

VEER NARMAD SOUTH GUJARAT UNIVERSITY

SCHEME OF TEACHING

Semester - VIII

B. E. IV (TEXTILE PROCESSING)

TP - 803, PRODUCTION MANAGEMENT & ENERGY CONSERVATION IN WET PROCESSING

Teaching Scheme (No. Of Contact hr.)			Theory Exam		Practical/Quiz/Viva Exam		Grand Total
			Duration (hr.)	Marks	Sem. End Exam	Cont. Int. Evaluation	
Theory	Tut.	Pract.					
4	-	-	3	100	-	-	100

Theory

1. Selection of site for process house. An over all plan for the building of the various departments like grey room, singeing room, bleach house, dye house, printing department, finishing laboratory, folding, stores, boilers, and power house etc.
2. Planning / Programming for every day production from Grey dept. to Folding dept. Dyes, chemicals and other raw materials requirement for the planned productions Periodical stock checking. Water, steam and power requirements for planned production. Quality of water, water treatments, Ion exchange, Effluent treatments, Recycling etc.
Methods of calculations for consumption of Water, Steam & Electricity.
3. Maintenance of machinery - Preventive and Breakdown. Importance of Preventive maintenance. Functions of maintenance.
4. Energy conservation in process house. Culture & Management, Energy cell, Energy Monitoring and Comparison with standards, Energy conservation approach, Motivation of energy conservation.
5. Energy conservation Areas - Electrical Energy conservation, Mechanical Energy conservation, Optimisation, and minimisation of consumption of dyes and chemicals, process modification. Adoption of non conventional energy sources, Fuel consumption and conservation. Heat economy and waste heat recovery.
6. Control and Assessment of Pollution. Pollution load of various chemicals, Air pollution, water pollution, noise pollution, Radiation pollution, Oil pollution etc. - Causes and Remedies.
7. Hazard in the process house. Fumes of chemicals, electrical Hazards, Pressure Vessels- Safety Precautions.

References :-

01.	Industrial Organisation	Teredesai P. L. - M/s. N. C. Shah of Acharya Book
02.	Energy Conservation In Textile Wet Processing	Gulrajani-Textile Association,1982
03.	Chemistry Of The Textile Industry	C..M. Carr-Blakie Academic & professionals,
04.	Occupational Health & Safety In Textile Mills	V. A. Shenai - Sevak pub., 1978

05.	Introduction To Management In Dyeing Industry	Park J. - S. D. C. Pub., 1984
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