



SYLLABUS

SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2019-20
DEFINATION OF ONE CREDIT:

PROGRAM: M. TECH - MACHINE DESIGN (MECHANICAL ENGINEERING)
SEMESTER - I (Batch: 2019-21)

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
		Theory	Tutorial	Practical						
RM103	Research Methodology and IPR	3	0	0	2	3	N	Y	N	
MD122	Advanced Mechanics of Solids	3	2	0	3	4	N	Y	N	
MD123	Computer Aided Design	2	0	2	3	3	N	Y	Y	
MD126	Advanced Vibrations and Acoustics	2	0	2	2	3	N	Y	Y	
MD127	Advanced Machine Design-I	3	0	0	3	3	N	Y	N	
MD128	Innovative Design and Production	2	0	2	2	3	N	Y	Y	
MD9XX	Elective-I	3	0	2	2	4	N	Y	Y	Any One Offered Elect. - I
PG101	Software Lab - I	0	0	2	2	1	N	Y	Y	
	TOTAL	18	2	10	19	24				
		Total Teaching Hours 30								

N- No CIE – Continuous internal evaluation
Y – Yes PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc.
SSH - Self-study hours

HOD

Director



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SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2019-20
DEFINITION OF ONE CREDIT:

PROGRAM: M. TECH - MACHINE DESIGN (MECHANICAL ENGINEERING)
SEMESTER - II (Batch: 2019-21)

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
		Theory	Tutorial	Practical						
MD211	Finite Element Method	4	0	2	2	5	N	Y	Y	
MD217	Engineering Optimization	3	0	0	3	3	N	Y	N	
MD218	Geometric Dimensioning and Tolerancing	3	0	2	2	4	N	Y	Y	
MD219	Advanced Machine Design - II	3	0	0	2	3	N	Y	N	
MD220	Robotics and Automation	3	0	2	2	4	N	Y	Y	
MD9YY	Elective – II	4	0	2	2	5	N	Y	Y	Any One Offered Elect. - II
PG201	Software Lab - II	0	0	2	2	1	N	Y	Y	
TOTAL		20	0	10	15	25				
		Total Teaching Hours 30								

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SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2019-20
DEFINATION OF ONE CREDIT:

PROGRAM: M. TECH - MACHINE DESIGN (MECHANICAL ENGINEERING)
SEMESTER - III (Batch: 2018-20)

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	Cre dits	Audit course	CIE	PSEE	Remarks if any
		Theory	Tutorial	Practical						
MD301	Seminar	-	-	-	3	5	N	Y	Y	
MDDP1	Dissertation Phase-I	-	-	-	20	20	N	Y	Y	
TOTAL		-	-	-	23	25				
		Total Teaching Hours --								

N- No

CIE – Continuous internal evaluation

Y – Yes

PSEE – Practical semester end examination including ITD, Dissertation, Industrial project, Industrial training etc.

SSH - Self-study hours

HOD

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SCHOOL OF ENGINEERING
ACADEMIC YEAR - 2019-20
DEFINATION OF ONE CREDIT:

PROGRAM: M. TECH - MACHINE DESIGN (MECHANICAL ENGINEERING)
SEMESTER - IV (Batch: 2018-20)

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
		Theory	Tutorial	Practical						
MDDP2	Dissertation Phase-II	-	-	-	20	25	N	Y	Y	
TOTAL		-	-	-	20	25				
		Total Teaching Hours --								

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SSH - Self-study hours

HOD

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