

| CREDIT INFO | | |
|----------------------|--|------------|
| S.no | Category | Credits |
| 1 | Foundation Core - Basic Sciences and Mathematics | 24 |
| 2 | Foundation Core - Basic Engineering Sciences | 16 |
| 3 | Foundation Core - Humanities, Social Sciences and Management | 15 |
| 4 | Discipline-linked Engineering Sciences | 12 |
| 5 | Discipline Core | 44 |
| 6 | Projects and Internship | 9 |
| 7 | Open Elective | 9 |
| 8 | Non-graded Core Requirement | 11 |
| 9 | Bridge Course | 2 |
| 10 | Specialization Elective | 21 |
| Total Credits | | 150 |

| Foundation Core - Basic Sciences and Mathematics | | | | | | | | | |
|--|-------------|---------------------------------------|-------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCHY101L | Engineering Chemistry | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 2 | BCHY101P | Engineering Chemistry Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 3 | BMAT101L | Calculus | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 4 | BMAT101P | Calculus Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 5 | BMAT102L | Differential Equations and Transforms | Theory Only | 1.0 | 3 | 1 | 0 | 0 | 4.0 |
| 6 | BMAT201L | Complex Variables and Linear Algebra | Theory Only | 1.0 | 3 | 1 | 0 | 0 | 4.0 |
| 7 | BMAT202L | Probability and Statistics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 8 | BMAT202P | Probability and Statistics Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 9 | BPHY101L | Engineering Physics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 10 | BPHY101P | Engineering Physics Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |

| Foundation Core - Basic Engineering Sciences | | | | | | | | | |
|--|-------------|--|-------------------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCSE101E | Computer Programming: Python | Embedded Theory and Lab | 1.0 | 1 | 0 | 4 | 0 | 3.0 |
| 2 | BCSE102L | Structured and Object-Oriented Programming | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 3 | BCSE102P | Structured and Object-Oriented Programming Lab | Lab Only | 1.0 | 0 | 0 | 4 | 0 | 2.0 |
| 4 | BCSE103E | Computer Programming: Java | Embedded Theory and Lab | 1.0 | 1 | 0 | 4 | 0 | 3.0 |
| 5 | BECE101L | Basic Electronics | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 6 | BECE101P | Basic Electronics Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 7 | BEEE101L | Basic Electrical Engineering | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 8 | BEEE101P | Basic Electrical Engineering Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |

Foundation Core - Humanities, Social Sciences and Management

| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
|-------|-------------|-------------------------------------|-------------|---------|---|---|---|---|---------|
| 1 | BENG101L | Technical English Communication | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 2 | BENG101P | Technical English Communication Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 3 | BENG102P | Technical Report Writing | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 4 | BFLE200L | Foreign Language | Basket | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 5 | BHSM200L | HSM Elective | Basket | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 6 | BSTS101P | Quantitative Skills Practice I | Lab Only | 1.0 | 0 | 0 | 3 | 0 | 1.5 |
| 7 | BSTS102P | Quantitative Skills Practice II | Soft Skill | 1.0 | 3 | 0 | 0 | 0 | 1.5 |
| 8 | BSTS201P | Qualitative Skills Practice I | Soft Skill | 1.0 | 3 | 0 | 0 | 0 | 1.5 |
| 9 | BSTS202P | Qualitative Skills Practice II | Lab Only | 1.0 | 0 | 0 | 3 | 0 | 1.5 |

Discipline-linked Engineering Sciences

| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
|-------|-------------|--|-------------|---------|---|---|---|---|---------|
| 1 | BECE102L | Digital Systems Design | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 2 | BECE102P | Digital Systems Design Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 3 | BECE204L | Microprocessors and Microcontrollers | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 4 | BECE204P | Microprocessors and Microcontrollers Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 5 | BMAT205L | Discrete Mathematics and Graph Theory | Theory Only | 1.0 | 3 | 1 | 0 | 0 | 4.0 |

Discipline Core

| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
|-------|-------------|--|-------------|---------|---|---|---|---|---------|
| 1 | BCSE202L | Data Structures and Algorithms | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 2 | BCSE202P | Data Structures and Algorithms Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 3 | BCSE204L | Design and Analysis of Algorithms | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 4 | BCSE204P | Design and Analysis of Algorithms Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 5 | BCSE205L | Computer Architecture and Organization | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 6 | BCSE301L | Software Engineering | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 7 | BCSE301P | Software Engineering Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 8 | BCSE302L | Database Systems | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 9 | BCSE302P | Database Systems Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 10 | BCSE303L | Operating Systems | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 11 | BCSE303P | Operating Systems Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 12 | BCSE304L | Theory of Computation | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 13 | BCSE305L | Embedded Systems | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 14 | BCSE306L | Artificial Intelligence | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 15 | BCSE307L | Compiler Design | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 16 | BCSE307P | Compiler Design Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |

| Discipline Core | | | | | | | | | |
|-----------------|----------|---------------------------------------|-------------|------|---|---|---|---|-----|
| 17 | BCSE308L | Computer Networks | Theory Only | 11.0 | 3 | 0 | 0 | 0 | 3.0 |
| 18 | BCSE308P | Computer Networks Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 19 | BCSE309L | Cryptography and Network Security | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 20 | BCSE309P | Cryptography and Network Security Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |

| Projects and Internship | | | | | | | | | |
|-------------------------|-------------|------------------------------|-------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCSE399J | Summer Industrial Internship | Project | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 2 | BCSE497J | Project-I | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 3 | BCSE498J | Project-II / Internship | Project | 1.0 | 0 | 0 | 0 | 0 | 5.0 |
| 4 | BCSE499J | One Semester Internship | Project | 1.0 | 0 | 0 | 0 | 0 | 14.0 |

| Open Elective | | | | | | | | | |
|---------------|-------------|--|-------------------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCSE391J | Technical Answers to Real Problems Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 2 | BCSE392J | Design Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 3 | BCSE393J | Laboratory Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 4 | BCSE394J | Product Development Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 5 | BCSE395J | Computer Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 6 | BCSE396J | Reading Course | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 7 | BCSE397J | Special Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 8 | BCSE398J | Simulation Project | Project | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 9 | BECE201L | Electronic Materials and devices | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 10 | BECE351E | Internet of Things | Embedded Theory and Lab | 1.0 | 1 | 0 | 2 | 0 | 2.0 |
| 11 | BECE352E | IoT Domain Analyst | Embedded Theory and Lab | 1.0 | 1 | 0 | 2 | 0 | 2.0 |
| 12 | BEEE201L | Electronic Materials | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 13 | BFST213E | Garment Designing and Manufacturing | Embedded Theory and Lab | 1.0 | 2 | 0 | 2 | 0 | 3.0 |
| 14 | BHUM201L | Mass Communication | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 15 | BHUM202L | Rural Development | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 16 | BHUM203L | Introduction to Psychology | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 17 | BHUM204L | Industrial Psychology | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 18 | BHUM205L | Development Economics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 19 | BHUM206L | International Economics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 20 | BHUM207L | Engineering Economics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 21 | BHUM208L | Economics of Strategy | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 22 | BHUM209L | Game Theory | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|-------------------------|-----|---|---|---|---|-----|
| 23 | BHUM210E | Econometrics | Embedded Theory and Lab | 1.0 | 2 | 0 | 2 | 0 | 3.0 |
| 24 | BHUM211L | Behavioral Economics | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 25 | BHUM212L | Mathematics for Economic Analysis | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 26 | BHUM213L | Corporate Social Responsibility | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 27 | BHUM214L | Political Science | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 28 | BHUM215L | International Relations | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 29 | BHUM216L | Indian Culture and Heritage | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 30 | BHUM217L | Contemporary India | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 31 | BHUM218L | Financial Management | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 32 | BHUM219L | Principles of Accounting | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 33 | BHUM220L | Financial Markets and Institutions | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 34 | BHUM221L | Economics of Money, Banking and Financial Markets | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 35 | BHUM222L | Security Analysis and Portfolio Management | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 36 | BHUM223L | Options, Futures and other Derivatives | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 37 | BHUM224L | Fixed Income Securities | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 38 | BHUM225L | Personal Finance | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 39 | BHUM226L | Corporate Finance | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 40 | BHUM227L | Financial Statement Analysis | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 41 | BHUM228L | Cost and Management Accounting | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 42 | BHUM229L | Mind, Embodiment, and Technology | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 43 | BHUM230L | Health Humanities in Biotechnological Era | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 44 | BMEE102P | Engineering Design Visualisation Lab | Lab Only | 1.0 | 0 | 0 | 4 | 0 | 2.0 |
| 45 | BMEE201L | Engineering Mechanics | Theory Only | 1.0 | 2 | 1 | 0 | 0 | 3.0 |
| 46 | BSTS301P | Advanced Competitive Coding-I | Soft Skill | 1.0 | 3 | 0 | 0 | 0 | 1.5 |
| 47 | BSTS302P | Advanced Competitive Coding - II | Soft Skill | 1.0 | 3 | 0 | 0 | 0 | 1.5 |
| 48 | CFOC101M | Advanced Green Manufacturing Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 49 | CFOC102M | Introduction to Cognitive Psychology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 50 | CFOC103M | Introduction to Political Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 51 | CFOC104M | Six Sigma | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 52 | CFOC105M | Emotional Intelligence | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 53 | CFOC106M | Manufacturing Strategy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 54 | CFOC107M | Supply Chain Analytics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 55 | CFOC108M | Systems Engineering: Theory and Practice | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 56 | CFOC109M | Design Thinking - A Primer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 57 | CFOC110M | MCDM Techniques Using R and MARLAB | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 58 | CFOC111M | Perspectives on Neurolinguistic | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 59 | CFOC112M | Sociology of Science | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 60 | CFOC113M | Contemporary Themes in India's Economic Development and Economic Survey | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 61 | CFOC114M | Problem Solving through Programming in C | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 62 | CFOC115M | Design and Analysis of Algorithms | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 63 | CFOC116M | Computer Vision | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 64 | CFOC117M | Spatial Informatics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|---|-----|
| 65 | CFOC118M | Practical Machine Learning with Tensorflow | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 66 | CFOC119M | Training of Trainers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 67 | CFOC120M | Knowledge Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 68 | CFOC121M | Leadership | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 69 | CFOC122M | Educational Leadership | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 70 | CFOC123M | Cost Accounting | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 71 | CFOC124M | Practitioners Course In Descriptive, Predictive and Prescriptive Analytics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 72 | CFOC125M | Decision Making Under Uncertainty | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 73 | CFOC126M | Data Analysis and Decision Making - III | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 74 | CFOC127M | Business Analytics and Data Mining Modeling Using R Part II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 75 | CFOC128M | Business Analytics and Text Mining Modeling Using Python | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 76 | CFOC129M | Economics of Health and Health Care | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 77 | CFOC130M | Human Resource Development | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 78 | CFOC131M | Performance and Reward Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 79 | CFOC132M | Corporate Social Responsibility | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 80 | CFOC133M | E-Business | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 81 | CFOC134M | Innovation, Business Models and Entrepreneurship | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 82 | CFOC135M | The Ethical Corporation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 83 | CFOC136M | Toyota Production System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 84 | CFOC137M | Intellectual Property Rights and Competition Law | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 85 | CFOC138M | Patent Search for Engineers and Lawyers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 86 | CFOC139M | Role of Craft and Technology in Interior - Architecture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 87 | CFOC140M | Glass In Buildings : Design And Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 88 | CFOC141M | Visual Perception and Art: A Survey Across the Cultures | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 89 | CFOC142M | Mapping Signal Processing Algorithms to Architectures | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 90 | CFOC143M | Introduction to Computer Vision | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 91 | CFOC144M | Op-Amp Practical Applications: Design, Simulation and Implementation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 92 | CFOC145M | Fabrication Techniques for MEMs - based sensors: clinical Perspective | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 93 | CFOC146M | Linear System Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 94 | CFOC147M | Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 95 | CFOC148M | Introduction to Wireless and Cellular Communications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 96 | CFOC149M | Digital Switching - I | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 97 | CFOC150M | Microelectronics: Devices To Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 98 | CFOC151M | Digital Image Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 99 | CFOC152M | Pattern Recognition and Application | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 100 | CFOC153M | Microwave Theory and Techniques | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 101 | CFOC154M | Principles and Techniques of Modern Radar Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 102 | CFOC155M | Computational Electromagnetics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 103 | CFOC156M | Microwave Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 104 | CFOC157M | Introduction to parallel Programming in Open MP | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 105 | CFOC158M | Reinforcement Learning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 106 | CFOC159M | Applied Natural Language Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 107 | CFOC160M | Python for Data Science | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 108 | CFOC161M | Data Science for Engineers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 109 | CFOC162M | Scalable Data Science | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 110 | CFOC163M | Advanced Computer Architecture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 111 | CFOC164M | Software Project Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 112 | CFOC165M | Software testing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 113 | CFOC166M | Hardware Modeling using Verilog | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 114 | CFOC167M | Synthesis of Digital Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 115 | CFOC168M | Switching Circuits and Logic Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 116 | CFOC169M | Demystifying networking | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 117 | CFOC170M | Modern Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 118 | CFOC171M | Introduction to Haskell Programming 2 | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 119 | CFOC172M | Flow through Porous Media | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 120 | CFOC173M | Bioenergy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 121 | CFOC174M | Introduction to Biostatistics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 122 | CFOC175M | Nanotechnology in Agriculture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 123 | CFOC176M | Computer Aided Drug Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 124 | CFOC177M | Drug Delivery: Principles and Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 125 | CFOC178M | Functional Genomics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 126 | CFOC179M | Introduction to Proteogenomics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 127 | CFOC180M | Introduction to Mechanobiology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 128 | CFOC181M | WildLife Conservation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 129 | CFOC182M | Organic Chemistry in Biology and Drug Development | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 130 | CFOC183M | Bioinorganic Chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 131 | CFOC184M | Spectroscopic Techniques for Pharmaceutical and Biopharmaceutical Industries | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 132 | CFOC185M | Biophysical chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 133 | CFOC186M | Deep Learning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 134 | CFOC187M | Blockchain Architecture Design and use Cases | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 135 | CFOC188M | Ethical Hacking | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 136 | CFOC189M | Organic Farming for Sustainable Agricultural Production | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 137 | CFOC190M | Positive Psychology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 138 | CFOC191M | Forests and their Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 139 | CFOC192M | Forest Biometry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 140 | CFOC193M | Bioengineering: An Interface with Biology and Medicine | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 141 | CFOC194M | Human Molecular Genetics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 142 | CFOC195M | Bioenergetics of Life Processes | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|---|-----|
| 143 | CFOC196M | Computational Systems Biology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 144 | CFOC197M | Bio-Informatics: Algorithms and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 145 | CFOC198M | Biostatistics and Design of Experiments | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 146 | CFOC199M | Medical Biomaterials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 147 | CFOC200M | Demystifying the Brain | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 148 | CFOC201M | Principles and Applications of NMR Spectroscopy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 149 | CFOC202M | Cell Culture Technologies | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 150 | CFOC203M | Natural Hazards | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 151 | CFOC204M | Modern Construction Materials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 152 | CFOC205M | Energy Efficiency, Acoustics and Daylighting in Building | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 153 | CFOC206M | Fire Protection, Services and Maintenance Management of Building | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 154 | CFOC207M | Electronic Waste Management - Issues And Challenges | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 155 | CFOC208M | Higher Surveying | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 156 | CFOC209M | Environmental Remediation of Contaminated Sites | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 157 | CFOC210M | Soil Structure Interaction | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 158 | CFOC211M | Introduction to Accounting and Finance for Civil Engineers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 159 | CFOC212M | Scheduling Techniques in Projects | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 160 | CFOC213M | GPS Surveying | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 161 | CFOC214M | Sustainable Materials and Green Buildings | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 162 | CFOC215M | Geomorphic Processes: Landforms and Landscapes | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 163 | CFOC216M | Introduction To Process Modeling in the Membrane Separation Process | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 164 | CFOC217M | Computational Geometry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 165 | CFOC218M | Compiler Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 166 | CFOC219M | Embedded System Design with ARM | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 167 | CFOC220M | VLSI Physical Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 168 | CFOC221M | Cloud computing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 169 | CFOC222M | Artificial Intelligence : Knowledge Representation And Reasoning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 170 | CFOC223M | Privacy and Security in Online Social Media | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 171 | CFOC224M | Information Security - 5 - Secure Systems Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 172 | CFOC225M | Model Checking | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 173 | CFOC226M | Randomized Algorithms | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 174 | CFOC227M | GPU Architectures and Programming | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 175 | CFOC228M | Multi-Core Computer Architecture - Storage and Interconnects | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 176 | CFOC229M | Data Analytics with Python | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 177 | CFOC230M | Arithmetic Circuit Complexity | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 178 | CFOC231M | Google Cloud Computing Foundation Course | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 179 | CFOC232M | Consumer Behaviour | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 180 | CFOC233M | Enhancing Soft Skills and Personality | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 181 | CFOC234M | Introduction to Airplane Performance | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 182 | CFOC235M | Rocket Propulsion | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 183 | CFOC236M | Aircraft Maintenance | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 184 | CFOC237M | Sustainable Architecture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 185 | CFOC238M | Introduction to History of Architecture in India | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 186 | CFOC239M | Structure, Form, and Architecture : The Synergy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 187 | CFOC240M | Interactomics : Basics and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 188 | CFOC241M | Introduction to Professional Scientific Communication | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 189 | CFOC242M | Material and Energy Balances | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 190 | CFOC243M | Thermodynamics for Biological Systems: Classical and Statistical Aspect | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 191 | CFOC244M | Optical Spectroscopy and Microscopy : Fundamentals of Optical Measurements and Instrumentation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 192 | CFOC245M | Fundamentals of Semiconductor Devices | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 193 | CFOC246M | Characterization of Construction Materials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 194 | CFOC247M | Introduction to Civil Engineering Profession | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 195 | CFOC248M | Environmental Geomechanics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 196 | CFOC249M | Mechanical Characterization of Bituminous Materials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 197 | CFOC250M | Geosynthetics and Reinforced Soil Structures | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 198 | CFOC251M | Geotechnical Engineering II Foundation Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 199 | CFOC252M | Landscape Architecture and Site Planning - Basic Fundamentals | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 200 | CFOC253M | Plastic Waste Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 201 | CFOC254M | Advanced Topics in the Science and Technology of Concrete | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 202 | CFOC255M | Applied Environmental Microbiology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 203 | CFOC256M | Digital Land Surveying And Mapping (DLS&M) | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 204 | CFOC257M | Earthquake Geology: A tool for Seismic Hazard Assessment | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 205 | CFOC258M | Introduction to Geographic Information Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 206 | CFOC259M | Structural Dynamics | Online Course | 2.0 | 0 | 0 | 0 | 0 | 4.0 |
| 207 | CFOC260M | Water Supply Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 208 | CFOC261M | Geo Spatial Analysis in Urban Planning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 209 | CFOC262M | Geotechnical Engineering - 1 | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 210 | CFOC263M | Maintenance and Repair of Concrete Structures | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 211 | CFOC264M | Thermodynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 212 | CFOC265M | Geomorphology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 213 | CFOC266M | Remote Sensing Essentials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 214 | CFOC267M | Hydraulic Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 215 | CFOC268M | Environmental Quality Monitoring and Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 216 | CFOC269M | Electrochemical Technology in Pollution Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 217 | CFOC270M | Advanced Thermodynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 218 | CFOC271M | Membrane Technology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 219 | CFOC272M | Computational Fluid Dynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 220 | CFOC273M | Transport phenomena | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 221 | CFOC274M | Optimization in Chemical Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 222 | CFOC275M | Soft Nano Technology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 223 | CFOC276M | Transport processes I - Heat and Mass Transfer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 224 | CFOC277M | Process Control - Design, Analysis and Assessment | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 225 | CFOC278M | Heat Transfer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 226 | CFOC279M | Chemical Reaction Engineering II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 227 | CFOC280M | Multiphase Flows | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 228 | CFOC281M | Mass Transfer Operations - I | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 229 | CFOC282M | Waste to Energy Conversion | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 230 | CFOC283M | Equipment Design : Mechanical Aspects | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 231 | CFOC284M | An Introduction to Cardiovascular Fluid Mechanics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 232 | CFOC285M | Computer Aided Applied Single Objective Optimization | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 233 | CFOC286M | Basic Principles and Calculations in Chemical Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 234 | CFOC287M | Introduction to Blockchain Technology and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 235 | CFOC288M | Foundations of Cryptography | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 236 | CFOC289M | Introduction to Database Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 237 | CFOC290M | Operating System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 238 | CFOC291M | Programming in C++ | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 239 | CFOC292M | Programming in Java | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 240 | CFOC293M | Data Base Management System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 241 | CFOC294M | Introduction to Algorithms and Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 242 | CFOC295M | Data Mining | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 243 | CFOC296M | Embedded Systems Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 244 | CFOC297M | Real Time Operating System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 245 | CFOC298M | Introduction to Soft Computing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 246 | CFOC299M | Cryptography and Network Security | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 247 | CFOC300M | Introduction to Internet of Things | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 248 | CFOC301M | Computer Networks and Internet Protocol | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 249 | CFOC302M | Introduction to Industry 4.0 and Industrial Internet of Things | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 250 | CFOC303M | Computer Architecture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 251 | CFOC304M | Programming, Data Structures And Algorithms Using Python | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 252 | CFOC305M | Introduction to Machine Learning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 253 | CFOC306M | Social Networks | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 254 | CFOC307M | Foundations to Computer Systems Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 255 | CFOC308M | The Joy of Computing using Python | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 256 | CFOC309M | Discrete Mathematics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 257 | CFOC310M | An Introduction to Artificial Intelligence | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 258 | CFOC311M | User-centric Computing for Human-Computer Interaction | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 259 | CFOC312M | Cloud Computing and Distributed Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 260 | CFOC313M | Machine Learning | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 261 | CFOC314M | Modern Application Development | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 262 | CFOC315M | An Introduction To Programming Through C++ | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 263 | CFOC316M | Design and Pedagogy of the Introductory Programming Course | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 264 | CFOC317M | Quantitative Methods in Chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 265 | CFOC318M | Basics in Inorganic Chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 266 | CFOC319M | Ultrafast Laser Spectroscopy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 267 | CFOC320M | Transition Metal Organometallics in Catalysis and Biology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 268 | CFOC321M | Essentials of Biomolecules : Nucleic Acids and Peptides | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 269 | CFOC322M | Fundamentals of Spectroscopy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 270 | CFOC323M | Advanced Chemical Thermodynamics and Kinetics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 271 | CFOC324M | Biochemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 272 | CFOC325M | Organometallic Chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 273 | CFOC326M | Chemical Applications of Symmetry and Group Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 274 | CFOC327M | Basic Thermodynamics : Classical and Statistical Approaches | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 275 | CFOC328M | Medicinal Chemistry | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 276 | CFOC329M | Design, Technology and Innovation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 277 | CFOC330M | Geographic Information System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 278 | CFOC331M | Product Design and Innovation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 279 | CFOC332M | Fundamentals of Automotive Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 280 | CFOC333M | Electronics Equipment Integration and Prototype Building | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 281 | CFOC334M | High Power Multilevel Converters-Analysis, Design and Operational Issues | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 282 | CFOC335M | Fuzzy Sets, Logic and Systems and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 283 | CFOC336M | Transmission Lines and Electromagnetic Waves | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 284 | CFOC337M | Digital IC Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 285 | CFOC338M | Signals and Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 286 | CFOC339M | Power Management Integrated Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 287 | CFOC340M | DC Power Transmission Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 288 | CFOC341M | Microprocessors and Interfacing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 289 | CFOC342M | Design and Simulation of Power Conversion using Open Source Tools | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 290 | CFOC343M | Integrated Circuits, MOSFETs, OP-Amps and their Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 291 | CFOC344M | Electronic Systems for Cancer Diagnosis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 292 | CFOC345M | Principles of Signals and Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 293 | CFOC346M | Principles of Communication Systems - I | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|---|-----|
| 294 | CFOC347M | Principles of Digital Communication | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 295 | CFOC348M | Electric Vehicles - Part 1 | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 296 | CFOC349M | Nonlinear Adaptive Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 297 | CFOC350M | Antennas | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 298 | CFOC351M | Multirate DSP | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 299 | CFOC352M | Control Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 300 | CFOC353M | Introduction to Photonics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 301 | CFOC354M | Microwave Integrated Circuits 2 | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 302 | CFOC355M | Analog IC Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 303 | CFOC356M | Analog Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 304 | CFOC357M | Advance Power Electronics and Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 305 | CFOC358M | CMOS Digital VLSI Design | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 306 | CFOC359M | Analog Circuits and Systems through SPICE Simulation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 307 | CFOC360M | Discrete Time Signal Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 308 | CFOC361M | Digital Electronic Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 309 | CFOC362M | Fundamentals of MIMO Wireless Communication | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 310 | CFOC363M | Spread Spectrum Communications and Jamming | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 311 | CFOC364M | Basic Building Blocks of Microwave Engineering & Design Principles of RF and Microwave filters and Amplifiers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 312 | CFOC365M | Evolution of Air Interface towards 5G | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 313 | CFOC366M | Architectural Design of Digital Integrated Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 314 | CFOC367M | Electrical Machines - II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 315 | CFOC368M | Medical Image Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 316 | CFOC369M | Biomedical Signal Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 317 | CFOC370M | Microprocessors And Microcontrollers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 318 | CFOC371M | Recent Advances in Transmission Insulator | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 319 | CFOC372M | VLSI Signal Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 320 | CFOC373M | Analog Electronic Circuits | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 321 | CFOC374M | Network Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 322 | CFOC375M | Optical Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 323 | CFOC376M | Mathematical Methods and Techniques in Signal Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 324 | CFOC377M | A brief introduction of Micro " Sensors | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 325 | CFOC378M | Statistical Signal Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 326 | CFOC379M | Nonlinear System Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 327 | CFOC380M | Ethics in Engineering Practice | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 328 | CFOC381M | Introduction to Research | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 329 | CFOC382M | Matlab Programming for Numerical Computation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 330 | CFOC383M | Roadmap for Patent Creation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 331 | CFOC384M | Entrepreneurship Essentials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 332 | CFOC385M | Fuzzy Logic and Neural Networks | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 333 | CFOC386M | Microeconomics : Theory & Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|---|-----|
| 334 | CFOC387M | Introduction to Environmental Economics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 335 | CFOC388M | Energy Resources, Economics and Environment | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 336 | CFOC389M | Literary Criticism (From Plato to Leavis) | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 337 | CFOC390M | Twentieth Century Fiction | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 338 | CFOC391M | Effective Writing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 339 | CFOC392M | Strategic Trade and Protectionism - Theories and Empirics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 340 | CFOC393M | Introduction to Cultural Studies | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 341 | CFOC394M | Introduction to Basic Spoken Sanskrit | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 342 | CFOC395M | Speaking Effectively | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 343 | CFOC396M | Soft Skill Development | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 344 | CFOC397M | Intellectual Property | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 345 | CFOC398M | English Language for Competitive Exams | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 346 | CFOC399M | English Literature for Competitive Exams | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 347 | CFOC400M | Language and Mind | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 348 | CFOC401M | The Nineteenth - Century English Novel | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 349 | CFOC402M | Introduction to World Literature | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 350 | CFOC403M | Patent Drafting for Beginners | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 351 | CFOC404M | Patent Law for Engineers and Scientists | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 352 | CFOC405M | Economic Growth & Development | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 353 | CFOC406M | Human Behaviour | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 354 | CFOC407M | Introduction to Modern Indian Political Thought | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 355 | CFOC408M | English Literature of the Romantic Period, 1798 - 1832 | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 356 | CFOC409M | Literature, Culture and Media | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 357 | CFOC410M | Introduction to Brain & Behaviour | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 358 | CFOC411M | Modern Indian Writing in Translation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 359 | CFOC412M | Introduction to Political Ideologies : Contexts, Ideas, and Practices | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 360 | CFOC413M | Indian Business History | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 361 | CFOC414M | German - II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 362 | CFOC415M | German - I | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 363 | CFOC416M | Feminism : Concepts and Theories | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 364 | CFOC417M | An Introduction to Smooth Manifolds | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 365 | CFOC418M | Measure Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 366 | CFOC419M | Basic Real Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 367 | CFOC420M | Probabilistic Methods in PDE | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 368 | CFOC421M | Graph Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 369 | CFOC422M | Transform Calculus and its applications in Differential Equations | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 370 | CFOC423M | Integral and Vector Calculus | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 371 | CFOC424M | Basic Linear Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 372 | CFOC425M | Introduction to Rings And Fields | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 373 | CFOC426M | Numerical Methods : Finite Difference Approach | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 374 | CFOC427M | Numerical Linear Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 375 | CFOC428M | Ordinary and Partial Differential Equations and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 376 | CFOC429M | Advanced Engineering Mathematics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 377 | CFOC430M | Mathematical Methods and its Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 378 | CFOC431M | Multivariable Calculus | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 379 | CFOC432M | Chaotic Dynamical System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 380 | CFOC433M | Engineering Mathematics II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 381 | CFOC434M | Advanced Probability Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 382 | CFOC435M | Statistical Inference | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 383 | CFOC436M | Introduction to Algebraic Geometry and Commutative Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 384 | CFOC437M | Linear Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 385 | CFOC438M | Introduction to Probability and Statistics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 386 | CFOC439M | Descriptive Statistics with R Software | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 387 | CFOC440M | Engineering Mechanics - Statics and Dynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 388 | CFOC441M | Experimental Stress Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 389 | CFOC442M | Robotics and Control : Theory and Practice | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 390 | CFOC443M | Computational Fluid Dynamics for Incompressible Flows | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 391 | CFOC444M | Experimental Methods in Fluid Mechanics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 392 | CFOC445M | Foundations of Computational Materials Modelling | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 393 | CFOC446M | Acoustic Materials and Metamaterials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 394 | CFOC447M | Power Plant Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 395 | CFOC448M | Applied Ergonomics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 396 | CFOC449M | Product Design and Manufacturing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 397 | CFOC450M | Manufacturing Process Technology I & II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 398 | CFOC451M | Introduction To Mechanical Micro Machining | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 399 | CFOC452M | Non Traditional Abrasive Machining Processes Ultrasonic, Abrasive Jet and Abrasive Water Jet Machining | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 400 | CFOC453M | Gear And Gear Unit Design : Theory And Practice | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 401 | CFOC454M | Conduction and Convection Heat Transfer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 402 | CFOC455M | Laws of Thermodynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 403 | CFOC456M | Kinematics of Mechanisms and Machines | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 404 | CFOC457M | Introduction To Fluid Mechanics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 405 | CFOC458M | Fundamental of Welding Science and Technology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 406 | CFOC459M | Introduction to Abrasive Machining and Finishing Processes | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 407 | CFOC460M | Automatic Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 408 | CFOC461M | Inspection and Quality Control in Manufacturing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 409 | CFOC462M | Diffusion in Multicomponent Solids | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 410 | CFOC463M | Processing of Polymers and Polymer Composites | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 411 | CFOC464M | Operations Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 412 | CFOC465M | Convective Heat Transfer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|---|-----|
| 413 | CFOC466M | Two phase flow and heat transfer | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 414 | CFOC467M | Steam and Gas Power Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 415 | CFOC468M | Principles of Casting Technology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 416 | CFOC469M | Financial Mathematics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 417 | CFOC470M | Modelling and Simulation of Dynamic Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 418 | CFOC471M | Fundamentals of combustion for propulsion | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 419 | CFOC472M | Industrial Automation And Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 420 | CFOC473M | Fundamentals of Nuclear Power Generation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 421 | CFOC474M | Mechanics of Machining | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 422 | CFOC475M | IC Engines and Gas Turbines | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 423 | CFOC476M | Principles of Industrial Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 424 | CFOC477M | Computer Integrated Manufacturing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 425 | CFOC478M | Machining Science | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 426 | CFOC479M | Introduction to Stochastic Processes | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 427 | CFOC480M | Introduction to System Dynamics Modeling | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 428 | CFOC481M | Management of New Products and Services | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 429 | CFOC482M | Integrated Marketing Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 430 | CFOC483M | Simulation of Business Systems: An Applied Approach | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 431 | CFOC484M | Production and Operation Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 432 | CFOC485M | Services Marketing : Integrating People, Technology, Strategy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 433 | CFOC486M | Managerial Skills for Interpersonal Dynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 434 | CFOC487M | Financial Institutions and Markets | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 435 | CFOC488M | Business Analytics For Management Decision | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 436 | CFOC489M | Services Marketing : A Practical Approach | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 437 | CFOC490M | Sales and Distribution Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 438 | CFOC491M | Principles of Human Resource Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 439 | CFOC492M | Managing change in organizations | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 440 | CFOC493M | Management of Inventory Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 441 | CFOC494M | Quality Design And Control | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 442 | CFOC495M | Foundation Course in Managerial Economics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 443 | CFOC496M | Engineering Econometrics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 444 | CFOC497M | Financial Statement Analysis and Reporting | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 445 | CFOC498M | Business Statistics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 446 | CFOC499M | Global Marketing Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 447 | CFOC500M | Marketing Research and Analysis - II | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 448 | CFOC501M | Infrastructure Planning and Managements | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 449 | CFOC502M | Modelling and Analytics for Supply Chain Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 450 | CFOC503M | Marketing Analytics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 451 | CFOC504M | Financial Management For Managers | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 452 | CFOC505M | Management of Commercial Banking | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 453 | CFOC506M | Behavioral and Personal Finance | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |

| Open Elective | | | | | | | | |
|---------------|----------|---|---------------|-----|---|---|---|-----|
| 454 | CFOC507M | Total Quality Management - 1 | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 455 | CFOC508M | Entrepreneurship | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 456 | CFOC509M | Modeling of Tundish Steelmaking Process in Continuous Casting | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 457 | CFOC510M | Fundamentals of Electronic Materials and Devices | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 458 | CFOC511M | Introduction to Materials Science and Engineering | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 459 | CFOC512M | Corrosion - Part I | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 460 | CFOC513M | Solar Photovoltaics: Principles, Technologies and Materials | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 461 | CFOC514M | Welding Processes | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 462 | CFOC515M | Theory and Practice of Non Destructive Testing | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 463 | CFOC516M | Steel Quality: Role of Secondary Refining and Continuous Casting | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 464 | CFOC517M | Materials Science and Engineering | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 465 | CFOC518M | Surface Engineering of Nanomaterials | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 466 | CFOC519M | Dealing with Materials Data: Collection, Analysis and Interpretation | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 467 | CFOC520M | Friction and Wear of Materials: Principle and Case Studies | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 468 | CFOC521M | Material Characterization | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 469 | CFOC522M | Offshore Structures Under Special Environmental Loads Including Fire Resistance | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 470 | CFOC523M | Physics of Biological Systems | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 471 | CFOC524M | Group Theory methods in Physics | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 472 | CFOC525M | Experimental Physics - II | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 473 | CFOC526M | Quantum Mechanics I | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 474 | CFOC527M | A Brief Course on Superconductivity | Online Course | 1.0 | 0 | 0 | 0 | 1.0 |
| 475 | CFOC528M | Fiber Optics | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 476 | CFOC529M | Electromagnetism | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 477 | CFOC530M | Experimental Physics III | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 478 | CFOC531M | Electronic Theory of Solids | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 479 | CFOC532M | Introduction to Atmospheric and Space Sciences | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 480 | CFOC533M | Optical Sensors | Online Course | 1.0 | 0 | 0 | 0 | 1.0 |
| 481 | CFOC534M | Evaluation of Textiles Materials | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 482 | CFOC535M | Advanced Textile Printing Technology | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 483 | CFOC536M | Textured Yarn Technology | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 484 | CFOC537M | Theory of Yarn Structure | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 485 | CFOC538M | Testing of Functional and Technical Textiles | Online Course | 1.0 | 0 | 0 | 0 | 2.0 |
| 486 | CFOC539M | Applied Optimization for Wireless, Machine Learning, Big Data | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 487 | CFOC540M | Deep Learning for Computer Vision | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 488 | CFOC541M | Deep Learning for Visual Computing | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 489 | CFOC542M | Principles of Compiler Design | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 490 | CFOC543M | International Business | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |
| 491 | CFOC544M | Learning Analytics Tools | Online Course | 1.0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 492 | CFOC545M | Advanced IoT Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 493 | CFOC546M | Algorithms for Big Data | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 494 | CFOC547M | Decision Making Using Financial Accounting | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 495 | CFOC548M | Introduction on Intellectual Property to Engineers and Technologists | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 496 | CFOC549M | Introduction to Quantum Computing: Quantum Algorithms and Qiskit | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 497 | CFOC550M | Numerical Analysis | Online Course | 1.0 | 0 | 0 | 0 | 0 | 4.0 |
| 498 | CFOC551M | Quantum Technology and Quantum Phenomena in Macroscopic Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 499 | CFOC552M | Electrochemical Impedance Spectroscopy | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 500 | CFOC553M | Carbon Materials and Manufacturing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 501 | CFOC554M | Electronic Packaging and Manufacturing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 502 | CFOC555M | Finite Element Method | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 503 | CFOC556M | Physics of Materials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 504 | CFOC557M | X-ray Crystallography and Diffraction | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 505 | CFOC558M | Solar Photovoltaics Fundamentals, Technology and Applications | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 506 | CFOC559M | Design of Photovoltaic Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 507 | CFOC560M | Fundamentals of Micro and Nanofabrication | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 508 | CFOC561M | Biomedical Nanotechnology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 509 | CFOC562M | Design and Analysis of VLSI Subsystems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 510 | CFOC563M | Physics of Nanoscale Devices | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 511 | CFOC564M | Photonic Integrated Circuit | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 512 | CFOC565M | Technologies for Clean and Renewable Energy Production | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 513 | CFOC566M | Elements of Solar Energy Conversion | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 514 | CFOC567M | Physics of Renewable Energy Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 515 | CFOC568M | Structural Analysis of Nanomaterials | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 516 | CFOC569M | Computational Approach to Materials Science and Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 517 | CFOC570M | Public Speaking | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 518 | CFOC571M | Introduction To CFD | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 519 | CFOC572M | Dairy And Food Process And Products Technology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 520 | CFOC573M | Fundamentals Of Food Process Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 521 | CFOC574M | Micro Irrigation Engineering | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 522 | CFOC575M | Wildlife Ecology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 523 | CFOC576M | Integrated Waste Management For A Smart City | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 524 | CFOC577M | Introduction To Multimodal Urban Transportation Systems (MUTS) | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 525 | CFOC578M | Wastewater Treatment And Recycling | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 526 | CFOC579M | Structural Geology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 527 | CFOC580M | Real-Time Systems | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 528 | CFOC581M | Algorithmic Game Theory | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 529 | CFOC582M | Computational Number Theory and Algebra | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Open Elective | | | | | | | | | |
|---------------|----------|--|---------------|-----|---|---|---|---|-----|
| 530 | CFOC583M | Power System Protection | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 531 | CFOC585M | Great Experiments In Psychology | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 532 | CFOC586M | Spoken Sanskrit: Basic and Intermediate Levels | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 533 | CFOC587M | Economics of Banking and Finance Markets | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 534 | CFOC588M | Concepts Of Thermodynamics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 535 | CFOC589M | Engineering Drawing And Computer Graphics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 536 | CFOC590M | Management Information System | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 537 | CFOC591M | Principles Of Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 538 | CFOC592M | Stress Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 539 | CFOC593M | Corporate Finance | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 540 | CFOC594M | Customer Relationship Management | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 541 | CFOC595M | Urbanization and Environment | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 542 | CFOC596M | Digital Speech Processing | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 543 | CFOC597M | Globalization And Culture | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 544 | CFOC598M | Elements of Visual Representation | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 545 | CFOC622M | Indian Art: Materials, Techniques and Artistic Practices | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |
| 546 | CFOC623M | Space Flight Mechanics | Online Course | 1.0 | 0 | 0 | 0 | 0 | 3.0 |

| Non-graded Core Requirement | | | | | | | | | |
|-----------------------------|-------------|----------------------------------|---------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCHY102N | Environmental Sciences | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 2 | BCSE101N | Introduction to Engineering | Project | 1.0 | 0 | 0 | 0 | 0 | 1.0 |
| 3 | BEXC100N | Extra curricular activities | Basket | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 4 | BHUM101N | Ethics and Values | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 5 | BSSC101N | Essence of Traditional Knowledge | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |
| 6 | BSSC102N | Indian Constitution | Online Course | 1.0 | 0 | 0 | 0 | 0 | 2.0 |

| Bridge Course | | | | | | | | | |
|---------------|-------------|---------------------------------|-------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BENG101N | Effective English Communication | Lab Only | 1.0 | 0 | 0 | 4 | 0 | 2.0 |

| Specialization Elective | | | | | | | | | |
|-------------------------|-------------|----------------------|-------------|---------|---|---|---|---|---------|
| sl.no | Course Code | Course Title | Course Type | Version | L | T | P | J | Credits |
| 1 | BCSE209L | Machine Learning | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 2 | BCSE209P | Machine Learning Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |

| Specialization Elective | | | | | | | | | |
|-------------------------|----------|-------------------------------------|-------------|-----|---|---|---|---|-----|
| 3 | BCSE332L | Deep Learning | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 4 | BCSE332P | Deep Learning Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 5 | BCSE416L | Game Programming | Theory Only | 1.1 | 3 | 0 | 0 | 0 | 3.0 |
| 6 | BCSE416P | Game Programming Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 7 | BCSE417L | Machine vision | Theory Only | 1.1 | 3 | 0 | 0 | 0 | 3.0 |
| 8 | BCSE417P | Machine Vision Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 9 | BCSE418L | Explainable Artificial Intelligence | Theory Only | 1.1 | 2 | 0 | 0 | 0 | 2.0 |
| 10 | BCSE419L | Speech and Language Processing | Theory Only | 1.0 | 3 | 0 | 0 | 0 | 3.0 |
| 11 | BCSE419P | Speech and Language Processing lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 12 | BCSE427L | Cognitive Robotics | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 13 | BCSE427P | Cognitive Robotics Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |
| 14 | BCSE428L | Autonomous Drones | Theory Only | 1.0 | 2 | 0 | 0 | 0 | 2.0 |
| 15 | BCSE428P | Autonomous Drones Lab | Lab Only | 1.0 | 0 | 0 | 2 | 0 | 1.0 |