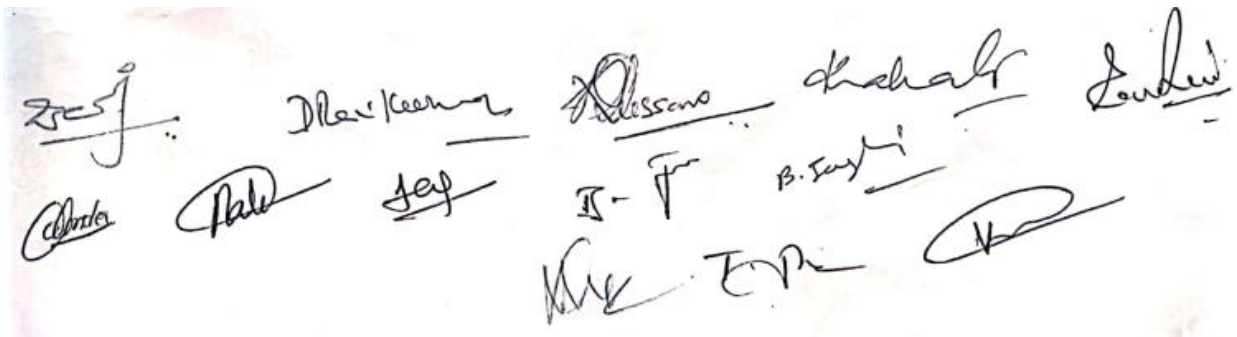
COURSESTRUCTURE

B.Tech. Mechanical Engineering

I Year I Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1	English–I	4	-	-	3	30	70	100
2	Mathematics-I	4	-	-	3	30	70	100
3	Mathematics–II	4	-	-	3	30	70	100
4	Engineering Physics	4	-	-	3	30	70	100
5	Computer Programming	4	-	-	3	30	70	100
6	Environmental Studies	4	-	-	3	30	70	100
7	English Communication Skills Lab. -1	-	3	-	2	50	50	100
8	Engineering Physics Lab.	-	3	-	2	50	50	100
9	Computer Programming Lab.	-	3	-	2	50	50	100
Total		**24**	**9**	**-**	**24**	**-**	**-**	**900**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL



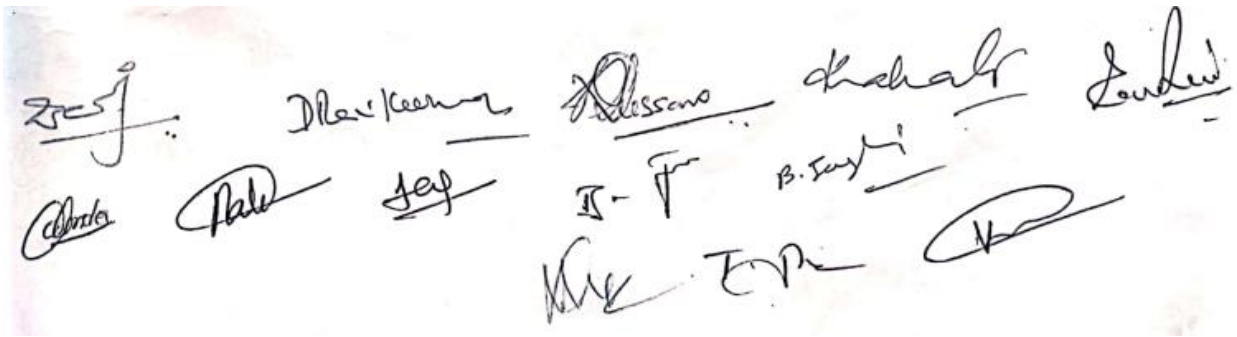
COURSESTRUCTURE

B.Tech. Mechanical Engineering

I Year II Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	English–II	4	-		3	30	70	100
2.	Mathematics–III	4	-		3	30	70	100
3.	Engineering Chemistry	4	-		3	30	70	100
4.	Engineering Mechanics	4	-		3	30	70	100
5.	Engineering Drawing	1	-	3	3	30	70	100
6.	Professional Ethics and Human Values	4	-		-	-	-	-
7.	English Communication Skills Lab.-2	-	3		2	50	50	100
8.	Engineering Chemistry Lab	-	3		2	50	50	100
9.	Engineering Workshop & IT Workshop	-	3		2	50	50	100
Total		**21**	**9**	**3**	**21**	-	-	**800**

T- THEORY P– PRACTICAL D-DRAWING C– CREDITS Int.–INTERNAL Ext.–EXTERNAL



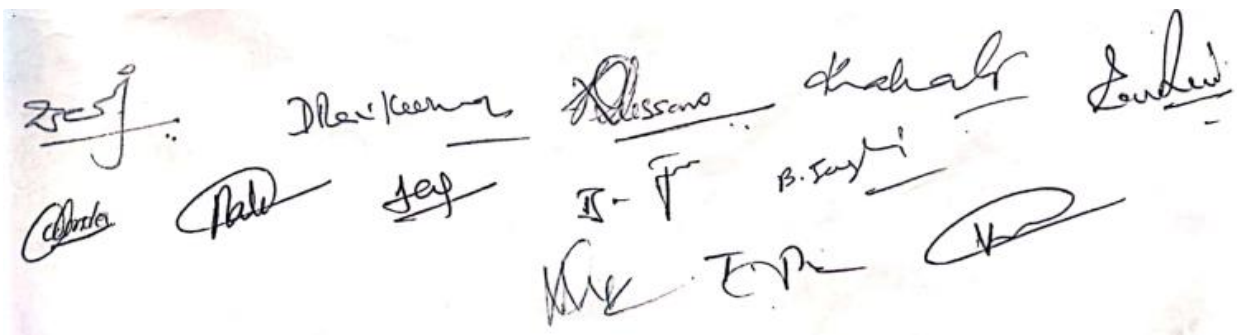
COURSESTRUCTURE

B.Tech. Mechanical Engineering

II Year I Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Metallurgy & Materials Science	4	-	-	3	30	70	100
2.	Mechanics of Solids	4	-	-	3	30	70	100
3.	Thermodynamics	4	-	-	3	30	70	100
4.	Managerial Economics & Financial Analysis	4	-	-	3	30	70	100
5.	Basic Electrical & Electronics Engineering	4	-	-	3	30	70	100
6.	Computer Aided Engineering Drawing Practice	1	-	3	3	30	70	100
7.	Basic Electrical & Electronics Engineering Lab	-	3	-	2	50	50	100
8.	Mechanics of Solids & Metallurgy lab	-	3	-	2	50	50	100
Total		**21**	**6**	**3**	**22**	-	-	**800**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL



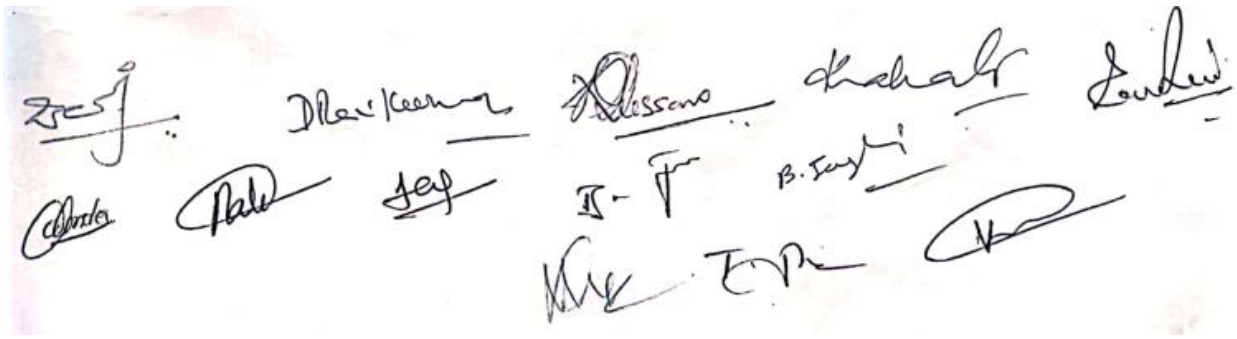
COURSESTRUCTURE

B.Tech. Mechanical Engineering

II Year II Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Kinematics of Machinery	4	-	-	3	30	70	100
2.	Thermal Engineering-I	4	-	-	3	30	70	100
3.	Production Technology	4	-	-	3	30	70	100
4.	Fluid Mechanics & Hydraulic Machinery	4	-	-	3	30	70	100
5.	Industrial Engineering & Management	4	-	-	3	30	70	100
6.	Machine Drawing	1	-	3	3	30	70	100
7.	Fluid Mechanics & Hydraulic Machinery Lab.	-	3	-	2	50	50	100
8.	Production Technology Lab.	-	3	-	2	50	50	100
9.	**SoftSkills-1**	4	-	-	-	-	-	-
Total		**25**	**6**	**3**	**22**	**-**	**-**	**800**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL



COURSESTRUCTURE

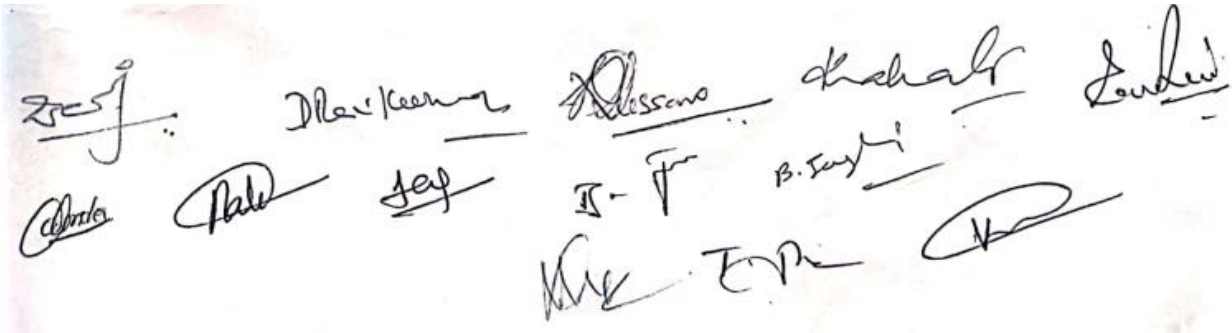
B.Tech. Mechanical Engineering

III Year I Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Dynamics of Machinery	4	-	-	3	30	70	100
2.	Operations Research	4	-	-	3	30	70	100
3.	Design of Machine Members–I	4	-	-	3	30	70	100
4.	Instrumentation & Control Systems	4	-	-	3	30	70	100
5.	Thermal Engineering-II	4	-	-	3	30	70	100
6.	Metal Cutting & Machine Tools	4	-	-	3	30	70	100
7.	Machine Tools Lab.	-	3	-	2	50	50	100
8.	Thermal Engineering Lab.	-	3	-	2	50	50	100
9.	**Mini Project***	-	-	-	2	100	-	100
Total		**24**	**6**	**-**	**24**	**-**	**-**	**900**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL

*Student should carry **Mini Project** during summer vacation after II B.Tech.II Sem. Course work and it will be evaluated during III B.Tech. I Sem.



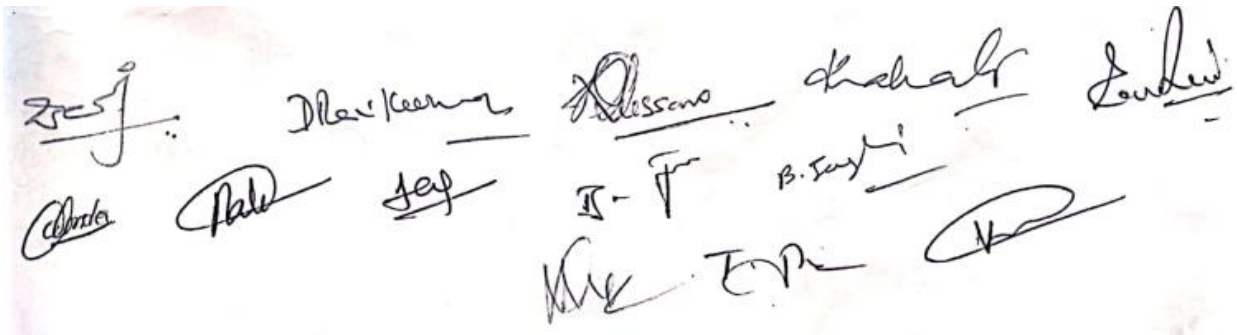
COURSESTRUCTURE

B.Tech. Mechanical Engineering

III Year II Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Metrology	4	-	-	3	30	70	100
2.	Interactive Computer Graphics	4	-	-	3	30	70	100
3.	Design of Machine Members–II	4	-	-	3	30	70	100
4.	Robotics	4	-	-	3	30	70	100
5.	Heat Transfer	4	-	-	3	30	70	100
6.	Departmental Elective–I	4	-	-	3	30	70	100
7.	Heat Transfer Lab.	-	3	-	2	50	50	100
8.	Metrology & Instrumentation Lab.	-	3	-	2	50	50	100
9.	**SoftSkills-2**	4	-	-	-	-	-	-
Total		**28**	**6**	**-**	**22**	**-**	**-**	**800**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL



COURSESTRUCTURE

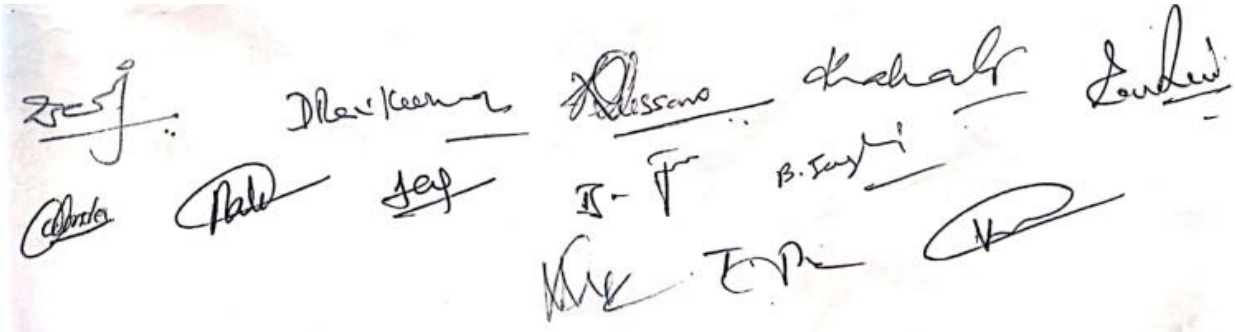
B.Tech. Mechanical Engineering

IV Year I Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Power Plant Engineering	4	-	-	3	30	70	100
2.	Finite Element Methods	4	-	-	3	30	70	100
3.	CAD/CAM	4	-	-	3	30	70	100
4.	Unconventional Machining Processes	4	-	-	3	30	70	100
5.	Open Elective	4	-	-	3	30	70	100
6.	Departmental Elective–II	4	-	-	3	30	70	100
7.	CAM and Simulation Lab.	-	3	-	2	50	50	100
8.	**Fabrication Project/ Term Paper #**	-	1	-	1	50	-	50
9.	**Summer Internship****	-	-	-	3	100	-	100
10.	**IPR& Patents**	4	-	-	-	-	-	-
Total		**28**	**4**	**-**	**24**	**-**	**-**	**850**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL

Student should carry **Summer Internship during summer vacation after III B.Tech.II Sem. and it will be evaluated during IV B.Tech. I Sem.



COURSESTRUCTURE

B.Tech. Mechanical Engineering

IV Year II Semester

S. No.	Subject Title	Periods per week			C	Scheme of Examination Maximum Marks		
		T	P	D		Int.	Ext.	Total
1.	Management Information Systems	4	-	-	3	30	70	100
2.	Green Energy & Systems	4	-	-	3	30	70	100
3.	Departmental Elective–III	4	-	-	3	30	70	100
4.	Departmental Elective–IV	4	-	-	3	30	70	100
5.	**Project Work**	-	-	-	9	60	140	200
Total		**16**	-	-	**21**	-	-	**600**

T- THEORY P– PRACTICAL D- DRAWING C – CREDITS Int.–INTERNAL Ext.- EXTERNAL