

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Fabrication Technology

Semester : 4

Subject Name: PRACTICES IN FABRICATION TECHNOLOGY- II

Sr. No.	Course Content (Description of Laboratory Experience)
1.	DEMONSTRATION & STUDY (REPORT/OBSERVATION WRITING) - Study of process equipments drawings - Welding safety equipment & clothing - Marking & measuring equipment & tools for D'end support - Various types of D'end forms of metals - Study of material test certificate (MTC) with typical example of plate material used in process equipment industry - Cutting of various commercial forms of metal by using various tool, equipments & machines - Air Arc Gauging
2.	JOB PREPARATION (WRITE SEQUENCE AND PERAMETERS OF OPERATION) - Job -1 Prepare a job of shell L / Seam - Job -2 Prepare a job of shell C/S set-up - Job -3 Preparation of one job which covers various operation of process equipment fabrication (e.g. Saddle, leg supports, nozzle, which include operation e.g. Straightening, Marking, Cutting, Edge Preparation, Forming, Joining)
3.	SEMINAR & PRESENTATION & GROUP DISCUSSION - Prepare a Seminar Using Power Point Presentation/Transparencies on The Topic Covered in Syllabus/Beyond The Syllabus - Give 10 minutes Presentation - Group Discussion
4.	PREPARATION OF MODELS,CHARTS,QUIZ COMPETITION & SLOGANS(GROUP/INDIVIDUAL)
5.	INDUSTRIAL VISIT Term Work content of Industrial Visit Report Should Also Include Following - Brief Detail of Industry Visited - Type, location, product, rough lay-out, Human resource etc. of industry - Details, Description, Broad Specification of machinery/Process Observed - Safety Norms and Precautions observed - Student on Observation on Industrial Environment, Culture and Attitude - Any Other Detail/Observation asked by accompanying faculty. - Industrial visit of Structural Fabrication Industry

6.	SHEET & SKETCH WORK 1. Prepare a sheet base on fabrication calculation (geometric problem) 2. Prepare a sheet for mensuration 3. Prepare a sheet for commercial form of metal 4. Prepare a sheet for one typical process equipment drawing
7.	REPORT WRITING 1. Storing and handling of material 2. Structural joining process 3. BIS – 800 4 Lining , leveling & plumbing 5. Different cutting methods used in structural fabrication
8.	BEYOND SYLLABUS ACTIVITIES (DEVELOP CREATIVE & INNOVATIVE IDEAS AMONG STUDENTS) Display article, information, sketch, under knowledge zone(K-Zone), inspiration zone(I- Zone) & Creative zone(C-zone)
9.	LITERATURE SURVEY 1. Library assignment 2. Internet surfing 3. Refer product pamphlets 4. Technical magazines
10	SHOP TALK 1 Ten minutes presentation on shop floor/Laboratory during the presentation of job/laboratory experience by the students
11	AUDIO VISUAL AIDS 1 Prepare audio cassette 2 Photograph lab manual 3 Technical video download
12	PAPER SOLUTIONS 1. Write Paper Solution of Last Five Examination Papers
13	SCHOOL WITHIN SHOOOL 1. Guiding / Sharing / Mentoring the know-how by meritorious students to lower performing students
14	SELF LEARNING 1. Contact with field expert, seniors, alumni and get further know- how individually or in a group. 2. Read related book / magazine / article / literature and share the content
15	LIVE LEARNING 1. Prepare student for live learning. 2. Study activities through powerful observation. 3. Make them aware and to form a habit to Learn at any place, any time & from any person.

NOTES:

1. Term work report content of each experience should also include following.
 - a) Experience description/ data and objective.
 - b) A skill which is/are expected to be developed in student after completion of experience.
 - c) Drawing of experience / set up with labels / nomenclature to carry out the experience.
 - d) The specification of machine / equipment / devices / tools / instruments/items / elements which is / are used to carry out and to check experience.
 - e) Process parameters / set up settings values applied to carry out experience
 - f) Steps / process description to execute the experience.
 - g) Observation
 - h) Information on resented machine / equipment / devices / tools/ instrument/ item available. In market to carry out the experience.
 - i) Special / additional notes or remarks.
2. Term work report of student of regular more should exclude distance learning manual, photocopy, printed content, etc. focus should be on developing the term work as original efforts of student.
3. Term work also include experience logbook duly certified by subject teacher.