GUJARAT TECHNOLOGICAL UNIVERSITY (GTU)

Competency-focused Outcome-based Green Curriculum-2021 (COGC-2021)
Semester - VI

Course Title: Industrial Training & Project -I
(Course Code: 4365501)

Diploma programme in which this course is offered	Semester in which offered
Fabrication Technology	sixth

1. RATIONALE

The diploma engineers are required to work in fabrication industry where manufacturing activities of components and parts, sub-assemblies, group assemblies & final assemblies of different fabricated / welded process equipment, structure, industrial & petrochemical piping system, off shore structure and shipbuilding / ship recycling work are carried out. Various activities involved are Designing, Material Planning, Production Planning, Estimation & Costing, Conventional and Automated Production, welding according to related Codes and Standards, Inspection, Testing, Quality Assurance, Maintenance and Human Resource Management.

Industrial training and project-1 is a full semester on job internship course, which is essential part of the diploma in fabrication technology curriculum. It offers the opportunity to gain hands on work experience in fabrication industry. This course help student to gain real world exposure and apply their theoretical knowledge to solve the practical problems in industry.

Industrial training and project -1 provides a platform to work along with professional in industry and learn from their expertise. This experience will help the student to understand practical challenges in the industry and to develop their solutions.

There is always a gap between the theoretical curriculum and latest technology available in the industry. This subject will work like a bridge between them. It helps the students to develop skill on the manufacturing facilities of latest technology available in the industry beyond the syllabus.

Today, the problem is not only to get the job after completion of diploma program but to sustain in the job. This course develops the soft skills like, communication skills, team work, problem solving ability and adaptation of industrial environment.

Students will get a training certificate from a reputed fabrication industry which will increase his/her employability.

2. COMPETENCY

This course of Industrial Training & Project Phase-1 is designed and implemented with the aim to develop different types of skills leading to achievement of following competences:

1. To develop technical skills with professionalism, industrial culture adaptation, individual and team work capabilities with obeying safety rules.
2. To use applicable codes and standards in fabrication industry.
3. To become employable Fabrication engineer.

3. COURSE OUTCOMES (COs)

The training should be given in such a manner that students are able to acquire required learning outcomes in cognitive, psychomotor and affective domain to demonstrate following course outcome:

1. To develop capability to work as an engineer in Fabrication industry.
2. To acquire knowledge about fabrication of various process equipment / structure / piping / ship construction.
3. Prepare solutions for real life problems in fabrication industries.
4. Prepare industry defined project as per available resources in industry.
5. Develop a skill for good record keeping, reporting and presentation.

4. TEACHING AND EXAMINATION SCHEME

Teaching Scheme (In Hours)			Total Credits (L+T+P/2)	Examination Scheme				
				Theoretical marks		Practical Marks		Total Marks
L	T	P	C	CA	ESE	CA	ESE	
0	0	26*	13	00	00	500	300	800

**students have to take the training for approx. 22 weeks per semester, this teaching load is only for allocated institute guide faculty however the actual working hours for students is as per industry rules and regulation where he/she is placed.*

***Legends: L**-Lecture; **T**– Tutorial/Teacher Guided Theory Practice; **P** -Practical; **C** – Credit, **CA** - Continuous Assessment; **ESE** -End Semester Examination.*

*Indicate the load of teaching faculty per week per batch against following activities.

1. For placing the students in training.
2. For arrangement and execution of counselling and preparatory week work (20 Hrs.).
3. For checking day wise weekly report of every student and evaluating it on weekly basis.
4. Continuous supervision and monitoring of each student throughout the entire industrial training period.
5. Assigned faculty will conduct one online/offline meeting per month to ensure the progress of students.
6. Faculty will perform continuous evaluation during monthly meet with the students.

7. Head of department, departmental TPO or Faculty may take follow up visit to the industry as and when required.
8. Students have to visit the institute for their mid semester submission, presentation and evaluation for one week. Assigned institute guide faculty have to evaluate the term work and guide the students for further work.

   Faculty has to evaluate

   1. Day wise weekly reports up to MST week after suggested correction has been done
   2. Minor report
   3. Five case study report
   4. Technical MCQ report
   5. Presentation of minor report and five case study
   6. MCQ exam test
   7. Any other assignment given by guide faculty
9. Faculty has to take post presentation viva for evaluation of different reports of the student as per rubrics.
10. During MST week faculty has to engage the allotted students and provide him/her guidance and counselling (20 Hrs).
11. Head of the department / Departmental TPO / Faculty has to communicate the industry personnel for evaluating the students' progress and solve the problem (If any).
12. Faculty will guide the students along with industrial expert for preparation of industry defined project (IDP).
13. Faculty has to evaluate day wise weekly reports, attendance report, industry feedback report and IDP with presentation in end semester submission as per rubrics.
14. Guide faculty may design different assignments as per particular organization after consultation with head of the department.

A batch of 15 students may further divided into small groups of students according to allocated industry by Head of the department. The teaching load per batch can further divided by Head of the department and allocate to different faculties available in the department.

● **Continuous Assessment**

Internal Faculty should evaluate students as per the rubrics given in appendix A

● **End Semester Examination**

Head of the department will assign duty of internal examiner to any of the available faculties in the department. Internal examiner has to evaluate the students by taking viva examination as per GTU guideline.

5. SUGGESTED WORKLOAD

Load of guiding and monitoring industrial training per week per batch: For placing the students in training. For checking day wise weekly report for individual students and evaluating on weekly basis. For continuous monitoring of each assigned student throughout the training duration. Conduct online/offline monthly meet with allotted students for evaluating their activity and progress. Also conduct the presentation/speak out during MID semester evaluation and END semester evaluation at the institute. Faculty may take follow up visit to the industry as and when required. Institute has to prepare the time table for the faculty in such manner that concern faculty will perform his guidance and evaluation activity without affecting other teaching work.

6. GUIDELINES FOR INDUSTRIAL TRAINING OF DIPLOMA FABRICATION TECHNOLOGY

- Eligibility: Those students who does not fall under GTU detention norms will be entitled for the training.
- This on job sandwich training is a part of diploma fabrication technology course structure so student has to take training at his/her own risk and cost.
- Training placement may be all over India, preferably within or nearby Gujarat. Placement for training shall be arranged by student in consultation with head of department and departmental training and placement officer. Department/Faculty will help students in this process. Company should be related to fabrication work.
- In case of department providing training placement seat, student has no right to select the industry.
- Training certificate issued by the industry is mandatory for final submission & viva.
- Stipend may or may not be provided by the industry. Department is not responsible for less or no stipend paid.
- It is the responsibility of students to pay exam fee and all other fees in time as per GTU/ college schedule.
- Students has to take his insurance as per the company rules and regulation. The copy of insurance policy will be submitted to concern industry and the department.
- Student has to remain present at institute for MID semester and End semester submission/examination at his/her own cost.

- Due to unavoidable circumstances for changing the training location, student has to produce satisfactory evidences in front of head of department, departmental TPO and guide faculty. If student leave the training in-between then he/she has to submit the all belongings of the company to the HR and take clearance from the company, in such cases training certificate should be brought by student only. If student leave the training in-between the semester, then student has to arrange new training within one week of leaving previous company and inform the department.
- Student should follow the rules of leaves as per the company policy.
- In case of training placement provided by the department, student may place for one semester or combine 1 year (two semester) as per the requirement of concern industry.
- Department will not interfere in any of organizational policy of the industry providing training.

6.1 Role of Department

- For students who want to take training in fabrication industry of his/her choice has to inform the department six week prior to the starting of training. Institute will provide only one request letter as per application of students and his/her parents.
- Department have to send training request letter to various industries well in advance before commencement of training (for students who want to take training on departmental placement seat).
- Department will arrange counselling and placement preparation session for the students who will be going for the training internship (approx. one week or 20 hours).
- After getting sufficient number of seats from the industries students will be placed in different industries for their one / two semester training.
- Institute will issue training placement letter to concern industry.
- Department will provide institute faculty guide to each and every student.
- Faculty has to evaluate day wise weekly reports online submitted to the department.
- Faculty will arrange monthly meet (online/offline)
- Faculty will issue Mid Semester and End semester submission/evaluation time table /schedule – 20 hours per week.
- Faculty has to perform evaluation as per rubrics given in appendix A.
- Head of department/ departmental T.P.O./ Faculty may take follow up visit to the industry as and when required.

- Faculty has to arrange presentation session during mid semester and end semester evaluation process.
- Faculty has to maintain all necessary records and attendance register for mid semester and end semester evaluation process.
- Head of department/ departmental TPO/ faculty has to communicate with concern industrial experts/ HR regarding progress discipline and punctuality of the student.

6.2 Role of Industry

- Industry will give effective training to the students in all sections/departments for improving their practical skills (suggested).
- The industry is expected to assign a group of students under training to a different department and assign training in-charge to them.
- Training in-charge has to check weekly report and have to sign the reports on weekly basis and also have to give inputs to the students for their industrial defined project.
- Industry may allot project (IDP) to individual or group of students under training and students has to prepare report on the same project.
- Training in-charge is requested to guide students for preparing their minor reports, case studies and industrial defined project report etc.
- Industry is expected to maintain attendance for the student under training and inform any irregularity of the students to their parent college.
- The industry has to provide a training certificate after successful completion of training period.
- It is expected that industry should allow the students to prepare metallic project model and submit it to parent institute as per their convenience.

6.3 Role of student

- Student must take the training in allocated industry by the department.
- If student want to take training on his own, then he/she has to ensure that the training must be taken in the fabrication related industry. He/she has to inform the department prior to 6 week of the commencement of the training.
- Students have to provide all the necessary self-attested documents / forms asked by the department.
- Student would carry with him/her the Identity card issued by institute during training period.

- He/she will have to get all the necessary information from the HR/training officer of allocated industry regarding schedule of the training, rules and regulations of the industry. Student must follow these rules, regulations, procedures etc. of concern industry obediently.
- During the training period students has to prepare day wise weekly reports and send soft copy to the department on weekly basis. Do the corrections suggested by guide faculty and produce hard copy in mid and end semester submission.
- He/she has to prepare a detailed report minor report, case study report and MCQ after consultation with industry guide and institute guide faculty.
- Student must maintain the discipline during the entire training and has to take permission before going on leaves. One has to grant his/her leave by HR and also by training in charge.
- Students must get clearance before leaving the training.
- Student has to get sign of industry & institute guide in day wise weekly reports, minor reports, case study reports, IDP, etc.
- Student/Group of student has to prepare a model after getting permission from the HR and training in charge.
- Students should not copy any data from the company and also should not bring any confidential data outside of the company.
- Student must maintain the full attendance in the company, any absenteeism without permission may lead to termination of the training and may lead to cancellation of the term.
- Student must collect his/her training certificate and submit one photo copy to the department.
- Student is taking training at his/her own risk and cost.
- Institute/ concern industry not liable for any accident or any miss happen. Workmanship act is not applicable to trainee student.
- Student has to attend counseling & preparatory session (20 hrs.)

A. MID SEMESTER SUBMISSION:

1. Attend MST submission, presentation and counseling and guidance session for one week. (20 hours)
2. Day wise weekly reports up to MST week duly signed by industrial guide or shop in charge.

3. All assignments given by the faculty of fabrication technology department
4. Minor report in spiral binding with index and certificate duly signed by industrial & institute guide.
5. 5 case study report in spiral binding with index and certificate duly signed by industrial guide & institute guide.
6. Topic Name of Industry Defined Project (IDP) suggested by Industrial guide / work done in IDP till date of Mid submission.
7. PPT of the minor report and case study
8. 25 MCQ on a topic given by guide or training coordinator.
9. PPT presentation
10. MCQ test
11. Any other work given by faculty

B. END SEMESTER SUBMISSION:

1. Training completion Certificate issued by the Industrial authority (mandatory).
2. Feedback – the assessment of student during training signed by concerned industry authority.
3. Daily attendance sheet.
4. All Day wise weekly reports duly signed by industrial guide or shop in-charge and institute guide.
5. All assignment given by the institute guide faculty.
6. IDP (Industry Defined Project) report (1 copy for department & 1 copy for each student signed by industrial and institute guide).
7. PPT of minor report, case study report and IDP, soft copy of minor report, case study report, MCQ report and IDP in a CD.
8. Metallic project model. (if any).

7. AFFECTIVE DOMAIN OUTCOMES

The following ***sample*** Affective Domain Outcomes (ADOs) are embedded in many of the above-mentioned COs. More could be added to fulfil the development of this course competency.

a) Follow the safe work practice.

b) Work as a leader/a team member.

c) Follow ethical practices.

d) Practice environmentally friendly methods and processes. (Environment related) The ADOs are best developed through the field based exercises/project work. Moreover, the level of achievement of the ADOs according to Krathwohl's 'Affective Domain Taxonomy' should gradually increase as planned below:

i.'Valuing Level' in 1st year

ii.'Organization Level' in 2nd year.

iii.'Characterization Level' in 3rd and 4th year.

8. SUGGESTED STUDENT ACTIVITIES

Other than the industrial training, following are the suggested student-related ***co-curricular*** activities which can be undertaken to accelerate the attainment of the various outcomes in this course: Students should conduct following activities in group and prepare reports of each activity. They should also collect/record physical evidences for their (student's) portfolio which will be useful for their placement interviews:

(a) Develop supervisory skills by working in an industrial environment.
(b) Prepare all the reports and assignments given by faculty.
(c) Decide IDP project title with consultation of industrial guide and team members.
(d) Prepare IDP report and project model under the guidance of industrial guide and allocated institute guide.
(e) Improve communication skills.
(f) Acquire knowledge of codes and standards used in fabrication industry and note down in day wise weekly report.
(g) Improve skills for working on professional softwares available in industry.

9. SUGGESTED SPECIAL INSTRUCTIONAL STRATEGIES (if any)

These are sample strategies, which the teacher can use to accelerate the attainment of the various outcomes in this course:

a) Follow all the instructions, rules and regulations of organization where student is placed for training.
b) Attend online/offline meeting with allocated institutional guide.
c) Strictly follow all the safety rules in industry.
d) Do not use mobile phone or any electronic gadgets in industry without permission.

10. SUGGESTED LEARNING RESOURCES

Sr. No.	Title of Book	Author	Publication with place, year and ISBN
1	Welding Technology	Dr. O.P. Khanna	Dhanpatrai Publication

2	ASME section II, V, VIII div 1, IX	ASME Committee	American Society of Mechanical Engineers
3	Welding Processes and Technology	Dr. R.S. Parmar	Khanna Publishers Isbn:81-7409-126-2
4	Welding Engineering and Technology	Dr. R.S. Parmar	Khanna Publishers Isbn:81-7409-028-2
5	Production Technology Vol-1 & 2	O. P. Khanna	Dhanpat Rai Publication
6	Material Science & Technology	Dr. O.P. Khanna	Dhanpatrai Publications
7	Structural Steel Fabrication and Erection	S.K. Saxena R.B. Asthana	Somaiya. Latest Edition Isbn: 81-7039-207-1
8	Process equipment design	V V Mahajani and S B Umarji	Macmillan Publishers India Ltd.
9	Non Destructive Testing Techniques	Ravi Prakash	New Age Science Publication
10	Automation, Production systems, and Computer Integrated Manufacturing	Mikell P. Groover	Phi Learning Pvt. Ltd.
11	CAD/CAM/CIM	P. Radhakrishanan S. Subramaniyam V. Raju	New Age Publications
12	Industrial Management and Organisational Behaviour	K.K. Ahuja	Khanna Pub. Pvt. Ltd.
13	Workshop Technology vol-1 & 2	Hajra & Chaudhri	Media Publishers & Promoters,India. Isbn: 9788185099156, 9788185099156
14	Production Technology	R.K.Jain	Khanna Publishers
15	Welding Technology for Engineers	Baldev raj	Narosha Publishing House
16	Practical Guide to Pressure Vessel Manufacturing	Sunil Kumar Pullarcot	Marcel Dekker, Inc.

11. SOFTWARE/LEARNING WEBSITES

a. https://swayam.gov.in

b. https://nptel.ac.in

c. https://www.twi-global.com/

d. https://www.trainingndt.com/

12. PO-COMPETENCY-CO MAPPING

Semester VI	**Industrial Training (4365501)**						
	POs						
Competency & Course Outcomes	PO 1 Basic & Discipline specific knowledge	PO 2 Problem Analysis	PO 3 Design/ development of solutions	PO 4 Engineering Tools, Experimenta tion &Testing	PO 5 Engineering practices for society, sustainability & environment	PO 6 Project Management	PO 7 Life-long learning
Competency	1. To develop technical skills with professionalism, industrial culture adaptation, individual and team work capabilities with obeying safety rules. 2. To use applicable codes and standards in fabrication industry. 3. To become employable Fabrication engineer.						
1.To develop capability to work as an engineer in industry.	2	2	1	2	1	2	3
2. To acquire knowledge about fabrication of various process equipment / structure / piping / ship construction.	3	1	1	2	2	2	2
3. Prepare solutions for real life problems in fabrication industries.	2	3	2	2	1	1	3
4. Prepare industry defined project as per available resources in industry.	2	2	2	2	1	3	3

5. Develop a skill for good record keeping, reporting and presentation.	-	-	-	1	-	1	3

13. COURSE CURRICULUM DEVELOPMENT COMMITTEE

GTU Resource Persons

Sr. No.	Name and Designation	Institute	Contact No.	Email
1.	Mr. Samir Y.Merchant I/C. H.O.D. Fabrication Technology Department	Sir Bhavsinhji Polytechnic Institute Bhavnagar	9428408314	symerchant72@gmail.com
2.	Mr. Ashoksinh M. Gohil Lecturer Fabrication Technology Department	Sir Bhavsinhji Polytechnic Institute Bhavnagar	9924682010	amgohilges@gmail.com
3.	Mr. Nilesh M. Bhangale Lecturer Fabrication Technology Department & TPO BPTI	Sir Bhavsinhji Polytechnic Institute Bhavnagar	9016926792	nileshbhangalefabtechbpi@gmail.com
4.	Mr. Rohankumar B. Zapadiya Lecturer Fabrication Technology Department & B.O.S. member GTU Chandkheda	Sir Bhavsinhji Polytechnic Institute Bhavnagar	9033219351	rohan.zapadiya@gmail.com

બાહેધરી પત્રક

Passport size color current photo

નામ :

એનરોલ્મેન્ટ નં:

તારીખ:

પ્રતિ

ખાતાના વડાશ્રી,

ફેબ્રિકેશન ટેકનોલોજી વિભાગ,

સરભાવસિંહજી પોલીટેકનીક ઈન્સ્ટીટયુટ,

ભાવનગર.

વિષય- ઔદ્યોગિક તાલીમમાં જવા બાબતની વિદ્યાર્થી તથા વાલીની બાહેંધરી.

આથી

હું _____

_____ એનરોલમેન્ટ નં_____બાહેંધરી આપું છુ કે જે કંપનીમા મારી પસંદગી થશે તે કંપનીમાં હું કંપનીના નિયમાનુસાર ટ્રેનીંગ લઈશ. ત્યા હું મારી ફરજ અને જવાબદારી નિયમિતપણે, પૂરી નિષ્ઠાથી અને પ્રમાણિકતા પૂર્વક બજાવીશ તેની ખાતરી આપું છું. ઔધોગિક એકમ અકસ્માત સંભવિત વિસ્તાર છે તે હું અને મારા વાલી જાણીએ છીએ અને જે ઔદ્યોગિક એકમમાં તાલીમ મળવાપાત્ર થાય તેના શિસ્ત તથા સલામતી અંગેના તમામ નિયમોનું ચુસ્ત પણે પાલન કરીશ. સદર તાલીમ અભ્યાસક્રમના ભાગરૂપે લેવાની થતી હોય, હું સપૂર્ણપણે મારા જોખમે અને સ્વખર્ચે લેવાની ખાતરી આપું છું. ઔદ્યોગિક એકમના નિયમ મુજબની મળવાપાત્ર રજાઓ એચ.આર.મેનેજર તથા ઔદ્યોગિક તાલીમના ખાતાના ઈન્ચાર્જ ની પૂર્વ મંજુરી લઈનેજ ભોગવીશ. પૂર્વ/લેખિત મંજુરી સિવાયની રજાઓ તથા ગેરશિસ્તને કારણે અથવા ડીપાર્ટમેન્ટ દ્વારા સોપાયેલ સત્રકાર્ય (ટમવર્ક) સમયસર જમા ન કરાવવાના કારણે મારી તાલીમ રદ થાય અને સત્ર /વર્ષ બગડે તે માટે હું નીચે સહી કરનાર જ જવાબદાર રહીશ તે હું જાણું છું અને આવું નહિ થાય તે બાબતની લેખિત ખાતરી આપું છું. આ ટ્રેનિંગ માટે

કંમ્પનીની જરૂરિયાત મુજબની ઈન્સ્યોરન્સ પોલિસી હું સ્વખર્ચે લઈશ અને તે પોલિસી કમ્પનીમાં હાજર થતા ત્યાં એચ.આર.(Personnel) ડીપાર્ટમેન્ટમાં અચૂક જમા કરાવીશ. ટ્રેનીંગ પુર્ણ થતા હું કંમ્પનીમાથી મારું તાલીમ સર્ટીફીકેટ લઈને તેની એક નકલ ડીપાર્ટમેન્ટમાં જમા કરાવીશ. જો કોઈ ગેરશિસ્તના કારણોસર કમ્પની ટ્રેનીંગ સર્ટીફીકેટ ન આપે અથવા કોઈપણ કારણો સર સ્ટાઈપંડ મોડા અથવા ન મળે તો તે માટે સંસ્થા જવાબદાર રહેશે નહી તે બાબત મને મંજુર છે. ગેરશિસ્તના કારણે કે અન્ય કોઈપણ કારણોસર મારી ટ્રેનિંગ કંપની દ્વારા રદ્ કરવામાં આવે તો અન્ય કોઈ ફેબ્રિકેશન ઔધોગિક એકમમાં હું એક સપ્તાહમાં સંસ્થાની પરવાનગી લઈને ટ્રેનિંગમાં જોડાઈશ તથા બન્ને ઔધોગિક એકમના લીધેલ તાલીમ સમયગાળાના પ્રમાણપત્રોની નકલ સંસ્થા ખાતે જમા કરાવીશ. હું ડીપાર્ટમેન્ટ દ્વારા આયોજિત તાલીમ પૂર્વ તૈયારી, કાઉન્સીલિંગ અને મંથલી મિટિંગમાં સુચના અનુસાર હાજર રહીશ. હું ઔધોગીક તાલીમ દરમિયાન મીડ સેમેસ્ટર સબમીશન તથા એન્ડ સેમેસ્ટર સબમિશનમાં કરવાનું થતું સત્ર કાર્ય ગાઈડ ફેકલ્ટીની સૂચના મુજબ પૂર્ણ કરીને સ્વખર્ચે હાજર રહીશ તથા GTU અને કોલેજની બધી જ ભરવાપાત્ર ફી સમયસર ભરીશ. આથી હું પ્રમાણિત કરું છું કે આ તાલીમ લેવા માટે હું સપૂર્ણપણે શારીરિક અને માનસિક રીતે સક્ષમ છું .

મારી સંપર્ક વિગતો નીચે મુજબ છે.

હાલનું સરનામું :	કાયમી સરનામું :
વાલીનો મોબાઈલ નંબર :	વિદ્યાર્થીનો મોબાઈલ નંબર :
વાલીનું ઈમેલ આઈ ડી :	વિદ્યાર્થીનું ઈમેલ આઈ ડી :
વાલીનું નાંમ અને સહી:	વિદ્યાર્થીની સહી:

DEPARTMENT OF FABRICATIONTECHNOLOGY

SIR BHAVSINHJI POLYTECHNICINSTITUTE BHAVNAGAR

"TERMS AND CONDITION FOR ON JOB TRAINING"

1) During the period of training, the trainee will be governed by the rules and regulation in force from time to time as prescribed by the concerned industrial organization.
2) The concerned industrial organization and Sir Bhavsinhji Polytechnic Institute, Bhavnagar shall not be liable for any accident if occurs during the training period and the provisions of the workmen's compensation Act shall not be applicable for any injury.
3) The trainee will have to strictly obey the safety rules of the organization. The training will be at the full risk of the trainee himself.
4) The trainee shall not divulge or disclose any information, data or technical know – how pertaining to the Design, Process and Product of the Industrial organization etc. This will lead to termination of training.
5) The training shall automatically come to an end on the expiry of the referred training period or detention of students by GTU.
6) Once trainee placed in any company and due to any reason he/she change the company after prior permission of the Head of the department and departmental TPO.
7) The trainee should report to H. R. Manager or Training in charge of allocated company for his/her placements in various department of the industrial organization.
8) Personal or general insurance should be taken by trainee himself as per industrial requirements.
9) While preparing IDP students has to follow the rules and regulations of industry.
10) If student detained by GTU he/she has to inform to HR department and TPO cell

immediately.

11) This training will be given for one semester or two semesters as per industrial requirement.
12) During training period student has to remain present at institute for mid semester submission, final submission and viva at his/her own expenses. Absenteeism in examination (mid submission, end submission, viva) will lead to Fail/ disciplinary action.

I have gone through the above stated terms and conditions for training.

I unconditionally accept the offer and undertake to abide by above.

Place:

Date:

Signature of student:
Mobile Number of student:
Name and address of student:

Sample of IDP first Page

GUJARAT TECHNOLOGICAL UNIVERSITY

SIR BHAVSINHJI POLYTECHNIC INSTITUTE

BHAVNAGAR

DEPARTMENT OF FABRICATION TECHNOLOGY

COMPANY NAME

INDUSTRIAL TRAININGPHASE – I / II

“Industry defined project title”

Prepared By: -

1. Student Name
Enrolment Number

2.Student Name
Enrolment Number

Industry Guide: -

1 First Student Guide Name
Designation:

2 Second Student Guide Name
Designation:

Institute Guide: -
Guide Name:
Designation:

GUJARAT TECHNOLOGICAL UNIVERSITY

649: SIR BHAVSINHJI POLYTECHNIC INSTITUTE, BHAVNAGAR

55: DEPARTMENT OF FABRICATION TECHNOLOGY

CERTIFICATE

This is to certify that this Industry Defined Project Report for Semester VI Entitled "**name of topic of IDP report"** has been prepared by Mr./Miss. **name of student** Enrollment No. **enrollment number** under my supervision and guidance.

Place:

Date:

INDUSTRY GUIDE
Name of guide
Designation
Company Name
city
state

INSTITUTE GUIDE
Name of institute Guide
Designation
Department of Fabrication Technology
Sir Bhavsinhji Polytechnic
Institute
Bhavnagar
(Gujarat)

SELF DECLARATION

I/we students of Diploma in Fabrication Technology, Sir Bhavsinhji Polytechnic institute, Bhavnagar hereby declare that the entire work submitted in this IDP project entitled "**Industrial defined project Title**" have been carried out by me/us and no part of it has been submitted for any diploma, graduation or post-graduation program of any other institute previously. I/we also declare that we have not used any copyright material in this IDP report. I/We are solonimous responsible for information provided in this IDP report.

Date: -

1) Sign.

Name of student _____
Enrollment number _____

2) Sign.
Name of student_____
Enrollment number _____

INDEX

INDEX OF FIGURE

INDEX OF TABLE

Report Format guidelines

1. **Topic name in bold and underline (all word should be in time new roman and letter size should 14)**
2. Description should (be in time new roman and letter size should 12)
3. Space between lines: single
4. Text style: Justify
5. Figures style: center with figure number and title as per following example

Figure 1. title of figure
Reference

6. Table style:

Table 1.A Description of table should
Reference

	Table details		

ABBREVIATION

SR. NO	ABBREVIATION	DESCRIPTION
1		
2		

REFERENCE

SR. NO	TITLE OF REFERENCE	AUTHOR/ PUBLICATION/ EDITION /SOURCE
1		
2		

GUJARAT TECHNOLOGICAL UNIVERSITY

649: SIR BHAVSINHJI POLYTECHNIC INSTITUTE, BHAVNAGAR

55: DEPARTMENT OF FABRICATION TECHNOLOGY

CERTIFICATE

This is to certify that this **Five case study** Semester VI/VII Entitled

1. Name Of First Topic
2. Name Of Second Topic
3. Name Of Third Topic
4. Name Of Forth Topic
5. Name Of Fifth Topic

has been prepared by Mr.**name of student**Enroll. No. **enrollment number** under my supervision and guidance.

Place:

Date:

INDUSTRY GUIDE	INSTITUTE GUIDE
Name of guide **Designation** **Company name**	**Name of GUide** **Designation** **Department of Fabrication Tech.** **Sir Bhavsinhji Polytechnic Institute Bhavnagar (Gujarat)**

GUJARAT TECHNOLOGICAL UNIVERSITY

649: SIR BHAVSINHJI POLYTECHNIC INSTITUTE, BHAVNAGAR

55: DEPARTMENT OF FABRICATION TECHNOLOGY

CERTIFICATE

This is to certify that this Minor Report Semester VI/VII Entitled **name of topic of minor report** has been prepared by Mr.**name of first student** Enroll. No. **enrollment number** under my supervision and guidance.

Place:

Date:

INDUSTRY GUIDE

Guide Name
Designation
Company
City
State

INSTITUTE GUIDE

Guide Name
Designation
Department of Fabrication Technology
Sir Bhavsinhji Polytechnic Institute
Bhavnagar
(Gujarat)

SIR BHAVSINHJI POLYTECHNIC INSTITUTE BHAVNAGAR
FABRICATION TECHNOLOGY DEPARTMENT
DAILY PRESENCE REPORT
Subject: 4365501 – Industrial Training & Project Phase - 1

Name of Student: _____

Name of Industry: _____

Enrollment Number: _____ Semester: 6th

Date	**Date wise Signature of Student** **(write H on holiday, weekly off, Leave if permission has taken , other than AB)**						
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							

Write month and year

Write month and year

18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Present days	____Days	____Days	____Days	____Days	____Days	____Days	____Days
Absent days	____Days	____Days	____Days	____Days	____Days	____Days	____Days
Total Working Days							
% of attendance per month							
Total working days:_____			Total Present Days:_____			Total % of attendance of semester:_____	
Sign. Of Training In charge/HR with stamp							

- % of attendance per month = $\frac{Tpdm}{Tdm}$ where Tpdm= total present days for particular month
  Tdm = total days for that month (excluding holidays and weekly off)
- Total % of attendance of semester= same as above but include all months' data for semester; Students must take permission from HR and concern authority for leave.
- Student must prepare the above attendance sheet with duly sign by concern authority and with a proper stamp.

SEMESTER FEEDBACK (AT THE END OF SEMESTER)

The assessment of student during training by concerned industrial authority

Name of student:

Enrollment number of student:

Semester: 6th

(Please✓ tick mark as applicable)

Sr.No.	Description	Excellent	Good	Average	Poor	Remarks
1	Punctuality					
2	Discipline					
3	Job knowledge					
4	Self-motivation/Initiative Self learning					
5	Team working					
6	Communication skill Verbal					
7	Communication skill Written					
8	Creative/Creative problem solving					
9	Responsibility taking capacity					
10	Accomplishment of given task					
	Any other specific remark for student's improvement.					
Total						

Date of feedback:

Signature of Manager-HR/Admin/Concern person

Seal/Stamp of the company

Name & Place of organization

Signature of Training In charge

Name and designation of Training In charge

Contact details of training In charge

Assessment (FOR COLLEGE USE ONLY)

Point Multiplier	4 x___=	3 x___=	2 x___=	1 x___=
	4 x No. of excellent Point	3 x No. of Good Point	2 x No. of Average Point	1 x No. of Poor Point
Total points				
Assessment Total no. of points gained =				
SIGN OF INSTITUTE GUIDE				

Format of Day wise weekly report

GUJARAT TECHNOLOGICAL UNIVERSITY, AHMEDABAD
SIR BHAVSINHJI POLYTECHNIC INSTITUTE BHAVNAGAR
DEPARTMENT OF FABRICATION TECHNOLOGY

principal email id: prin.gp.bpt.bvn@gmail.com HDFC email ID : fabhodbpti@gamil.com

student's day wise weekly diary of on job training

Dt.____/_____/20____ to ____/_____/20____
Enrollment number: _____
Name of student: _____
Name of Organization:_____Name of
Department:_____
Competency profile:

1) technical competency

Drawing Interpretation, Measuring, Marking & Cutting Methods, Machine or Equipment with its Specification, Welding / Fabrication Process, Power Sources, Jig Fixture used , Code And Standards of Welding and Fabrication, Use of Code and Standards for Ship Building/ Constructions, Process Parameter Selection, WPS , PQR, WPQ, Costing and Estimation, Productivity Improvement Technique, Work Measurement , AutoCAD, Fabrication Tolerance, Welding Defects Causes and Remedies, DT/NDT Method, Fabrication Sequence, Fabrication Calculation, Fit Up and Setup, Safety, Planning , Design, Third Party Inspection, Documentation and Record, Corrosion, Paint Coating & Insulation, Piping Engineering

2) Inter personal behavioral competency

Effective Communication, Dealing with people, Positive Mental Attitude, Honesty & Sincerity, commitment, Dedication, Punctuality and Regularity, Dressing, Values, Cost effectiveness, Self-motivation, Team Spirit, Emotional Intelligence, Caring Behavior

Date wise daily weekly report.

Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____

Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____
Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____

Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____
Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____

Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____

Date _____ Day:_____ Time of Joining : _____ Time of Leaving:_____

Brief details of student's own self-analysis das- give one-line answer of each questions.

- can you project your strength through this work or content? Yes/No
- can you get job by preparing this weekly report? Yes/No
- do you feel this work will improve your self-confidence? Yes/No
- state modification or extra effort you have put in existing information available in shop?

  _____

  _____

- state the referred and remember the code clauses?

_____

_____

Sign. Of student

Grading of training (please tick) and suggestions from industrial guide: good/ fair/ below average /poor

date: ___/___/____ signature of officer in charge
of department/ section
industry

grading of trainee maybe given depending up on the judgement about his punctuality, regularity, Sincerity, Interest taken, work done, etc.

Date sign of Institute guide

Appendix A
(Suggested rubric for continuous assessment)

649 - SIR BHAVSINHJI POLYTECHNIC INSTITUTE, BHAVNAGAR								
55 - FABRICATION TECHNOLOGY DEPARTMENT								
SEM: 6 RUBRICS FOR INDUSTRIAL TRAINING & PROJECT PHASE-1								
TOTAL MARKS : 500								
Sr.No.	**CRITERIA**	**SUB CRITERIA**	**CO**	**%**	**EXCELLENT (4)**	**GOOD (3)**	**AVERAGE(2)**	**POOR (1)**
1	**ATTENDANCE IN PREPARATORY & COUNSELLING SESSSION**	**-**	**CO1**	**1%**	Students presence is =>95%	Students presence is <95% to =>90 %	Students presence is <90% to =>85 %	Students presence is <85%.
		-		**MARKS**	5	4	3	2
2	**INDUSTRIAL DISCIPLINE**	**-**	**CO1**	**10%**	No complaint received from industry/industrial guide	Only 1 minor complaint received from industry/industrial guide	2 complaint received from industry/industrial guide	More than 2 complaint received from industry/industrial guide
		-		**MARKS**	50	40	30	20
3	**FEEDBACK FROM INDUSTRY**	**-**	**CO1**	**8%**	Overall excellent feedback given by industry	Overall very good or good feedback given by industry	Overall average feedback given by industry	Overall poor feedback is given by industry.
		-		**MARKS**	**1 POINT = 1 MARK AS PER INDUSTRIAL FEEDBACK FORM(Maximum 40 marks)**			
4	**ATTENDANCE DURING TRAINING**	**-**	**CO1**	**15%**	Students presence is =>95%	Students presence is <95% to =>90 %	Students presence is <90% to =>85 %	Students presence is <85%.
		-		**MARKS**	75	60	45	30

5	**ATTENDANCE IN MST WEEK WORK SCHEDULE &MONTHLY MEET**	**-**	**CO1**	**1%**	Students presence is =>95%	Students presence is <95% to =>90 %	Students presence is <90% to =>85 %	Students presence is <85%.
		-		**MARKS**	5	4	3	2
6	**WEEKLY REPORT DURING MID**	**-**	**CO1 CO5**	**5%**	Excellent quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Excellent information of codes & standards.	Good quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Good information of codes & standards.	Average quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Average information of codes & standards.	Poor quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, No information of codes & standards.
		-		**MARKS**	25	20	15	10
7	**WEEKLY REPORT AT THE END (MID TO END)**	**-**	**CO1 CO5**	**5%**	Excellent quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Excellent information of codes & standards.	Good quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Good information of codes & standards.	Average quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, Average information of codes & standards.	Poor quality of technical concepts, sketches, numerical, solutions, design, selection criteria, application in industries, No information of codes & standards.
				MARKS	25	20	15	10

8	**MINOR REPORT**	**FRONT PAGE INDEX & CERTIFICATE**	**CO2 CO5**	**1%**	Report is as per given format	Report with 2 to 3 mistakes as per given format.	Report with 3 to 4 mistakes as per given format.	Report with more than 5 mistakes as per given format.
				MARKS	5	4	3	2
9	**MINOR REPORT**	**TECHNICAL CONTENT**	**CO2 CO5**	**2%**	All the required technical content(topics) are covered in report(e.g. history, introduction, concepts, mechanisms, advantages, disadvantages, applications, codes & standards usefulness in fabrication industry)	Most of the required technical content(topics) are covered in report.	2 to 3 required technical contents (topics) are missing in the report.	More than 3 required technical contents (topics) are missing in the report.
				MARKS	10	8	6	4
10	**MINOR REPORT**	**REFERENCES**	**CO2 CO5**	**1%**	all references written in last reference chapter and also for figures tables and para wherever required, Reference are written in proper format	1-2 mistakes in writing Reference	3-4 mistakes in writing Reference	More than 4 mistakes in writing references.
				MARKS	5	4	3	2

11	**MINOR REPORT**	**KNOWLEDGE**	**CO2 CO5**	**4%**	Student is having excellent knowledge of report.	Student is having good knowledge of report.	Student is having average knowledge of report.	Student is having poor knowledge of report.
				MARKS	20	16	12	8
12	**MINOR REPORT PRESENTATION**	**QUALITY OF SLIDE**	**CO5**	**1%**	Student present information in logical creative and interesting sequence which audience can understand	Present information in an interesting sequence which audience can understand	Audience has difficulty in understanding presentation.	Audience not able to understand the presentation but able to catch the little bit topic
				MARKS	5	4	3	2
13	**MINOR REPORT PRESENTATION**	**CLARITY & UNDERSTAING OF TOPIC**	**CO5**	**1%**	Great voice tone and correct pronunciation, Speak confidently, good body language, Student is able to explain without reading any slide during entire presentation.	Great voice tone and correct pronunciation, speak confidently, Student is able to explain but student read slide during the entire presentation.	Good voice tone but little mispronunciation, Speak less confidently , Student read slide during the entire presentation with partial explanation	Inadequate voice tone and frequent mispronunciation, Lack of confidence, Student read the slides during the entire presentation
				MARKS	5	4	3	2
14	**MINOR REPORT PRESENTATION**	**COMMUNICATION SKILL**	**CO5**	**1%**	Able to explain in English fluently.	Able to explain in English with little Hindi.	Explain in Hindi with little Gujarati without English.	Explain in Gujarati only without English or Hindi.
				MARKS	5	4	3	2
15	**MINOR REPORT PRESENTATION**	**CONCLUSION**	**CO5**	**1%**	The presentation was summed up clearly and effectively with key points	The presentation was summed up clearly.	An attempt was made to conclude the presentation	No attempt was made to conclude the presentation.

					emphasized.			
				MARKS	5	4	3	2
16	**CASE STUDY**	**IDENTIFICATION OF THE MAIN ISSUES AND /OR PROBLEMS**	**CO2 CO3**	**1%**	Discusses all important aspects of the background of the case, demonstrates all unique features of the case, identifies all problems in the case	Discusses most important aspects of the background of the case, demonstrates most unique features of the case, identifies most problems in the case 4	Discusses some important aspects of the background of the case, demonstrates some unique features of the case, identifies some problems in the case 3	The presenter(s) does not discuss the aspects, problems of the case and do not demonstrate unique feature of the case.
				MARKS	5	4	3	2
17	**CASE STUDY**	**ANALYSIS/ SOLUTION OPTIONS**	**CO3**	**2%**	Discusses an in-depth and critical assessment of the facts of the case in relation to available research, weighs and assesses a variety of alternative actions that address multiple issues in the case, all of which are realistic options	Discusses a mostly thorough assessment of the facts of the case in relation to available research, weighs and assesses a variety of alternative actions that address multiple issues in the case, most of which	Discusses a somewhat thorough assessment of the facts of the case in relation to available research, weighs and assesses a limited variety of alternative actions that address multiple issues in the case, some of which	The presenter(s) do not discuss a critical assessment of the case and do not present viable options.
				MARKS	10	8	6	4

18	**CASE STUDY**	**CONCLUSIONS/ OUTCOMES OF CASE 5**	**CO2 CO3**	**2%**	Provides a detailed description of the outcomes of the case, provides detailed and appropriate conclusions for the case	Provides a clear description of the outcomes of the case, provides appropriate conclusions for the case	Provides an adequate description of the outcomes of the case, provides adequate and mostly appropriate conclusions for the case	The presenter(s) does not provide a description of the outcomes and conclusions of the case.
				MARKS	10	8	6	4
19	**CASE STUDY PRESENTATION**	**QUALITY OF SLIDE**	**CO5**	**1%**	Student present information in logical creative and interesting sequence which audience can understand	Present information in an interesting sequence which odious can understand	Audience has difficulty in understanding presentation.	Audience not able to understand the presentation but able to catch the little bit topic
				MARKS	5	4	3	2
20	**CASE STUDY PRESENTATION**	**CLARITY & UNDERSTAING OF TOPIC**	**CO5**	**1%**	Great voice tone and correct pronunciation, Speak confidently, good body language, Student is able to explain without reading any slide during entire presentation.	Great voice tone and correct pronunciation, speak confidently, Student is able to explain but student read slide during the entire presentation.	Good voice tone but little mispronunciation, Speak less confidently, Student read slide during the entire presentation with partial explanation	Inadequate voice tone and frequent mispronunciation, Lack of confidence, Student read the slides during the entire presentation
				MARKS	5	4	3	2
21	**CASE STUDY PRESENTATION**	**COMMUNICATION SKILL**	**CO5**	**1%**	Able to explain in English fluently.	Able to explain in English with little Hindi.	Explain in Hindi with little Gujarati without English.	Explain in Gujarati only without English or Hindi.

				MARKS	5	4	3	2
22	**CASE STUDY PRESENTATION**	**CONCLUSION**	**CO5**	**1%**	The presentation was summed up clearly and effectively with key points emphasized.	The presentation was summed up clearly.	An attempt was made to conclude the presentation	No attempt was made to conclude the presentation.
				MARKS	5	4	3	2
23	**MCQ ASSIGNMENT**	**-**	**CO2 CO5**	**2.5%**	All required MCQ's are prepared with higher level of understanding & having excellent knowledge about prepared MCQ'S.	All required MCQ's are prepared with moderate level of understanding & having good knowledge about prepared MCQ'S.	All required MCQ's are prepared and having average knowledge about prepared MCQ'S.	MCQ's are prepared but no knowledge of prepared MCQ'S.
				MARKS	12.5	10	7.5	5
24	**MCQ TEST**	**-**	**CO2**	**2.5%**	Student score is >=80%	Student score is <80% to >= 60%	Student score is <60% to >= 40%	Student score is < 40%
				MARKS	12.5	10	7.5	5
25	**IDP**	**TITLE PAGE**	**CO2 CO4**	**1%**	All components required for the title page have been listed	Most of the components required for the title page have been listed	Some of the components required for the title page have been listed	Only few components required for the title page have been listed
				MARKS	5	4	3	2

26	**IDP**	**REFERENCES**	**CO2 CO4**	**1%**	all references written in last reference chapter and also for figures tables and para wherever required. Reference are written in proper format	1-2 mistakes in writing Reference	3-4 mistakes in writing Reference	More than 4 mistakes in writing references.
				MARKS	5	4	3	2
27	**IDP**	**INDEX , LIST OF TABLES, FIGURES, AND ABBREVIATIONS SELF DECLARATION**	**CO4**	**3%**	All the index and list of figures and abbreviations are properly placed with page number and with proper name. Index must include all the required component and all the chapters with proper place and reference	1-3 mistakes in index and list of figures and abbreviations are properly placed with page number and with proper name. Index must include all the required components	4-6 mistakes in index and list of figures and abbreviations are properly placed with page number and with proper name. Index must include all the required components	More than 6 mistakes in index and list of figures and abbreviations are properly placed with page number and with proper name. Index must include all the required components
				MARKS	15	12	9	6

28	**IDP**	**TECHNICAL CONTENT**	**CO2 CO4**	**8%**	All the required technical content(topics) are covered in report(e.g. history, introduction, concepts, mechanisms, advantages, disadvantages, applications, codes & standards usefulness in fabrication industry)	Most of the required technical content(topics) are covered in report.	2 to 3 required technical contents (topics) are missing in the report.	More than 3 required technical contents (topics) are missing in the report.
				MARKS	40	32	24	16
29	**IDP**	**WORK INVOLVEMENT IN PREPARING THE REPORT**	**CO2 CO4**	**6%**	if all the members of team is given equal share in preparing the report	if one of the partners involvement is not in one chapter then	if one of the partners involvement is not in two chapter then	if one of the partners involvement is not in three chapter the
				MARKS	30	24	18	12
30	**PPT PRESENTATION OF IDP**	**QUALITY OF SLIDES**	**CO5**	**2%**	student present information in logical creative and interesting sequence which audience can understand	present information in an interesting sequence which odious can understand	Audience has difficulty in understanding presentation.	audience not able to understand the presentation but able to catch the little bit topic
				MARKS	10	8	6	4

31	**PPT PRESENTATION OF IDP**	**CLARITY AND UNDERSTANDING OF THE TOPIC**	**CO5**	**4%**	Great voice tone and correct pronunciation, Speak confidently, good body language, Student is able to explain without reading any slide during entire presentation.	Great voice tone and correct pronunciation, speak confidently, Student is able to explain but student read slide during the entire presentation.	Good voice tone but little mispronunciation, Speak less confidently , Student read slide during the entire presentation with partial explanation	Inadequate voice tone and frequent mispronunciation, Lack of confidence, Student read the slides during the entire presentation
				MARKS	20	16	12	8
32	**PPT PRESENTATION OF IDP**	**COMMUNICATION SKILL**	**CO5**	**2%**	Able to explain in English fluently.	Able to explain in English with little Hindi.	Explain in Hindi with little Gujarati without English.	Explain in Gujarati only without English or Hindi.
				MARKS	10	8	6	4
33	**PPT PRESENTATION OF IDP**	**CONCLUSION OF PRESENTATION TOPIC**	**CO5**	**2%**	The presentation was summed up clearly and effectively with key points emphasized.	The presentation was summed up clearly.	An attempt was made to conclude the presentation	No attempt was made to conclude the presentation.
				MARKS	10	8	6	4

*Zero marks in case of zero attendance and extremely poor performance/not prepared in respective criteria.

** Head of the department is the competent authority to modify above rubric as and when required.