

Govt. Polytechnic, Nawada

Lesson Plan

Lecturer Name :- Prem Prakash

No of Week- 17

Subject :- Advanced Manufacturing Processes

Subject Code :-1625501

Semester :- Vth

Branch :- Mechanical Engg.

Unit-01 :- Non traditional machining processes			
Sl. No.	Topic Coved	Duration required in hrs.	Platform
1.1	Electrical discharge Machining	6	Google Classroom/vcs/youtube
1.2	Wire cut EDM - Principle of working, Setup of WEDM,	4	Google Classroom/vcs/youtube
1.3	Laser Beam Machining.	5	Google Classroom/vcs/youtube
1.4	Other non traditional machines such as ECM	3	Google Classroom/vcs/youtube
Classl Test		2	GOOGLE FORM
Unit-02 :- CNC milling machines :			
Sl. No.	Topic Coved	Duration required in hrs.	Platform
2.1	Vertical and horizontal machining center Constructional features	8	Google Classroom/vcs/youtube
2.2	CNC programming	6	Google Classroom/vcs/youtube
Classl Test		2	GOOGLE FORM
Unit-03 :- Machine Tool Automation: Introduction and Need			
Sl. No.	Topic Coved	Duration required in hrs.	Platform
3.1	Single spindle automates, transfer lines.	5	Google Classroom/vcs/youtube
3.2	Elements of control system, Limit switches, Proximity switches	7	Google Classroom/vcs/youtube
Classl Test		2	GOOGLE FORM

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Unit-04 :- Special Purpose Machines (SPM)			
Sl. No.	Topic Coved	Duration required in hrs.	Platform
4.1	Concept, General elements of SPM	1	Google Classroom/vcs/youtube
4.2	Productivity improvement by SPM	1	Google Classroom/vcs/youtube
4.3	Principles of SPM design	1	Google Classroom/vcs/youtube
Classl Test		2	GOOGLE FORM
Unit-05 :- Maintenance of Machine Tools			
Sl. No.	Topic Coved	Duration required in hrs.	Platform
5.1	Types of maintenance, Repair cycle analysis, Repair complexity, Maintenance manual	3	Google Classroom/vcs/youtube
5.2	Maintenance records, Housekeeping. Introduction to Total Productive Maintenance (TPM).	3	Google Classroom/vcs/youtube
Classl Test		2	GOOGLE FORM