MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

TEACHING AND EXAMINATION SCHEME

COURSE NAME : DIPLOMA IN SURFACE COATING TECHNOLOGY.

COURSE CODE : SC

DURATION OF COURSE : SIX SEMESTERS /THREE YEARS **WITH EFFECT FROM 2008-09**

SEMESTER : THIRD **DURATION: 20 WEEKS**

FULL TIME/PART TIME : FULL TIME **SCHEME - C**

Sr. No.	SUBJECT TITLE	SUBJECT CODE	TEACHING SCHEME			EXAMINATION SCHEME											
			TH	TU	PR	PAPER HRS.	TH		TEST	TOTAL		PR		OR		TW	
							Max	Min		Max	Min	Max	Min	Max	Min	Max	Min
01	Project and Seminar on In plant training	--	--	--	40	--	--	--	--	--	--	--	--	100#	40	100@	40
TOTAL			**--**	**--**	**40**	--	--	--	--	--	--	--	--	**100**	**--**	**100**	**--**

STUDENT CONTACT HOURS PER WEEK (FORMAL TEACHING) : **40 HOURS PER WEEK FOR 20 WEEKS**

@ - INTERNAL ASSESSMENT, # - EXTERNAL ASSESSMENT

TOTAL MARKS : **200**

ABBREVIATIONS : TH – THEORY, TU – TUTORIAL, PR – PRACTICALS, OR – ORAL, TW – TERM WORK.

All Practical , Oral & Term work assessment are to be done as per the prevailing norms for curriculum implementation & assessment.

Course Name : Diploma in Surface Coating Technology

Course Code : SC

Semester : Third

Subject Title : Project & Seminar on In plant Training

Subject Code : --

Teaching and Examination Scheme:

Teaching Scheme			**Examination Scheme**						
TH	TU	PR	PAPER HRS	TH	TEST	PR	OR	TW	TOTAL
--	--	40*	--	--	--	--	100#	100@	200

*** 40 Hrs. per week for 20 weeks.**

RATIONALE:

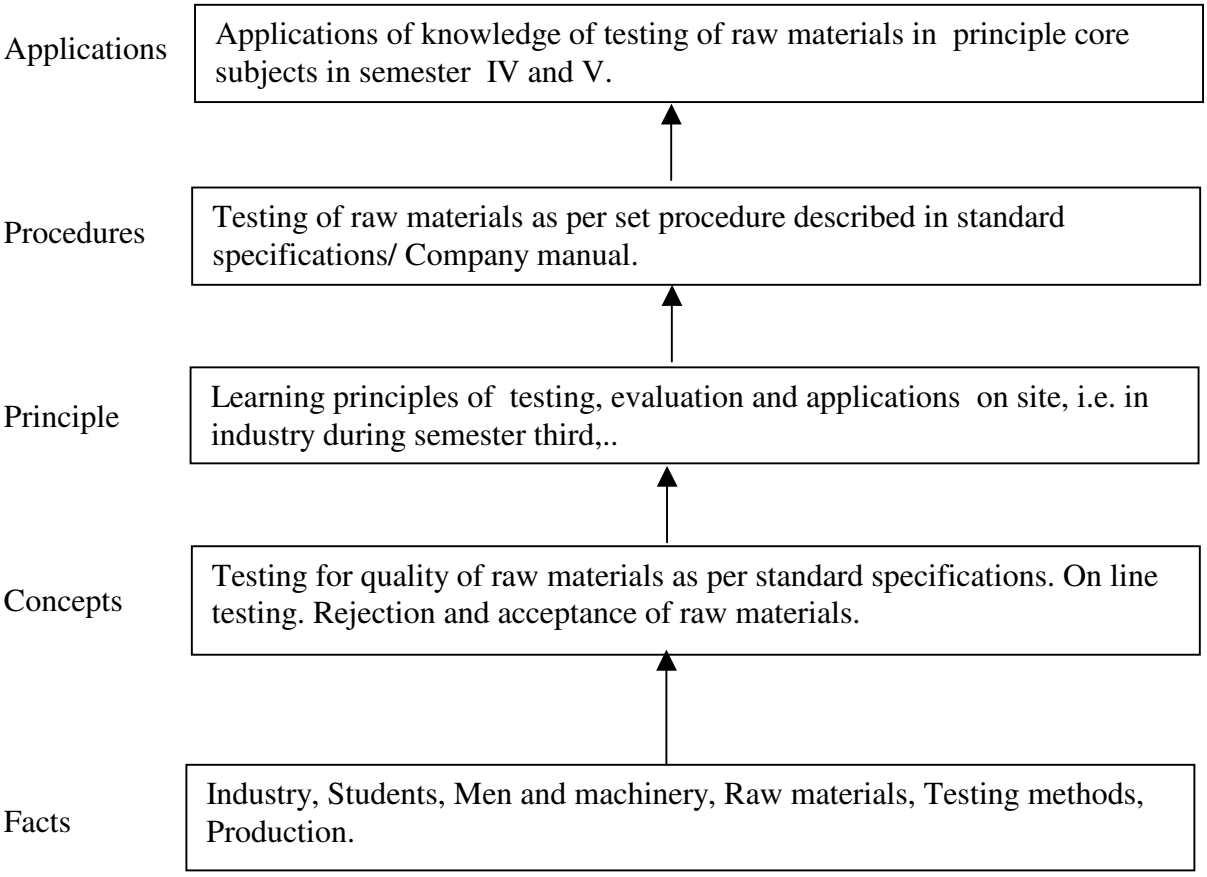
The third semester training of students is arranged in paint and allied industries, where the student learns about raw materials, their testing, properties etc. in a professional manner. The industrial training provides an opportunity to students to actually see and use sophisticated instruments. The training also provides an opportunity to get accustomed to industrial work atmosphere.

OBJECTIVES:

The students will be able to :

1. learn the importance of interpersonal relations and team work.
2. identify raw materials.
3. describe selection of raw materials for paints.
4. perform testing of raw materials.

Learning Structure :



General Guidelines:

1. The duration of training will be 20 weeks.
2. The inplant training is approved by Board of Apprenticeship Training, [BOAT].
3. The third semester training will usually be from June to October, every year.
4. The students will be placed in a factory related to surface coatings for training.
5. During training period, the student has to be regular and punctual in his duties.
6. He has to obey all rules of discipline prescribed by factory authorities.
7. Usually he will be given a chalked out programme by the factory authorities.
8. Usually factory will see that the student is exposed to various departments.
9. The student has to show keen interest in learning practical aspects of the principles he studied during his theory classes.
10. With the permission of factory authorities, a student is expected to keep the day to day record of the actual work done by him. Such information helps while preparing training report at the end of training.
11. The third semester students will carry out testing of raw materials used in paints and other surface coatings.

12. The student is expected to learn how to judge the quality of raw material.
13. The student is expected to test properties of pigments, resins, solvents, additives.
14. The student can get in touch with the Institute for any help, if required.
15. The Institute will be in regular touch with the industry as regards performance of students during training. Regular feed back will be obtained by the Institute from the industry.

Skills to be developed:

Intellectual skills :

1. Getting acquainted with factory routine.
2. Understanding and demonstrating technical skills in raw material testing.
3. Application of this knowledge in further stages of surface coatings.
4. Training report writing.

Psychomotor skills :

1. Learning procedures and methods of ongoing processes.
2. Setting-up and controlling ongoing processes.
3. To acquire experimental skills in gravimetric, volumetric and visual skills.
4. Handling and controlling sequential operations.

Project Report:

1. The students will be given about ten days time to submit inplant training report.
2. The report must be type written (computer copy), A-4 size bond paper and running in about 30 –40 pages.
3. The report must include the actual work done by the student during training, the raw materials tested, tests carried out by him, results obtained etc.
4. The report should contain only that information which is permitted by the factory authorities. A copy of the report must be submitted to the factory.
5. The report must be accompanied by a certificate from the factory authorities regarding satisfactory completion of the training by the student. (A Xerox copy of the certificate may be attached and the original copy must be produced at the time of examination.)
6. The report should also be accompanied by student's "Submission" and Institute's "Certificate".
7. With the permission of the factory, students may attach/ submit samples, specimens, photographs, panels etc. along with the training report in order to make the presentation more effective.
8. The student has to deliver seminar in the presence of students and examiners. He will be evaluated by External and Internal Examiners on the basis of seminar talk and the report submitted by him.

Format Of The Training Report

1. Contents.
2. Acknowledgement.
3. Introduction about factory – Nature of work.
4. Brief details about training programme undergone.
5. Products manufactured by the company.
6. Testing / Evaluation methods.
7. Actual work done by the students. This should be in detail. The report should be such that it should cover the actual work done by the student, details of testing carried out. The contents of the report should not have been directly taken from any book.
8. The report must also have necessary diagrams and photographs to make understanding clear and effective.
9. The student may give his own views or suggestions.
10. The student must have the complete knowledge about everything included in the report.
11. He must be confident while delivering seminar talk as well as perfect in answering questions.
12. The student will be evaluated by External and Internal Examiners on the basis of Project Report and seminar talk.