



# SYLLABUS

SCHOOL OF ENGINEERING  
ACADEMIC YEAR - 2019-20

DEFINATION OF ONE CREDIT:

PROGRAM: M. TECH - THERMAL SCIENCE (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						
TH301	Seminar	-	-	-	3	5	N	Y	Y	
THDP1	Dissertation Phase-I	-	-	-	20	20	N	Y	Y	
<b>TOTAL</b>		-	-	-	<b>23</b>	<b>25</b>				
		<b>Total Teaching Hours --</b>								

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**

<b>Course Title</b>	<b>SEMINAR</b>
<b>Course Code</b>	<b>TH301</b>
<b>Course Credit</b>	Lecture : 00
	Practical : 05
	Tutorial : 00
	Total : 05

### Course Learning Outcomes

**At the end of the course the students will be able to**

- **Recognize** various opportunities within the Mechanical Engineering field.
- **Solve** specific important problems on a level worthy of the academic master's degree
- **Practice** management of individual research projects
- **Write** reports & research papers and **Express** their work by audio/visual presentation.

### Instructional Method and Pedagogy:

- The students need to prepare seminar report on a topic relevant to his course and it should be other than Dissertation Project.
- You will be required to make professional presentations of your work to diverse audiences. The goal of this class is for you to become better at doing so.
- The overall goal is broken down into three key objectives. The first is to introduce you to ideas, methods and techniques that you can use to improve the content and presentation of scientific seminars.
- The second objective is to practice these methods by developing and presenting a unique seminar of your own.
- Finally, you will learn by example by providing feedback to each other.

<b>Course Title</b>	<b>DISSERTATION PHASE - I</b>
<b>Course Code</b>	<b>THDP1</b>
<b>Course Credit</b>	Lecture : 00
	Practical : 20
	Tutorial : 00
	Total : 20

### Course Learning Outcomes

**At the end of the course the students will be able to**

- **Define** their research problem, objective & scope and express it by a mathematical/analytical model.
- **Recognize** a research gap and a methodology for the research work
- **Identify** solution method for the research problem by applying various techniques for various alternatives
- **Express** their problem definition by reports & audio/visual presentation.

### Guide Line:

Major Part I is aimed at training the students to analyze independently any problem in the field of Design Engineering. The project may be analytical or computational or experimental or combination of them based on the latest developments in the said area. At the end of the semester, the students will be required to submit detailed report. The Major Project Part I should consist of objectives of study, scope of work, critical literature review of the Major Project and preliminary work pertaining to the said work.