

LESSONPLAN (4th Sem Ceramic)

PROCESS CONTROL IN CERAMIC INDUSTRY

Sl no	Topic	Reference	Assignment	Comment/ period
1.0	INTRODUCTION TO ELECTRONICS			
1.1	Define electronic emission	S.K .Singh	YES	1Period
1.2	Explain vacuum tube& vacuum diode .	S.K .Singh	YES	2Period
1.3	Define semiconductor ,Integrated circuit and simple circuit in use.	S.K .Singh	YES	2Period
1.4	Explain the use of microprocessor .	S.K .Singh	YES	2Period
1.5	Describe about different sensor and sensor made up of ceramic material.	S.K .Singh	NO	2Period
2.0	QUALITIES OF MEASUREMENT			
2.1	Describe measurement and it'saim.	S.K .Singh	YES	1Period
2.2	Classify various electrical measuring instrument.	S.K .Singh	YES	2Period
2.3	Measurement of displacement.	S.K .Singh	YES	2Period
2.4	linear variable differential procedure.	S.K .Singh	YES	2Period
2.5	Hydraulic forceand Measurement of force.	S.K .Singh	YES	2Period
2.6	Measurement of vacuum	S.K .Singh	YES	2Period
3.0	PRESSURE AND FLOW MEASUREMENT			
3.1	Define pressure	S.K .Singh	YES	1Period
3.2	Define type of pressure.	S.K .Singh	YES	1Period
3.3	Disuses different methods of pressers measurement .	S.K .Singh	YES	1Period
3.4	Differential flow measurement.	S.K .Singh	NO	1Period
3.5	Parts of a differential flow meter and its function.	S.K .Singh	YES	2Period
3.6	Discuses about magnetic flow meter.	S.K .Singh	YES	1Period
4.0	TEMPERATURE MEASUREMENT			
4.1	Define temperature scales.	S.K .Singh	NO	1Period
4.2	Discus expansion thermometer	S.K .Singh	YES	1Period
4.3	Electrical Temperaturemeasuring instruments Thermo couple, Therm esters.	S.K .Singh	NO	1Period
4.4	Discus about pyrometer like radiation pyrometer, optical pyrometer .	S.K .Singh	YES	2Period
4.5	Discuss about the use of temperature measurement in ceramic industry	S.K .Singh	YES	1Period
5.0	RECORDER			
5.1	Disuses different recorder.	S.K .Singh	YES	4Period
5.2	Describe about automatic controller .	S.K .Singh	YES	2Period
5.3	Define process control action measuring element and devotion controlling element.	S.K .Singh	YES	2Period
5.4	Discus about control action.	S.K .Singh	YES	2Period
5.5	Classify controller depending on the actuating medium &its uses in different	S.K .Singh	NO	2Period

	ceramic & glass industry.			
6.0	USE OF AUTOMATIC DEVICE			
6.1	Define CAD,CAM.	S.K .Singh	YES	2Period
6.2	Typical CAD system	S.K .Singh	YES	1Period
6.3	Application of C A M.	S.K .Singh	YES	2Period
6.4	Application of robotics in ceramic manufacturing.	S.K .Singh	NO	1Period
6.5	Robot control system.	S.K .Singh	YES	2Period