

## LESSONPLAN (6<sup>th</sup> Sem Ceramic)

### CERAMICS COATING AND COMPOSITES

Sl no	Topic	Reference	Assignment	Comment/ period
1.0	CERAMIC COMPOSITES			
1.1	Definition and classification of composites.	B K Sarkar	YES	1Period
1.2	Fibers and whiskers and their use as composites	B K Sarkar	YES	2Period
1.3	Ceramic matrix composites, properties and application.	B K Sarkar	YES	2Period
1.4	Alumina and mullite matrix composites and application	B K Sarkar	NO	2Period
1.5	Carbon – carbon composites	B K Sarkar	NO	2Period
2.0	GLASS CERAMIC:			2Period
2.1	Introduction and classification of composites.	B K Sarkar	YES	1Period
2.2	Glass ceramic matrix composites.	B K Sarkar	YES	2Period
2.3	Manufacturing of glass ceramic.	B K Sarkar	NO	2Period
2.4	Properties & application of glass ceramic composites	B K Sarkar	YES	2Period
3.0	FIBER REINFORCED GLASS:			
3.1	Introduction to glass fiber & fiber glass.	B K Sarkar	YES	1Period
3.2	Portland cement glass fiber composite	B K Sarkar	NO	2Period
3.3	Properties & uses of glass fiber composite	B K Sarkar	NO	1Period
3.4	Glass reinforced gypsum , application & properties	B K Sarkar	YES	1Period
3.5	Glass reinforced polymer properties & application.	B K Sarkar	NO	1Period
4.0	CERMET			
4.1	Introduction to cermets.	B K Sarkar	YES	2Period
4.2	Various cermets products.	B K Sarkar	YES	2Period
4.3	Manufacturing of cermets	B K Sarkar	NO	2Period
4.4	Properties & uses of cermets	B K Sarkar	YES	1Period
4.5	How cermets is different from glass, ceramic and metal?	B K Sarkar	YES	1Period
5.0	CERAMIC COATING			
5.1	Define ceramic coating	B K Sarkar	NO	2Period
5.2	vapor deposition process.	B K Sarkar	YES	1Period
5.3	Sol –Gel technology	B K Sarkar	YES	2Period
5.4	Plasma spray process	B K Sarkar	NO	1Period
5.5	Advance ceramic coating methods	B K Sarkar	YES	4Period
5.6	Ceramic coating on implants	B K Sarkar	YES	2Period

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6.0	VITREOUS COATING			
6.1	Introduction to Glassy coating	B K Sarkar	YES	2Period
6.2	Various types of glassy coating	B K Sarkar	YES	2Period
6.3	Application of vitreous enamel coating	B K Sarkar	YES	1Period
6.4	Properties and uses of various glassy coated products.	B K Sarkar	YES	2Period