



Gujarat Technological University

Complete Guideline for the Project IDP– I & II for Diploma Engineering Semester 5th & 6th

Each final year Project will be a Major Project. It will be divided into two Semesters

1) Project – I: (Marks: 150) , Credits : 0 – 0 – 4

Out of 150 marks, 50 marks are to be given as continuous evaluation as per scheme suggested. The college, through internal evaluation, will assess the Industry Defined problems, submitted by students during the 5th week of the fifth semester. The remaining 100 marks are for the practical exam, to be conducted by the University.

2) Project – II (Marks:300) , Credits : 0 – 0 – 12 or 0 – 0 – 14 depending on branch

Semester 6th, teaching scheme for the project is 0-0-12 or 0-0-14 or having 12 or 14 credits according to the branch. During the 6th semester, the project will carry a total of 300 marks. Out of the total marks, 200 marks are allocated for the External University Examination and 100 Marks are allocated for Internal Continuous Evaluation.

Procedure:

- Each defined project needs to be from Industry/Research organization/Govt.organization/socio-technical issues and according to the need of time for solving real life problems.
- Project identification should be based on “Shodh-Yatra” carried out by the students, during summer, just after completion of the Semester 4th Examination of Diploma Engg. The Shodh Yatra should be completed by the end of the first week of the term of the 5th semester.
- Problem definition for the project needs to be submitted by every student by **27th August 2012** to the respective faculty guide.
- Each definition will be evaluated and corrected if required by the faculty guide and the consolidated report should be prepared branch wise, in the prescribed format of GTU, by the College.
- Every College should send all the Problem Definitions in the specified format to GTU latest by August 30th 2012 without fail.

Facilitation:

You may contact your Udisha Club Co-ordinator/Faculty /Department/Principal or Chairman of your Sankul for arranging “Shodh-Yatra” to the industries.



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Important Instructions for the students

1. The students are required to identify their problem during the summer each year and they are required to follow all the rules and instructions issued by department, for safety and other requirements.
2. Each student or student group would work under the guidance of the Faculty from the College. In case any problem/other issue arises for the smooth progress of IDP discovery/Practical Training, it should be immediately brought to the notice of the Udisha Club Co-ordinator /Faculty /Department/Principal or Chairman of your Sankul.

The Step-by-step Guidelines

- a) To Identify the organization and the study of organizational literature.
- b) To study environment, manufacturing processes, Services, Industrial machineries as well as systems to find the problem.
- c) To suggest Probable Problem solution for identified problem/s, area/s and probable strategies.
- d) To understand the basic theory, study of the particular Systems /Services/Processes in the context of the abstract problem area/s.
- e) After understanding the student will analyze the information , prepare list of probable requirements , the questions if any, the probable forecasting of hurdles which might be observed in future and finding the way outs.
- f) The student will visit organization and prepare a **Report on the Problem Definition**, in the required format, including
 - i. the details of the project selected by him/ her , the name and brief description of the organization, its address and the, Contact Person details etc.
 - ii. Literature Survey and Research related to corresponding organization in the context of the Problem Objectives.
- g) The Department and the faculty guide should have a rapport with the organization
 - i. through visits to the organization and
 - ii. through inviting the professionals from the organization to the department at least once a semester.
- h) The HOD should send all the **Reports on the Problem Definition** to GTU, without delay, in a CD or online .



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- i) Once the Problem is defined and submitted to GTU, the students will start working on the Problem. They have to undergo a rigorous process of Understanding and Analyzing the problem, conducting a **Literature and Prior Art Search through studying patent literature**, Deriving, Discussing and Designing the problem solution. The Implementation part may be completed in Semester-VI.
- j) At the end of Sem V, the student will prepare a '**Semester V Project Report**' of the work done during the Semester. An examination will be conducted. **The Principal will invite the industry mentor (in case the project is not based on a UDP) to the examination.** The HOD should send all the **Semester V Project Reports** to GTU, without delay, in a CD or online .
- k) The Semester–VI is fully allotted for actual Solution Implementation, Finding Hurdles, Troubleshooting, and correcting the design accordingly. It involves actual implementation, testing results, suggesting modifications, Reviewing Implementation and possible extension of the work as well as the utility of Project and the probable applications.
- l) The '**Final Project Report**', at the end of the semester VI, (**Please see page 4**) must record all of the work as defined in (f), (i) and (k) .
- m) The **Final Project Report** must include, in the appendix, a calendar of the history of the project starting from shodh-yatra and the work carried out by student/s on the project work. It should also include the name and the contact details of the Faculty Guide, the Mentor (if any) and the list of members of the Group, which has worked together on the project.
- n) At the end of semester VI. an examination will be conducted. **The Principal will invite the industry mentor (in case the project is not based on a UDP) to the examination.** The HOD should send all then **Final Project Reports** to GTU, without delay, in a CD or online .

N.B.:- For any query please mail to gtu_innovation_council@gtu.edu.in



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Format of the Report

- The Certificate format should be as per the format given herewith.
- The Report may include the following:
 - 1) Certificate (in the Format given in this document below)
 - 2) Acknowledgements
 - 3) Abstract (In One paragraph not more than 150 words)
 - 4) Index
 - 5) Chapter-1 Introduction of the industry
 - 6) Chapter-2 Problem Identification and Definition, process modification; a Literature Survey and Prior Art Search
 - 7) Chapter-3 the description of the Industrial Process/ Product and problem analysis
 - 8) Chapter-4 The Outline of the solution (with details including drawings, circuits , software, used for or developed for the solution etc. in detail)
 - 9) Chapter-5 For the **Semester V Project Report**: The Outline of work to be carried out in sem-VI during Part-II
For the **Final Project Report**: The possible extension of the work, the utility of the Project work and the probable other applications, besides the one relating to the industry, at which the IDP was anchored.
If the industry is proposing to use the solution, a statement from the industry about the advantages that the industry would derive from the solution should also be included.

Appendices if any

- The Report should include all the Tools details, Figures, Charts, Analytical Results, Survey conclusions etc. whatever is applicable. It should specify all the references including manuals, papers etc.
- It must show the usefulness and application of the IDP.
- The future scope and the possible expansion in the work should also be highlighted so that some other student can carry forward the same IDP in coming years.
- The Report must be signed and approved by Faculty Guide and the Head of the Department.
- One copy for the department and one soft copy for GTU should be submitted.



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Industry Defined Problem

Form for Diploma Engineering students prepared for GTU by Prof Dilip Ahir

The Student information

Name of student (In Capital Letters)			
	Surname	Name	Father's Name
Enrollment Number			
Contact Numbers	Mob:	LandLine:	
Email ID			
College Name			College Code:
Branch			Semester :
Student Team	Name : 1. 2. 3. 4.	Enrollment Numbers	
Student Signature			



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The Industry information

Name of Industry			
Address			
	City :	Pin Code :	
Contact person Name & Desig.	Name:	Designation :	
Contact Numbers	Mob:	LandLine:	
Email ID			
Name of Industrial Estate/Zone			

Industry Defined Problem

Statement Form for Diploma Engineering Students

IDP Title



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Branch: _____

Specific Area of work: _____

Scope of the Work: Within One Discipline: or Interdisciplinary:

The Problem Abstract :

It should include concise information in clear and self explanatory words about the problem students have found during their visit to industry.

Detailed Description : The Description should include the following information in detail

1. The detailed Problem descriptions with the facts figures and statistics collected from industry during survey.
2. Include Industry Information, particularly relating to your project.
3. The importance as well as relevance and advantage of the Problem solution student is taking on hand for industry.

Expected IDP Result : Description about the outcome of IDP is to be given. At the end how the described problem will be solved and what favorable change the proposed solution is going to bring in terms of the Qualitative as well as Monetary benefits to the industry/ society.

Students have to carry out rigorous literature survey (including patent search) first about the machines and the Industrial Operation in general first and then specifically for the defined area. Survey details related to the problem can be attached with the Project Report at the time of presentation.

Important Note: During IDP Part-I students have to conduct the Survey, find Problem, analyze possible alternative solutions , find the best one and design the solution. Implementation may be done during IDP Part-II. The Report Should be prepared according to this Guideline and it should be submitted it to the respective Head of Department **before 31st August 2012**. The collected reports are to be sent within a week to GTU in soft Copy by all colleges.