

SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER – I (Batch: 2023-27)

1. **Lecture (L):** 1 hour / week / semester,
2. **Practical (P):** 2 hour / week / semester,
3. **Tutorial (T):** 2 hour / week / semester.

TEACHING SCHEME											
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
APS111	Applied Calculus	3	2	0	3	4	100	Y	N	Assignment	Revised
APS121	Applied Science	3	0	2	3	4	100	Y	Y	Assignment	
CV114	Fundamentals of Civil Engineering	3	0	2	3	4	100	Y	Y	LMS Quiz	
ME128	Fundamentals of Mechanical Engineering	3	0	2	3	4	100	Y	Y	Assignment	Revised
ME129	Workshop Practice	0	0	2	0	1	-	Y	Y	---	Revised
ESL001	English As A Second Language-I	3	0	0	3	3	100	Y	N	Assignment+ Presentation	
<b>TOTAL</b>		<b>15</b>	<b>02</b>	<b>08</b>	<b>15</b>	<b>20</b>					
		<b>Total Teaching Hours 25</b>									

1. CIE – Continuous internal evaluation (TCIE &/OR PCIE)
2. SSH - Self-study hours
3. PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc..
4. (@) Audit Course / Non-Gradiual Course
5. TSEE – Theory Semester End Examinations
6. Y – Yes | N- No
7. TH – Theory | PR – Practical | TU – Tutorial
8. Any other abbreviation

SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER – II (Batch: 2023-27)

1. **Lecture (L):** 1 hour / week / semester,
2. **Practical (P):** 2 hour / week / semester,
3. **Tutorial (T):** 2 hour / week / semester.

TEACHING SCHEME											
Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remark if any
		TH	TU	PR							
APS201	Vector Calculus and Linear Algebra	3	2	0	3	4	100	Y	N	Assignment	Revised
ES001	Environmental Science*	2*	0	0	4	3	50	Y	N	Assignment	
CV115	Mechanics of Solids	3	0	2	3	4	100	Y	Y	Assignment	
EL105	Fundamentals of Electrical Engineering	3	0	2	3	4	100	Y	Y	Assignment	Revised
ESL002	English As A Second Language - Intermediate Level-II	3	0	0	3	3	100	Y	N	Assignment+ Presentation	
ME134	Engineering Drawing with AutoCAD	3	0	4	3	5	100	Y	Y	Task Based	Revised
	<b>TOTAL</b>	<b>17</b>	<b>02</b>	<b>08</b>	<b>19</b>	<b>23</b>					
		<b>Total Teaching Hours 27</b>									

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HOD

Director



# SYLLABUS

SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER - III (Batch: 2022-26)

1. **Lecture (L):** 1 hour / week / semester,
2. **Practical (P):** 2 hour / week / semester,
3. **Tutorial (T):** 2 hour / week / semester.

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Mark of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
APS301	Differential Equations	4	0	0	4	4	100	Y	N	Assignment	
ME308	Manufacturing Process - I	3	0	2	3	4	100	Y	Y	Assignment	
ME312	Engineering Thermodynamics	3	0	0	3	3	100	Y	N	Assignment	
ME313	Fluid Mechanics	3	0	2	3	4	100	Y	Y	Assignment	
ME314	Material Science and Metallurgy	3	0	2	3	4	100	Y	Y	Assignment	
ME315	Machine Design and Industrial Drafting	2	2	2	2	4	100	Y	Y	Assignment	
CE323	Python Programming	0	0	2	0	1	-	N	Y	Assignment	
<b>TOTAL</b>		<b>18</b>	<b>2</b>	<b>10</b>	<b>21</b>	<b>24</b>					
		<b>Total Teaching Hours 30</b>									

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SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER - IV (Batch: 2022-26)

1. **Lecture (L):** 1 hour / week / semester,
2. **Practical (P):** 2 hour / week / semester,
3. **Tutorial (T):** 2 hour / week / semester.

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credit	Audit course	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
APS411	Complex Variables and Numerical Methods	4	0	0	2	4	N	Y	N		
ME406	Kinematics of Machines	3	0	2	3	4	N	Y	Y		
ME410	Fluid Power Engineering	3	0	2	3	4	N	Y	Y		
ME417	Mechanical Measurement and Metrology	2	0	2	2	3	N	Y	Y		
ME414	Manufacturing Process - II	3	0	2	3	4	N	Y	Y		
ME415	Software Lab - II	0	0	2	0	1	N	Y	Y		
ME416	Industrial Engineering	3	0	0	3	3	N	Y	N		
NEN001	Orientation Program in Entrepreneurship	2	0	0	2	2	N	Y	N		
<b>TOTAL</b>		<b>20</b>	<b>0</b>	<b>10</b>	<b>18</b>	<b>25</b>					
		<b>Total Teaching Hours 30</b>									

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# SYLLABUS

SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER - V (Batch: 2021-25)

1. **Lecture (L):** 1 hour / week / semester,
2. **Practical (P):** 2 hour / week / semester,
3. **Tutorial (T):** 2 hour / week / semester.

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credit	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Method	Remarks if any
		TH	TU	PR							
ME519	Machine Design - I	3	2	2	3	5	100	Y	Y	Assignment	
ME514	Software Lab - III	0	0	2	0	1	-	Y	Y	- - -	
ME515	Power Plant Engineering	3	0	0	3	3	100	Y	N	Assignment	
ME516	Production Technology	3	0	2	3	4	100	Y	Y	Assignment	
ME526	Theory of Machines	3	0	2	3	4	100	Y	Y	Assignment	
PC511	Rural Internship	0	0	2	2	1	-	Y	Y	- - -	
ME5XX	Departmental Elective - I	3	0	2	3	4	100	Y	Y		Any One Offered Dept. Elect. - I
00XXX	University Elective - I	3	0	0	3	3	100	Y	N		Any One Offered Uni. Elect. - I
<b>TOTAL</b>		<b>18</b>	<b>2</b>	<b>12</b>	<b>20</b>	<b>25</b>					
		<b>Total Teaching Hours 30</b>									

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SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING  
SEMESTER - VI (Batch: 2021-25)

1. Lecture (L): 1 hour / week / semester,
2. Practical (P): 2 hour / week / semester,
3. Tutorial (T): 2 hour / week / semester.

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
ME608	Dynamics of Machines	3	0	2	3	4	100	Y	Y		
ME610	Computer Aided Design	3	0	2	3	4	100	Y	Y		
ME611	Internal Combustion Engines	3	0	2	3	4	100	Y	Y		
ME617	Alternate Energy Sources	2	0	0	2	2	50	Y	N		
ME626	Heat and Mass Transfer	3	0	2	3	4	100	Y	Y		
ME6XX	Departmental Elective - II	3	0	2	3	4	100	Y	Y		
00XXX	University Elective - II	3	0	0	3	3	100	Y	N		
<b>TOTAL</b>		<b>20</b>	<b>0</b>	<b>10</b>	<b>20</b>	<b>25</b>					
		<b>Total Teaching Hours 30</b>									

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5. TSEE - Theory Semester End Examinations	6. Y - Yes    I    N- No

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SCHOOL OF ENGINEERING

ACADEMIC YEAR - 2023-24

DEFINITION OF ONE CREDIT:

PROGRAM: B. Tech - MECHANICAL ENGINEERING

SEMESTER - VII (Batch: 2020-24)

1. Lecture (L): 1 hour / week / semester,
2. Practical (P): 2 hour / week / semester,
3. Tutorial (T): 2 hour / week / semester.

## TEACHING SCHEME

Course Code	Course Name	Teaching Hours			SSH	Credits	Max. Marks of TSEE	CIE	PSEE	TCIE-I Assessment Scheme	Remarks if any
		TH	TU	PR							
ME706	Refrigeration and Air Conditioning	3	0	2	3	4	100	Y	Y	Assignment	
ME708	Computer Integrated Manufacturing	3	0	2	3	4	100	Y	Y	Presentation	
ME711	Project	-	-	2#	10	5	-	Y	Y	---	
ME720	Machine Design II	3	2	2	3	5	100	Y	Y	Assignment	
ME721	Operation Research	3	0	0	3	3	100	Y	N	Assignment	
ME722	Thermal Engineering	3	0	0	3	3	100	Y	N	Assignment	
ME723	Automobile Engineering	3	0	2	3	4	100	Y	Y	Assignment	
	<b>TOTAL</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>28</b>	<b>28</b>					
		<b>Total Teaching Hours 30</b>									



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SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2023-24  
DEFINITION OF CREDIT:

PROGRAM: B. TECH - MECHANICAL ENGINEERING  
SEMESTER - VIII (Batch - 2020-24)  
1. **Lecture (L):** 1 hour/week/semester,  
2. **Practical (P):** 2 hour/week/semester  
3. **Tutorial(T):** 2 hour/week/semester

TEACHING SCHEME										
Course Code	Course Name	Teaching Hours			SSH	Credits	Audit course	CIE	PSEE	Remarks if any
		TH	TU	PR						
ME814	Industrial Training	0	0	0	-	25	N	Y	Y	
	<b>TOTAL</b>	<b>00</b>	<b>00</b>	<b>00</b>	<b>-</b>	<b>25</b>				
		<b>Total Teaching Hours 00</b>								

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