

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

Subject Name: Technology of Whitewares

Subject Code: 173604

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	30	30	20

Sr. No	Course contents
1.	Whiteware products in the Global & Indian Markets. Various raw materials used for Whitewares
2.	Manufacturing processes, transportation, storage, slip treatment, drying, type of water present, heat transfer by different techniques, high frequency heating
3.	Glazing operations, Fusibility of glazes, Opacifiers, firing techniques, Phase variations with temperature
4.	Analysis of microstructure. Testing of products as well as during process

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