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COURSE FILE

ON SOFTWARE ENGINEERING

Course Code - CS502PC

III B. Tech

I-SEMESTER

A.Y.: 2022-2023

Prepared by

Ms.S. ANITHA Assistant Professor

B. Ratia Kaul Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Sheriguda(V), Ibrahimpatnam/M), R.R.Dist-501 1C

Sri Indu Institute of Engineering & Tech Sheriguda(Vill), Ibrahimpatnam R.R. Dist. Telangana-501 510.

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510. Campus Ph:9640590999, 9347187999, 8096951507.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

| Academic Year | 2022-2023 |
|------------------|-----------------------------------|
| Course Title | SOFTWARE ENGINEERING |
| Course Code | CS502PC |
| Programme | B.Tech |
| Year & Semester | III year I-semester |
| Branch & Section | CSE-B |
| Regulation | R18 |
| Course Faculty | Ms. S.ANITHA, Assistant Professor |
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INSTITUTE VISION AND MISSION

Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individuals into high intellectuals, by evolving them as empathetic and responsible citizens through continuous improvement.

Mission:

IM1: To offer outcome-based education and enhancement of technical and practical skills.

IM2: To continuous assess of teaching-learning process through institute-industry collaboration.

IM3: To be a center of excellence for innovative and emerging fields in technology development with state-of-art facilities to faculty and student's fraternity.

IM4: To create an enterprising environment to ensure culture, ethics and social responsibility among the stakeholders

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DEPARTMENT VISION AND MISSION

Vision:

To become a prominent knowledge hub for learners, strive for educational excellence with innovative and industrial techniques so as to meet the global needs.

Mission:

- **DM1 :** To provide ambience that enhances innovations, problem solving skills, leadership qualities, decision making, team-spirit and ethical responsibilities.
- **DM2 :** To impart quality education with professional and personal ethics, so as to meet the challenging technological needs of the industry and society.
- **DM3 :** To provide academic infrastructure and develop linkage with the world class organizations to strengthen industry-academia relationships for learners.
- **DM4 :** To provide and strengthen new concepts of research in the thrust area of Computer Science and Engineering to reach the needs of Government and Society.

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES

- **PEO1:** To develop trained graduates with strong academic and technical skills of modern computer science and engineering.
- **PEO2:** To promote trained graduates with leadership qualities and the ability to solve real time problems using current techniques and tools in interdisciplinary environment.
- **PEO3:** To motivate the graduates towards lifelong learning through continuing education and professional development.

PROGRAM SPECIFIC OUTCOMES

- **PSO1 : Professional Skills:** To implement computer programs of varying complexity in the areas related to Web Design, Cloud Computing, Network Security and Artificial Intelligence.
- **PSO2: Problem-Solving Skills**: To develop quality products using open ended programming environment.

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R.R. Dist. Telangana-501 510.

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PROGRAMME OUTCOMES (POs)

- **PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
- **PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7:** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give andreceive clear instructions.
- **PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12:** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech in COMPUTER SCIENCE AND ENGINEERING III YEAR COURSE STRUCTURE AND SYLLABUS (R18)

Applicable from 2018-19 Admitted Batch

III YEAR I SEMESTER

| S. No. | Course Code | Course Title | L | Т | Р | Credits |
|--------|----------------|---|---|---|---|---------|
| 1 | CS501PC | Formal Languages & Automata Theory | 3 | 0 | 0 | 3 |
| 2 | CS502PC | Software Engineering | 3 | 0 | 0 | 3 |
| 3 | CS503PC | Computer Networks | 3 | 0 | 0 | 3 |
| 4 | CS504PC | Web Technologies | 3 | 0 | 0 | 3 |
| 5 | CS515PE | Principles of Programming Languages(PE-I) | | 0 | 0 | 3 |
| 6 | | Professional Elective -II | | 0 | 0 | 3 |
| 7 | CS505PC | Software Engineering Lab | 0 | 0 | 3 | 1.5 |
| 8 | CS506PC | Computer Networks & Web Technologies Lab | | 0 | 3 | 1.5 |
| 9 | EN508HS | Advanced Communication Skills Lab | | 0 | 2 | 1 |
| 10 | *MC510 | Intellectual Property Rights | | 0 | 0 | 0 |
| | | Total Credits | | 0 | 8 | 22 |

III YEAR II SEMESTER

| S. No. | Course Code | Course Title | L | Т | Р | Credits |
|--------|----------------|-----------------------------------|----|---|---|---------|
| 1 | CS601PC | Machine Learning | 3 | 1 | 0 | 4 |
| 2 | CS602PC | Compiler Design | 3 | 1 | 0 | 4 |
| 3 | CS603PC | Design and Analysis of Algorithms | 3 | 1 | 0 | 4 |
| 4 | | Professional Elective – III | 3 | 0 | 0 | 3 |
| 5 | | Open Elective-I | 3 | 0 | 0 | 3 |
| 6 | CS604PC | Machine Learning Lab | 0 | 0 | 3 | 1.5 |
| 7 | CS605PC | Compiler Design Lab | 0 | 0 | 3 | 1.5 |
| 8 | | Professional Elective-III Lab | | 0 | 2 | 1 |
| 9 | *MC609 | Environmental Science | 3 | 0 | 0 | 0 |
| | | Total Credits | 18 | 3 | 8 | 22 |

*MC - Environmental Science – Should be Registered by Lateral Entry Students Only.

Note: Industrial Oriented Mini Project/ Summer Internship is to be carried out during the summer vacation between 6th and 7th semesters. Students should submit report of Industrial Oriented Mini Project/ Summer Internship for evaluation.

Professional Elective-I

| CS511PE | Information Theory & Coding |
|---------|-------------------------------------|
| CS512PE | Advanced Computer Architecture |
| CS513PE | Data Analytics |
| CS514PE | Image Processing |
| CS515PE | Principles of Programming Languages |

Professional Elective - II

| CS521PE | Computer Graphics |
|---------|---------------------------------|
| CS522PE | Advanced Operating Systems |
| CS523PE | Informational Retrieval Systems |
| CS524PE | Distributed Databases |
| CS525PE | Natural Language Processing |

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD (CS502PC) SOFTWAREENGINEERING

B. Tech-III Year I Sem

L T P C 30 0 3

Course Objectives:

1. The aim of the course is to provide an understanding of the working knowledge of the techniques for estimation, design, testing and quality management of large software development projects.

2. Topics include process models, software requirements, software design, software testing, software process/product metrics, risk management, quality management and UML diagrams

Course Outcomes:

- 1. Ability to translate end-user requirements into system and software requirements, using e.g. UML, and structure the requirements in a Software Requirements Document (SRD).
- 2. Identify and apply appropriate software architectures and patterns to carry out high level design of a system and be able to critically compare alternative choices.
- 3. Will have experience and/or awareness of testing problems and will be able to develop a simple testing report

UNIT - I

Introduction to Software Engineering: The evolving role of software, changing nature of software, software myths. **A Generic view of process:** Software engineering- a layered technology, a process framework, the capability maturity model integration (CMMI), process patterns, process assessment, personal and team process models.

Process models: The waterfall model, incremental process models, evolutionary process models, the unified process.

UNIT - II

Software Requirements: Functional and non-functional requirements, user requirements, system requirements, interface specification, the software requirements document.

Requirements engineering process: Feasibility studies, requirements elicitation and analysis, requirements validation, requirements management.

System models: Context models, behavioral models, data models, object models, structured methods.

UNIT - III

Design Engineering: Design process and design quality, design concepts, the design model. **Creating an architectural design:** software architecture, data design, architectural styles and patterns, architectural design, conceptual model of UML, basic structural modeling, class diagrams, sequence diagrams, collaboration diagrams, use case diagrams, component diagrams.

UNIT - IV

Testing Strategies: A strategic approach to software testing, test strategies for conventional software, black-box and white-box testing, validation testing, system testing, the art of debugging.

Product metrics: Software quality, metrics for analysis model, metrics for design model, metrics for source code, metrics for testing, metrics for maintenance.

UNIT - V

Metrics for Process and Products: Software measurement, metrics for software quality.

Risk management: Reactive Vs proactive risk strategies, software risks, risk identification, risk projection, risk refinement, RMMM, RMMM plan.

Quality Management: Quality concepts, software quality assurance, software reviews, formal technical reviews, statistical software quality assurance, software reliability, the ISO 9000 quality standards.

TEXT BOOKS:

- 1. Software Engineering, A practitioner's Approach- Roger S. Pressman, 6th edition, Mc Graw Hill International Edition.
- 2. Software Engineering- Sommerville, 7th edition, Pearson Education.
- 3. The unified modeling language user guide Grady Booch, James Rambaugh, Ivar Jacobson, Pearson Education.

REFERENCES:

- 1. Software Engineering, an Engineering approach- James F. Peters, Witold Pedrycz, John Wiley.
- 2. Software Engineering principles and practice- Waman S Jawadekar, The Mc Graw-HillCompanies. Fundamentals of object-oriented design using UML Meiler page-Jones: Pearson Education



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Department of Computer Science and Engineering <u>Course Outcomes</u>

Class: III – I SEM – B - Section

After completing this course the student will be able to:

| Course Name : S | Software Engineering | Course Code: C312 | Year – Sem: III-I | Academic Year: 2022-2023 | | | | |
|-----------------|--|----------------------|------------------------|--------------------------|--|--|--|--|
| CO Number | Course Outcomes (CO) | | | | | | | |
| C312.1 | Determine the identity of mi (Knowledge) | nimum requiren | nents for the developm | ent of application. | | | | |
| C312.2 | Describe to develop functional and non -functional requirements for srs document. (Analysis) | | | | | | | |
| C312.3 | Ability to design software architecture, component level design and performing user interface design. (Analysis) | | | | | | | |
| C312.4 | Ability to identify a strategic approach to software testing and software quality for s/w product. (Application) | | | | | | | |
| C312.5 | Describe to develop validation, system testing and art of debugging. (Knowledge) | | | | | | | |
| C312.6 | Ability to maintain, efficient, reliable and cost effective software solutions. (Knowledge) | | | | | | | |

Mapping of course outcomes with program outcomes:

High -3

Medium -2

Low-1

| PO/PSO/ CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| C312.1 | 3 | - | - | - | - | - | - | - | I | - | - | 3 | 1 | - |
| C312.2 | 3 | 2 | - | - | | - | - | - | - | - | - | 3 | - | - |
| C312.3 | 3 | - | 2 | - | - | - | - | - | - | - | - | 3 | - | - |
| C312.4 | 3 | - | - | - | 1 | - | - | - | - | - | - | 3 | 1 | - |
| C312.5 | 2 | - | - | - | 1 | - | - | - | - | - | - | 3 | 2 | 2 |
| C312.6 | 3 | 2 | - | - | - | - | - | - | - | - | - | 3 | 1 | - |
| C313 | 2.8 | 2 | 1.7 | - | 2 | - | - | - | - | - | - | 2.8 | - | - |

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CO-PO Mapping Justification

C312.1 Determine the identity of minimum requirements for the development of application. (Knowledge)

| | Justification |
|------------|--|
| PO1 | Apply the gained knowledge where, the software requirements are in the need to develop the |
| | working applications.(level 3) |
| PO12 | Recognize the need of software requirements engineering concepts in the abrupt changes in |
| | current technology. (Level 2) |
| PSO1 | Apply the gained knowledge in new requirement configuration under the software domain. |
| | (Level 1) |

C312.2 Describe to develop functional and nonfunctional requirements for SRS document. (Analysis)

| | Justification | | | | | |
|------|---|--|--|--|--|--|
| PO1 | Apply the gained knowledge where, the software is in the need to develop the functional | | | | | |
| | and nan functional requirements in document.(level 3) | | | | | |
| PO2 | Students can able to learn software based on the requirement. (Level 1) | | | | | |
| PO12 | Its encourage the independent learning of new technology in software requirement document | | | | | |
| | (level 2) | | | | | |

C312.3 Ability to design software architecture, component level design and performing user interface design. (Analysis)

| | Justification |
|------|--|
| PO1 | Knowledge of design various component levels performing in architecture design. (level 3) |
| PO3 | Demonstrate the current technology in the software engineering design. (level 1) |
| PO12 | It will enlightening the learners to adopting the technology changes by lifelong learning. |
| | (level 2) |

C312.4 Ability to identify a straightagic approach to software testing and software quality for s/w product. (Application)

| | Justification |
|------|---|
| PO1 | Apply the knowledge of straightagic approach to software testing quality. (level 3) |
| PO5 | Learning of software engineering gives the research and development focus to the students. (level 1) |
| PO12 | Enlighten the research knowledge and supports for lifelong learning to the advanced learners. (level 1) |
| PSO1 | Apply the gained knowledge in new requirement configuration under the software domain. (Level 1) |

C312.5 Describe to develop validation, system testing and art of debugging. (Knowledge)

| | Justification |
|------------|--|
| PO1 | Apply the knowledge of debugging techniques for system testing. (level 3) |
| PO5 | Learning of development requirements gives the research and development focus to the students. (level 1) |
| PO12 | Enlighten the research knowledge and supports for lifelong learning to the advanced learners. (level 1) |
| PSO1 | Apply the gained knowledge in new requirement configuration under the software domain. (Level 1) |
| PSO2 | Students can able to learn software based on the requirement. (Level 1) |

C312.6 Ability to maintain, efficient, reliable and cost effective software solutions. (Knowledge)

| | Justification |
|-------------|---|
| PO1 | Apply the gained knowledge where, the software solutions maintain effectiveness of cost are in the need to develop the software.(level 3) |
| PO2 | Students can able to setup software based on the requirement. (Level 1) |
| PO12 | Its encourage the independent learning of new technology in software solutions. (level 2) |
| PSO1 | Apply the gained knowledge in new requirement configuration under the software |
| | domain.(Level 1) |

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD ACADEMIC CALENDAR 2022-23

B. Tech./B. Pharm. III YEAR I & II SEMESTERS

I SEM

| | | Duration | | | |
|-------|--|------------|----------------------|--|--|
| S. No | Description | From | То | | |
| 1 | Commencement of I Semester classwork | 09.09.2022 | | | |
| 2 | 1 st Spell of Instructions (including Dussehra Recess) | 09.09.2022 | 10.11.2022 (9 Weeks) | | |
| 3 | Dussehra Recess | 03.10.2022 | 08.10.2022 (1 Week) | | |
| 4 | First Mid Term Examinations | 11.11.2022 | 17.11.2022 (1 Week) | | |
| 5 | Submission of First Mid Term Exam Marks to the University on or before | 24.11.2022 | | | |
| 6 | 2 nd Spell of Instructions | 18.11.2022 | 12.01.2023 (8 Weeks) | | |
| 7 | Second Mid Term Examinations | 16.01.2023 | 21.01.2023 (1 Week) | | |
| 8 | Preparation Holidays and Practical Examinations | 23.01.2023 | 28.01.2023 (1 Week) | | |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | | 30.01.2023 | | |
| 10 | End Semester Examinations | 30.01.2023 | 11.02.2023 (2 Weeks) | | |

Note: No. of Working/ instructional days: 92

II SEM

| S. No | | Duration | | |
|-------|--|------------|-----------------------|--|
| | Description | From | То | |
| 1 | Commencement of II Semester classwork | 13.02.2023 | | |
| 2 | 1 st Spell of Instructions | 13.02.2023 | 08.04.2023 (8 Weeks) | |
| 3 | First Mid Term Examinations | 10.04.2023 | 15.04.2023 (1 Week) | |
| 4 | Submission of First Mid Term Exam Marks to the University on or before | 22.04.2023 | | |
| 5 | 2 nd Spell of Instructions (including Summer Vacation) | 17.04.2023 | 24.06.2023 (10 Weeks) | |
| 6 | Summer Vacation | 15.05.2023 | 27.05.2023 (2 Weeks) | |
| 7 | Second Mid Term Examinations | 26.06.2023 | 01.07.2023 (1 Week) | |
| 8 | Preparation Holidays and Practical Examinations | 03.07.2023 | 08.07.2023 (1 Week) | |
| 9 | Submission of Second Mid Term Exam Marks to the University on or before | 08.07.2023 | | |
| 10 | End Semester Examinations | 10.07.2023 | 22.07.2023 (2 Weeks) | |

Note: No. of Working/ instructional days: 90



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|----------------------------|--|---------------|---|-------------------|---|-------------------------------|------------------|--|
| Class: III- | -B. Tech CSE -B | S | TIME TA emester: I | BLE FOR A.Y | | | w | .E.F:09-09-2022 |
| Period/ | 1 | 2 | 3 | 4 | 1:00- | 5 | 6 | 7 |
| Day | 9:40-10:30 | 10:30-11:20 | | 12:10-1:00 | 1:30 | 1:30-2:20 | 2:20-3:10 | The second secon |
| Monday | PPL | SE | INT | CN | | DDB | FLAT | IPR |
| Tuesday | FLAT | LIB | SE | PPL | | ACS LAB(| BATCH-I)/SE LA | B(BATCH-II) |
| Wednesda | y DDB | SE | COUN | FLAT | | WT | | -C/SS/DAA |
| Thursda | | FLAT | DDB | PPL | ĊĹ | CN&WT LAB | (BATCH-I)/ACS | LAB(BATCH-II) |
| Friday | WT | CN&WT | LAB(BATCH-II)/SE LAB(B | ATCH-I) |] Ĥ [| CN | FLAT | IPR |
| Saturday SE CN | | W | | | IPR | PPL | SPORTS | |
| Subject Code CS501PC | Subject 1 Formal Language & A | | Name of the Faculty Mrs.R.Sravanthi | | Subject Code EN508HS | Subject Name Advanced Comm | unication Skills | Name of the Faculty Mrs E Prarthana |
| CS502PC | Software Engineering | | Ms.S.Anitha | | MC510 | Intellectual Prope | rty Rights | Mr Sannala Sriniyas |
| CS503PC | Computer Networks | | Mrs.N.Shilpa | | | CO-C/SS/DAA/1 | | Ms.S.Anitha |
| CS504PC | Web Technologies | | Mr. Jalli Anandarao | 10-11 | Sports | Sports | | Mr.A.Vijay Kumar |
| CS505PC | Software Engineering | Lab | Ms.S.Anitha/ Mrs.P.Swathi/ Mrs.E.Rupa | | Internet | Internet | | Mrs.N.Shilpa |
| CS506PC | Computer Networks& Technologies Lab | Web | Mrs.N.Shilpa/ Mr. Jalli Mr.A.Vijay Kumar | Anandarao / | LIB | Library | | Mrs.E.Rupa |
| CS515PE | Principal of Programm | ing languages | Mrs.E.Rupa | | COUN | Counselling | | Mr.A.Vijay Kumar |
| CS524PE | Distributed Databases | | Ms.K Mounika | | CS504PC | Web Technologie | 8 | Mr M Dattatreya Goud(Adjunct) |
| Class In-Cl | arge : Ms.S.Anitha | | Mentor 1 : Ms.S.Anitha | | | Mentor 2: Mrs.I | C.Sravanthi | 0 |
| hel | hn | | P | | | | | PRINCIPAL |



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LESSON PLAN

| Course Title | Software Engineering |
|-----------------|---------------------------------------|
| Course Code | CS502PC |
| Programme | B.Tech |
| Year & Semester | III-year I-semester |
| Regulation | R18 |
| Course Faculty | Ms.S.ANITHA, Assistant Professor, CSE |

| LectureNo. | Topics to be covered | TA/ TM | Reference |
|-----------------------|---|---------|-----------|
| UNIT-1 1. | Introduction to Software Engineering | BB | T2, |
| 2 | The Evolving Role of Software | BB | T2 |
| 3 | Changing nature of s/w, legacy Generic view of process Software engineering-A layered technology | BB, | T1, T2 |
| 4 | Generic view of A process framework, CMMI, Process Patterns Process Assessment, personal and team process models. | PPT,WR1 | T2 |
| 5 | Process models: The waterfall model, Incremental process models, Evolutionary process models. | PPT,WR2 | T2 |
| 6 | The unified process | BB | T1 |
| UNIT-II 7. | S/W Requirements: Functional and non-functional requirements | BB, | T1 & T2 |
| 8 | User Requirements, System requirements | PPT | T2 |
| 9 | Interface specification | PPT | T1 |
| 10 | S/w Requirements document | BB, | T1 |
| 11 | Requirement engineering process: Feasibility studies | BB, PPT | T1 |
| 12 | Requirement Elicitation & Analysis, Requirements validation, Requirements management. | РРТ | T1 |
| 13 | System models: Context models, Behavioral models, Data models and object models | BB | T1 |
| 14 | Structured methods | BB | T1 & T2 |
| UNIT-III 15 | Design engineering: Design Process And Design | BB | T1 & T2 |

| 16 | Design concepts,UML | BB,WR3 | T1 & T2 |
|------------------|--|---------|---------|
| 17 | Design model | BB | T1 & T2 |
| 18 | Pattern based software design | BB, PPT | T1 & T2 |
| 19 | Creating an Architectural design, Software architecture | BB | T1 |
| 20 | Data design, Architectural Styles and patterns | PPT | T1 |
| 21 | Assessing alternative architectural Designs, mapping data flow into software architecture | BB | T2 |
| UNIT-IV 22 | Modeling component-level design: Designing class- based components | BB | T1 |
| 23 | Conducting component-level design | PPT | T1 |
| 24 | object constraint language, designing conventional components. | РРТ | T2 |
| 25 | Performing User interface design: Golden rules, User interface analysis and design | BB | T2 |
| 26 | Interface analysis, interface design steps, Design evaluation | РРТ | T2 |
| 27 | Testing Strategies: A strategic approach to software testing, test strategies for conventional software, | РРТ | T2 |
| 28 | Black-Box and White-Box testing, Validation testing, System testing, the art of Debugging. | РРТ | T2 |
| 29 | Product metrics: Software Quality, Frame work for Product metrics, Metrics for Analysis Model. | BB | T2 |
| 30 | Metrics for Design Model, Metrics for source code, Metrics for testing, Metrics for maintenance. | BB | T2 |
| UNIT-V 31 | Metrics for Process and Products : Software Measurement, Metrics for software quality. | PPT | T2 |
| 32 | Risk management : Reactive vs. Proactive Risk strategies, software risks, Risk identification | BB | T2 |
| 33 | Risk projection, Risk refinement, RMMM, RMMM Plan. | BB | T2 |
| 34 | Quality Management : Quality concepts, Software quality assurance, Software Reviews | BB | T2 |
| 35 | Formal technical reviews, Statistical Software quality Assurance, Software reliability, The ISO 9000 quality standards | BB | Т2 |

TEXT BOOKS

T1. "Software engineering a practitioner's Approach, Roger. Pressman", sixth edition

T2.McGraw-HillEdition.SoftwareEngineering,IanSomerville,seventh edition,Pearsoneducation.

REFERENCE BOOKS

- 1. Software Engineering, A practitioner's Approach, Pankaj Jabot, Wiley India,2010.
- 2. Software Engineering A Primer, Waman S Jawadekar, Tata McGrawHill,2008.
- 3. Fundamentals of Software Engineering, RajibMall,PHI,2005.

WEB REFERENCES

WR1 https://www.geeksforgeeks.org/capability-maturity-model-integration-cmmi/

WR2 https://www.tutorialspoint.com/sdlc/sdlc_waterfall_model.htm

WR3 https://economictimes.indiatimes.com/definition/uml



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LECTURE NOTES

UNIT-1-5 Link:

https://drive.google.com/file/d/1Srz6-ptvBIDDzeDmpeaiebR7-cdtbM28/view?usp=sharing

Power Point Presentation Unit Wise Links:

Unit-I Link:

https://drive.google.com/file/d/1iTWKo2idOEhun4kzdQZJ1Okk58OGVyhB/view?usp=sharing

<u>Unit-II Link:</u>

https://drive.google.com/file/d/1OkZ_Rr1Pq_WBMg6oJKi5b28xNzWDF4ej/view?usp=sharing

<u>Unit-III Link:</u>

https://drive.google.com/file/d/1nNHKo8zGywIVcsrzo5A5bO1eVy2RfP7w/view?usp=sharing

Unit-IV Link:

https://drive.google.com/file/d/1UP1FxIMj4v7rUmRT3rnBYMCGZPjrl3Xy/view?usp=sharing

<u>Unit-V Link:</u>

https://drive.google.com/file/d/1leul8EJVe9thAGN0WecxOoagl3DuBGk8/view?usp=sharing

Code No: 155DB JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, September - 2021 SOFTWARE ENGINEERING (Common to CSE, IT)

| 37 X | (,,, | 184477 - 1842 - 1953 - 1842 - |
|---------|---|--|
| ime: | 3 Hours | Max. Marks: 75 |
| | Answer any five questions | |
| | All questions carry equal marks | |
| | 200 PC | |
| .a) | Explain about evaluation of software engineering methodologies. | |
| b) | What are the challenges of software engineering? | [8+7] |
| .a) | Explain Software development process models. | 215 |
| b) | Write a short note on Waterfall model. | [7+8] |
| .a) | Explain the importance of software specification of requirements. | |
| b) | Write a short note on Context Model. | [7+8] |
| | Describe various prototyping techniques and discuss on object orie | 비행이 다른 것을 하는 것을 다 가지 못했는 것을 알았다. 것을 다 가지 않는 것을 했다. |
| | modeling. | [15] |
| | Briefly explain about the following: | |
| | a) Sequence diagram | |
| | b) Use case diagram. | [7+8] |
| | What are the design principles of a good software design? Explain. | [15] |
| .a) | What is testing? How is it different from debugging? | |
| b) | Explain various structural testing techniques with suitable examples. | [7+8] |
| .a) | List and explain the various software quality factors. | |
| b) | Describe the role of software reviews in achieving good quality software | are. [7+8] |
| 14108 5 | 이가 이가 사내에 왜 잘 가 들었다. 이 가슴 것 것 있어요. 것 같아요. | ire. |

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R18 Code No: 155DB JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, March - 2021 SOFTWARE ENGINEERING (Common to CSE, IT) Max. Marks: 75

Time: 3 Hours

Answer any five questions All questions carry equal marks ---

| 1.a) | Explain Software development process models. | |
|------------|---|----------------|
| b) | Explain about evaluation of software engineering methodologies. | [7+8] |
| 2.a) | What is the goal of requirements analysis phase? Give reasons why the require analysis phase is a difficult one. | ments |
| b) | Identify and briefly describe four types of requirement that may be defined computer based system. | for a [8+7] |
| 3. | What are the design principles of a good software design? Explain. | [15] |
| 4. | What is black box testing? Is it necessary to perform this? Explain various test activities. | [15] |
| 5.a) b) | Discuss briefly about Pro-active and Re-active Risk strategies in detail. Explain about Software risks in detail. | [8+7] |
| 6.a) b) | How system modeling is achieved using UML? Explain with a suitable example. How we perform design evaluation? Explain it with suitable example. | [8+7] |
| 7.a) b) | What is a change? How it can be incorporated in the software. What is the difference between verification and validation? Explain with an exa | mple. [8+7] |
| 8.a) b) | What is software maintenance? How to control maintenance <u>cost</u> . Define software. List and explain about the elements of a software process. | [8+7] |

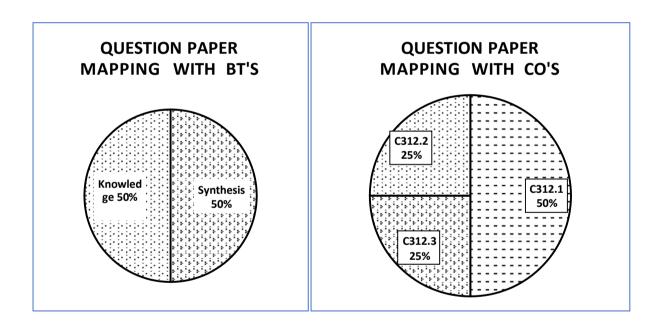


| Sheriguda | (V), Ibrahimpatnam (M), R.R. Dist-5 | 501 510 | | | | |
|---|--|---------------|---------|--|--|--|
| Ν | Aid-I Examinations, NOV-2022 | | Set – I | | | |
| Year & Branch: III-CSE (A, B, C) | | Date: | Li | | | |
| Subject: SE | Marks: 10 | Time: 60 min | | | | |
| Answer any TWO Questic | Answer any TWO Questions. All Question Carry Equal Marks 2*5=10 marks | | | | | |
| (This question paper | is prepared with Course Outcome and | BT's mapping) | | | | |
| Define software engineering and expla | in software myths? | | | | | |
| Comprehension C312.1 | | | | | | |
| What are the CMMI levels and Explain about it? Understand C312.1 | | | | | | |
| Differentiate Between Verification and Validation? Comprehension C312.2 | | | | | | |

4. Explain about Waterfall model? Understand C312.3

1.

2. 3.



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Mid Examinations, NOV-2022

Marks: 10

Set – II

Year & Branch: III-CSE(A,B,C)

Subject: SE

Time: 60 min

Date:

2*5=10 marks

(This question paper is prepared with Course Outcome and BT's mapping)

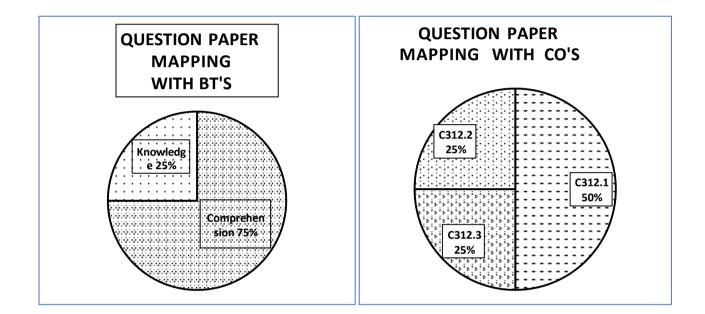
1. Explain context model & object oriented model? Understand C312.1

2. Explain about Design process and Design quality and models? Understand C312.1

Answer any **TWO** Questions. All Question Carry Equal Marks

3. Explain about any four UML Diagrams? Understand C312.2

4. Explain about Design Architectural Styles? Understand C312.2



Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING B.TECH. IIIYEAR I SEM., I Mid Term Examinations,November – 2022 SOFTWARE ENGINEERING OBJECTIVE EXAM

| Name: Hall Ticket No. | |
|--|--|
| Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10. | |
| | |
| I. Choose the Correct alternative: | |
| 1) The level at which the software uses scarce resources is [] | |
| a) Reliability b) Efficiency c) Portability d) All of the above | |
| 2) Which is the way where the CMMI process Meta model can be represented? [a) A continuous model b) A staged model c) Both A & B d) None of the above | |
| 3) The software becomes more popular if its user interface is [] | |
| a) Attractive B) Simple to use C) Responsive in short time D) All mentioned above | |
| 4) Software consists of [] | |
| a) Set of instructions + operating procedures b) Programs + documentation + operating | |
| procedures c) Programs + hardware manuals d) Set of programs | |
| 5) Which of the items listed below is not one of the software engineering layers? [] | |
| a) Processb) Manufacturingc)Methodsd)Tools6) Which of the following is/are considered stakeholder in the software process?[] | |
| a) Customers b) End-users c) Project managers d) All of the above | |
| 7) Which SDLC activity does the user initiates the request for a desired software product? | |
| | |
| a) Requirement gathering b) Implementation c) Disposition d) Communication | |
| | |
| 8) What is a measure of how well a computer system facilities learning? [] a)Usability b)Functionality c)Reliability d)None of the above | |
| 9) Abbreviate the term CMMI. | |
| a)Capability Maturity Model Integration b)Capability Model Maturity Integration | |
| c)Capability Maturity Model Instructions d)Capability Model Maturity Instructions | |
| 10) First level of prototype is evaluated by [] | |
| a)Developer b)Tester c)User d)System Analyst | |
| II Fill in the Blanks | |
| 11 Who deliver the technical skills that are necessary to engineer for a product or an application | |
| 12 Which is focused towards the goal of the organization | |
| 13 Which model is also known as Verification and validation model | |
| 14 Which software enables the program to adequately manipulate information | |
| 15 If requirements are easily understandable and defined then which model is best suited | |
| 16 CASE Tool stands for | |
| 17 RAD Software process model stands for | |
| 18 Which of the following is not defined in a good Software Requirement Specification (SRS) document 19 SDLC stands for | |

- 19 SDLC stands for _____
- 20 Requirement engineering establishes a solid base for

Sri Indu Institute of Engineering & Technology Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING **B.TECH. III YEAR I SEM I- Mid Term Examinations. Nov-2022** SOFTWARE ENGINEERING **OBJECTIVE KEY PAPER**

1)b

2) C 3)d 4.)b 5)b 6)d 7)d

8)a

9)a

10)c

11) Practitioners

12) Feasibility study

13) V-model

14) Data Structures

15) Waterfall model

16) Computer Aided Software Engineering

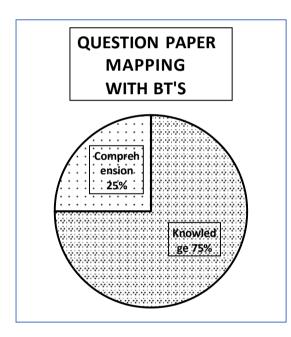
17) Rapid Application Development.

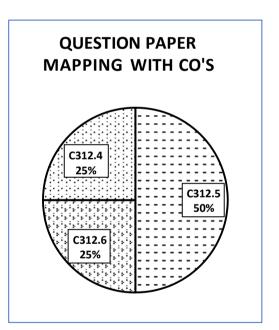
18)Algorithm for software implementation.

19)Software Development Life Cycle

20)design and construction

| Sheriguda | (V), Ibrahimpatnam (M), R.R.Dist- | 501 510 |
|---|--|---|
| - | Mid-II Examinations, JAN-202 | 3 Set – I |
| Year &Branch: III-CSE(A,B,C) | | Date: JAN-2023 |
| Subject: SE | Marks: 10 | Time: 60 min |
| • | ns. All Question Carry Equal Marks is prepared with Course Outcome a good software design & explain? | 2*5=10 marks and BT's mapping) (Knowledge) (5M) |
| What is testing? How it is different Discuss briefly about pro-active an | 66 6 | alysis) (5M) (Application) (5M) |
| 4. What is Change? How it can be in | corporate in the software? (Anal | ysis) (5M) |





Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510

Mid-II Examinations, JAN-2023

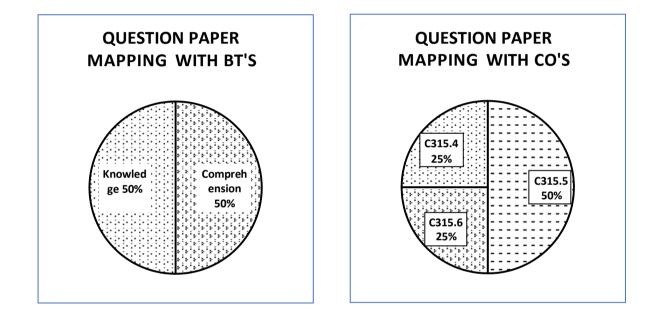
Set – II

| Year & Branch: III-CSE(A,B,C) | | Date: JAN-2023 |
|-----------------------------------|--|----------------------|
| Subject:SE | Marks: 10 | Time: 60 min |
| Answer any TWO Q | Questions. All Question Carry Equal M | Iarks 2*5=10 marks |
| (This question | n paper is prepared with Course Outcom | me and BT's mapping) |
| 1. Explain about software risk in | detail & explain RMMM Plan? (A | Analysis) (5M) |
| | | |

2. What is software maintenance? How to control maintenance cost? (Synthesis) (5M)

3. Difference between black box testing & white box testing with diagrams? (Analysis) (5M)

4. Define Software list & explain about elements of a software process? (Knowledge) (5M)



Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING B.TECH. III YEAR I SEM., II Mid Term Examinations, January – 2023

| | SOFTWARE ENGINEERING Objective Exam | | | | | |
|---|---|----------------|---------|---------|--------|----------|
| Name: | Hall Ticket No. | | | | | |
| Answer All Questions. All Questio I Choose the correct alternative: | ons Carry Equal Marks. Time: 20 Min. | Marks: 1 | | | | |
| 1) Quality Management is known | as | [|] | | | |
| a) SQI b) SQA c) SQMd) SQA ar | nd SQM. | | | | | |
| 2. Which is the most important featur | e of spiral model? | [|] | | | |
| a) Quality management b) Risk management b) | gement C) Performance management d)Effi | ciency manag | ement | | | |
| - | spection, direct involvement of users and re user acceptance etc. is called [] | elease of beta | version | are few | of the | m and it |
| a) Task analysis b) GUI requirement | gathering c) GUI design & implementation | d) Testing | | | | |
| 4) Mention any two indirect measures | of product. | | [] | | | |
| a) Quality b) Efficiency c) Accuracy | d) Both A and B | | | | | |
| 5) Which method is used for evaluatin [] | g the expression that passes the function as | an argument? | | | | |
| a) Strict evaluation b) Recursion c) (| Calculus d) Pure functions | | | | | |
| 6. Which factors affect the probable co | onsequences if a risk occur? | [|] | | | |
| a) Risk avoidance b) Risk monitoring | c) Risk timing d) Contingency planning | | | | | |
| 7. ER model shows the? | | [|] | | | |
| a) Static view b) Functional view c |) Dynamic view d) All the above | | | | | |
| 8. One of the fault base testing techa) Unit Testing b) Beta Testing c) \$ | - | [|] | | | |
| from past experience are called | on with the customer are risks that are ext ks c) Project risks d) Technical risks | trapolated | | | | |

10. If P is risk probability, L is loss, then Risk Exposure (RE) is computed as _____ \cdot [] a) RE = P/Lb) RE = P + Lc) RE = P*L d) RE = 2* P *L

II FILL IN THE BLANKS

11. Number of clauses used in ISO 9001 to specify quality system requirements are _____

12. Which plan describes how the skills and experience of the project team members will be developed ------

13. The model in which the requirements are implemented by its category is _____

14. A COCOMO model is ______.

15. The tools that support different stages of software development life cycle are called_______.

16. Organization can have in-house inspection, direct involvement of users and release of beta version are few of them and it also includes usability, compatibility, user acceptance etc. is called _____

17. Compilers, Editors software come under which type of software-----

18. RAD Software process model stands for _____

19. What is the simplest model of software development paradigm------

20. Which design identifies the software as a system with many components interacting with each other-----

ANSWER KEY:

I Choose the correct Answers:

- 1. B
- 2. B
- 3. D
- 4. D
- 5. A
- 6. C
- 7. A
- 8. D
- 9. B
- 10. C

II Fill in the blanks Answers

- 11. 20
- 12. Staff Development Plan
- 13. Evolutionary Development Model
- 14. Constructive Cost Estimation Model
- 15. CASE Tools
- 16. Testing
- 17. System software
- 18. Rapid Application Development
- 19. Waterfall model
- 20. Architectural design

Sheriguda (V), Ibrahimpatnam (M), R.R.Dist-501 510 Mid-I Examinations, Nov-2022

Year & Branch: III-CSE(A,B,C)

Subject: SE

Answer Key

Descriptive paper key link:

https://drive.google.com/file/d/1FD6dhQTaHW4I6E2wVnHTFkRsRD8NMvBT/view?us p=sharing

> **Mid-II Examinations, JAN-2023** Year & Branch: III-CSE(A,B,C)

<u>Answer Key</u> Descriptive paper key link:

https://docs.google.com/document/d/10kmlKp24Don-7qqSvN6IPTe2QRZTEHU/edit?usp=sharing&ouid=105411645617335509306&rtpof=true&sd=true





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Assignment Questions-I

(Assignment Questions are mapped with CO's, BT)

1. Define software engineering and explain software myths?

Comprehension C312.1

- 2. What are the CMMI levels and Explain about it? Understand C312.1
- 3.Differentiate Between Verification and Validation? Comprehension C312.24
- 4Explain about Waterfall model? Understand C312.3
- 5. Explain about Design Architectural Styles? Understand C312.2



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Assignment Questions-II

(Assignment Questions are mapped with CO's, BT)

1. What is testing? How it is different from debugging.

(Knowledge)(C312.3)

(Comprehension)(C312.4)

(Knowledge)(C312.5)

- (Knowledge)(C312.4)
- 3. Explain about software risk in detail & explain RMMM plan?

2. Discuss briefly about proactive and re-active risk strategies.

- 4. Difference between white box testing and black box testing?
- 5. What is software maintaince? How to control maintaince cost? (Comprehension)(C312.6)



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Result Analysis:

| Course Title | SOFTWARE ENGINEERING |
|-----------------|---------------------------------------|
| Course Code | CS502PC |
| Programme | B.Tech |
| Year & Semester | III year I-semester, B sec |
| Regulation | R18 |
| Course Faculty | Ms.S.ANITHA, Assistant Professor, CSE |

Slow learners:

| S No | Roll no | No of backlogs | Internal-I Status | Internal-II Status |
|------|------------|-------------------|-------------------|--------------------|
| 1 | 20X31A0575 | 6 | 21 | 22 |
| 2 | 20X31A0580 | 6 | 20 | 24 |
| 3 | 20X31A0582 | 6 | 20 | 23 |
| 4 | 20X31A0585 | 6 | 19 | 20 |
| 5 | 20X31A0591 | 5 | 20 | 21 |
| 6 | 20X31A0595 | 2 | 5 | 15 |
| 7 | 20X31A0599 | 4 | 22 | 22 |
| 8 | 20X31A05A1 | 2 | 21 | 21 |
| 9 | 20X31A05A2 | 6 | 17 | 17 |
| 10 | 20X31A05A6 | 6 | 21 | 21 |
| 11 | 20X31A05A9 | 4 | 23 | 21 |
| 12 | 21X31A0506 | 4 | 20 | 20 |



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BATCH CSE-III BTECH I- SEM CSE – B RESULT ANALYSIS

| ACADAMIC YEAR | COURSE NAME | NUMBE STUDE | - | QUESTIC SET | PASS% | |
|------------------|----------------|----------------|--------|-------------------|----------|-------|
| 2022-23 | SOFTWARE | APPEARED | PASSED | INTERNAL | EXTERNAL | |
| | ENGINEERING | 65 | 51 | COURSE FACULTY | EXTERNAL | 78.4% |

SOFTWARE ENGINEERING (C312) Result Analysis





(An Autonomous Institution under UGC)

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

REMEDIAL CLASSES TIME TABLE

A.Y 2022-23

SEMESTER-I

| BRANCH/ SEC | MON 4.00 PM- 5.00 PM | TUE 4.00 PM-5.00 PM | WED 4.00 PM- 5.00 PM | THUR 4.00 PM- 5.00 PM | FRI 4.00 PM- 5.00 PM |
|----------------|----------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| II CSE-A | A&DE | DS | C++ | СОА | COSM |
| II CSE-B | DS | A&DE | COSM | C++ | COA |
| II CSE-C | COSM | СОА | A&DE | DS | C++ |
| III CSE-A | SE | FLAT | CN | WT | PPL |
| III CSE-B | WT | CN | SE | PPL | FLAT |
| III CSE-C | FLAT | WT | PPL | CN | SE |
| IVCSE-A | C&NS | DM | CC | POE | RTS |
| IV CSE-B | сс | RTS | C&NS | DM | POE |
| IV CSE-C | RTS | cc | POE | C&NS | DM |

HOD Computer Science & Engg. Dept. SRI INDU INSTITUTE OF ENGG & TECH. Shenguda(M, Brahimnatnam/M), R.R.Disi-501 10

PRINCIPAL Sri Indu Institute of Engineering & Teck Shenguda(Vill), Ibrehimpatham Dist Telangana -501 610



Department of Computer Science and Engineering

Course Outcome Attainment (Internal Examination-1)

| Name of the faculty S.Anitha | Academic Year: | 2022-23 |
|-------------------------------------|----------------|------------|
| Branch & Section: CSE-B | Examination: | I Internal |

| Cour | urse Name: Software Engineering | | | | | | | | Year: | | III | Semester: I | | | |
|------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-------------|-----|------|----|
| S.Nc | HT No. | Q1a | Q1b | Q1c | Q2a | Q2b | Q2C | Q3A | Q3b | Q3c | Q4a | Q4b | Q4c | Obj1 | A1 |
| Max | . Marks ==> | 5 | | | 5 | | | 5 | | | 5 | | | 10 | 5 |
| 1 | 20X31A0561 | 5 | | | | | | | | | 4 | | | 8 | 5 |
| 2 | 20X31A0562 | 2 | | | | | | 5 | | | | | | 9 | 5 |
| 3 | 20X31A0563 | | | | 5 | | | | | | 5 | | | 8 | 5 |
| 4 | 20X31A0564 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 5 | 20X31A0565 | | | | | | | 5 | | | 4 | | | 7 | 5 |
| 6 | 20X31A0566 | | | | | | | 5 | | | 4 | | | 8 | 5 |
| 7 | 20X31A0567 | | | | 5 | | | | | | 4 | | | 8 | 5 |
| 8 | 20X31A0568 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 9 | 20X31A0569 | | | | | | | 5 | | | 5 | | | 9 | 5 |
| 10 | 20X31A0570 | | | | | | | 4 | | | 5 | | | 9 | 5 |
| 11 | 20X31A0571 | | | | 5 | | | | | | 5 | | | 9 | 5 |
| 12 | 20X31A0572 | | | | 5 | | | | | | 4 | | | 8 | 5 |
| 13 | 20X31A0573 | 5 | | | | | | | | | 4 | | | 8 | 5 |
| 14 | 20X31A0574 | 4 | | | | | | 5 | | | | | | 9 | 5 |
| 15 | 20X31A0575 | | | | | | | 4 | | | 4 | | | 8 | 5 |
| 16 | 20X31A0576 | | | | | | | 4 | | | 4 | | | 7 | 5 |
| 17 | 20X31A0577 | | | | | | | 4 | | | 4 | | | 8 | 5 |
| 18 | 20X31A0578 | | | | | | | 4 | | | 4 | | | 9 | 5 |
| 19 | 20X31A0579 | | | | | | | 4 | | | 5 | | | 9 | 5 |
| 20 | 20X31A0580 | | | | | | | 5 | | | 2 | | | 7 | 5 |
| 21 | 20X31A0581 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 22 | 20X31A0582 | | | | | | | 3 | | | 4 | | | 8 | 5 |
| 23 | 20X31A0583 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 24 | 20X31A0584 | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 25 | 20X31A0585 | | | | | | | 2 | | | 4 | | | 8 | 5 |
| 26 | 20X31A0586 | | | | | | | 5 | | | 4 | | | 8 | 5 |
| 27 | 20X31A0587 | 4 | | | 4 | | | | | | | | | 8 | 5 |
| 28 | 20X31A0588 | 4 | | | | | | | | | 5 | | | 8 | 5 |
| 29 | 20X31A0589 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 30 | 20X31A0590 | 4 | | | | | | | | | 4 | | | AB | 5 |
| | 20X31A0591 | 4 | | | 3 | | | | | | | | | 8 | 5 |
| 32 | 20X31A0592 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 33 | 20X31A0593 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 34 | 20X31A0594 | | | | | | | 4 | | | 3 | | | 8 | 5 |
| 35 | 20X31A0595 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| | 20X31A0596 | | | | | | | | | | 4 | | | 9 | 5 |
| | 20X31A0597 | 5 | | | | | | | | | 5 | | | 9 | 5 |
| 38 | 20X31A0598 | | | | | | | 4 | | | 5 | | | 8 | 5 |
| | 20X31A0599 | | | | | | | 5 | | | 4 | | | 8 | 5 |

| 40 20X31A05A0 | | | | | | | 5 | | | 4 | | | 9 | 5 |
|-----------------------------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 41 20X31A05A1 | | | | | | | 4 | | | 4 | | | 8 | 5 |
| 42 20X31A05A2 | | | | | | | 3 | | | 2 | | | 7 | 5 |
| 43 20X31A05A3 | | | | | | | 4 | | | 5 | | | 8 | 5 |
| 44 20X31A05A4 | | | | | | | 4 | | | 5 | | | 8 | 5 |
| 45 20X31A05A5 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 46 20X31A05A6 | | | | | | | | | | | | | 8 | 5 |
| 47 20X31A05A7 | | | | 4 | | | | | | 5 | | | 7 | 5 |
| 48 20X31A05A8 | | | | | | | | | | 4 | | | 7 | 5 |
| 49 20X31A05A9 | | | | | | | 5 | | | 4 | | | 8 | 5 |
| 50 20X31A05B0 | | | | | | | 5 | | | 4 | | | 7 | 5 |
| 51 20X31A05B1 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 52 20X31A05B2 | | | | 5 | | | | | | | | | 9 | 5 |
| 53 20X31A05B3 | | | | | | | 5 | | | 5 | | | 8 | 5 |
| 54 20X31A05B4 | | | | 5 | | | | | | 5 | | | 8 | 5 |
| 55 20X31A05B5 | | | | | | | 5 | | | 4 | | | 7 | 5 |
| 56 20X31A05B6 | | | | | | | 4 | | | 4 | | | 7 | 5 |
| 57 20X31A05B7 | | | | | | | 4 | | | 5 | | | 9 | 5 |
| 58 20X31A05B8 | | | | | | | 5 | | | 5 | | | 9 | 5 |
| 59 20X31A05B9 | | | | | | | 5 | | | 4 | | | 8 | 5 |
| 60 20X31A05C0 | | | | | | | 4 | | | 4 | | | 8 | 5 |
| 61 21X35A0506 | 4 | | | | | | 4 | | | | | | 7 | 5 |
| 62 21X35A0507 | | | | | | | 4 | | | 4 | | | 8 | 5 |
| 63 21X35A0508 | | | | 4 | | | | | | 5 | | | 8 | 5 |
| 64 21X35A0509 | 4 | | | | | | | | | 4 | | | 7 | 5 |
| 65 21X35A0510 | 5 | | | | | | 4 | | | | | | 8 | 5 |
| 66 | | | | | | | | | | | | | | |
| 67 | | | | | | | | | | | | | | |
| 68 | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Target set by the | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 4.00 | 2.00 |
| faculty / HoD | | | | | | | | | | | | | | |
| Number of | 45 | | | | | • | | | | 60 | • | • | | 6.0 |
| students performed above | 15 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 60 | 0 | 0 | 63 | 63 |
| | | | | | | | | | | | | | | |
| Number of | 45 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 60 | 0 | 0 | 62 | 62 |
| students | 15 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 60 | 0 | 0 | 63 | 63 |
| attempted | | | | | | | | | | | | | | |
| Percentage of | 1000 | | | | | | 0001 | | | 1000/ | | | 1000 | 1000 |
| students scored | 100% | | | | | | 89% | | | 100% | | | 100% | 100% |
| more than target | | | | | | | | | | | | | | |

CO Mapping with Exam Questions:

| | CO - 1 | Y | | Y | Y | | | | | у | у |
|---|--------|---|--|---|---|---|---|--|--|---|---|
| ĺ | CO - 2 | | | | | Y | Y | | | у | у |

| CO - 3 | | | | | Y | | У | у |
|--------|--|--|--|--|---|--|---|---|
| CO - 4 | | | | | | | | |
| CO - 5 | | | | | | | | |
| CO - 6 | | | | | | | | |

CO Attainment based on Exam Ouestions:

| CO - 1 | 100% | | | | | | | 100% | 100% |
|--------|------|--|--|-----|--|------|--|------|------|
| CO - 2 | | | | 89% | | | | 100% | 100% |
| CO - 3 | | | | | | 100% | | 100% | 100% |
| CO - 4 | | | | | | | | | |
| CO - 5 | | | | | | | | | |
| CO - 6 | | | | | | | | | |

| CO | Subj | obj | | Asgn | Overall | Level |
|------|------|------|-----|------|---------|-------|
| CO-1 | 100% | 100% | | 100% | 100% | 3.00 |
| CO-2 | 89% | 100% | | 100% | 96% | 3.00 |
| CO-3 | 100% | 100% | | 100% | 100% | 3.00 |
| CO-4 | | | | | | |
| CO-5 | | | | | | |
| CO-6 | | | | | | |
| A • | | | 1 4 | Г | • .• . | • • • |

| Attair | Attainment Level | | | | | |
|--------|------------------|--|--|--|--|--|
| 1 | 40% | | | | | |
| 2 | 50% | | | | | |
| 3 | 60% | | | | | |

Attainment (Internal 1 Examination) = **3.00**

THE PROPERTY OF THE PROPERTY O

Department of Computer Science and Engineering Course Outcome Attainment (Internal Examination-2)

Name of the faculty: S.Anitha Branch & Section: CSE- B Academic Year: Examination: **2022-23** II Internal

Course Name: Software Engineering

Year: III

Semester: I

| S.No | HT No. | Q1a | Q1b | Q1c | Q2a | Q2b | Q2c | Q3a | Q3b | Q3c | Q4a | Q4b | Q4c | Obj4 | A4 |
|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|
| Max | . Marks ==> | 5 | | | 5 | | | 5 | | | 5 | | | 10 | 5 |
| 1 | 20X31A0561 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 2 | 20X31A0562 | 5 | | | 4 | | | | | | | | | 9 | 5 |
| 3 | 20X31A0563 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 4 | 20X31A0564 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 5 | 20X31A0565 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 6 | 20X31A0566 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 7 | 20X31A0567 | 4 | | | 5 | | | | | | | | | 8 | 5 |
| 8 | 20X31A0568 | | | | 5 | | | 5 | | | | | | 9 | 5 |
| 9 | 20X31A0569 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 10 | 20X31A0570 | 4 | | | 5 | | | | | | | | | 9 | 5 |
| 11 | 20X31A0571 | 5 | | | 5 | | | | | | | | | 7 | 5 |
| 12 | 20X31A0572 | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 13 | 20X31A0573 | 4 | | | | | | 4 | | | | | | 8 | 5 |
| 14 | 20X31A0574 | 5 | | | 4 | | | | | | | | | 9 | 5 |
| 15 | 20X31A0575 | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 16 | 20X31A0576 | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 17 | 20X31A0577 | 4 | | | 5 | | | | | | | | | 9 | 5 |
| 18 | 20X31A0578 | 4 | | | 4 | | | | | | | | | 9 | 5 |
| 19 | 20X31A0579 | 4 | | | 4 | | | | | | | | | 8 | 5 |
| 20 | 20X31A0580 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 21 | 20X31A0581 | | | | 5 | | | 2 | | | | | | 9 | 5 |
| 22 | 20X31A0582 | 3 | | | 5 | | | | | | | | | 8 | 5 |
| 23 | 20X31A0583 | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 24 | 20X31A0584 | 4 | | | 4 | | | | | | | | | 8 | 5 |
| 25 | 20X31A0585 | | | | 4 | | | 4 | | | | | | 7 | 5 |
| 26 | 20X31A0586 | | | | 4 | | | 4 | | | | | | 9 | 5 |
| 27 | 20X31A0587 | 5 | | | | | | 4 | | | | | | 9 | 5 |
| 28 | 20X31A0588 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 29 | 20X31A0589 | 4 | | | | | | 4 | | | | | | 8 | 5 |
| 30 | 20X31A0590 | | | | 5 | | | 3 | | | | | | 7 | 5 |
| 31 | 20X31A0591 | 4 | | | 4 | | | | | | | | | 8 | 5 |
| 32 | 20X31A0592 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 33 | 20X31A0593 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 34 | 20X31A0594 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 35 | 20X31A0595 | 4 | | | 4 | | | | | | | | | 8 | 5 |
| 36 | 20X31A0596 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 37 | 20X31A0597 | 4 | | | 5 | | | | | | | | | 9 | 5 |
| 38 | 20X31A0598 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 39 | 20X31A0599 | 5 | | | 5 | | | | | | | | | 7 | 5 |
| | 20X31A05A0 | 5 | | | 4 | | | | | | | | | 7 | 5 |
| | 20X31A05A1 | | | | 4 | | | 4 | | | | | | 8 | 5 |
| | 20X31A05A2 | 5 | | | | | | | | | | | | 7 | 5 |
| | 20X31A05A3 | 4 | | | 5 | | | | | | | | | 8 | 5 |

| 44 | 20X31A05A4 | 5 | | | 5 | | | | | | | | | 8 | 5 |
|----------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 45 | | 5 | | | 4 | | | | | | | | | 8 | 5 |
| 46 | 20X31A05A6 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 47 | | 5 | | | 4 | | | | | | | | | 7 | 5 |
| 48 | 20X31A05A8 | | | | 4 | | | 4 | | | | | | 8 | 5 |
| | 20X31A05A9 | 4 | | | 5 | | | | | | | | | 7 | 5 |
| | 20X31A05B0 | 4 | | | 5 | | | | | | | | | 8 | 5 |
| 51 | 20X31A05B1 | 5 | | | 5 | | | | | | | | | 9 | 5 |
| 52 | 20X31A05B2 | 5 | | | 5 | | | | | | | | | 8 | 5 |
| 53 | 20X31A05B3 | | | | 5 | | | 5 | | | | | | 8 | 5 |
| 54 | 20X31A05B4 | 5 | | | | | | 4 | | | | | | 7 | 5 |
| 55 | 20X31A05B5 | 4 | | | | | | 3 | | | | | | 8 | 5 |
| 56 | 20X31A05B6 | 4 | | | 4 | | | | | | | | | 7 | 5 |
| 57 | 20X31A05B7 | 5 | | | | | | 4 | | | | | | 9 | 5 |
| 58 | 20X31A05B8 | | | | 4 | | | 4 | | | | | | 7 | 5 |
| 59 | 20X31A05B9 | | | | 5 | | | 4 | | | | | | 8 | 5 |
| 60 | 20X31A05C0 | | | | 4 | | | 4 | | | | | | 9 | 5 |
| 61 | 21105010500 | 4 | | | 4 | | | | | | | | | 9 | 5 |
| 62 | | 4 | | | 4 | | | | | | | | | 7 | 5 |
| 63 | 21X35A0508 | | | | 4 | | | 4 | | | | | | 8 | 5 |
| 64 | 21X35A0509 | 4 | | | 4 | | | | | | | | | 7 | 5 |
| 65 | 21X35A0510 | | | | 5 | | | 4 | | | | | | 8 | 5 |
| 66 | | | | | | | | | | | | | | | |
| 67 68 | | | | | | | | | | | | | | | |
| 69 | | | | | | | | | | | | | | | |
| 70 | | | | | | | | | | | | | | | |
| 71 | | | | | | | | | | | | | | | |
| 72 | | | | | | | | | | | | | | | |
| 73 | | | | | | | | | | | | | | | |
| | et set by the ty / HoD | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 2.00 | 0.00 | 0.00 | 4.00 | 2.00 |
| | uber of students ormed above the ot | 21 | 0 | 0 | 5 | 0 | 0 | 41 | 0 | 0 | 51 | 0 | 0 | 63 | 63 |
| atter | uber of students npted | 22 | 0 | 0 | 5 | 0 | 0 | 41 | 0 | 0 | 51 | 0 | 0 | 63 | 63 |
| stud | entage of ents scored e than target | 95% | | | 100% | | | 100% | | | 100% | | | 100% | 100% |

CO Mapping with Exam Questions:

| | CO - 1 | | | | | | | | | | |
|---|--------|---|--|---|--|---|--|---|--|---|---|
| ĺ | CO - 2 | | | | | | | | | | |
| | CO - 3 | | | | | | | | | | |
| Ī | CO - 4 | Y | | | | | | | | У | У |
| | CO - 5 | | | Y | | | | | | У | у |
| | CO - 6 | | | | | Y | | Y | | У | У |

| Students Scored >Target % | 95% | | 100% | 100% | 100% | | 100% 100% |
|------------------------------|-------------|--------------|------|-------------|-------|--------|------------------|
| Attainment base | d on Exa | am Questic | ons: | | | | |
| CO - 1 | | | | | | | |
| CO - 2 | | | | | | | |
| CO - 3 | | | | | | | |
| CO - 4 | 95% | | | | | | 100% 100% |
| CO - 5 | | | 100% | | | | 100% 100% |
| CO - 6 | | | | 100% | 100% | | 100% 100% |
| | | | | | | | |
| со | Subj | obj | Asgn | Overall | Level | Attair | nment Level |
| CO-1 | | | | | | 1 | 40% |
| 00 1 | | | | | | 1 | 4 070 |
| CO-2 | | | | | | 2 | 50% |
| | | | | | | 2 3 | |
| CO-2 | 95% | 100% | 100% | 98% | 3 | | 50% |
| CO-2 CO-3 | 95% 100% | 100% 100% | 100% | 98% 100% | 3 3 | | 50% |
| CO-2 CO-3 CO-4 | | | | | - | | 50% |

Department of Computer Science and Engineering

21 37 63

 Course Outcome Attainment (University Examinations)

 of the faculty : S.ANITHA

| Name | e of the | e faculty : | S.ANITHA | |
|-------|----------|-------------|----------|--|
| Branc | ch & S | ection: | CSE- B | |
| a | ЪT | C C | . | |

| Academic | Year: | 2022-23 |
|------------|---------|---------|
| Year / Sen | nester: | III/I |

Course Name: Software Engineering

| S.No | Name: Softwa Roll Number | Marks Secured |
|-------|-----------------------------|-------------------------|
| 1 | 20X31A0561 | 26 |
| 2 | 20X31A0562 | 26 |
| 3 | 20X31A0563 | 34 |
| 4 | 20X31A0564 | 39 |
| 5 | 20X31A0565 | 27 |
| 6 | 20X31A0566 | 29 |
| 7 | 20X31A0567 | 32 |
| 8 | 20X31A0568 | 28 |
| 9 | 20X31A0569 | 26 |
| 10 | 20X31A0570 | 35 |
| 11 | 20X31A0570 | 33 |
| 12 | 20X31A0572 | 27 |
| 13 | 20X31A0572 | 38 |
| 14 | 20X31A0574 | 26 |
| 15 | 20X31A0575 | 14 |
| 16 | 20X31A0576 | 16 |
| 17 | 20X31A0577 | 39 |
| 18 | 20X31A0578 | 37 |
| 19 | 20X31A0579 | 26 |
| 20 | 20X31A0580 | 5 |
| 21 | 20X31A0581 | 26 |
| 22 | 20X31A0582 | 1 |
| 23 | 20X31A0583 | 45 |
| 24 | 20X31A0584 | 27 |
| 25 | 20X31A0585 | 7 |
| 26 | 20X31A0586 | 27 |
| 27 | 20X31A0587 | 14 |
| 28 | 20X31A0588 | 35 |
| 29 | 20X31A0589 | 26 |
| 30 | 20X31A0590 | 41 |
| 31 | | |
| 32 | 20X31A0591 | 15 |
| 33 | 20X31A0592 | 33 |
| 33 | 20X31A0593 | 46 |
| 35 | 20X31A0594 | 26 |
| | 20X31A0595 | 17 |
| lax M | arks verage mark | 75 |
| | | formed above the target |
| | r of successful st | - |
| mbe | of successful st | uuents |

| S.No | Roll Number | Marks Secured |
|------|-------------|---------------|
| 36 | 20X31A0596 | 34 |
| 37 | 20X31A0597 | 36 |
| 38 | 20X31A0598 | 31 |
| 39 | 20X31A0599 | 18 |
| 40 | 20X31A05A0 | 29 |
| 41 | 20X31A05A1 | 16 |
| 42 | 20X31A05A2 | 3 |
| 43 | 20X31A05A3 | 31 |
| 44 | 20X31A05A4 | 39 |
| 45 | 20X31A05A5 | 30 |
| 46 | 20X31A05A6 | 6 |
| 47 | 20X31A05A7 | 26 |
| 48 | 20X31A05A8 | 27 |
| 49 | 20X31A05A9 | 14 |
| 50 | 20X31A05B0 | 42 |
| 51 | 20X31A05B1 | 43 |
| 52 | 20X31A05B2 | 44 |
| 53 | 20X31A05B3 | 27 |
| 54 | 20X31A05B4 | 39 |
| 55 | 20X31A05B5 | 40 |
| 56 | 20X31A05B6 | 31 |
| 57 | 20X31A05B7 | 26 |
| 58 | 20X31A05B8 | 45 |
| 59 | 20X31A05B9 | 27 |
| 60 | 20X31A05C0 | 35 |
| 61 | 21X35A0506 | 13 |
| 62 | 21X35A0507 | 26 |
| 63 | 21X35A0508 | 41 |
| 64 | 21X35A0509 | 26 |
| 65 | 21X35A0510 | 30 |
| 66 | | |
| 67 | | |
| 68 | | |
| 69 | | |
| 70 | | |

| Attainment Level | % students |
|------------------|------------|
| 1 | 40% |
| 2 | 50% |

| Percentage of students scored more than target | 59% |
|--|-----|
| Attainment level | 2 |

| 3 | 60% |
|---|-----|
|---|-----|

Department of Computer Science and Engineering Course Outcome Attainment

Name of the faculty :S.Anitha Branch & Section: CSE- B

Course Name: Software Engineering Academic Year 2022-23 Examination: I Internal

Year: III Semester: I

| Course Outcomes | 1st Internal Exam | 2nd Internal Exam | Internal Exam | University Exam | Attainment Level |
|------------------|----------------------|----------------------|------------------|--------------------|------------------|
| C01 | 3.00 | | 3.00 | 2.00 | 2.25 |
| CO2 | 3.00 | | 3.00 | 2.00 | 2.25 |
| СО3 | 3.00 | | 3.00 | 2.00 | 2.25 |
| CO4 | | 3.00 | 3.00 | 2.00 | 2.25 |
| CO5 | | 3.00 | 3.00 | 2.00 | 2.25 |
| CO6 | | 3.00 | 3.00 | 2.00 | 2.25 |
| | Internal & Unive | ersity Attainment: | 3.00 | 2.00 | |
| | | 25% | 75% | | |
| CO Attainment fo | r the course (Inter | 0.75 | 1.50 | 1 | |
| CO Attainment | for the course (Di | | 2.25 |] | |

Overall course attainment level

2.25

Department of Computer Science and Engineering

Program Outcome Attainment (from Course)

Name of Faculty:S.ANITHAAcademic Year:Branch & Section:CSE- BYear:

2022-23

Ш

Course Name: SoftwareEngineering

Semester: I

CO-PO mapping

| PO/PSO/ CO | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------------|-----|-----|-----|-----|-----|-----|------------|-----|-----|------|------|------|------|------|
| C312.1 | 3 | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - |
| C312.2 | 3 | 2 | - | - | | - | - | - | - | - | - | 3 | - | - |
| C312.3 | 3 | - | 2 | - | - | - | - | - | - | - | - | 3 | - | - |
| C312.4 | 3 | - | - | - | 1 | - | - | - | - | - | - | 3 | 1 | - |
| C312.5 | 2 | - | - | - | 1 | - | - | - | - | - | - | 3 | 2 | 2 |
| C312.6 | 3 | 2 | - | - | - | - | - | - | - | - | - | 3 | 1 | - |
| C313 | 2.8 | 2 | 1.7 | - | 2 | - | - | - | - | - | - | 2.8 | - | - |

| со | Cours | e Outcome Attainme | nt |
|---------|-------------------------|--------------------|-----|
| | | 2.25 | |
| CO1 | | | |
| 602 | | 2.25 | |
| CO2 | | 2.25 | |
| CO3 | | 2.20 | |
| CO4 | | 2.25 | |
| | | 2.25 | |
| CO5 | | | |
| CO6 | | 2.25 | |
| Overall | course attainment level | 2 | .25 |

PO-ATTAINMENT

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|----------------|------|------|------|------|-----|-----|-----|-----|-----|------|------|------|
| CO Attainme | | 1 20 | 1.05 | 1 50 | | | | | | | | 1 50 |
| nt | 2.10 | 1.20 | 1.95 | 1.50 | | | | | | | | 1.50 |

CO contribution to PO - 33%, 67%, 100% (Level 1/2/3)



Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956 (Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad) Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510 Website: https://siiet.ac.in/

ASSIGNMENTS & ATTENDANCE REGISTER LINK

Assignment-1 Script link:

https://drive.google.com/file/d/11mPPWmO9SVbipnvxEmuOaFtBd404oTaT/view?usp=drivesdk

Assignment-2 Script link:

https://drive.google.com/file/d/11j5JPMOqUuA_m180L0V0rMTTH5JhFVDy/view?usp=drivesdk

ATTENDANCE REGISTER LINK:

https://drive.google.com/file/d/13ietoEG59S71dgfwPJsWjMMbEBW8Qtiw/view?usp=drivesdk