

Lesson Plan

Subject Name: Maintenance Engineering and Management	Subject Code: BPEPE505/ BPEOE501
Branch: Production Engineering	Semester: 5 th

Sl. No.	Module	Topics	Periods/Hrs
1.	I	Importance of maintenance, Objectives and Types of maintenance	1
2.	I	Maintenance systems, Planned and unplanned maintenance Breakdown maintenance	2-3
3.	I	Corrective maintenance, Opportunistic maintenance, Routine maintenance	4
4.	I	Preventive maintenance, Predictive maintenance	5-6
5.	I	Condition based maintenance systems	7-8
6.	II	Maintenance planning and scheduling	9
7.	II	Establishing a maintenance plan, Safety precautions	10-11
8.	II	Characteristics of items to be maintained, Classification of items	12-13
9.	II	Maintenance procedure	14
10.	II	Guidelines for matching procedures to items	15
11.	III	Maintenance organization	16-17
12.	III	Resource characteristics	18-19
13.	III	Resources structure	20-21
14.	III	Maintenance control, administrative structure	22-23
15.	III	Training of maintenance personnel	24-25
16.	IV	System operations and documentation	26
17.	IV	Documenting maintenance operations, Record keeping	27
18.	IV	Data collection and analysis, Failure statistics,	28
19.	IV	Planning and scheduling plant shutdowns, Depreciation and Machine Life, Replacement policies	29-30
20.	IV	Spares and types of spares, spares planning	31-32
21.	V	Network techniques in maintenance activities, Evaluation of maintenance performance	33-34
22.	V	Total productive maintenance – development and scope, Basic systems of TPM	35-36
23.	V	Procedures and steps	37
24.	V	Productivity circles as a part of TQM,	38
25.	V	Benefits of TPM, TPM as part of TQM	39-40