Lesson Plan

Name of the Institute: Department: Semester/Division/Branch: Subject Name with code: Total No. of Class (Required): Faculty Name:		C. V. Raman Polytechnic Mechanical Engineering 4 th Sem/ME Manufacturing Technology (Th-2) 60 Mr. Chandan Sourav Sahoo					
				Class No.	Brief description of	the Topic/Chapter to be taught	Remarks
				1 1	Composition of various tool m	naterials	
				2	Physical properties& uses of s		
				3		cools such as Chisel, hacksaw blade, dies	
				4	Turning tool geometry and pur	rpose of tool angle	
5	Turning tool geometry and pur	rpose of tool angle					
6		(Speed, feed and depth of cut)					
7	Coolants and lubricants in mac						
8		and working of lathe and CNC lathe					
9	Operations carried out in a lath						
10		ne (Internal machining, parting off)					
11		ne (taper turning, facing, knurling)					
12	Safety measures during machin						
13	Capstan lathe, Difference with	respect to engine lathe					
14	Major components and their fu						
15	Define multiple tool holders of						
16	Turret Lathe, Difference with r						
17	Major components and their fu						
18		eparation of a hexagonal bolt &bush					
19	Difference between Capstan an						
20	Shaper, Potential application ar	reas of a shaper machine while was	Wed With				
21	Major components of Shaper and	nd their function					
22	Explain the construction &world						
23	Explain the quick return mecha						
24	State the specification of a shap	ping machine.					
25	Planning Machine						
26	•	d its difference with respect to shaper					
27	Major components of Planner a						
28	The table drive mechanism						
29	Working of tool and tool support	ort					
30	Clamping of work through sket						
31	Milling Machine						
32	Types of milling machine and o	perations performed by them	L Cott - George				

33	Explain work holding attachment of Milling Machine	
34	CNC milling machine and its working principle	
35	Construction & working of simple dividing head	
36	Universal dividing head construction and working principle	
37	Specification of Milling and CNC Milling	
38	Procedure of simple and compound indexing	
39	Illustration of different indexing methods	
40	Slotter Machine	
41	Major components and their function	
42	Construction and working of slotter machine	
43	Tools used in slotter	
44	Grinding Machine	
45	Significance of grinding operations	
46	Manufacturing of grinding wheels	
47	Criteria for selecting of grinding wheels	
48	Specification of grinding wheels with example Working of	
49	Cylindrical Grinder, Surface Grinder, Centerless Grinder	
50	Internal Machining operations Classification of drilling machines	
51	Working of Bench drilling machine	
52	Pillar drilling machine	
53	Radial drilling machine	
54	Boring, Basic Principle of Boring	
55	Different between Boring and drilling	
56	Broaching, Types of Broaching (pull type, push type)	
57	Advantages of Broaching and applications	
58	Surface finish, lapping	
59	Definition of Surface finish	
60	Description of lapping& explain their specific cutting.	

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Signature of the Faculty

Signature of the H.O.D