Course Structure for Pre Ph.D. (ME)

Department of Mechanical Engineering DIT University, Dehradun



Course Structure for Pre Ph.D. (ME) Course Work Session: 2017-18

Course Structure for Pre Ph.D. (ME)

Sr. No.	Course Code	Course Title	L	Τ	Ρ	Credit
1		Research Methodology	4	0	0	4
2		Elective-I	4	0	0	4
3		Elective-II	4	0	0	4
4		Seminar	0	0	2	1
		Total Credits				13

List of Electives

ME651	Computer Graphics			
	Computer Graphics			
ME652	Management Information Systems			
ME653	Machine Tool Design			
ME654	Artificial Intelligence			
ME655	Advanced Mechanics of Solids			
ME656	Modeling And Simulation			
ME657	Rapid Prototyping			
ME658	Industrial Safety Management			
ME659	Tribology In Design			
ME751	Mechanism Design			
ME752	Mechanical Vibrations			
ME753	Computational Fluid Dynamics			
ME754	Advanced Optimization Techniques			
ME755	Composite Materials			
ME756	Work Engineering And Ergonomics			
ME757	Product Design And Development			
ME758	Fracture And Failure Analysis			
ME759	System Design And Analysis			
ME641	Design of Heat Exchangers			
ME642	Solar Energy systems			
ME643	Computational Methods for Heat Transfer and Fluid Flow			
ME644	Fuel and Combustion Technology			
ME645	I.C. Engines Combustion Process & Modeling			
ME646	Advanced Refrigeration and Air Conditioning			
ME647	Advanced Mechanics of Solids			
ME648	Advanced Engineering Materials			
ME649	Instrumentation and Measuring Systems			
ME741	Energy Efficient Buildings			
ME742	Gas turbines and Compressors			
ME743	Wind Energy Engineering			

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ME744	Energy Management, Audit and Conservation		
	Convective Heat and Mass Transfer		
	Power Plant Design		
	6		
	Finite Element Methods		
ME748	Optimal Design of Thermal Systems		
ME749	Advanced Optimization Techniques		

Note: Apart from above listed Elective courses, Research Scholar may choose any course across departments being offered at PG level, if it is required/suggested by the Research Committee.