

## PhD Course Structure of ME

(Mechanical Engg).

UGC has specified a mandatory pre-registration Course Work of a minimum of total 16 credits to be completed by every PhD student prior to starting the proposed research work. Accordingly, the following shall be the structure of the Course Work of minimum 16 credits for the PhD students in Mechanical Engineering at Tezpur University:

### (1) Compulsory Course:

A Ph.D. Program is the formal starting of scientific research, therefore, every PhD student shall be required to study the following compulsory Courses irrespective of his/her specific domain of the targeted research under the Ph.D. Program.

- (i) A course on Doctoral Research Methodology of 4 credits to acquire knowledge on how to conduct a piece of research.
- (ii) A course on Research and Publication Ethics of 2 credits to make them conversant with various ethical norms of conduction and dissemination of research and also with consequences on their violations.
- (iii) A Course on Ph.D. preregistration seminar of 1 credit to acquire the art of research presentation.

### (2) Choice-based Courses:

Apart from the compulsory Courses, every Ph.D. student shall be required to study some choice-based elective courses of a minimum total of 09 credits to fulfill the requirement of a minimum total of 16 credits in the entire Course Work. These courses shall be for acquiring prior academic knowledge for the conduct of the targeted research under the Ph.D. Program.

The PhD Course structure is given below with the core and the departmental electives of level 500 and above. Apart from the departmental electives, the PhD students will also be able to opt for MOOCs courses available in NPTEL SWAYAM portal or any other relevant course offered by other departments of Tezpur University as electives depending on his/her nature of PhD work and as advised by the research supervisors.

### Ph. D. Course Structure

Course Category	SN	Code	Title	L	T	P	Cr	Ch
Core	1	RP799	Research and Publication Ethics	1	0	1	2	3
	2	ME702	PhD Pre-registration Seminar				1	2
	3	XXX	Doctoral Research Methodology	4	0	0	4	4
Electives	4	ME 701	Advanced Heat Transfer	3	0	0	3	3
	5	ME603	Thermal power generation systems	3	0	0	3	3
	6	ME605	Hybrid Electric Vehicles	3	0	0	3	3

  
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