ACADEMIC CURRICULA

UNDERGRADUATE DEGREE PROGRAMMES

Bachelor of Technology

(B.Tech. - Four Years)

(Choice Based Flexible Credit System)

Regulations 2018

Volume - 1

(Revised in March 2019)



SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Kattankulathur, Kancheepuram District 603203, Tamil Nadu, India



20. B.Tech. in Computer Science and Business Systems

(In Collaboration with TCS)

20. (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 |
| IVIISSION SUM - 2 | 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 |
| IVIISSION SUNC- 3 | multidisciplinary teams. |
| Mission Stmt - 4 | To instill societal, safety, cultural, environmental, and ethical responsibilities in all professional activities |
| Mission Stmt - 5 | To produce successful Computer Science and Engineering graduates with personal and professional responsibilities and commitment to |
| IVIISSION SUM - 5 | lifelong learning |

20. (b) Program Educational Objectives (PEO)

| PEO - 1 | Graduates will be able to perform in technical/managerial roles by thorough understanding of contemporary technologies |
|---------|---|
| PEO - 2 | Graduates will be able to successfully pursue higher education in reputed institutions where information technology businesses are a priority |
| PEO - 3 | Graduates will be able to apply technology abstraction and common business principles |
| PEO - 4 | Graduates will be able to demonstrate innovation abilities. |
| PEO - 5 | Graduates will be able to demonstrate ethics and responsibility and have accumulated life values |

20. (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 | Н | H | H | H | Н |
| PEO - 2 | L | H | H | Н | Н Н |
| PEO - 3 | Н | Н | M | | H H |
| PEO - 4 | M | Н | M | Н | Н |
| PEO - 5 | H | H | M | M | Н |

H – High Correlation, M – Medium Correlation, L – Low Correlation

20. (d) Mapping Program Educational Objectives (PEO) to Program Learning Outcomes (PLO)

| | | | The state of | 1 | 7 | Progra | m Lear | ning Ou | tcomes | (PLO) | | | - | | H |
|---------|-----------------------|------------------|----------------------|----------------------------|-------------------|-------------------|------------------------------|---------|------------------------|---------------|------------------------|--------------------|------------|------------------------------------|----------------|
| | | 7. | \ | | Gra | aduate At | tribut <mark>e</mark> s (0 | GA) | | | | | Pro Out | gram S <mark>pe</mark> comes (P | ecific (SO) |
| N | Engineering Knowledge | Problem Analysis | Design & Development | Analysis, Design, Research | Modern Tool Usage | Society & Culture | Environment & Sustainability | Ethics | Individual & Team Work | Communication | Project Mgt. & Finance | Life Long Learning | PSO - 1 | PSO - 2 | PSO - 3 |
| PEO - 1 | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н |
| PEO - 2 | Н | Н | Н | Н | Н | L | L | Н | L | Н | L | Н | Н | Н | Н |
| PEO - 3 | Н | Н | Н | Н | Н | L | L | L | L | L | Н | Н | Н | Н | Н |
| PEO - 4 | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н |
| PEO - 5 | Н | Н | Н | Н | Н | М | М | Н | Н | Н | Н | Н | Н | Н | Н |

H – High Correlation, M – Medium Correlation, L – Low Correlation

PSO – Program Specific Outcomes (PSO)

| PSO - 1 | Ability to understand client requirements and suggest solutions |
|---------|---|
| PSO - 2 | Ability to create innovative Software for business and service orientations |
| PSO - 3 | Ability to utilize Logic & Reasoning Skills |

20. (e) Program Structure: B.Tech. in Computer Science and Business Systems

| Numerical Scientific Science 1 | | | | | | | | | | | | |
|---|---|--|---|---|---|--|---|---|---|---|---|---|
| Title | | Humanities & Social Sciences including Management Courses (H) | | | | | | 2. Basic Science Courses (B) | | | | |
| 18/18/19/19 Business Communication & Value Science - 1 2 0 0 2 18/19/19/19 Endostreaments of Physics 3 0 0 18/19/19/19 19/19/19/19/19/19/19/19/19/19/19/19/19/1 | Course | Course | Hou | ırs/ V | | | Course | Course | Hou | ırs/ V | Veek | |
| 18MBH165 | | | | T | Р | | | | _ | Τ | Р | C |
| 18/88/1462 Fundamentals of Economics | | | | | | | 18PYB161J | Fundamentals of Physics | | | | |
| Introduction to Invovation, Intellectual Property 3 0 0 3 1 0 4 5 1 1 1 1 1 1 1 1 1 | 18MBH162T | Business Communication & Value Science - II | | | 0 | 2 | 18MAB165T | Discrete Mathematics | | | 0 | 4 |
| 18/08/14/21 Taylor, Management and 3 0 0 3 18/08/14/21 Setting Training Credits 2 0 2 2 3 18/08/14/21 Setting Training Credits 2 0 0 2 18/08/14/21 Setting Training Credits 2 0 0 2 18/08/14/21 Setting Credits 2 0 0 0 0 0 0 0 0 0 | 18MBH163T | Fundamentals of Economics | 2 | 0 | 0 | 2 | | | | | | |
| Entrepreneuriship | | | | | | | | | | | | |
| 18MB/19407 | 18MBH261T | rights, Management and | 3 | 0 | 0 | 3 | | | | | | |
| 18/18/18/18/29 18/18/18/29 18/18/18/29 18/18/18/29 18/18 | | | | | | | 18MAB261J | Operations Research | 2 | 0 | 2 | |
| 18MBH93937 Floribuses Communication & Value Science V 2 0 0 2 | | | | | | | | Total Learning Credits | ; | | | 21 |
| 18MBH94687 Fundamentals of Menagement | 18MBH361T | Business Communication & Value Science – III | | 0 | | | | _ | | | | |
| 18MBH9657 Business Strategy | | | | | | | | 4. Professional Core Courses (C) | | | | |
| 18MBH9461 Financial amangement | | | | | | | | · , | | | | |
| 18MBH46457 Financial amangement | | | | 0 | | | Course | Course | Hou | ırs/ V | Veek | |
| 18/88/1491 Financial Minargement 2 0 0 2 1 18/88/1491 Financial Minargement 2 0 0 2 2 18/88/1492 Services Science and Service Operational 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Project Management 3 0 2 4 18/88/1492 Information Technology Monagement 3 0 2 2 3 18/88/1492 Information Technology Monagement 3 0 2 2 3 18/88/1492 Information Technology Monagement 3 0 2 2 3 18/88/1492 Information Technology Monagement 3 0 2 2 3 18/88/14 | | | | 0 | | | Code | Title | 1 | Т | Р | C |
| Internal Pressure & Rentagement 1 | 18MBH461T | Financial Management | | 0 | | | | 7.7 | | | | |
| ## ## ## ## ## ## ## # | 18MBH462T | | 2 | 0 | 0 | 2 | | | | | | |
| BMBH464J Mormation Technology Project Management 3 0 2 4 18MBH465T Marketing Research and Marketing 2 0 0 2 18CSC262J Object Organization and Architecture 3 0 2 4 4 18MBH465T Marketing Research and Marketing 2 0 0 2 18CSC264J Object Organization and Architecture 3 0 2 4 4 18MBH465T Marketing Research and Marketing 2 0 0 2 18CSC264J Object Organization and Architecture 3 0 2 4 4 18CSC264J Object Organization and Architecture 3 0 2 4 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 4 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 2 3 18CSC264J Object Organization and Architecture 3 0 2 3 18CSC264J Object Organization and Architecture 3 | 10MD114621 | Services Science and Service Operational | 2 | ٥ | 2 | 1 | | | | | | |
| Total Learning Total Learning 2 0 2 4 1 1 1 1 1 1 1 1 1 | | | 3 | U | 2 | 4 | | | | | | |
| Management Total Learning Credits 36 36 2 4 4 4 4 4 4 4 4 4 | 18MBH464J | Information Technology Project Management | 3 | 0 | 2 | 4 | | | | | | |
| Total Learning Credits 36 16CSC2661 Openting Systems | 40MDUACET | Marketing Research and Marketing | 0 | _ | 0 | , | | | | | | |
| Second Course C | 1 ONIBIT400 I | Management | 2 | U | U | 2 | | | | | | |
| Tourise | | | ing | Cre | dits | 36 | | | | | | |
| Course | | | 11 I | | | | | | | | | |
| Course | | 3. Engineering Science Courses (S) | | | | | | | | | | |
| Code | | | | | , , | | 18CSC268J | | 2 | U | 2 | 3 |
| 18EES161J Principles of Electrical Engineering 2 0 2 3 18ESS162J Principles of Electronics 2 0 2 3 18ESS162J Principles of Electronics 2 0 2 3 18ESS162J Principles of Electronics 5. Professional Elective Courses (E) (Any 5 Elective Courses) | | | | | | _ | 100000011 | | | ^ | _ | |
| 18EES162J Principles of Electronics | | | | | | | | | | | | |
| Total Learning Credits | | | | | | | | | | | | |
| S. Professional Elective Courses (E) | 18EES162J | | | 0 | 2 | | 18CSC363J | Computer Networks | | | 2 | |
| S. Professional Elective Courses (E) | | Total Learning Credits | | | | 6 | 18CSC364J | Information Security | | | | |
| Course | | 5 Professional Flactive Courses (F) | | | - | - | | | | | | |
| Course | | | | | | | 18CSC461J | Usability Design of Software Applications | | | | |
| Code | | (Any 5 Elective Courses) | , | laur | ٥/ | | 18CSC462J | Information Technology Workshop using Scilab | 1 | 0 | 2 | |
| Code | Course | Course | | iour. | S/ | | | Total Learning Credits | | | | 65 |
| Professional Elective - 1 | Course | Oburse | 1 | 1/00 | 1 | | | | 1 | | _ | |
| 18CSE3631 | | | , 1 | | | C | | CONTRACTOR AND THE | | | | |
| 18CSE3632 Cloud, Microservices& Application | | Title | L | | | С | | Open Elective Courses (O) | | | | |
| 18CSE363 Machine Learning | Code | Title Professional Elective - 1 | L | T | Р | | | Open Elective Courses (O) (Any 1 Courses)) | | | | |
| RocSe364 Robotics and Embedded Systems 2 0 2 3 18CSE3654 Robotics and Embedded Systems 2 0 2 3 18CSE3654 Robotics and Embedded Systems 2 0 2 3 18CSE3654 Data Mining and Analytics 2 0 2 3 | Code 18CSE361J | Title Professional Elective - 1 Conversational Systems | L 2 | T 0 | P 2 | 3 | Course | Open Elective Courses (O) (Any 1 Courses)) Course | Hou | ırs/ V | _ | |
| Robotics and Embedded Systems | Code 18CSE361J 18CSE362J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application | 2 2 | 0 0 | P 2 2 | 3 | Code | Open Elective Courses (O) (Any 1 Courses)) Course Title | Hou | _ | _ | С |
| 18CSE365J Modern Web Applications | Code 18CSE361J 18CSE362J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning | 2 2 | 0 0 | P 2 2 | 3 | Code 18CSO161T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics | Hou L 2 | Т | Р | |
| 18CSE366J Data Mining and Analytics 2 0 2 3 | Code 18CSE361J 18CSE362J 18CSE363J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices & Application Machine Learning Professional Elective - 2 | 2 2 2 | 0 0 0 | 2 2 2 | 3 3 | Code 18CSO161T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics | Hou L 2 | T 1 | P 0 | 3 |
| Professional Elective - 3 | 18CSE361J 18CSE362J 18CSE363J 18CSE364J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices & Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems | 2 2 2 2 | 0 0 0 0 | P 2 2 2 2 2 2 2 | 3 3 3 | Code 18CSO161T 18CSO162T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling | Hou L 2 | T 1 | P 0 0 | 3 |
| 18CSE469J Interprise Systems | 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE365J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications | 2 2 2 2 2 | 0 0 0 0 | 2 2 2 2 2 | 3 3 3 3 | Code 18CSO161T 18CSO162T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology | Hou L 2 2 2 | T 1 | P 0 0 | 3 3 |
| 18CSE468J Manage Processing and Pattern Recognition 2 0 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3 | 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE365J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices & Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics | 2 2 2 2 2 | 0 0 0 0 | 2 2 2 2 2 | 3 3 3 3 | Code 18CSO161T 18CSO162T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology | Hou L 2 2 2 | T 1 | P 0 0 | 3 3 |
| 18CSE469J Image Processing and Pattern Recognition 2 0 2 3 | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE366J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 | 2 2 2 2 2 2 2 | 0 0 0 0 0 | 2 2 2 2 2 2 2 | 3 3 3 3 3 | Code 18CSO161T 18CSO162T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits | Hou L 2 2 2 | T 1 | P 0 0 | 3 3 |
| Professional Elective - 4 | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE467J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems | 2 2 2 2 2 2 2 2 | 0 0 0 0 0 | P 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In | Hou L 2 2 2 | T 1 | P 0 0 | 3 3 |
| 18CSE461 Cognitive Science & Analytics 2 0 2 3 18CSE462 Introduction to Internet of Things 2 0 2 3 18CSE463 Cryptology 2 0 2 3 18CSE463 Cryptology 2 0 2 3 18CSE464 Cognitive Science & Analytics 2 0 2 3 18CSE465 Cognitive Science & Course Title Code Course Title Course Title Code Course Title Course Title Computation & Course Title | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE366J 18CSE467J 18CSE468J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance | 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) | Hou L 2 2 2 | T 1 1 | P 0 0 | 3 3 |
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| 18CSE463J Cryptology | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE467J 18CSE468J 18CSE469J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 | 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T Course Code | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title | Hou L 2 2 2 2 | T 1 1 1 1 1 T T T T T T T T T T T T T T | P 0 0 0 | 3 3 3 3 |
| Professional Elective - 5 | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE467J 18CSE468J 18CSE469J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices & Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I | Hou L 2 2 2 2 2 L | T 1 1 1 1 1 T T T T T T T T T T T T T T | P 0 0 0 | 3 3 3 3 C 1 |
| 18CSE464J Quantum Computation & Quantum Information 2 0 2 3 18CSE465J Advanced Social, Text and Media Analytics 2 0 2 3 18CSE466J Mobile Computing 2 0 2 0 18GNM101L Physical and Mental Health using Yoga 0 0 2 0 18GNM101L Physical and Mental Health using Yoga 0 0 2 0 18GNM101L NSS 18GNM102L NSS 18GNM103L NCC 18GNM103L NCC 18GNM103L NSO 18PDM201L Competencies in Social Skills 0 0 2 0 18PDM201L Critical and Creative Thinking Skills 0 0 2 0 18LEM102J Constitution of India 1 0 0 0 0 0 18LEM102J Value Education 1 0 1 0 18LEM103J Chinese / French / German / Japanese / Korean 2 0 2 0 2 0 0 0 0 0 | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE467J 18CSE468J 18CSE469J 18CSE461J 18CSE461J 18CSE462J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices & Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry! Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I | Hou L 2 2 2 2 2 1 1 1 0 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P 0 0 0 0 0 Week P 2 6 | 3 3 3 3 C 1 3 |
| 18CSE465J Advanced Social, Text and Media Analytics 2 0 2 3 18CSE466J Mobile Computing 2 0 2 3 15 15 15 15 15 15 15 | Code 18CSE361J 18CSE362J 18CSE363J 18CSE364J 18CSE366J 18CSE467J 18CSE468J 18CSE469J 18CSE461J 18CSE461J 18CSE462J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industryl Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II | Hou L 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P 0 0 0 0 0 Week P 2 6 | 3 3 3 3 3 C 1 1 3 |
| State Mobile Computing 2 0 2 3 Code Course Title L T P C Roman | Code 18CSE361J 18CSE362J 18CSE363J 18CSE366J 18CSE366J 18CSE467J 18CSE469J 18CSE461J 18CSE463J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industryl Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II | Hou L 2 2 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | P 0 0 0 0 0 Week P 2 6 | 3 3 3 3 3 C 1 1 3 |
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| 18LEM105J/ 18LEM106J/ | Code 18CSE361J 18CSE363J 18CSE364J 18CSE366J 18CSE366J 18CSE467J 18CSE469J 18CSE469J 18CSE465J 18CSE466J 18CSE466J 18CSE466J 18CSE461J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 Quantum Computation & Quantum Information Advanced Social, Text and Media Analytics Mobile Computing Total Learning Credits 8. Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Critical and Creative Thinking Skills Analytical India Value Education | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 1 5 1 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L 18CSP462L Code 18GNM101L 18GNM101L 18GNM102L 18GNM103L 18GNM103L 18GNM104L 18LEM109T 18LEM110L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II Total Learning Credits 8. Mandatory Courses (M) Course Title Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge Indian Art Form | Hou L 2 2 2 2 2 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1 0 1 | T 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 | Veek P 2 6 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 10 14 |
| 18LEM106J/ Korean | Code 18CSE361J 18CSE363J 18CSE364J 18CSE365J 18CSE366J 18CSE467J 18CSE469J 18CSE463J 18CSE465J 18CSE465J 18CSE466J 18CSE466J 18CSE466J 18CSE465J 18CSE465J 18CSE465J 18CSE460J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 Quantum Computation & Quantum Information Advanced Social, Text and Media Analytics Mobile Computing Total Learning Credits 8. Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Constitution of India Value Education | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 1 5 1 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L 18CSP462L Code 18GNM101L 18GNM101L 18GNM102L 18GNM103L 18GNM103L 18GNM104L 18LEM109T 18LEM110L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II Total Learning Credits 8. Mandatory Courses (M) Course Title Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge Indian Art Form | Hou L 2 2 2 2 2 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1 0 1 | T 1 1 1 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 | Veek P 2 6 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 10 14 |
| | Code 18CSE361J 18CSE362J 18CSE363J 18CSE365J 18CSE366J 18CSE467J 18CSE466J 18CSE469J 18CSE463J 18CSE465J 18CSE466J 18CSE465J 18CSE466J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 Quantum Computation & Quantum Information Advanced Social, Text and Media Analytics Mobile Computing Total Learning Credits 8. Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Constitution of India Value Education | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L 18CSP462L Code 18GNM101L 18GNM101L 18GNM102L 18GNM103L 18GNM103L 18GNM104L 18LEM109T 18LEM110L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II Total Learning Credits 8. Mandatory Courses (M) Course Title Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge Indian Art Form | Hou L 2 2 2 2 2 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1 0 1 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Veek P 2 6 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 10 14 |
| IULLIWIUIU | Code 18CSE361J 18CSE363J 18CSE363J 18CSE365J 18CSE366J 18CSE467J 18CSE469J 18CSE469J 18CSE465J 18CSE465J 18CSE465J 18CSE466J 18CSE465J 18CSE466J 18CSE465J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 Quantum Computation & Quantum Information Advanced Social, Text and Media Analytics Mobile Computing Total Learning Credits 8. Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Constitution of India Value Education | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L 18CSP462L Code 18GNM101L 18GNM101L 18GNM102L 18GNM103L 18GNM103L 18GNM104L 18LEM109T 18LEM110L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II Total Learning Credits 8. Mandatory Courses (M) Course Title Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge Indian Art Form | Hou L 2 2 2 2 2 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1 0 1 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Veek P 2 6 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 10 14 |
| | Code 18CSE361J 18CSE362J 18CSE363J 18CSE366J 18CSE366J 18CSE467J 18CSE466J 18CSE461J 18CSE463J 18CSE464J 18CSE465J 18CSE465J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18CSE46J 18ESE46J 18ESE46J 18ESE46J 18ESE46J 18ESE46J 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18PDM201L 18LEM101J 18LEM101J 18LEM105J 18LEM105J 18LEM105J 18LEM106J 18LEM106J | Title Professional Elective - 1 Conversational Systems Cloud, Microservices& Application Machine Learning Professional Elective - 2 Robotics and Embedded Systems Modern Web Applications Data Mining and Analytics Professional Elective - 3 Enterprise Systems Advance Finance Image Processing and Pattern Recognition Professional Elective - 4 Cognitive Science & Analytics Introduction to Internet of Things Cryptology Professional Elective - 5 Quantum Computation & Quantum Information Advanced Social, Text and Media Analytics Mobile Computing Total Learning Credits 8. Mandatory Courses (M) Course Title Professional Skills and Practices Competencies in Social Skills Critical and Creative Thinking Skills Analytical and Logical Thinking Skills Constitution of India Value Education | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 0 0 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 5 5 6 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 | Code 18CSO161T 18CSO162T 18CSO163T Course Code 18CSP361L 18CSP461L 18CSP462L Code 18GNM101L 18GNM101L 18GNM102L 18GNM103L 18GNM103L 18GNM104L 18LEM109T 18LEM110L | Open Elective Courses (O) (Any 1 Courses)) Course Title Behavioral Economics Computational Finance & Modeling Psychology Total Learning Credits 7. Project Work, Seminar, Internship In Industry/ Higher Technical Institutions (P) Course Title Mini Project – I Project Evaluation – I Project Evaluation – II Total Learning Credits 8. Mandatory Courses (M) Course Title Physical and Mental Health using Yoga NSS NCC NSO Indian Traditional Knowledge Indian Art Form | Hou L 2 2 2 2 2 1 1 0 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 1 1 0 1 1 1 0 1 | T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Veek P 2 6 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 3 3 3 3 3 3 3 10 14 |

20. (f) Program Articulation: B.Tech. in Computer Science and Business Systems

| | | | | F | rog | ıram | Lea | arni | ng (| Outo | omo | es (| PLC |)) | | | | |
|----------------|---|-----------------------|------------------|----------------------|----------------------------|-------------------|-------------------|------------------------------|--------|-----------------------|---------------|------------------------|-------------------|---------|---------|-------|--|--|
| | | Graduate Attributes | | | | | | | | | | | | | PSO | | | |
| Course Code | Course Name | Engineering Knowledge | Problem Analysis | Design & Development | Analysis, Design, Research | Modern Tool Usage | Society & Culture | Environment & Sustainability | Ethics | ndividual & Team Work | Communication | Project Mgt. & Finance | ife Long Learning | PSO - 1 | PSO - 2 | PSO-3 | | |
| 18PYB161J | Fundamentals of Physics | H | H | Н | H | Н | М | Ĺ | М | Н | М | М | Н | H | Н | М | | |
| 18MAB161T | Discrete Mathematics | Н | Н | Н | Н | М | L | L | L | М | М | L | Н | Н | Н | Н | | |
| 18MAB162T | Probability and Statistics | Н | Н | Н | Н | М | М | L | L | М | М | L | Н | Н | Н | Н | | |
| 18MAB163T | Linear Algebra | М | Н | М | Н | М | М | L | М | М | М | М | Н | L | Н | Н | | |
| 18MAB164J | Statistical Modeling | М | Н | Н | Н | Н | М | L | М | М | М | М | Н | L | Н | Н | | |
| 18MAB261J | Operations Research | Н | Н | Н | М | Н | М | L | М | Н | М | М | Н | L | Н | Н | | |
| 18EES161J | Principles of Electrical Engineering | Н | Н | Н | Н | Н | L | L | М | Н | Н | L | Н | Н | Н | Н | | |
| | Principles of Electronics | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | | |
| | Business Communication & Value Science – I | Н | Н | М | М | Н | L | L | М | Н | M | L | Н | L | Н | Н | | |
| | Business Communication & Value Science – II | Н | Н | Н | Н | М | L | L | М | Н | M | M | Н | L | Н | Н | | |
| | Fundamentals of Economics | Н | Н | Н | Н | Н | М | L | М | Н | Н | М | Н | L | Н | Н | | |
| 18MBH261T | Introduction to Innovation, Intellectual Property rights, Management and Entrepreneurship | Н | М | Н | М | L | L | L | М | L | L | L | М | Н | М | М | | |
| 18MBH262J | Design Thinking | Н | Н | Н | Н | М | М | L | М | М | М | М | Н | L | Н | Н | | |
| 18MBH361T | Business Communication & Value Science – III | Н | Н | -Η | Н | Н | М | L | М | Н | М | М | Н | Н | Н | М | | |
| 18MBH362T | Business Communication & Value Science – IV | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | L | Н | М | | |
| | Fundamentals of Management | Н | Н | М | М | Н | L | L | М | Н | М | L | Н | L | Н | Н | | |
| | Business Strategy | Н | Н | Н | Н | L | L | 1 | L | М | М | L | Н | Н | Н | Н | | |
| | Financial and Cost Accounting | Н | Н | Н | Н | Н | M | L | М | Н | M | М | Н | Н | Н | М | | |
| | Financial Management | Н | Н | Н | Н | Н | М | L | М | Н | М | М | Н | Н | Н | М | | |
| | Human Resource Management | Н | Н | Н | Н | М | L | L | L | М | M | L | Н | Н | Н | Н | | |
| 18MBH463J | Services Science and Service Operational Management | Н | Н | Н | Н | M | М | L | L | М | M | L | Н | Н | Н | Н | | |
| | Information Technology Project Management | М | Н | М | Н | М | М | L | М | М | М | М | Н | L | Н | Н | | |
| | Marketing Research and Marketing Management | М | Н | Н | Н | H | М | L | М | М | M | М | Н | L | Н | Н | | |
| | Fundamentals of Computer Science | Н | Н | H | М | Н | М | L | М | Н | M | М | Н | L | Н | Н | | |
| | Data Structures and Algorithms | Н | Н | Н | Н | Н | L | L | М | Н | Н | L | Н | Н | Н | Н | | |
| | Formal Language and Automata Theory | Н | Н | Н | Н | H | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | | |
| | Computer Organization and Architecture | Н | Н | Н | Н | Н | М | L | М | Н | М | М | Н | Н | Н | М | | |
| 18CSC263J | Object Oriented Programming | М | Н | Н | Н | M | M | Н | M | Н | M | M | Н | Н | Н | Н | | |
| 18CSC264J | Computational Statistics | Н | Н | Н | Н | Н | M | М | М | М | M | M | Н | L | Н | Н | | |
| 18CSC265J | Software Engineering | Н | Н | H | Н | H | Н | I | M | Н | M | M | Н | М | Н | H | | |
| 18CSC266J | Operating Systems | Н | Н | Н | Н | М | Н | Н | М | Н | M | Н | Н | Н | М | Н | | |
| 18CSC267J | Database Management Systems | Н | Н | Н | Н | M | М | М | M | М | Н | L | Н | Н | Н | Н | | |
| 18CSC268J | Software Design with Unified Modeling Language | Н | Н | Н | Н | M | M | M | М | М | Н | L | Н | Н | Н | Н | | |
| | Design and Analysis of Algorithms | Н | Н | Н | Н | M | M | М | М | М | Н | L | Н | Н | Н | Н | | |
| 18CSC362J | Compiler Design | Н | Н | Н | Н | Н | L | L | M | Н | П | L | Н | Н | Н | Н | | |
| 18CSC363J | Computer Networks | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | Н | | |
| 18CSC364J | Information Security | Н | Н | Н | Н | Н | М | М | М | М | Н | М | Н | Н | Н | Н | | |
| 18CSC365J | Artificial Intelligence | М | Н | Н | Н | Н | M | L | М | M | Н | M | Н | М | Н | Н | | |
| 18CSC461J | Usability Design of Software Applications | Н | Н | Н | Н | М | Н | Н | Н | M | Н | M | Н | Н | Н | Н | | |
| 18CSC462J | Information Technology Workshop using Scilab | М | Н | Н | Н | Н | М | М | М | M | Н | М | Н | Н | Н | Н | | |
| | Mini Project – I | Н | М | М | М | М | M | M | M | Н | Н | Н | М | Н | Н | Н | | |
| 18CSP461L | Project Evaluation – I | Н | M | M | M | M | M | M | M | Н | Н | Н | M | Н | Н | Н | | |
| | Project Evaluation – II | Н | Н | H | Н | Н | M | M | H | Н | Н | Н | Н | Н | М | М | | |
| 1003F402L | Program Average | Н | Н | М | Н | М | IVI | M | I | М | М | М | Н | М | M | M | | |
| II II I C | i iogiaiii Avelaye | П | П | IVI | П | IVI | L | IVI | L | IVI | IVI | IVI | П | IVI | IVI | IVI | | |

H – High Correlation, M – Medium Correlation, L – Low Correlation

20. (g) Implementation Plan: B.Tech. in Computer Science and Business Systems

| 1 | | | _ | | | | | | | | |
|--|--|---|---|--|---|--|--|---------------------------------|---|---|-----------------------------------|
| <u> </u> | Semester - I | Ta a | | | | | Semester - II | I | | | |
| Code | | | | | | Code | Course Title | Hou | urs/ Week | | С |
| | Business Communication & Value Science - I | 2 | 0 | 0 | 2 | | Business Communication & Value Science - II | 2 | 0 | 0 | 2 |
| | Fundamentals of Physics | 2 | 0 | 2 | 3 | | Fundamentals of Economics | 2 | 0 | 0 | 2 |
| | Discrete Mathematics | 3 | 1 | 0 | 4 | | | 3 | 1 | 0 | 4 |
| | Probability and Statistics | 3 | 0 | 0 | 3 | | Statistical Modeling | 3 | 0 | 2 | 4 |
| | Principles of Electrical Engineering | 2 | 0 | 2 | 3 | | Principles of Electronics | 2 | 0 | 2 | 3 |
| | Fundamentals of Computer Science | 3 | 0 | 4 | 5 | 18CSC162J | Data Structures and Algorithms | 3 | 0 | 4 | 5 |
| 18PDM101L | Professional Skills and Practices | 0 | 0 | 2 | 0 | 18LEM102J | Value Education | 1 | 0 | 1 | 0 |
| | Constitution of India | 1 | 0 | 0 | 0 | 18GNM102L/ | | | | | |
| 18GNM101L | Physical and Mental Health using Yoga | 0 | 0 | 2 | 0 | | NSS/NCC/NSO | 0 | 0 | 2 | 0 |
| | Total Learning Credits | 3 | | | 20 | 18GNM104L | | | | | |
| | | , | | | | 18LEM103J/ 18LEM104J/ 18LEM105J/ 18LEM106J/ 18LEM107J | Chinese / French / German / Japanese/ Korean | 2 | 0 | 2 | 0 |
| | | | | ы | | | Total Learning Credits | | | | 20 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | Semester - III | | | | | | Semester - IV | | | | |
| Code | Course Title | | ırs/ W | | С | Code | Course Title | Hou | _ | Veek | С |
| | | L | T | Р | | Code | | L | T | Р |) |
| | Financial Management | 2 | 0 | 0 | 2 | 4 | Introduction to Innovation, Intellectual Property | | | | |
| 18MBH462T | Human Resource Management | 2 | 0 | 0 | 2 | 18MBH261T | rights, Management and | 3 | 0 | 0 | 3 |
| 18CSC261T | Formal Language and Automata Theory | 3 | 0 | 0 | 3 | | Entrepreneurship | | | | |
| | Computer Organization and Architecture | 3 | 0 | 2 | 4 | 10MDIIACET | Marketing Research and Marketing | 2 | 0 | 0 | 2 |
| | Object Oriented Programming | 2 | 0 | 4 | 4 | 18MBH465T | Management | 2 | U | U | 2 |
| | Computational Statistics | 3 | 0 | 2 | 4 | 18MBH262J | Design Thinking | 2 | 0 | 2 | 3 |
| | Software Engineering | 3 | 0 | 2 | 4 | | Operations Research | 2 | 0 | 2 | 3 |
| | Competencies in Social Skills | 0 | 0 | 2 | 0 | | Operating Systems | 3 | 0 | 2 | 4 |
| TOT DIVIZOTE | Total Learning Credits | | U | | 23 | | Database Management Systems | 3 | 0 | 2 | 4 |
| | Total Learning Credits | _ | | | 23 | 18CSC268J | Software Design with Unified Modeling | 2 | 0 | 2 | 3 |
| | The second second second | | | | | 100002000 | Language | - | ľ | - | U |
| | | | | | | 18PDM2021 | Critical and Creative Thinking Skills | 0 | 0 | 2 | 0 |
| | | | | | | | Environmental Science | 1 | 0 | 0 | 0 |
| | | | | | | 10011111011 | Total Learning Credits | - 1 | U | U | 22 |
| | | | | | | | i Otal Lealing Credits | | | | |
| | | | | | | | | | | | |
| | 11,404 | H | | | | | | | | | |
| | Semester - V | | | | | | Semester - VI | | | | |
| | | Hou | ırs/ W | Veek | | | | Hou | ırs/ V | Veek | |
| Code | Semester - V Course Title | Hou | ırs/ W | Veek | С | Code | Semester - VI Course Title | Hou | ırs/V | Veek | C |
| | Course Title | L | Τ | Р | | | Course Title | L | T | Р | |
| 18MBH361T | Course Title Business Communication & Value Science - III | L 2 | T 0 | P 0 | 2 | 18MBH362T | Course Title Business Communication & Value Science - IV | L 2 | | | C 2 |
| 18MBH361T 18MBH363T | Course Title Business Communication & Value Science - III Fundamentals of Management | L 2 2 | T 0 0 | P 0 0 | 2 | 18MBH362T 18MBH365T | Course Title Business Communication & Value Science - IV Financial and Cost Accounting | 2 2 | T 0 0 | P 0 0 | С |
| 18MBH361T 18MBH363T 18MBH364T | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy | L 2 2 2 | T 0 0 | P 0 0 0 0 | 2 2 2 | 18MBH362T 18MBH365T 18CSC365J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence | 2 2 3 | T 0 0 | P 0 0 2 | C 2 2 4 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms | L 2 2 2 3 | T 0 0 0 | P 0 0 0 | 2 2 2 4 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security | 2 2 3 3 | T 0 0 0 0 0 | P 0 0 2 2 | C 2 2 4 4 4 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design | L 2 2 2 3 3 3 | T 0 0 0 0 0 0 | P 0 0 0 2 2 | 2 2 2 4 4 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks | L 2 2 3 3 3 3 | T 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 | C 2 2 4 4 4 4 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 | L 2 2 2 3 3 3 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 0 0 2 2 2 2 2 2 | 2 2 2 4 4 3 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 | L 2 2 3 3 3 2 | T 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 | C 2 2 4 4 4 3 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 | L 2 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 0 0 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 | L 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 3 3 3 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I | L 2 2 2 3 3 3 2 2 2 0 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 0 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form | L 2 2 3 3 3 2 | T 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 | C 2 2 4 4 4 4 3 3 3 0 0 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18CSP361L 18PDM301L | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills | L 2 2 2 3 3 3 2 2 0 0 0 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 | L 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 3 3 3 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18CSP361L 18PDM301L | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mnin Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge | L 2 2 2 3 3 3 2 2 2 0 0 0 1 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 0 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 0 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form | L 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 4 3 3 3 0 0 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18CSP361L 18PDM301L | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills | L 2 2 2 3 3 3 2 2 2 0 0 0 1 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form | L 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 4 3 3 3 0 0 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18CSP361L 18PDM301L | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits | L 2 2 2 3 3 3 2 2 2 0 0 0 1 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 0 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits | L 2 2 3 3 3 2 2 2 | T 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 4 3 3 3 0 0 |
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| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title | L 2 2 2 3 3 3 2 2 2 0 0 1 1 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 0 0 | 2 2 2 4 4 3 3 1 0 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits | L 2 2 3 3 3 2 2 2 0 | T 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 | C 2 2 4 4 4 4 3 3 3 0 0 |
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| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T Code 18MBH463J 18MBH464J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title Services Science and Service Operational Management Information Technology Project Management | L 2 2 2 3 3 2 2 0 0 0 1 1 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 0 2 2 2 2 2 2 2 2 0 0 Veek P 2 2 2 | 2 2 2 4 4 3 3 1 0 0 0 21 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J 18LEM110L | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits Semester - VIII Course Title Project Evaluation – II | L 2 2 3 3 3 2 2 2 0 | 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 2 P 2 P P P P P P | C 2 2 4 4 4 4 3 3 3 0 0 22 C C 10 |
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| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T Code 18MBH463J 18MBH464J 18CSC461J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title Services Science and Service Operational Management Information Technology Project Management Usability Design of Software Applications Information Technology Workshop using Scilab | L 2 2 2 3 3 3 2 2 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 0 0 Veek P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 4 3 3 1 0 0 21 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J 18LEM110L | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits Semester - VIII Course Title Project Evaluation – II | L 2 2 3 3 3 2 2 2 0 | 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 2 P 2 P P P P P P | C 2 2 4 4 4 3 3 3 0 0 22 C C 10 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T Code 18MBH463J 18MBH464J 18CSC461J 18CSC462J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title Services Science and Service Operational Management Information Technology Project Management Usability Design of Software Applications Information Technology Workshop using Scilab Professional Elective – 4 | L 2 2 2 3 3 3 2 2 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 0 0 Veek P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 0 0 21 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J 18LEM110L | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits Semester - VIII Course Title Project Evaluation – II | L 2 2 3 3 3 2 2 2 0 | 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 2 P 2 P P P P P P | C 2 2 4 4 4 3 3 3 0 0 22 C C 10 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T Code 18MBH463J 18MBH464J 18CSC462J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mnin Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title Services Science and Service Operational Management Information Technology Project Management Usability Design of Software Applications Information Technology Workshop using Scilab Professional Elective – 4 Professional Elective – 5 | L 2 2 2 3 3 3 2 2 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 0 0 0 0 0 0 0 0 0 0 | 2 2 2 4 4 3 3 1 0 0 21 C 4 4 3 2 3 3 2 3 3 3 2 3 3 3 3 3 3 3 3 3 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J 18LEM110L | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits Semester - VIII Course Title Project Evaluation – II | L 2 2 3 3 3 2 2 2 0 | 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 2 P 2 P P P P P P | C 2 2 4 4 4 3 3 3 0 0 22 C C 10 |
| 18MBH361T 18MBH363T 18MBH364T 18CSC361J 18CSC362J 18CSP361L 18PDM301L 18LEM109T Code 18MBH463J 18MBH464J 18CSC462J | Course Title Business Communication & Value Science - Ill Fundamentals of Management Business Strategy Design and Analysis of Algorithms Compiler Design Professional Elective – 1 Open Elective – 1 Mini Project – I Analytical and Logical Thinking Skills Indian Traditional Knowledge Total Learning Credits Semester – VII Course Title Services Science and Service Operational Management Information Technology Project Management Usability Design of Software Applications Information Technology Workshop using Scilab Professional Elective – 4 | L 2 2 3 3 3 2 2 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | P 0 0 0 2 2 2 2 2 2 2 2 0 0 Veek P 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 2 2 2 4 4 3 3 1 0 0 21 | 18MBH362T 18MBH365T 18CSC365J 18CSC364J 18CSC363J 18LEM110L | Course Title Business Communication & Value Science - IV Financial and Cost Accounting Artificial Intelligence Information Security Computer Networks Professional Elective – 2 Professional Elective – 3 Indian Art Form Total Learning Credits Semester - VIII Course Title Project Evaluation – II | L 2 2 3 3 3 2 2 2 0 | 0 0 0 0 0 0 0 0 | P 0 0 2 2 2 2 2 2 2 2 2 P 2 P P P P P P | C 2 2 4 4 4 3 3 3 0 0 22 C C 10 |