

K. D. K. COLLEGE OF ENGINEERING, NAGPUR
DEPARTMENT OF MECHANICAL ENGINEERING

Session 2021 - 2022

Format F1 - Teaching Plan

Department :- Mechanical Engineering

Subject :- AMT (ELE-III)

Sub. Code No. :- BEME803T1

Period /Week :- 04

Semester :- VIII Semester

Lecture No.	Teaching Code Unit	Contents
1.	101	Introduction to Non Traditional process
2.	102	Need and Classification of NTMM
3.	103	Historical development of NTMM Process
4.	104	Economics and Application of NTMM
5.	105	Economics and Application of NTMM
6.	106	High speed grinding
7.	107	Hot and Cold machining
8.	108	Revision of syllabus
9.	201	Introduction to Non Traditional machining processes
10.	202	Introduction to AJM
11.	203	Working principle of AJM , Mechanics of AJM
12.	204	Process parameter and machining parameter of AJM
13.	205	Ultrasonic Machining process, Working and principle
14.	206	Mechanics of USM, process parameter and control
15.	207	Effect of USM on materials
16.	208	Water Jet machining process, working and principle
17.	301	Introduction to Electro chemical machining
18.	302	working principle of ECM and construction
19.	303	Electro chemistry of ECM
20.	304	Electro chemical Grinding
21.	305	Electric Discharge machining
22.	306	Electron beam machining
23.	307	Laser beam machining
24.	308	Plasma arc machining
25.	401	Unconventional welding techniques and Introduction
26.	402	TIG and MIG Welding
27.	403	Electric resistance welding
28.	404	Oxyacetylene pressure welding
29.	405	Laser beam welding , Electron beam welding
30.	406	Plasma arc welding
31.	407	Atomic hydrogen welding
32.	408	Submerge arc welding and stud welding
33.	501	Solid phase welding and its Introduction
34.	502	Ultrasonic welding
35.	503	Friction welding
36.	504	Friction welding with recent development
37.	505	Friction welding with recent development
38.	506	Economics and application of non traditional welding process
39.	507	Economics of non traditional welding process
40.	508	application of non traditional welding process
41.	601	Introduction to advance casting process
42.	602	Metal mould casting
43.	603	continuous casting
44.	604	Squeeze casting
45.	605	vacuum mould casting
46.	606	Evaporative pattern casting
47.	607	ceramic shell casting
48.	608	Centrifugal casting and slush casting

Subject Teacher