## Department of Mechanical Engineering DIT University, Dehradun



For for Pre Ph.D. Course Work Session: 2015-16

## **Evaluation Scheme for Pre Ph.D. (ME)**

S.No.	Course Code	Course Name	Periods			Evaluation Scheme (%)							
							(	Continual Asses	End-Term	Total			
			L	Т	Р	Mid Term Tests	Class Tests/ Quizzes	Attendance	Assignments	Total CE	Examination (ETE)		Credits
1		Research Methodology	4	0	0	30	10	5	5	50	50	100	4
2		Elective-I	4	0	0	30	10	5	5	50	50	100	4
3		Elective-II	4	0	0	30	10	5	5	50	50	100	4
4		Elective-III	4	0	0	30	10	5	5	50	50	100	4
5	LCZ110	Seminar	0	0	2	-	-	-	-	100	-	100	1
		Total Credits											17

## **Evaluation Scheme for Pre Ph.D. (ME)**

**List of Elective Subjects (Thermal)** 

Sl.No.	Course Code	Name of Subject		
1	LBA610	Energy Efficient Buildings		
2	LBA620	Gas Turbines and Compressors		
3	LBA630	Design of Heat Exchangers		
4	LBB610	Solar Energy Systems		
5	LBB620	Computational Methods for Heat Transfer and Fluid Flow		
6	LBB630	Wind Energy Engineering		
7	LBB640	Fuel and Combustion Technology		
8	LBB650	I.C. Engines Combustion Process & Modeling		
9	LBB660	Energy Management, Audit and Conservation		
10	LBB670	Advanced Refrigeration and Air Conditioning		
11	LBB680	Conveective Heat and Mass Transfer		

**List of Electives (Design and Manufacturing)** 

Sl.No.	Course Code	Name of Subject			
1	LCZ610	Fracture and Failure Analysis			
2	LCZ620	Mechanism Design			
3	LCZ630	Advanced Mechanics of Solids			
4	LCZ640	Computer Control and Machining Tools			
5	LCZ650	Advanced Optimization Techniques			
6	LCZ660	Composite Materials			
7	LCZ670	Computer Aided Design and Graphics			
8	LCZ680	Material Processing Techniques			
9	LCZ690	Numerical Methods			
10	LCZ6A0	Experimental Design & Analysis			
11	LCZ6B0	Material Characterisation			
12	LCZ6C0	Advanced Manufacturing 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.