

GUJARAT TECHNOLOGICAL UNIVERSITY
B.E. SEMESTER : VI
CHEMICAL TECHNOLOGY

Subject Name: Technology of Refractories

Subject Code: 163603

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	University Exam(E)	University Exam(P)	Mid Sem Exam(Theory) (M)	Practical (Internal)
4	0	3	7	70	0	30	50

Sr. No	Course contents
1.	Phase rule & importance of phase diagram in ceramics
2.	Raw materials for refractories.
3.	Manufacturing Process for different type of refractories such as silica refractory, High alumina & alumino refractory, Basic refractory, Insulating refractory, Monolithic refractory, Non oxide & carbon bearing refractories
4.	Testing of refractories for different properties

Reference Books:

1. Elements of ceramics ,Norton F.H, Longman higher education, 2nd Ed, 2001
2. Introduction to ceramics, Barsoum, Institute Of Physics Publishing (gb) 2002
3. Introduction to Ceramics ,Kingery W.D,. Wiley New York :, 2nd Ed, 1976.
4. Material Science ,Smith, Mcgraw Hill Higher Education, 4th Ed,2005
5. Industrial ceramics ,Singer & Singer, , Oxford & Ibh (From Technip), 1st Ed.,2008
6. Textbook of physical Geology ,Mukherjee, , CBS Publishers & Distributors-New Delhi 1st Ed.,2011
7. Textbook of Mineralogy, Tyrrel,W, , CBS Publishers & Distributors, 4th Ed.,2006
8. Textbook of Geology, J B Mahapatra, CBS Publishers & Distributors, 2nd Ed. ,2008