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 2023)



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

32. B.Tech. in Electronics and Communication Engineering with Specialization in Data Science

32. (a) Mission of the Department

| Mission Stmt – 1 | Build an educational process that is well suited to local needs as well as satisfies the national and international accreditation requirements. |
|------------------|---|
| | Attract the qualified professionals and retain them by building an environment that fosters work freedom and empowerment. |
| Mission Stmt – 3 | With the right talent pool, create knowledge and disseminate, get involved in collaborative research with reputed universities and produce competent graduands. |

32. (b) Program Educational Objectives (PEO)

| PEO – 1 | Apply the acquired knowledge and skills in solving real-world engineering problems, considering national/global and societal issues such as health, environment, and safety. |
|---------|--|
| PEO – 2 | Design data analytics model for optimized solutions, which are economically feasible and socially relevant. |
| PEO - 3 | Develop an attitude toward pursuing knowledge and advanced education for sustained career advancement to adapt to emerging fields. |
| PEO-4 | Dem <mark>onstrate lea</mark> dership qualities and effective communication skills to work in a team of enterprising people in a multidisciplinary and multicultural environment with strong adherence to professional ethics. |

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

| 49 | Mission Stm | t 1 | Mission Stmt 2 | Mission Stmt 3 |
|---------|-------------|--------------|----------------|----------------|
| PEO - 1 | 1 | | 2 | 3 |
| PEO - 2 | 3 | THE STATE OF | 3 | 3 |
| PEO - 3 | 2 | | 1 | 3 |
| PEO - 4 | 3 | The state of | 3 | 3 |

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

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

| 49 | | | | 1 | Pro | gram Ou | tcomes (| PO) | | | | | Prog | ra <mark>m S</mark> pe | e <mark>cifi</mark> c |
|---------|--------------------------|------------------|---------------------------------|--|-------------------|--------------------------|---------------------------------|--------|---------------------------|---------------|------------------------|--------------------|-------|------------------------|-----------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Outo | comes (P | SO) |
| | 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 | 3 | 7 | 1-1 | 1010 | 3 | 3 | 2 | - | | 10- | 72 | 3 | - | - |
| PEO - 2 | 4. | - | 3 | 3 | 3 | 3 | 6.78 | -1. | 2 | 11:1 | 3 | - | -37 | 3 | - |
| PEO - 3 | 3,, | - | | 3 | 3 | - | 2 | 2 | | 2 | | 3 | 30. | 2 | 3 |
| PEO - 4 | - | No. | - | - | - | - | - | 3 | 3 | 3 | 3 | 190 | - | - | 3 |

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

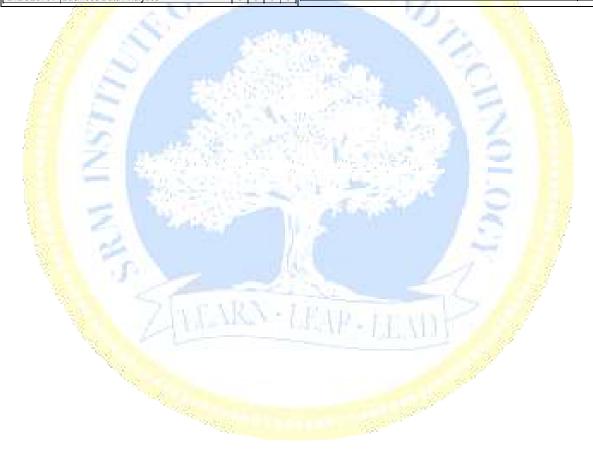
PSO – Program Specific Outcomes (PSO)

| PSO - 1 | Problem Solving Skills: Should be able to identify and deploy data science and engineering components and provide efficient |
|---------|---|
| F30-1 | solutions in solving real-world problems in medicine, science, industry, and numerous other fields. |
| PSO-2 | Professional Skills: Should be able to develop new tools and methods in data collection, integration, cleansing, and representation |
| P30-2 | for real-time data processing. |
| PSO - 3 | Successful Career and Entrepreneurship: Create technologically innovative products, Interpret / analyze multi-disciplinary data and |
| F3U-3 | propose optimal solution through data analytics. |

32. (e) Program Structure: B.Tech. in Electronics and Communication Engineering with Specialization in Data Science

| | Humanities & Social Sciences | | | | | | Basic Science Courses (B) | | | | |
|------------------------|---|----------|------------|--------|--------|--------------|---|------|------------|------|----|
| | including Management Courses (H) | | | | | Course | Course | | ours | | |
| Course | Course | | ours | | | Code | Title | ١ | <u>Vee</u> | | |
| Code | Title | _\ | <u>Vee</u> | | | Code | | L | T | Р | С |
| 241 5114047 | Communicative English | L | 1 1 | P 0 | C 3 | 21PYB101J | Physics: Electromagnetic Theory, | 3 | 1 | 2 | 5 |
| 21LEH1011 21LEH102T | Chinasa Chinasa | 2 | 1 | U | 3 | 21CYB101J | Quantum Mechanics, Waves and Optics Chemistry | 3 | 1 | 2 | 5 |
| 21LEH1021 | | 1 | | | | | Calculus and Linear Algebra | 3 | 1 | 0 | 4 |
| 21LEH104T | German | 1 | | | | | Advanced Calculus and Complex | | Ė | | |
| 21LEH105T | | 2 | 1 | 0 | 3 | 21MAB102T | Analysis | 3 | 1 | 0 | 4 |
| 21LEH106T | | 1 | | | | 0.444.0004.7 | Transforms and Boundary Value | | <u> </u> | | |
| 21LEH107T | | i | | | | 21MAB201T | Problems | 3 | 1 | 0 | 4 |
| | Philosophy of Engineering | 1 | 0 | 2 | 2 | 21MAB203T | Probability and Stochastic Processes | 3 | 1 | 0 | 4 |
| 21PDH201T | Social Engineering | 2 | 0 | 0 | 2 | | Discrete Mathematics | 3 | 1 | 0 | 4 |
| | Behavioral Psychology | 2 | 1 | 0 | 3 | 21BTB103T | Biology | 2 | 0 | 0 | 2 |
| | To | otal | Cre | dits | 13 | | Te | otal | Cre | dits | 32 |
| | Final contract (S) | | | | | | Professional Care Courses (C) | | | | |
| | Engineering Science Courses (S) | Н | ours | . / | | | Professional Core Courses (C) | ш | ours | . / | |
| Course | Course | | Vee | | | Course | Course | | Vee | | |
| Code | Title | ' | T | Р | С | Code | Title | Η, | T | Р | С |
| 21MES1011 | Basic Civil and Mechanical Workshop | 0 | 0 | 4 | 2 | 21FCC101.L | Electronic System and PCB Design | 2 | 0 | 2 | 3 |
| | Engineering Graphics and Design | 0 | 0 | 4 | 2 | | Solid State Devices | 3 | 0 | 0 | 3 |
| | Electrical and Electronics Engineering | 3 | 1 | 0 | 4 | | Analog and Linear Electronic Circuits | 3 | 0 | 0 | 3 |
| | Programming for Problem Solving | 3 | 0 | 2 | 4 | | Digital Logic Design | 3 | 0 | 0 | 3 |
| | Computer Organization and Architecture | 3 | 1 | 0 | 4 | | Signal Processing | 3 | 0 | 0 | 3 |
| | Design Thinking and Methodology | 1 | 2 | 0 | 3 | | Electromagnetic Theory and Interference | 3 | 0 | 0 | 3 |
| | Data Science | 2 | 0 | 0 | 2 | | Devices and Digital IC Laboratory | 0 | 0 | 4 | 2 |
| 270000001 | | otal | - | | | | Analog and Linear Electronic Circuits | | | | |
| | | Jtai | 0,0 | uito | | 21ECC222L | Laboratory | 0 | 0 | 4 | 2 |
| | Non Credit Courses (M) | | | | | 045000045 | Microprocessor, Microcontroller, and | | 1 | | |
| Course | Course | | ours | | | 21ECC301P | Interfacing Techniques | 3 | 1 | 0 | 4 |
| Code | Title | ١ | <u>Nee</u> | _ | | 21ECC302T | Analog and Digital Communication | 3 | 0 | 0 | 3 |
| | | L | Τ | Р | С | | VLSI Design and Technology | 3 | 0 | 0 | 3 |
| | Professional Skills and Practices | 0 | 0 | 2 | 0 | | Microwave and Optical Communication | 3 | 0 | 0 | 3 |
| | General Aptitude | 0 | 0 | 2 | 0 | 21ECC311L | VLSI Design Laboratory | 0 | 0 | 4 | 2 |
| | Verbal Reasoning | 0 | 0 | 2 | 0 | 21ECC322L | Communication Laboratory | 0 | 0 | 4 | 2 |
| | Critical and Creative Thinking Skills | 0 | 0 | 2 | 0 | 21ECC401T | Wireless Communication and Antenna | 3 | 0 | 0 | 3 |
| | Analytical and Logical Thinking Skills | 0 | 0 | 2 | 0 | 21ECC4011 | Systems | J | U | U | 3 |
| | Employability Skills and Practices | 0 | 0 | 2 | 0 | 21ECC402P | Computer Communication and Network | 2 | 1 | 0 | 3 |
| | Environmental Science | 1 | 0 | 0 | 0 | | Security | | ′ | | |
| | Constitution of India | 1 | 0 | 0 | 0 | 21CSC206T | Artificial Intelligence | 2 | 1 | 0 | 3 |
| | Universal Human Values – Introduction | 1 | 0 | 0 | 0 | | To | otal | Cre | dits | 48 |
| 21LEM2011 | Professional Ethics | 1 | 0 | 0 | 0 | | Open Elective Courses (O) | | | | |
| 21LEM202T | Universal Human Values-II: Understanding | 2 | 1 | 0 | 3 | | (Any 3 courses) | | | | |
| | riannony and Ethical Human Conduct | | _ | 0 | | - | | Н | ours | 3 / | |
| | Indian Art Form | 1 | 0 | 0 | 0 | Course | Course | | Nee | | |
| | Indian Traditional Knowledge | 1 | U | U | 0 | Code | Title | L | Т | Р | С |
| | Physical and Mental Health using Yoga National Service Scheme | 1 | | | | 21ECO101T | Short Range Wireless Communication | 3 | 0 | 0 | 3 |
| | National Cadet Corps | 0 | 0 | 2 | 0 | | Electronic Circuits and Systems | 2 | 0 | 2 | 3 |
| | National Cadel Corps National Sports Organization | 1 | | | | 21ECO103T | Modern Wireless Communication | 3 | 0 | 0 | 3 |
| Z I GINIVI I U4L I | | otal | Cre | dite | 03 | | Systems | | | | |
| | | - cui | 516 | uito | -55 | | PCB Design and Manufacturing | 2 | 0 | 2 | 3 |
| Droinet Ma | rk, Seminar, Internship in Industry / High | 10r 7 | [ccl | nia | ما | | Fiber Optics and Optoelectronics | 3 | 0 | 0 | 3 |
| Project wo | Institutions (P) | iei | eci | IIIIC | aı | 21ECO106J | Embedded System Design using Arduino | 2 | 0 | 2 | 3 |
| | | Нο | urs / | 1 | | 21ECO107J | Embedded System Design using | 2 | 0 | 2 | 3 |
| Course | Course | | eek | | | | Raspberry Pi | | | | |
| Code | Title | | | P | С | 21ECO108J | 3D Printing Hardware and Software | 2 | 0 | 2 | 3 |
| 21GNP301 | L Community Connect | _ | | 2 | 1 | | To | otal | <u>cre</u> | aits | 09 |
| 21ECP302 | | _ | _ | 6 | | | | | | | |
| 21ECP303 | | | _ | 0 | 3 | | | | | | |
| 21ECP401 | | _ | _ | - | 15 | | | | | | |
| 21ECP402 | | _ | _ | _ | 10 | | | | | | |
| 21ECP403 | | _ | _ | 10 | 5 | | | | | | |
| | | tal C | | | | | | | | | |
| L. | | | | | | 1 | | | | | |

| | Professional Elective Courses (E) (Any 6 Courses) | | | | | | Professional Elective Courses (E) | | | | |
|----------------|---|---|--------------|--------|---|----------------|--|------|--------------|------|----|
| Course Code | Course Title | | lour: Vee | k | | Course Code | Course Title | | lour: Vee | k | |
| | Statistics for Data Science | 3 | T 0 | P 0 | 3 | | Big Data Analytics Strategies for the | L | Т | Р | С |
| | | | 0 | 0 | 3 | 21ECE377T | Smart Grid | 3 | 0 | 0 | 3 |
| | Data Analytics Using SAS | 3 | 0 | 0 | 3 | 21ECE470T | Cloud and Distributed Computing for Data | 3 | 0 | 0 | 3 |
| 21ECE273T | Python for Data Sciences | 3 | 0 | 0 | 3 | | Analytics | Ŭ | Ů | Ŭ | Ľ |
| 21ECE274T | Machine learning for Data Analytics | 3 | 0 | 0 | 3 | | Data Mining Techniques | 3 | 0 | 0 | 3 |
| 21ECE275T | Tableau for Business Intelligence | 3 | 0 | 0 | 3 | 21ECE472T | Social Media Data Analytics | 3 | 0 | 0 | 3 |
| 21ECE322T | Data Analytics using R | 3 | 0 | 0 | 3 | | Data Science for IoT Engineers: A | | | | |
| 21ECE370T | Block Chain in Data Analytics | 3 | 0 | 0 | 3 | 21ECE473T | Systems Analytics Approach Media | 3 | 0 | 0 | 3 |
| 21ECE371T | Database Design and Management | 3 | 0 | 0 | 3 | | Analytics | | | | |
| 21ECE372T | Deep Learning for Data Analytics | 3 | 0 | 0 | 3 | 21ECE474T | Big Data Analytics Tools | 3 | 0 | 0 | 3 |
| 21ECE373T | Julia For Data Science | 3 | 0 | 0 | 3 | 21ECE475T | Tools for Real-time Data Processing and | 3 | 0 | 0 | 3 |
| 21ECE374T | Data Pattern and Visualization | 3 | 0 | 0 | 3 | | Analytics | J | Ů | Ů | L |
| 045050757 | Data Science for Communication | _ | _ | | _ | 21ECE476T | Data Analytics with Spark Using Python | 3 | 0 | 0 | 3 |
| 21ECE375T | Networks | 3 | 0 | U | 3 | 21ECE477T | Big Data and Health Care Analytics | 3 | 0 | 0 | 3 |
| 21ECE376T | Business Data Analytics | 3 | 0 | 0 | 3 | | To | otal | Cre | dits | 18 |



32. (f) Programme Articulation: B.Tech. in Electronics and Communication Engineering with Specialization in Data Science

| | | | | | F | rogra | ım Ou | tcome | s (PC |)) | | | | | PSO | |
|-------------------------|--|-----------------------|------------------|---------------------------------|--|-------------------|--------------------------|------------------------------|--------|------------------------|---------------|------------------------|--------------------|-------|------------|----------|
| | į į | 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 |
| 21ECC101J | Electronic System and PCB Design | 2 | | 3 | 2 | 3 | <u> </u> | - | - | _ | - | - | - | - | - | - |
| | Solid State Devices | 3 | 3 | - | 1 | 3 | 100 | - | - | 3 | 2 | - | 2 | 1 | 1 | - |
| | Analog and Linear Electronic Circuits | 3 | 2 | 3 | - | - | | 1520 | lane. | - | - | - | - | 1 | <u> </u> | 2 |
| | Digital Logic Design | 3 | 2 | 3 | - | 3 | - | _ | TO S | No. | _ | _ | _ | 1 | _ | 2 |
| | Signal Processing | 3 | 2 | 3 | - | - | _ | _ | | 1 | h | _ | _ | 2 | 1 | 3 |
| 21ECC2041 | Electromagnetic Theory and Interference | 2 | 3 | - | | | - | - | - | | 7275 | - | 1 | - | - | 2 |
| | | | 2 | | | | | | | | | | | | | |
| 21ECC211L | Devices and Digital IC Laboratory | 3 | 2 | 3 | 1 | 3 | - | - | - | - | | 000 | - | 1 | - | 2 |
| 21ECC222L | Analog a <mark>nd Linear Ele</mark> ctronic Circuits Labor <mark>atory</mark> | 3 | 2 | 3 | - | | - | | - | | - | - | 1 | 1 | - | 2 |
| 21ECC301P | Mic <mark>roprocesso</mark> r, Microcontroller, and Interfacing Techniques | - | 2 | 3 | - | 3 | - | - | 1 | ŀ. | - | - | 2 | 1 | - | 2 |
| 21ECC302T | Analog and Digital Communication | 3 | 2 | 3 | 3 | 2 | - | | - | - 1 | | - | - | 2 | 2 | 3 |
| | VLSI Design and Technology | 3 | 2 | 3 | | 3 | - | - | 7 | - | 75 | - | - | 2 | - | 2 |
| | Microwave and Optical Communication | 3 | 3 | 3 | 2 | 3 | - | - | - | - | | - | - | 2 | - | 2 |
| | VLSI Design Laboratory | 3 | 2 | 3 | | 3 | | - | - | - | | - | - | 2 | 8 - | 2 |
| | Communication Laboratory | 3 | 2 | 3 | 3 | 2 | | _ | | | | | - | 2 | 2 | 3 |
| 21ECC322E | Wireless Communication and Antenna Systems | 3 | 3 | 3 | 3 | - | 2 | 2 | | Ħ | | į. | 2 | 2 | - | 3 |
| 21ECC402P | Computer Communication and Network Security | 7 | | 2 | 4 | 1 | 1 | 2 | | - | Ì. | 7 | 2 | - | 1 | 3 |
| 21ECE270T | Statistics for Data Science | 1 | 3 | | - | 3 | - | - | - | | _ | | _ | 3 | 2 | |
| | Regression and Multivariate Data Analysis | 2 | - 3 | | 3 | 3 | | 197 | Ġ. | | | | | 3 | 2 | - |
| | | 1 | 2 | | _ | 3 | | | | | | - | <u> </u> | 3 | | - |
| | Data Analytics Using SAS | | | - | - 1 | | - | - | - | | - | - | - | | 2 | - |
| | Python for Data Sciences | 2 | 1 | - | | 3 | | - | | - | - | - | ٦- | 2 | 3 | - |
| | Machine learning for data analytics | 3 | 3 | - | 2 | 3 | - | | - | - | - | - | - | 2 | 3 | - |
| | Tableau for Business Intelligence | 1 | 2 | <u> </u> | - | 3 | - | - | - | - | - | | - | 1 | 3 | - |
| | Data analytics using R | 2 | 2 | - | - | 3 | - | - | - | - | - | - | - | 1 | 3- | - |
| | Block chain in Data Analytics | 3 | 1 | 1 | - | 3 | - | - | - | - | | - | - | - | 3 | - |
| 21ECE3 <mark>71T</mark> | Database Design and Management | 3 | | 2 | - | 3 | - | - | 1 | - | - 1 | - | - | - (| 3 | - |
| 21ECE372T | Deep Learning for Data Analytics | 3 | 3 | | 2 | 3 | - | - | - | | | - | - | 2 | 3 | - |
| | Julia For Data Science | 2 | 2 | - | - | 3 | - | - | - | - | 7. | - | - | 1 | 3 | - |
| 21ECE374T | Data Pattern and Visualization | 2 | 3 | - | | 3 | - | - | | | - | - | - | 2 | 3 | - |
| | Data Science for Communication Networks | 3 | 2 | 7- | 11-1 | 3 | | - | | - | | - | - | 2 | 3 | - |
| | Business data analytics | 2 | 2 | - | - 1 | 3 | | - | - | 1-1 | - | - | 40 | 3 | 3 | - |
| 21ECE377T | Big Data Analytics Strategies for the Smart | 3 | 2 | - | 2 | 3 | | | | 7 | - | | 7. | 2 | 2 | - |
| 21ECE470T | Cloud and Distributed Computing for data analytics | 2 | - | 2 | - | 3 | - | - | - | | -8 | 9. | - | - | 3 | - |
| 215054717 | Data Mining Techniques | 2 | 2 | | - | 3 | | | | | 200 | | | 2 | 3 | |
| | Social Media Data Analytics | 1 | 3 | Ė | | 3 | 1 | | | | - | - | - | 2 | 1 | <u> </u> |
| 21ECE472T | Data Science for IoT Engineers: A Systems | 3 | 2 | - | 1 | 3 | 033 | 000 | | - | - | - | - | 2 | 2 | - |
| | Analytics Approach Media Analytics Big Data analytics tools | 2 | - | - | 3 | 3 | 1300 | - | - | - | - | - | - | 2 | 3 | - |
| 21ECE475T | Tools for Real-time Data Processing and Analytics | 2 | - | - | 2 | 3 | - | - | - | - | - | - | - | - | 3 | - |
| 21ECE476T | Data Analytics with Spark Using Python | 3 | - | - | 2 | 3 | - | | • | - | - | | | 2 | 3 | L- |
| | Big Data and Health care Analytics | 3 | | | 2 | 3 | - | | | | | | | 1 | 3 | |
| | Community Connect | | | | | | 3 | | 3 | 3 | 2 | | | | | |
| 21ECP302L | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 21ECP303T | | 3 | 2 | Ť | Ť | Ť | Ť | Ť | Ť | | Ť | Ť | Ť | 3 | Ť | Ť |
| | Major Project | 3 | 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 |
| 21ECP403L | ' | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Program Average | 2.47 | 2.26 | 2.81 | 2.29 | 2.88 | 2 | 2 | - | 3 | 2 | - | 1.8 | 1.81 | 2.52 | 2.36 |

32. (g) Implementation Plan: B.Tech. in Electronics and Communication Engineering with Specialization in Data Science

| | Semester – I | | | | | | Semester – II | | | | |
|---|--|--|-------------------------------|---|---|---|---|-----------------------------|--|--|------|
| Course | Course | Н | Hours / | | | Course | Course | H | lours | s/ | |
| Code | Title | V | Vee | | | Code | Title | ١ | Nee | |] |
| | | L | Т | Р | С | | | L | T | Р | (|
| | Communicative English | 2 | 1 | 0 | 3 | 21LEH102T | | | | | |
| 21MAB101T | | 3 | 1 | 0 | 4 | 21LEH103T | | | | | |
| 21PYB101J | Physics: Electromagnetic Theory, | 3 | 1 | 2 | 5 | 21LEH104T | | _ 2 | 1 | 0 | ١, |
| | Quantum Mechanics, Waves and Optics | ٥ | ' | | | 21LEH105T | | | l ′ | " | ١. |
| 21MES102L | Engineering Graphics and Design | 0 | 0 | 4 | 2 | 21LEH106T | Korean | | | | |
| | Electrical and Electronics Engineering | ვ | 1 | 0 | 4 | 21LEH107T | Spanish | | | | |
| 21CYM101T | Environmental Science | 1 | 0 | 0 | 0 | 21GNH101J | Philosophy of Engineering | 1 | 0 | 2 | Τ. |
| 21PDM101L | Professional Skills and Practices | 0 | 0 | 2 | 0 | 04144.04007 | Advanced Calculus and Complex | 3 | , | _ | Γ |
| 21LEM101T | Constitution of India | 1 | 0 | 0 | 0 | 21MAB102T | Analysis | 3 | 1 | 0 | ١. |
| | To | otal | Cre | dits | 18 | 21CYB101J | | 3 | 1 | 2 | ١. |
| | | | | | | 21ECC101J | Electronic System and PCB Design | 2 | 0 | 2 | ١, |
| | Semester – III | | | | | | Programming for Problem Solving | 3 | 0 | 2 | |
| Course | Course | ı | ours | | | 21BTB103T | | 2 | 0 | 0 | 1 |
| Code | Title | | Vee | | | | Basic Civil and Mechanical Workshop | 0 | 0 | 4 | |
| | · | L | Т | Ρ | С | | General Aptitude | 0 | 0 | 2 | 1 |
| | Transforms and Boundary Value Problems | 3 | 1 | 0 | 4 | | Physical and Mental Health using Yoga | Ť | Ť | Ē | f |
| | Social Engineering | 2 | 0 | 0 | 2 | | National Service Scheme | | | | |
| | Computer Organization and Architecture | 3 | 1 | 0 | 4 | | National Cadet Corps | 0 | 0 | 2 | |
| 21ECC201T S | Solid State Devices | 3 | 0 | 0 | 3 | | National Sports Organization | | | | |
| 21ECC203T [| Digital Logic Design | 3 | 0 | 0 | 3 | 21GIVIVITO4L | | otal | Cro | dite | 12 |
| 21ECC205T E | Electromagnetic Theory and Interference | 3 | 0 | 0 | 3 | | | Ulai | CIE | uito | ' 4 |
| | Devices and Digital IC Laboratory | 0 | 0 | 4 | 2 | | Semester – IV | | | | |
| 21LEM201T F | Professional Ethics | 1 | 0 | 0 | 0 | | | F | lour | s/ | |
| 21PDM201L \ | Verbal Reasoning | 0 | 0 | 2 | 0 | Course | Course | | Nee | | |
| 1 | Universal Human Values-II: Understanding | | | | | Code | Title | L | Т | Р | 1 |
| | Harmony and Ethical Human Conduct | 2 | 1 | 0 | 3 | 21MAB203T | Probability and Stochastic Processes | 3 | 1 | 0 | , |
| | | otal | Cre | dits | 24 | | Analog and Linear Electronic Circuits | 3 | 0 | 0 | 1 |
| 217 | The second secon | | | | | | Signal Processing | 3 | 0 | 0 | 1 |
| | | | | | _ | | Analog and Linear Electronic Circuits | | | | T |
| | Semester – V | | | , | | 21ECC222L | Laboratory | 0 | 0 | 4 | 2 |
| Course | Course | ı | ours | | | 21CSC206T | Artificial Intelligence | 2 | 1 | 0 | 1 |
| | | | | <i>L</i> | | | | | | | |
| Code | Title | _ | Vee | | _ | E | _ | | <u> </u> | | 13 |
| Code | | L | Τ | Р | С | Ε | Professional Elective-I | 1 | | 0 | |
| Code 21MAB302T | Discrete Mathematics | _ | | | C 4 | E 21DCS201P | Professional Elective-I Design Thinking and Methodology | | 2 | | , |
| Code 21MAB302T | Discrete Mathematics Microprocessor, Microcontroller, and | L | Τ | Р | | E 21DCS201P | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills | 1 0 | 2 | 2 | (|
| Code 21MAB302T 21ECC301P | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques | 3 3 | T 1 | P 0 0 | 4 | E 21DCS201P | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills | 1 | 2 | 2 | (|
| Code 21MAB302T 21ECC301P 21ECC303T | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology | 3 3 3 | T 1 1 | P 0 0 | 4 4 3 | E 21DCS201P | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills | 1 0 Total | 2 0 Cre | 2 dits | (|
| Code 21MAB302T 21ECC301P 21ECC303T 21ECC311L | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory | 3 3 | T 1 | P 0 0 | 4 4 3 2 | E 21DCS201P 21PDM202L | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI | 1 0 Fotal | 2 0 Cre | dits | ; |
| Code 21MAB302T 21ECC301P 21ECC303T 21ECC311L E | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory Professional Elective – II | 3 3 3 | T 1 1 | P 0 0 | 4 4 3 | E 21DCS201P 21PDM202L Course | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI Course | 1 0 Fotal | 2 0 Cre | dits | 2 |
| Code 21MAB302T 21ECC301P 21ECC303T 21ECC311L E O | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory Professional Elective – II Open Elective – I | 3 3 3 0 | T 1 1 0 0 0 | P 0 0 4 | 4 4 3 2 3 3 3 | E 21DCS201P 21PDM202L Course Code | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI Course Title | 1 0 Fotal | 2 0 Cre | dits s / k | 2 |
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| Code 21MAB302T 21ECC301P 21ECC303T 21ECC311L E O 21GNP301L 21PDM301L | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills | 3 3 0 0 | T 1 1 0 0 0 0 0 0 0 | P 0 0 4 2 2 | 4 4 3 2 3 3 1 0 | E 21DCS201P 21PDM202L Course Code 21CSS303T 21ECC302T | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI Course Title Data Science Analog and Digital Communication | 1 0 Total | 2 0 Cre lours Wee | dits s/ k P 0 | (|
| Code 21MAB302T 21ECC301P 21ECC303T 21ECC311L E O 21GNP301L 21PDM301L | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form | 3 3 0 0 0 | T 1 1 0 0 0 0 0 0 0 0 | P 0 0 0 4 2 2 2 0 0 | 4 4 3 2 3 3 1 0 0 | E 21DCS201P 21PDM202L Course Code 21CSS303T 21ECC302T 21ECC304T | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI Course Title Data Science Analog and Digital Communication Microwave and Optical Communication | 1 | 2 | 2 dits k P 0 0 | (|
| Code 21MAB302T 21ECC301P 21ECC301T 21ECC311L E O 21GNP301L 21PDM301L | Discrete Mathematics Microprocessor, Microcontroller, and Interfacing Techniques VLSI Design and Technology VLSI Design Laboratory Professional Elective – II Open Elective – I Community Connect Analytical and Logical Thinking Skills Indian Art Form | 3 3 0 0 0 | T 1 1 0 0 0 0 0 0 0 0 | P 0 0 0 4 2 2 2 0 0 | 4 4 3 2 3 3 1 0 | E 21DCS201P 21PDM202L Course Code 21CSS303T 21ECC302T 21ECC304T 21ECC322L | Professional Elective-I Design Thinking and Methodology Critical and Creative Thinking Skills Semester – VI Course Title Data Science Analog and Digital Communication Microwave and Optical Communication Communication Laboratory | 1 0 Total | 2 | 2 dits k P 0 0 | (|
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#Students have to register either 21ECP401L or 21ECP402L and 21ECP403L both in eighth semester



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

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