

# GUJARAT TECHNOLOGICAL UNIVERSITY

## DIPLOMA IN INFORMATION TECHNOLOGY

### SEMESTER: V

Subject Name: **Project (With Seminar)**

Sr. No.	Course content
1.	<p><b>Guidelines:</b> The guideline is made keeping in view generalizing the work carried out by students. The project guide or concerned faculty may suggest necessary changes in this guideline to fulfil his/her requirement. The project may be developed considering following points.</p>
2.	<p><b>Analysis:</b> Explain in detail any relationship between the system you intend to produce and the existing manual system. Identify qualitative and quantitative evaluation criteria (obviously, these should be heavily influenced by the end-user's requirements specification). Explain clearly how your system will improve the current system (avoid vague statements such as "to save time", "to improve efficiency", "to make system user friendly" etc.) What hardware and software will be used and why? You should show an appreciation of the full potential of the hardware and software that you intend to use. List the Inputs, Outputs and Processes. Fully explain the information flow (include a Data Flow Diagram or system flowchart).</p>
3.	<p><b>Design:</b> Select Appropriate Database as per your requirement. Follow a process of Normalization. Produce entity-relationship diagrams. Break down all envisaged tasks into sub-tasks (process decomposition).</p>
4.	<p><b>Implementation:</b>  All or most of the facilities of the software and the hardware must be fully exploited. This means a fully relational database, which utilizes the advantages of relational databases, forms based on multiple tables, reports that include grouping and calculations, sub forms and Action Queries to make the system "reusable". Printing out regularly and annotating fully must show progression of work.</p>
5.	<p><b>Testing:</b> Involve clear evidence of end-user testing (e.g. evidence of an end-user test plan being followed). Test outputs should be fully annotated and cross-referenced. Test typical, extreme and erroneous data and ensure that the functionality of the system is tested. Testing should show appreciation of different circumstances (e.g. the difference between a standalone computer and one on a network).</p>
6.	<p><b>Evaluation:</b> Consider clearly a full range of qualitative and quantitative criteria for evaluating the solution. Make it clear that these criteria relate to the requirement of the user(s). What problems did you encounter and how did you overcome them?</p>
7.	<p><b>Layout &amp; Report Generation:</b> Project should be able to generate various reports using any report generation tools. Student should include minimum required reports in their project.</p>

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| 8. | <b>Documentation:</b><br>The student should prepare project report and submit it. The documentation should include below mentioned topics in given sequence. The project guide may suggest necessary changes in the topics if required. |
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