**GANPAT UNIVERSITY**

**U.V. PATEL COLLEGE OF ENGINEERING**

**COMPUTER ENGINEERING / INFORMATION TECHNOLOGY DEPARTMENT**

**Assignment List**

**Subject Name: Software Engineering (2CE602/2IT602) Academic Year: Dec-2019 to June 2020**

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| **#** | **Questions** | **Deadline** |
| **Assignment-1** | | **11/3/2020** |
| **1** | Give different software application domains. Describe unique nature of Web Apps. |
| **2** | Define Software Engineering. Explain different software myths and explain any two in detail |
| **3** | What is SDLC? Explain iterative waterfall model and also write its advantages. |
| **Assignment-2** | |
| **1** | Explain requirement engineering. |
| **2** | Explain characteristics of a good SRS document. |
| **3** | Discuss requirement modeling approaches. |
| **Assignment-3** | | **18/3/2020** |
| **1** | Discuss and compare Lines of code (LOC) and Function Point (FP) metric with its merits and demerits. |
| **2** | Explain COCOMO model with all its variation. |
| **3** | Discuss empirical estimation techniques. |
| **Assignment-4** | | **7/4/2020** |
| **1** | Explain in brief about project size Estimation techniques. |
| **2** | Explain Alpha and Beta testing. |
| **3** | Write the differences between white box and Black box testing. |
| **Assignment-5** | | **11/3/2020** |
| **1** | What is good software design? Explain all types of qualities of good software design. |
| **2** | Define objects. Write the advantages of object oriented design. Also explain actors and use cases with the help of example. |
| **3** | Explain different views supported in UML. |
| **Assignment-6** | | **13/4/2020** |
| **1** | Differentiate between structured analysis and structured design. |
| **2** | Define Pattern. Explain design patterns and architectural patterns. |
| **3** | What is the importance of design? Explain structured design with a suitable example. |
| **Assignment-7** | | **18/3/2020** |
| **1** | Define Coupling. Discuss different types of coupling in brief. |
| **2** | What is cohesion? Discuss different types of cohesion. |
| **3** | What is good software design? Explain all types of qualities of good software design. |
| **4** | Explain different views supported in UML. |
| **Assignment-8** | | **7/4/2020** |
| **1** | What is the importance of design? Explain structured design with a suitable example. |
| **2** | Differentiate between structured analysis and structured design. |
| **3** | Define Pattern. Explain design patterns and architectural patterns. |
| **4** | Discuss about various notations of DFD. Give DFD rules and draw the context level railway reservation system |

**Note: Submit your assignment in notebook to Prof. Venus Patel (for 6th CEIT-1) and Prof. Ravi Raval for (6th CE and 6th CEIT-2) within specified deadline. In case of unavoidable circumstances the deadlines are likely to get changed with prior announcement; So submit it accordingly.**