ACADEMIC CURRICULA

UNDERGRADUATE INTEGRATED POST GRADUATE DEGREE PROGRAMMES

(With exit option of Diploma)

(Choice Based Flexible Credit System)

Regulations 2021

Volume - 1

(Revised on July 2024)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)
Kattankulathur, Chengalpattu District 603203,
Tamil Nadu, India



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India

29. B.Tech. in Computer Science and Engineering with Specialization in Software Engineering

29. (a) Mission of the Department

| Mission Stmt – 1 | To impart knowledge in cutting edge Computer Science and Engineering technologies in par with industrial standards. |
|------------------|--|
| Mission Stmt – 2 | To collaborate with renowned academic institutions to uplift innovative research and development in Computer Science and Engineering and its allied fields to serve the needs of society |
| Mission Stmt - 3 | To demonstrate strong communication skills and possess the ability to design computing systems individually as well as part of a multidisciplinary teams. |
| Mission Stmt – 4 | To instill societal, safety, cultural, environmental, and ethical responsibilities in all professional activities |
| Mission Stmt – 5 | To thrive students with profound technical knowledge, problem solving, and leadership skills essential to generate novel software technologies to empower individuals, organizations, and the society. |

29. (b) Program Educational Objectives (PEO)

| PEO – 1 | Graduates will be able to perform in technical/managerial roles ranging from design, development, problem solving to production support in software industries and R&D sectors. |
|---------|---|
| PEO – 2 | Graduates will be able to successfully pursue higher education in reputed institutions. |
| PEO – 3 | Graduates will have the ability to adapt, contribute and innovate new technologies and systems in the key domains of Computer Science and Engineering. |
| PEO – 4 | Graduates will be ethically and socially responsible solution providers and entrepreneurs in Computer Science and other engineering disciplines. |
| PEO – 5 | Graduates will be equipped with knowledge in the field of software engineering including scientific principles, analysis techniques, design methodologies, build and maintain secured software system to meet the demands and challenges of the growing software industry |

29. (c) Mission of the Department to Program Educational Objectives (PEO) Mapping

| | Mission Stmt 1 | Mission Stmt 2 | Mission Stmt 3 | Mission Stmt 4 | Mission Stmt 5 |
|---------|----------------|----------------|----------------|----------------|----------------|
| PEO - 1 | 3 | | W. Filliam | April 12 | 1 |
| PEO - 2 | | 21 March 2012 | 2 | | - |
| PEO - 3 | | 3 | 3 | | |
| PEO - 4 | - C-0,0 | # 1 (V) T | N Y TOWN | 2 | 3 |
| PEO - 5 | 2 7 | 41.0 | No. of Street, | 3 | 3 |

^{3 -} High Correlation, 2 - Medium Correlation, 1 - Low Correlation

29. (d) Mapping Program Educational Objectives (PEO) to Program Outcomes (PO)

| | 1 | , | | | Pro | gram Out | tcomes (| PO) | | | | 1 | Prog | cific | | |
|---------|--------------------------|------------------|---------------------------------|--|-------------------|--------------------------|---------------------------------|--------|---------------------------|---------------|------------------------|--------------------|-------|----------------|-------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | - 8 | 9 | 10 | -11 | 12 | Outo | Outcomes (PSO) | | |
| | Engineering Knowledge | Problem Analysis | Design/development of solutions | Conduct investigations of complex problems | Modern Tool Usage | The engineer and society | Environment & Sustainability | Ethics | Individual & Team Work | Communication | Project Mgt. & Finance | Life Long Learning | PSO-1 | PSO-2 | PSO-3 | |
| PEO - 1 | 3 | | | 1 | 1 | 2 | ı | 3 | 2 | 3 | 49" | - | - | - | 2 | |
| PEO - 2 | - | 2 | 2 | • | 3 | - | 3 | 2 | | | - | - | 2 | - | - | |
| PEO - 3 | - | 3 | 3 | 2 | | 1 | | | - | 2 | - | 3 | - | 2 | - | |
| PEO - 4 | - | 2 | 3 | - | - | 3 | 2 | - | 2 | - | 2 | 2 | - | 2 | - | |
| PEO - 5 | - | - | 3 | - | 1 | 3 | 1 | - | 3 | 3 | 3 | 3 | - | - | 3 | |

^{3 –} High Correlation, 2 – Medium Correlation, 1 – Low Correlation

PSO - Program Specific Outcomes (PSO)

| PSO - 1 | To understand, analyze, design, and develop computing solutions by applying fundamental concepts of computer science and engineering. |
|---------|---|
| PSO - 2 | To apply computing principles, skills and practices to develop solutions using logical and reasoning skills, for real life problems. |
| PSO - 3 | To design and develop solutions by following standard software engineering principles and implement by using suitable programming languages and platforms |

29. (e) Program Structure: B.Tech. in Computer Science and Engineering with Specialization in Software Engineering

| Humanities & Social Sciences | | | | | | | Basic Science Courses (B) | | | | | | | |
|---|--|---|---|--------------------------------------|----------------------------|---|--|--|---|--|--------------------------------------|--|--|--|
| | including Management Courses (H) | | | | | Course | Course | Н | ours | 1 | | | | |
| Course | Course | | ours | | | Code | Title | ٧ | Veek | | | | | |
| Code | Title | V | Vee | | | Code | | L | Τ | Р | С | | | |
| | | L | Τ | Р | С | 21PYB102J | Semiconductor Physics and | 3 | 1 | 2 | 5 | | | |
| | Communicative English | 2 | 1 | 0 | 3 | | Computational Methods | | | | _ | | | |
| | Chinese | | | | | | Chemistry | 3 | 1 | 2 | 5 | | | |
| | French | | | | | | Calculus and Linear Algebra | 3 | 1 | 0 | 4 | | | |
| | German | | | | | 21MAB102T | Advanced Calculus and Complex | 3 | 1 | 0 | 4 | | | |
| | Japanese | 2 | 1 | 0 | 3 | | Analysis | Ľ | Ĺ | | _ | | | |
| | Korean | | | | | 21MAB201T | Transforms and Boundary Value | 3 | 1 | 0 | 4 | | | |
| | Spanish | | | | | | Problems | Ĭ | | | | | | |
| | Russian | | | | | | Probability and Queueing Theory | 3 | 1 | 0 | 4 | | | |
| | Philosophy of Engineering | 1 | 0 | 2 | 2 | | Discrete Mathematics | 3 | 1 | 0 | 4 | | | |
| | Social Engineering | 2 | 0 | 0 | 2 | 21BTB102T | Introduction to Computational Biology | 2 | 0 | 0 | 2 | | | |
| 21GNH401T | Behavioral Psychology | 2 | 1 | 0 | 3 | | Ti | otal | Crec | lits | 32 | | | |
| | T | otal | Cre | dits | 13 | | | | | | | | | |
| | Engineering Science Courses (S) | | | | | | Professional Core Courses (C) | | | | | | | |
| Course | Course | Н | ours | s / | | Course | Course | Н | ours | / | | | | |
| Course Code | Title | V | Vee | | | Course | Title | ٧ | Veek | _ | | | | |
| | | L | Τ | Р | С | | | L | Т | Р | С | | | |
| | Basic Civil and Mechanical Workshop | 0 | 0 | 4 | 2 | | Object Oriented Design and Programming | | 1 | 0 | 3 | | | |
| 21MES102L 1 | Engineering Graphics and Design | 0 | 0 | 4 | 2 | | Data Structures and Algorithms | 3 | 0 | 2 | 4 | | | |
| 21EES101T | Electrical and Electronics Engineering | 3 | 1 | 0 | 4 | | Operating Systems | 3 | 0 | 2 | 4 | | | |
| 21CSS101J | Programming for Problem Solving | 3 | 0 | 2 | 4 | 21CSC203P 1 | Advanced Programming Practice | 3 | 1 | 0 | 4 | | | |
| 21CSS201T | Computer Organization and Architecture | 3 | 1 | 0 | 4 | 21CSC204J | Design and Analysis of Algorithms | 3 | 0 | 2 | 4 | | | |
| 21DCS201P 1 | Design Thinking and Methodology | 1 | 2 | 0 | 3 | 21CSC205P 1 | Database Management Systems | 3 | 1 | 0 | 4 | | | |
| 21CSS303T | Data Science | 2 | 0 | 0 | 2 | 21CSC206T | Artificial Intelligence | 2 | 1 | 0 | 3 | | | |
| | T | otal | Cre | dits | 21 | | Formal Language and Automata | 3 | 0 | 0 | 3 | | | |
| | Non Credit Courses (M) | | - | | | 21CSC302J | Computer Networks | 3 | 0 | 2 | 4 | | | |
| | Non Credit Courses (M) | П | our | <u> </u> | | 240002024 | Software Engineering and Project | 2 | 0 | 2 | 2 | | | |
| Course | Course | | Nee | | | Management | | 2 | 0 | 2 | 3 | | | |
| Code | Title | - | T | P | С | 21CSC304J | Compiler Design | 2 | 0 | 2 | 3 | | | |
| 21DDM101L1 | Professional Skills and Practices | 0 | 0 | 2 | U | 21CSC309J | Software Architecture and Design | 2 | 0 | 2 | 3 | | | |
| | General Aptitude | 0 | 0 | 2 | | 21CSC403T | Software Measurements and Metrics | 3 | 0 | 0 | 3 | | | |
| | Deneral Aplitude | 10 | | | | 040004047 | Software Verification and Validation | | ^ | 0 | 3 | | | |
| | | Ω | \cap | 7 | | 21CSC404T | Software verification and validation | 3 | 0 | | 40 | | | |
| 21PDM201L 1 | Verbal Reasoning | 0 | 0 | 2 | 0 | 210304041 | | | Crec | lits | 48 | | | |
| 21PDM201L ¹ 21PDM202L ¹ | Verbal Reasoning Critical and Creative Thinking Skills | 0 | 0 | 2 | 0 | | To | otal | Cred | | | | | |
| 21PDM201L ¹ 21PDM202L ¹ 21PDM301L ¹ | Verbal Reasoning Critical and Creative Thinking Skills Analytical and Logical Thinking Skills | 0 | 0 | 2 | 0 | | rk, Seminar, Internship in Industry / Higl | otal | Cred | | | | | |
| 21PDM201L ¹ 21PDM202L ¹ 21PDM301L ¹ 21PDM302L ¹ | Verbal Reasoning Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Employability Skills and Practices | 0 0 0 | 0 0 0 | 2 2 2 | | | To | otal ner 1 | Crec | nica | | | | |
| 21PDM201L ¹ 21PDM202L ¹ 21PDM301L ¹ 21PDM302L ¹ 21CYM101T ¹ | Verbal Reasoning Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Employability Skills and Practices Environmental Science | 0 0 0 1 | 0 0 0 0 | 2 2 2 0 | 0 | Project Wo | rk, Seminar, Internship in Industry / Higl Institutions (P) | ner 1 | ech | nica | | | | |
| 21PDM201L ¹ 21PDM202L ¹ 21PDM301L ¹ 21PDM302L ¹ 21CYM101T ¹ 21LEM101T ¹ | Verbal Reasoning Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Employability Skills and Practices Environmental Science Constitution of India | 0 0 0 1 1 | 0 0 0 0 | 2 2 2 0 0 | 0 | Project Wo | rk, Seminar, Internship in Industry / High Institutions (P) | ner 1 | Cred ech | nica | al | | | |
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| 21PDM201L ¹ 21PDM202L ¹ 21PDM301L ¹ 21PDM302L ¹ 21CYM101T ¹ 21LEM101T ¹ 21LEM102T ¹ | Verbal Reasoning Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Employability Skills and Practices Environmental Science Constitution of India Universal Human Values – Introduction Professional Ethics | 0 0 0 1 1 | 0 0 0 0 | 2 2 2 0 0 | 0 | Project Wo Course Code 21GNP301L | rk, Seminar, Internship in Industry / High Institutions (P) Course Title Community Connect | Hor W | ech urs / | nica | al | | | |
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| | Professional Elective Courses (E) (Any 6 Courses) | Professional Elective Courses (E) | | | | | | | | | |
|------------------------|---|-----------------------------------|-------------|---|---|-------------|--|-------|-------------|------|---|
| Course | Course | | ours Vee | | | Course | Course | - 1 | ours Vee | | |
| Code | Title | L | Т | Р | С | Code | Title | L | Т | Р | С |
| 21CSE271T | Programming in Java | 2 | 1 | 0 | 3 | 21CSE392T | Python for Software Engineering | 3 | 0 | 0 | 3 |
| 21CSE275T | Requirements Engineering | 3 | 0 | 0 | 3 | 21CSE393T | Analysis of Software Artifacts | 3 | 0 | 0 | 3 |
| 21CSE276T | Software Quality Management | 3 | 0 | 0 | 3 | 21CSE396T | Design Principles of Smart Space | 3 | 0 | 0 | 2 |
| 21CSE277T | Software Process | 3 | 3 0 0 3 | | 3 | | Management | 3 | U | U | J |
| 21CSE312P ¹ | Software Engineering in Artificial | 2 | 1 | 0 | 2 | 21CSE421T | Business Intelligence and Analytics | 2 | 1 | 0 | 3 |
| ZICSESIZF · | Intelligence | 2 | 1 | U | J | 21CSE493T | Software Security | 3 | 0 | 0 | 3 |
| 21CSE326T | Artificial Neural Networks | 3 | 0 | 0 | 3 | 21CSE457T | Service Oriented Architecture | 2 | 1 | 0 | 3 |
| 21CSE355T | Data Mining and Analytics | 2 | 1 | 0 | 3 | 21CSE495T | Artificial Intelligence in Agile Systems | 3 | 0 | 0 | 3 |
| 21CSE391P 1 | User Interface Design | 2 | 1 | 0 | 3 | 21CSE496T 2 | Deep Learning | 3 | 0 | 0 | 3 |
| 21CSE392P 1 | Visual Programming | 2 | 1 | 0 | 3 | 21CSE497T | Gaming and Virtual Reality | 3 | 0 | 0 | 3 |
| 21CSE393P 1 | Machine Learning Techniques | 2 | 1 | 0 | 3 | | Smartphone Computing and its | 3 | ٥ | 0 | 3 |
| 771 - 51 - 307 1 | Object Oriented Software Engineering | 3 | 0 | 0 | 3 | 2103E4901 | Applications | Total | Cre | dits | Ŭ |



29. (f) Programme Articulation: B.Tech. in Computer Science and Engineering with Specialization in Software Engineering

| | | | | | P | rogra | m Ou | tcome | s (PO |)) | | | | | PSO | |
|----------------|--|-----------------------|------------------|---------------------------------|--|-------------------|--------------------------|------------------------------|----------|------------------------|---------------|------------------------|--------------------|------------|-------|-------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 1 | 2 | 3 |
| Course Code | Course Name | Engineering Knowledge | Problem Analysis | Design/development of solutions | Conduct investigations of complex problems | Modern Tool Usage | The engineer and society | Environment & Sustainability | Ethics | Individual & Team Work | Communication | Project Mgt. & Finance | Life Long Learning | PSO-1 | PSO-2 | PSO-3 |
| 21CSS101J | Programming for Problem Solving | 2 | 3 | - | | - | - | | | - | - | - | 2 | - | 3 | - |
| 21CSS303T | Data Science | - | - | - | - | - | - | | | - | - | - | - | 1 | 1 | - |
| | Computer Organization and Architecture | 3 | 2 | - | | - | - | - | | - 44 | - | - | - | 1 | 2 | 1 |
| | Data Structures and Algorithms | 2 | 3 | 3 | 1 | - | | - | - | | | | - | 1 | 1 | 2 |
| | Object Oriented Design and Programming | - | 2 | _ 2 | - | 2 | 7. | 4 | - | - | | ٠ | 3 | - | 2 | 2 |
| | Design and Analysis of Algorithms | 2 | 1 | 2 | 1 | | W | | 1 | - | 3 | | 3 | 3 | 1 | - |
| | Operating Systems | 3 | 3 | 3 | 2 | _ | - | 4 | | _ | - | ٠ | 3 | 2 | - | - |
| | Software Engineering and Project | U | | | _ | | | | | - | | | | | | |
| | Management | - | 3 | 2 | - | - | - | 1 | | 2 | A. | 2 | | 3 | - | - |
| | Advanced Programming Practice | 3 | 2 | 2 | 1 | 2 | - | _ | L | 1 | | | | 2 | _ | _ |
| | Formal Language and Automata | 2 | 2 | 2 | | - | _ | _ | | - | T | A | - | - | 3 | - |
| | Computer Networks | 3 | - | | 2 | - 3 | _ | _ | _ | _ | 7 | - | _ | 1 | - | - |
| | Database Management Systems | 3 | - 2 | 2 | - | - | - | _ | _ | | - | _ | ٦. | 2 | 1 | - |
| 210302031 | Compiler Design | 3 | 3 | 2 | 3 | 2 | | - | - | - | - | Ü | 4 | - | 1 | - |
| | Artificial Intelligence | 1 | 2 | 3 | - | | 452.5 | | - | _ | | | | 1 | 2 | |
| | Software Architecture and Design | 2 | 3 | - | 3 | 3 | | | | - | | | ÷ | 1 | 2 | 3 |
| | | 3 | 3 | 2 | - | 3 | - | | | - 1 | | 2 | _ | 2 | - | 3 |
| | Software Measurements and Metrics | 3 | 3 | | _ | 3 | _ | | | _ | | | 1 | | | |
| | Software Verification and Validation | 3 | 3 | E. | 3 | 1 | - 1 | - | -7 | d ar | - | - | | - | 2 | 3 |
| | Requirements Engineering | | | - | | _ | | | | 1 | - | - | | 5 - | 1 | 3 |
| | Software Quality Management | 3 | 2 | 2 | - | HT. | - 30 | 17.6 | 7 | - | - | - | - | ! - | 2 | 3 |
| | Software Process | 3 - | | | 2 | - | | 100 | | 2 | - | - | - | - | 2 | 3 |
| | Programming in Java | 3 | 2 | 1 | 2 | - | <u> </u> | - | | - | - | - | _ 1 | 3 | 2 | - |
| | User Interface Design | - | 44 | 3 | L | 2 | | | - | 2 | - | 3 | - | - | 2 | 3 |
| | Visual Programming | - | - | 3 | - | 2 | 130 | | | 2 | - | 3 | - | ė - | 2 | 3 |
| | Machine Learning Techniques | - | 3 | 1 | - 1 | 3 | | - | - | 2 | - | 3 | | - | 3 | 2 |
| | Software Engineering in Artificial Intelligence | - | 3 | 3 | - | 3 | - | - | - | - | - | - | - 1 | 2 | 2 | 3 |
| | Object Oriented Software Engineering | 3 | 3 | 3 | - | | - | - | - | - | - | - | - | | 2 | 3 |
| | Python for Software Engineering | 1 | - | 3 | 3 | 3 | - | - | - | - | 7 - | 2 | - | - | 2 | 3 |
| | Analysis of Software Artifacts | - | 3 | Lŧ. | 2 | 2 | - | - | - | | | <u> </u> | ٠. | - | 1 | 3 |
| | Artificial Neural Networks | - | ' | 190 | - | - | - | - | - | £., | J. T. | <i>(</i> | - | 2 | 2 | 2 |
| | Data Mining and Analytics | 1 | 2 | 4-1 | 3, 4 | 3 | - | - | - | - | -1 | - | - | 2 | | - |
| | Design Principles of Smart Space Management | 3 | 2 | 2 | | | - | - | - | - | - | > | - | 1 | 2 | 3 |
| | Business Intelligence and Analytics | | | L_{J} | 3,4 | P | | | 3 | 13 | 3 | | | 2 | 2 | 2 |
| | Software Security | - | 3 | 3 | 3 | | - | | 11- X | 34 | 1- | 7- | - | | 1 | 3 |
| | Service Oriented Architecture | 2 | 1 | 2 | - | | - | - | | | -,4 | - 1 | - | 2- | - | - |
| | Artific <mark>ial Intelligence</mark> in Agile Systems | 3 | 3 | 2 | - | - | - | - | - | - | | | - | 1 | 2 | 3 |
| | Deep Learning | 3 | 2 | 3 | - | 3 | - | - | - | | | - 1 | - | 1 | 3 | 2 |
| | Gaming and Virtual Reality | 3 | - | 3 | - | 2 | - | - | | - | | | 1 | - | 3 | 2 |
| | Smartphone Computing and its Applications | 3 | - | - | 2 | 3 | | 2 | | | - | - | - | - | 2 | 2 |
| 21CSP302L | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 21CSP303T | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | Major Project | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Major Project | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 21CSP402L | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 2103P403L | Internship Program Average | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Program Average | J | J | J | J | J | J | J | J | J | J | J | J | J | J | J |

29. (g) Implementation Plan: B.Tech. in Computer Science and Engineering with Specialization in Software Engineering

| 21HB1017 Communicative English | | Semester – I | Semester – II | | | | | | | | | |
|--|--|--|---------------|------|------|----------|------------------------|---------------------------------|----------|-------|------|---------|
| Code | Course | Course | l | | | | Course | Course | | | | |
| 21HB1017 Communicative English | | | <u> </u> | | | | | | <u> </u> | | | |
| 21P39102 Calculus and Linear Algebra 3 1 0 4 21LEH103T French | 241 5114045 | Communicative English | L | | | | 241 5114025 | Chinasa | L | | Р | С |
| 21PYB102J Semiconductor Physics and Solidary 2 5 21MES 102L Engineering Graphics and Design 3 1 2 5 21EES101Z Engineering Graphics and Design 3 0 4 2 21EES101Z Engineering Graphics and Design 3 0 2 4 21EES101T Enderical and Enteroids Engineering 3 0 2 4 21EES101T Environmental Science 1 0 0 0 0 0 0 0 0 0 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | |
| 2716F3102 Engineering Graphics and Design 0 0 4 2 2116H1071 Spanish Spanish 2116F3107 Electrical and Electronics Engineering 3 0 0 2 2116H1071 Programming for Problem Soking 3 0 2 4 2116H1071 Programming for Problem Soking 3 0 2 4 2116H1071 Programming for Problem Soking 3 0 2 4 2116H1071 Professional Skilis and Practices 0 0 2 0 2 2116H1071 Professional Skilis and Practices 0 0 2 0 2 2116H1071 Professional Skilis and Practices 0 0 2 2 2116H1071 Professional Skilis and Practices 0 0 2 2 2116H1071 Professional Skilis and Practices 0 0 2 2 2116H1071 Professional Skilis and Practices 0 0 2 2 2116H1071 Professional Elective - II 0 0 0 2 2 2 2 3 3 0 4 2 2 2 3 2 2 2 3 2 2 | 21PYB102J | | 3 | 1 | 2 | 5 | | | 2 | 1 | 0 | 3 |
| 21CSS101.1 Professional Skills and Practices 1 0 0 0 2 0 | 21MES102L 1 | Engineering Graphics and Design | | 0 | 4 | 2 | | | | | | |
| | | | | - | _ | | 21LEH107T | Spanish | | | | |
| | | | | | | | | | | | | |
| Course | | | | | _ | | 21GNH101J | | 1 | 0 | 2 | 2 |
| Semester - III | | | 1 | | | | 21MAB102T | | 3 | 1 | 0 | 4 |
| Semester - III | ZILEWITOTT | | ntal | • | · | • | 21CVR101 I | | | | 2 | 5 |
| Course | | | Jui | OIC | uito | | | | | | | 2 |
| Course | | Semester – III | | | | | | | | | | 3 |
| Code | Course | Course | | | | | | Programming | 2 | 7 | U | 3 |
| Transforms and Boundary Value 3 1 0 4 21CSC201P Design Thinking and Methodology 1 2 0 3 21CSS201T Design Thinking and Methodology 1 2 0 3 21CSS201T Computer Organization and Architecture 3 1 0 4 21CSC201J Data Structures and Algorithms 3 0 2 21CSC202J Data Structures and Algorithms 3 0 4 21CSC203J Data Structures and Algorithms 3 0 2 21CSC203J Data Structures and Algorithms 3 0 0 2 21CSC203J Data Structures and Data St | Code | Title | V | _ | | _ | | | | - | | 2 |
| Problems 21DCS201P Design Thinking and Methodology | - | Transforms and Roundary Value | _ | | | | | | 0 | 0 | 2 | 0 |
| 21CS2017 Design Thinking and Methodology | | | 3 | 1 | 0 | 4 | | | | | | |
| 21CSC201J Data Structures and Algorithms 3 0 2 4 | | | 1 | 2 | 0 | 3 | | | 0 | 0 | 2 | 0 |
| 2/15/2013 Data Structures and Agonthims 3 0 2 4 2/15/2013 Departing Systems 3 0 0 2 0 Departing Systems 3 0 2 4 2/15/2013 Departing Processional Ellicities Department of the pr | | Computer Organization and Architecture | | | _ | 4 | | | | | | |
| 21CSC203/ Advanced Programming Practice 3 1 0 4 | | | | | | <u> </u> | 210NW104L | | otal | Cre | dits | 21 |
| Course | | | | - | | - | | | | - | | |
| Verbal Reasoning | | | | | | _ | | Semester – IV | L | lour | -/ | |
| Total Credits 23 21MAB204T Probability and Queueing Theory 3 1 0 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 21CSC204J Design and Analysis of Algorithms 3 0 0 2 2 2 2 2 2 2 2 | | | | _ | | | | | | | | i |
| Semester - V Course | ZTFDIVIZOTE | <u>U</u> | • | • | | · | Code | Title | L | | | С |
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| Course | | Samastan V | | | | | | | | | , | 4 |
| Course | | Semester – v | ш | Our | . / | | | | | 1 | 0 | 3 |
| Total Credits Total Credit | | | | | | | | | 2 | Λ | Λ | 3 |
| 21/4/4/3027 Discrete Mathematics 3 1 0 4 2/1/2005/3031 Formal Language and Automata 3 0 0 3 2/1/2005/3032 Computer Networks 3 0 2/2 3 3 0 2/2 3 4 2/1/2005/3032 Computer Networks 3 0 2/2 3 3 2/2 4 2/1/2005/3032 Computer Networks 3 0 2/2 3 3 3 2/2 4 2/1/2005/3032 E Professional Elective - II 3/2 3 3 3 3 3 3 3 3 3 | Code | Litle | L | | | С | | | | | _ | 0 |
| 21CSC3017 Formal Language and Automata 3 0 0 3 21CSC302J Computer Networks 3 0 2 4 21CSC302J Computer Networks 3 0 2 4 21CSC303J Software Engineering and Project 2 0 2 3 3 3 3 4 4 4 4 4 4 | | | 3 | | 0 | | ZII BINIZOZZ | | 1 | ľ | _ | 0 |
| Course Course Course Course Course Course Course Code | | | | | | | 21LEM202T ¹ | | 2 | 1 | 0 | 3 |
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| E | 21CSC303J | Software Engineering and Project | 2 | 0 | 2 | 3 | | | otal | Cre | dits | 23 |
| Course Course Course Code Title Course Code Title Course Code Title Code | | | | | | 3 | | Semester – VI | | | | |
| Code | | | | | | _ | Course | Course | | | | |
| 21PDM301L Analytical and Logical Thinking Skills 0 0 2 0 0 0 0 0 0 0 | 21GNP301L 1 | Community Connect | 0 | 0 | 2 | | Code | | _ | | | |
| Course Course Code Title Title Total Credits Code Total Credits Code Title Total Credits Code | 21PDM301L 1 | Analytical and Logical Thinking Skills | | 0 | 2 | 0 | | | _ | _ | | |
| Semester - VII E Professional Elective - III E Professional Elective - IV O Open Elective - IV Open Elec | | Indian Art Form | | v | 0 | 0 | | | | | - | 3 |
| Semester - VII | | To | otal | Cre | dits | 21 | | Ü | | | | 3 |
| Course | | | | | | | | , , | | J | _ | 3 |
| Course Code | | Semester – VII | | _ | | | | | | | | 3 |
| Code | Course | Course | | | | | | Open Elective – II | | | | 3 |
| 21GNH401T Behavioral Psychology 2 1 0 3 21PDM302L Employability Skills and Practices 0 0 2 21PDM302L Employability Skills and Practices 0 0 0 2 21PDM302L Employability Skills and Practices 0 0 0 2 21PDM302L Employability Skills and Practices 0 0 0 0 2 2 21PDM302L Employability Skills and Practices 0 0 0 0 2 2 21PDM302L Employability Skills and Practices 0 0 0 0 0 0 0 0 0 | II I | | ۱ ۷ | | | _ | | | | | _ | 3 |
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| E | | | 2 | 1 | U | | | | | _ | | 0 |
| 21CSC403T Software Measurements and Metrics 3 0 0 3 | | | | | | _ | ZILEM30ZI I | | | | | _ |
| 21CSC404T Software Verification and Validation 3 0 0 3 | | | 3 | 0 | 0 | | | | otal | ore | นเเร | ZU |
| Course C | | | 3 | | | | | Semester - VIII | | | | |
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| #Students have to register either 21CSP401L or 21CSP402L and 21CSP403L both in eighth semester 21CSP402L Major Project 0 0 0 30 21CSP402L Major Project 0 0 0 20 3 | | | | | | | | | | | | |
| 21CSP403L both in eighth semester 21CSP402L Major Project 0 0 0 20 | #Students have to register either 21CSP401L or 21CSP402L and | | | | | | | | | | | С |
| 21CSP402L Major Project 0 0 20 1 | | | JLL | unu | | | | | | | | 15 |
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SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956)

Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India