

**7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN CERAMIC ENGINEERING**

**FIRST SEMESTER**

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1.1*	Communication Skills -I	3	-	2	25	25	100	3	50	2	200
1.2*	Applied Mathematics-I	5	-	-	50	-	100	3	-	-	150
1.3*	Applied Physics – I	4	-	2	25	25	100	3	50	3	200
1.4*	Applied Chemistry – I	3	-	2	25	25	100	3	50	3	200
1.5*	Basics of Information Technology	-	-	4	-	50	-	-	100	3	150
1.6*	Engineering Drawing-I	-	-	6	-	50	100	3	25 (Viva)	2	175
1.7*	General Workshop Practice - I	-	-	6	-	50	-	-	+100	3	150
# Student Centred Activities		-	-	3	-	25	-	-	-	-	25
Total		15	-	25	125	250	500	-	375	-	1250

\* Common with other diploma programmes

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

## SECOND SEMESTER (CERAMIC ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
2.1*	Communication Skills –II	3	-	2	25	25	100	3	50	2	200
2.2*	Applied Mathematics-II	5	-	-	50	-	100	3	-	-	150
2.3*	Applied Physics – II	4	-	2	25	25	100	3	50	3	200
2.4*	Applied Chemistry – II	3	-	2	25	25	100	3	50	3	200
2.5	Introduction to Ceramic Technology	3	-	-	50	-	100	3	-	-	150
2.6	Geology	4	-	2	25	25	100	3	50	3	200
2.7*	General Workshop Practice-II	-	-	6	-	50	-	-	+100	3	150
# Student Centred Activities		-	-	4	-	25	-	-	-	-	25
Total		22	-	18	200	175	600	-	300	-	1275

\* Common with other diploma programmes

+ Includes 25 marks for Viva-voce

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

### THIRD SEMESTER (CERAMIC ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
3.1	Ceramic Raw Materials	4	-	-	50	-	100	3	-	-	150
3.2	Material Science	4	-	-	50	-	100	3	-	-	150
3.3	Unit Operations in Ceramics	5	-	4	25	25	100	3	50	3	200
3.4	Fuels and Furnaces	4	-	4	25	25	100	3	50	3	200
3.5	Ceramic Machineries	4	-	2	25	25	100	3	50	3	200
3.6	Computer Applications in Ceramic Industries	-	-	4	-	50	-	-	100	3	150
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>21</b>	<b>-</b>	<b>19</b>	<b>175</b>	<b>150</b>	<b>500</b>	<b>-</b>	<b>250</b>	<b>-</b>	<b>1075</b>

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

#### FOURTH SEMESTER (CERAMIC ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Theory	Practical	Written Paper		Practical					
		Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs				
Hrs/week		L	T	P							
4.1	Ceramic Coating Technology				4	-	-	50	-	100	3
4.2	Cement Technology	3	-	4	25	25	100	3	50	3	200
4.3	Ceramic Whiteware Technology- I	4	-	6	25	25	100	3	50	3	200
4.4	Ceramic Refractory Technology - I	3	-	4	25	25	100	3	50	3	200
4.5	Glass Technology – I	3	-	4	25	25	100	3	50	3	200
Student Centred Activities #		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>17</b>	<b>-</b>	<b>23</b>	<b>150</b>	<b>125</b>	<b>500</b>	<b>-</b>	<b>200</b>	<b>-</b>	<b>975</b>

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

**Industrial Training** - After examination of 4<sup>th</sup> Semester, the students shall go for training in a relevant industry/field organization for a minimum period of 6 weeks and shall prepare a diary. It shall be evaluated during 5<sup>th</sup> semester by his/her teacher for 50 marks. The students shall also prepare a report at the end of training and shall present it in a seminar, which will be evaluated for another 50 marks. This evaluation will be done by HOD and lecturer incharge – training in the presence of one representative from training organization.

### FIFTH SEMESTER (CERAMIC ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
	Industrial Training	-	-	-	-	50	-	-	50	3	100
5.1 *	Employability Skills - I	-	-	2	-	25	-	-	50	3	75
5.2 *	Environmental Education	3	-	-	25	-	100	3	-	-	125
5.3	Ceramic Whiteware Technology - II	3	-	6	25	25	100	3	50	3	200
5.4	Ceramic Refractory Technology - II	3	-	6	25	25	100	3	50	3	200
5.5	Glass Technology – II	3	-	6	25	25	100	3	50	3	200
5.6	Modern Ceramics	3	-	-	50	-	100	3	-	-	150
# Student Centred Activities including Personality Development Camp		-	-	5	-	25	-	-	-	-	25
<b>Total</b>		<b>15</b>	<b>-</b>	<b>25</b>	<b>150</b>	<b>175</b>	<b>500</b>	<b>-</b>	<b>250</b>	<b>-</b>	<b>1075</b>

\* Common with other diploma programmes

# Student Centred Activities will comprise of co-curricular activities like extension lectures, library studies, games, hobby clubs e.g. photography, painting, singing, seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, Civil Defence/Disaster Management activities etc.

### SIXTH SEMESTER (CERAMIC ENGINEERING)

Sr. No	Subject	STUDY SCHEME			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
		Hrs/week			Theory	Practical	Written Paper		Practical		
		L	T	P	Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
6.1	Project Oriented Professional Training	-	-	40	-	200	-	-	100	3	300
<b>Total</b>		-	-	40	-	200	-	-	100	3	300