

UTTAR PRADESH TECHNICAL UNIVERSITY
STUDY AND EVALUATION SCHEME
B. Tech. MANUFACTURING TECHNOLOGY
(Effective from the session: 2005-06)

YEAR II, SEMESTER-III

S. No.	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total
			L	T	P	SESSIONAL EXAM.			ESE	
						CT	TA	Total		
THEORY										
1.	TAS-301	Mathematics-III	3	1	0	30	20	50	100	150
2.	TME-301	Materials Science*	3	1	0	30	20	50	100	150
3.	TMT-302	Thermal Engineering	3	1	0	30	20	50	100	150
4.	TME-303	Strength of Materials*	3	1	0	30	20	50	100	150
5.	TMT-303	Manufacturing Technology-I	3	1	0	30	20	50	100	150
PRACTICAL/TRAINING/PROJECT										
6.	TME-351	Material Science & Testing Lab*	0	0	3	10	10	20	30	50
7.	TMT-352	Thermal Engineering Lab	0	0	2	20	10	20	30	50
8.	TMT-353	Manufacturing Technology Lab-I	0	0	3	10	10	20	30	50
9.	TMT-354	Machine Drawing & Computer Aided Drafting Lab	0	0	2	10	10	20	30	50
10.	GP-301	General Proficiency	-	-	-	-	-	50	-	50
		Total	15	5	10	-	-	380	620	1000

YEAR II, SEMESTER-IV

S. No.	Course Code	SUBJECT	PERIODS			Evaluation Scheme				Subject Total
			L	T	P	SESSIONAL EXAM.			ESE	
						CT	TA	Total		
THEORY										
1.	TMT-401	Fluid Mechanics & Machinery	3	1	0	30	20	50	100	150
2.	TME-404	Measurements, Metrology & Control *	3	1	0	30	20	50	100	150
3.	TMT-403	Manufacturing Technology-II	3	1	0	30	20	50	100	150
4.	TEE-405	Electrical Machines*	3	1	0	30	20	50	100	150
5.	TMT-405	Theory of Machines	3	1	0	30	20	50	100	150
PRACTICAL/TRAINING/PROJECT										
6.	TMT-451	Fluid Mechanics & Machinery Lab	0	0	3	10	10	20	30	50
7.	TME-454	Measurements, Metrology & Control Lab *	0	0	2	10	10	20	30	50
8.	TMT-453	Manufacturing Technology Lab-II	0	0	3	10	10	20	30	50
9.	TEE-455	Electrical Machines Lab*	0	0	2	10	10	20	30	50
10.	GP-401	General Proficiency	-	-	-	-	-	50	-	50
		Total	15	5	10	-	-	380	620	1000

NOTE : Practical summer training-I of 4-weeks after IV-semester (evaluated in VII semester)

* Common to 2nd yr. Mechanical Engg./Industrial & Production Engg.

**Study & Evaluation Scheme for B.Tech. Manufacturing Technology
III Year**

V Semester

SI No	Course Code	Subject (Theory)	Periods			Evaluation Scheme				
			L	T	P	Sessional Exam			ESE	Subject Total
						CT	TA	Total		
1	TMT 501	Reliability & Maintenance Engineering	3	1		30	20	50	100	150
2	TMT 502	Material Management	3	1		30	20	50	100	150
3	TMT 503	Design of Machine Elements	3	1		30	20	50	100	150
4	TMT 504	Manufacturing Process III	3	1		30	20	50	100	150
5	TMT 505	Industrial Management	3	1		30	20	50	100	150
Practical/Drawing/Design										
6	TMT 551	Reliability & Maintenance Engineering Lab	0	0	3	10	10	20	30	50
7	TMT 553	Design of Machine Elements Lab	0	0	3	10	10	20	30	50
8	TMT 554	Manufacturing Process III Lab			3	10	10	20	30	50
9	TMT 556	Minor Project	0	0	3	0	0	50	0	50
10	GP501	General Proficiency					50	50	0	50
Total			15	5	12					1000

Study & Evaluation Scheme for B.Tech. Manufacturing Technology
III Year

VI Semester

SI No	Course Code	Subject (Theory)	Periods			Evaluation Scheme				
			L	T	P	Sessional Exam			ESE	Subject Total
						C T	TA	Total		
1	TMT 601	Time & Motion study	3	1		3 0	20	50	100	150
2	TMT 602	Total quality Management	3	1		3 0	20	50	100	150
3	TMT 603	Unconventional Manufacturing Process	3	1		3 0	20	50	100	150
4	TMT 604	Pneumatic & control	3	1		3 0	20	50	100	150
5	TMT 605	Production Planning & Control	3	1		3 0	20	50	100	150
Practical/Drawing/Design										
6	TMT 651	Time & Motion study Lab	0	0	3	1 0	10	20	30	50
7	TMT 654	Pneumatic & control lab	0	0	3	1 0	10	20	30	50
8	TMT 655	Computer Assisted Manufacturing system lab			3	1 0	10	20	30	50
9	TMT 656	Seminar	0	0	3	0	0	50	0	50
10	GP601	General Proficiency						50	0	50
Total			15	5	12					1000

**Study & Evaluation Scheme for B.Tech. Manufacturing Technology
IV Year**

VII Semester

Sl No	Course Code	Subject (Theory)	Periods			Evaluation Scheme				
			L	T	P	Sessional Exam			ESE	Subject Total
						CT	TA	Total		
1	TMT 701	CAD &CAM	3	1	0	30	20	50	100	150
2	TMT 702	Finite Elements Method	3	1	0	30	20	50	100	150
3	ME 703	Automobile Engg.	3	1	0	30	20	50	100	150
4		Open Elective	3	1	0	30	20	50	100	150
5		Elective – 1	3	1	0	30	20	50	100	150
Practical/Drawing/Design										
6	TMT 751	CAD/CAM Lab	0	0	3	30	20	50	-	50
7	ME 753	Automobile Engg Lab	0	0	3	10	10	20	30	50
8	TMT 754	Industrial Training / Practical Training & Evaluation	0	0	3			50		50
9	TMT 755	Project	0	0	3			50		50
10	GP 701	General Proficiency						50		50
Total			15	5	12					1000

Note-Practical Training 1/inhouse training /industrial tour/mini project done in summer after IV the semester and practical training 2 done in summer after VI semester, evaluation however to be made in VIIth semester through report and viva etc.

*Project should be initiated VII th semester beginning.

Elective-1		
S No	Code	Paper Name
1	TMT011	Operations Research
2	TMT012	Design Planning & Control of Production System
3	TMT013	Advanced Foundry Technology
4	TME021	Mechanical Vibration

**Study & Evaluation Scheme for B.Tech. Manufacturing Technology
IV Year**

VIII Semester

SI No	Course Code	Subject (Theory)	Periods			Evaluation Scheme				
						Sessional Exam			ESE	Subject Total
			L	T	P	CT	TA	Total		
1	TMT 801	Automation & Robotics	3	1		30	20	50	100	150
2	TMT 802	Tool Engineering	3	1		30	20	50	100	150
3	TMT 803	Advanced Welding Technology	3	0		15	10	25	75	100
4		Elective - 2	3	1		30	20	50	100	150
5		Elective - 3	3	1		30	20	50	100	150
Practical/Drawing/Design										
6	TMT 851	Computer Integrated Manufacturing Lab	0	0	2	10	10	20	30	50
7	TMT 856	Project	0	0	12		50	50	150	200
8	GP 801	General Proficiency						50		50
9		Total	15	4	14					1000

Elective- 2

S No	Code	Paper Name
1	TMT021	Project Management
2	TMT022	Supply Chain Mgmt
3	TMT023	Advanced Metrology & Measurement
4	TMT024	Refrigeration & Air Conditioning

Elective- 3

S No	Code	Paper Name
1	TMT031	Production of Gears & Screw Threads
2	TME024	Fundamentals of Bio Medical Engineering
3	TMT032	Simulation & Modeling