Fluid Mechanics & Hydraulic Machines Laboratory	0	0	2	1
8.	24ME408PC	Instrumentation and Control Systems Laboratory	0	0	2	1
9.	24ME409PC	Real-time Research Project/ Field-Based Project	0	0	4	2
10.	24MC410NC	Gender Sensitization Lab	0	0	2	0
		<b>Total Credits</b>	<b>15</b>	<b>0</b>	<b>12</b>	<b>20</b>

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