

LESSON PLAN

Subject Name-Principles of Machine Tools	Branch- Production Engineering
Subject Code- BPE 2703	Semester- 7th

S/N	Module	Topic(s)	Period/ Hours
1.	I	General classification of machine tools	1
2.	I	Mechanical transmission & its elements	2-3
3.	I	Kinematics of machine tools	4
4.	I	Speed ranges of machine tools, Graphical representation & structure diagram	5-6
5.	I	Step less regulation of speed & fed rates	7-9
6.	I	Tutorial	10
7.	II	Machine tool structure	11-13
8.	II	Basic design procedure	14
9.	II	Model technique in design of machine structure	15
10.	II	Tutorial	16-18
11.	III	Guide ways power screws	19
12.	III	Aerostatic guideways	20-23
13.	III	Design procedure of power screws	24
14.	III	Recirculation power screw assemblies	25-27
15.	III	Tutorial	28
16.	IV	Changing speed & feed	29-31

S/N	Module	Topic(s)	Period/ Hours
17.	IV	Control system in machines	32
18.	IV	Ergonomic considerations applied to design of control members	33-36
19.	IV	Principle of automatic & adaptive control	37-39
20.	IV	Tutorial	40