

Lesson plan Advance ceramic(6th sem)

SL NO.	TOPIC	No of class required
1.	Introduction of advance ceramic	One period
2.	Introduction of advance ceramic	One period
3.	Important and application of advance Ceramic	One period
4.	Raw materials for advance ceramic	One period
5.	Difference between conventional ceramic and Advance ceramic	One period
6.	General preparation & Fabrication of advance ceramic.	One period
7.	Introduction of High Temperature Ceramic	One period
8.	Explain the properties and application of the Oxide Ceramics	Two period
9.	. Explain the properties and uses of carbide, boride, and nitride ceramic.	Six period
10.	. Advance ceramic materials & Components for high temperature use	One period
11.	Ceramic heating elements.	One period
12.	Define Dielectric ceramics, Properties & application.	One period
13.	Ferro Electric and pyroelectric ceramics, piezoelectric ceramic products , their properties & application.	Four period
14.	Low loss ceramic & their application.	One period
15.	High and low tension electrical porcelain their manufacturing and application	One period
16.	introduction to magnetic ceramic	One period
17.	Spinel ferrite .	One period
18.	.Hexagonal ferrite.	One period
19.	Preparation of ferrite	One period
20.	Difference between hard ferrite and soft ferrite	One period
21.	Application of ferrite.	One period
22.	Manufacturing of abrasive grain and its application	One period
23.	Ceramic grinding and cutting wheel.	One period
24.	Manufacturing and application	One period
25.	Introduction to engine ceramic	One period
26.	Ceramic for automobile.	One period

27.	Characteristics of engine ceramic products.	One period
28.	Spark plug and its manufacturing.	One period
29.	Define Bio Ceramics & explain types of bio ceramic	One period
30.	Special ceramic for Biological use & their characteristics.	One period
31.	Bio materials, bio- glass & bio-composites for medical application.	Three period
32.	Ceramic implants.	One period
33.	Ceramic for artificial teeth	One period

N.B:-Classes are taken with 44 periods. one period is for internal test and 15 periods for revision of syllabus