17IT32MP – MINI PROJECT

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| **Course Category:** | Program Core | **Credits:** | 2 |
| **Course Type:** | Implementation and Documentation | **Lecture – Tutorial – Practical:** | 0-0-3 |
| **Prerequisite:** | Require the fundamental knowledge in a few core computing areas | **Sessional Evaluation:**  **Univ. Exam Evaluation:**  **Total Marks:** | 40  60  100 |
| **Course Objectives** | * To apply the programming knowledge into a real- world situation/simple problem | | |

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| **Course Outcomes** | Upon successful completion of the course, the students will be able to: | |
| CO1 | Identify, analyze, formulate and handle programming projects with a comprehensive and systematic approach |
| **Course Guidelines and Evaluation** | **GUIDELINE/INSTRUCTION**   * The mini project must be done alone. * Submit an early proposal with 1 or 2 page(s) report as per the schedule, description of functionality and how the final product will be.   **PROCEDURE**   * Formulate a real world problem and gather its requirements, and develop a design solution * Test and validate the conformance of the developed prototype against the original requirements of the problem * Work as a responsible member and possibly a leader of a team in developing software solutions * Participate in and possibly moderate, discussions that lead to making decisions * Express technical ideas, strategies and methodologies in written form to prepare and conduct oral presentations * Self-learning tools, algorithms, and/or techniques that contribute to the software solution of the project must be exposed * Generate alternative solutions, compare them and select the optimum one.   **INTERNAL ASSESSMENT (40) :**  The internal examination will be conducted by the department and the performance shall be evaluated by the concerned guide and two other senior faculty members act as examiners based on the reviews/reports.  **EXTERNAL ASSESSMENT(60):**  The end examination will be conducted jointly by the Guide and another Examiner nominated by Principal/Director as per list given recommended from department  **REPORT** :  A report must be prepared based on the following contents:   * Abstract/Synopsis * Introduction * SRS – An agreement between Developer and Customer or end user (Refer any standard template followed by industry, Organization and any Institute as per current trends) * System Design – Description of modules/functions and basic UML diagrams to support the behaviour of the system * Detailed Design – Supporting UML diagrams to expose different levels of representations including behaviour, Interaction and partial implementation * Implementation details – Coding and Testing * Bibliography – Reference books, web sites and journals ( if any) | |
| **References** | Refer any standard document/template which may be suitable for current development based on organization/Industry or Institute through various web sites. | |
| **E-Resources** | Visit any software industry sites or Google for downloading sample formats/templates suitable to your project. | |