Intake: 2021 onwards

Details of the Curriculum for Bachelor of Science Honours in Information Technology and Management BScHons (IT&M)

| Module Code | Module Name | Category C/E/O | Time Allo (Hours / | Time Allocation (Hours / Week) | | Credits offered | | Evaluation % | |
|--|--|---|--|--|---|-----------------|---|--|--|
| | | Categ | Lecture | Lab/Tute | GPA | NGPA | CA | WE | |
| | Semester 1 | | | | | | | | |
| IN 1120 | Structured Programming I | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IN 1301 | Digital Systems and Digital Computers | С | 2 | 2 | 3.0 | | 40 | 60 | |
| IN 1601 | Multimedia Technologies and Web Design | С | 2 | 2 | 3.0 | | 30 | 70 | |
| IS 1901 | Microcontroller based ICT Project | С | | | 3.0 | | 100 | | |
| IS 1101 | Principles of Management | С | 2 | 1 | 2.5 | | 30 | 70 | |
| CM 1121 | Essentials of Mathematics | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IS 1011 | English | С | 2 | 2 | | 3.0 | 50 | 50 | |
| | 8 | | Tota | I | 16.5 | 3.0 | | | |
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| | Semester 2 | | | | | | | | |
| IN 1130 | Structured Programming II | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IN 1401 | Fundamentals of Databases | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IS 1110 | Business Foundation | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IS 1910 | Industry Reconnaissance and Engagement | С | 1 | 2 | 2.0 | | 100 | | |
| CM 1131 | Elements of Probability and Statistics | С | 2 | 1 | 2.5 | | 30 | 70 | |
| | , | | Tota | I | 12.0 | 0.0 | | | |
| | | | | | | | | | |
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| | Semester 3 | | | | | | | | |
| IN 2110 | | С | 2 | 2 | 3 | | 40 | 60 | |
| IN 2110 IN 2120 | Semester 3 Fundamentals of Object Oriented Programming Web Programming | C C | 2 | 2 | 3 2.5 | | 40 30 | 60 70 | |
| | Fundamentals of Object Oriented Programming Web Programming | | | | | | | | |
| IN 2120 | Fundamentals of Object Oriented Programming | С | 2 | 1 | 2.5 | | 30 | 70 | |
| IN 2120 IN 2201 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project | C C | 2 | 1 | 2.5 3 | | 30 30 | 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design | C C C | 2 2 | 1 2 | 2.5 3 4 | | 30 30 100 | 70 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project | C C C C | 2 2 2 | 1 2 1 | 2.5 3 4 2.5 | | 30 30 100 30 | 70 70 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions | C C C C C | 2 2 2 2 2 | 1 2 1 1 | 2.5 3 4 2.5 2.5 | | 30 30 100 30 40 | 70 70 70 60 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance | C C C C C C | 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 | 70 70 70 60 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance | C C C C C C | 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 | 70 70 70 60 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance | C C C C C C | 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 | 70 70 70 60 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods | C C C C C C | 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 | 70 70 70 60 70 | |
| IN 2120 IN 2201 IS 2901 IN 2211 IS 2200 IS 2240 CM 2121 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 | C C C C C C C | 2 2 2 2 2 2 7 0 ta | 1 2 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 22.5 22.5 | 0 | 30 30 100 30 40 30 30 | 70 70 70 60 70 70 | |
| IN 2120 IN 2201 IS 2901 IS 2200 IS 2240 CM 2121 IN 2610 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 Graphic Design and Development | С С С С С С С | 2 2 2 2 2 2 7 70ta | 1 2 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 22.5 22.5 | 0 | 30 30 100 30 40 30 30 30 | 70 70 70 60 70 70 70 | |
| IN 2120 IN 2201 IS 2901 IS 2200 IS 2240 CM 2121 CM 2121 IN 2610 IN 2610 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 Graphic Design and Development Database Systems | C C C C C C C C C C C C C C C C C C C | 2 2 2 2 2 2 7 70ta | 1 2 1 1 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 30 30 30 | 70 70 70 60 70 70 70 70 | |
| IN 2120 IN 2201 IS 2901 IS 2200 IS 2240 CM 2121 IN 2610 IN 2610 IN 2410 IN 2301 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 Graphic Design and Development Database Systems Essentials of Computer Organization & Architecture | C C C C C C C C C C C C C C | 2 2 2 2 2 2 2 7 7 0 7 0 7 0 7 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 30 30 30 30 | 70 70 70 70 70 70 70 70 70 | |
| IN 2120 IN 2201 IS 2901 IS 2200 IS 2240 CM 2121 CM 2121 IN 2610 IN 2410 IN 2301 IN 2121 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 Graphic Design and Development Database Systems Essentials of Computer Organization & Architecture Data Structures and Algorithms I | C C C C C C C C C C C C C C C C C C C | 2 2 2 2 2 2 2 Tota 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 1 | 2.5 3 4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 40 30 30 30 30 30 30 | 70 70 60 70 70 70 70 70 70 70 | |
| IN 2120 IN 2201 IS 2901 IS 2200 IS 2240 CM 2121 IN 2610 IN 2610 IN 2410 IN 2301 IN 2121 IS 2310 | Fundamentals of Object Oriented Programming Web Programming Software Engineering Software Development Project Object Oriented Analysis and Design Principles of Marketing & Consumer Solutions Fundamentals of Accounting and Finance Foundation of Mathematical Methods Semester 4 Graphic Design and Development Database Systems Essentials of Computer Organization & Architecture Data Structures and Algorithms I Essentials of Business Law and Taxation | C C C C C C C C C C C C C C C C C C | 2 2 2 2 2 2 7 7 7 7 7 7 7 7 2 2 2 2 2 1 | 1 2 1 1 1 1 1 1 1 1 2 | 2.5 3 4 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 0 | 30 30 100 30 30 30 30 30 30 30 30 30 | 70 70 60 70 70 70 70 70 70 70 70 | |

| | Semester 5 | | | | | | | |
|--|--|---|---|---|--|-----|--|--|
| IN 3311 | Operating Systems | С | 2 | 1 | 2.5 | 1 | 30 | 70 |
| IN 3511 IN 3530 | Data Communication & Computer Networks | C | 2 | 1 | 2.5 | | 30 | 70 |
| | Artificial Intelligence | C | 2 | 1 | 2.5 | | 40 | 60 |
| | Automata Theory | C C | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3610 | Management Information Systems | C C | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3920 | Individual Project on Business Solutions | C | - | - | 2.5 | | 100 | , 0 |
| IS 3700 | IT Project Management | C | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3011 | Communication Skills and Professional Conduct | C | 1 | 2 | | 2.0 | 100 | |
| | Human Computer Interaction | E | 2 | 1 | 2.5 | | 40 | 60 |
| IN 3101 | Enterprise Application Development | E | 2 | 1 | 2.5 | | 40 | 60 |
| IN 3320 | Embedded Systems | E | 2 | 1 | 2.5 | | 40 | 60 |
| IN 3210 | Mobile Applications Development | E | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3130 | Strategic Management | E | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3020 | Human Communication and Language Structures | E | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3120 | Organizational Behaviour | E | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3200 | Digital Business Management | E | 2 | 1 | 2.5 | | 50 | 50 |
| IS 3300 | Management Accounting | E | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3510 | Fundamentals of Behavioural Genetics | E | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3520 | Fundamentals of Behavioural Science | E | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3720 | Supply Chain Management | E | 2 | 1 | 2.5 | | 30 | 70 |
| IS 3730 | Talent Management | E | 2 | 1 | 2.5 | | 40 | 60 |
| | ~ | | Tota | | 50.0 | 2.0 | | |
| | | | | | | | | |
| | Industrial Training | | | | | | | |
| IS 3000 | Industrial Training | С | | | | 6.0 | 100 | |
| | | | | | | 0.0 | 100 | |
| | | | Tota | I | 0.0 | 6.0 | 100 | |
| | | | Tota | 1 | 0.0 | | 100 | |
| | Semester 6 | | Tota | | 0.0 | | 100 | |
| IS 3001 | | C | Tota 2 | 1 | 0.0 2.5 | | 40 | 60 |
| IS 3001 IS 3500 | Semester 6 | | Γ | | J | | | 60 |
| | Semester 6 Scientific Communication | C | 2 | 1 | 2.5 | | 40 | 60 |
| IS 3500 | Semester 6 Scientific Communication Research Methodology | C C | 2 1 | 1 2 | 2.5 2 | | 40 100 | |
| IS 3500 IS 3540 IS 3320 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions | C C E | 2 1 2 | 1 2 1 | 2.5 2 2.5 | | 40 100 40 | 60 |
| IS 3500 IS 3540 IS 3320 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management | C C E E | 2 1 2 2 | 1 2 1 1 | 2.5 2 2.5 2.5 | | 40 100 40 30 | 60 70 |
| IS 3500 IS 3540 IS 3320 CM 3321 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems | C C E E E | 2 1 2 2 2 | 1 2 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 | | 40 100 40 30 40 | 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing | C C E E E E E | 2 1 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 | | 40 100 40 30 40 30 | 60 70 60 70 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT | C C E E E E E E E | 2 1 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | | 40 100 40 30 40 30 40 | 60 70 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT | C C E E E E E E E | 2 1 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 | 60 70 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT | C C E E E E E E E | 2 1 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 | 60 70 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business | C C E E E E E E E E C | 2 1 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 | 60 70 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4480 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Semester 7 and Semester 8 | C C E E E E E E E | 2 1 2 2 2 2 2 2 7 0 ta | 1 2 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 | 6.0 | 40 100 40 30 40 30 40 30 | 60 70 60 70 60 70 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4480 IS 4650 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Semester 7 and Semester 8 Software Management | C C E E E E E E E E C C C C C | 2 1 2 2 2 2 2 2 7 70ta | 1 2 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 | 6.0 | 40 100 40 30 40 30 40 30 40 30 | 60 70 60 70 60 70 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4480 IS 4650 IS 4650 IS 4600 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Semester 7 and Semester 8 Software Management IT Quality Assurance | C C C E E E E E E E C C C C C C | 2 1 2 2 2 2 2 2 7 0 ta | 1 2 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 30 40 30 | 60 70 60 70 60 70 60 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4480 IS 4650 IS 4600 IS 4600 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Semester 7 and Semester 8 Software Management IT Quality Assurance Professional Practice | C C E E E E E E E E C C C C C | 2 1 2 2 2 2 2 2 7 7 0 ta | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 30 40 30 40 40 40 | 60 70 60 70 60 70 60 60 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4480 IS 4650 IS 4600 IS 4440 IS 4660 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Software Management IT Quality Assurance Professional Practice Corporate Information Security Management | C C C E E E E E E E C C C C C C | 2 1 2 2 2 2 2 2 2 7 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 30 40 30 40 30 40 30 50 | 60 70 60 70 60 70 60 60 60 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4430 IS 4600 IS 4600 IS 4440 IS 4660 IS 4990 IN 4740 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Software Management IT Quality Assurance Professional Practice Corporate Information Security Management Comprehensive Group Project | C C E E E E E E E C C C C C C C | 2 1 2 2 2 2 2 2 7 7 0 1 8 7 7 0 1 8 7 7 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 19.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 | 6.0 | 40 100 40 30 40 30 40 30 40 30 40 30 40 50 100 | 60 70 60 70 70 70 70 70 60 60 60 50 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4430 IS 4600 IS 4600 IS 4440 IS 4660 IS 4990 IN 4740 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Software Management IT Quality Assurance Professional Practice Corporate Information Security Management Comprehensive Group Project UI/UX Engineering | C C E E E E E C C C C C C C C C C C C C C C C C C E E E | 2 1 2 2 2 2 2 2 2 7 7 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2. | 6.0 | 40 100 40 30 40 30 40 30 40 30 40 30 40 30 50 100 | 60 70 60 70 70 70 70 70 60 60 60 60 50 |
| IS 3500 IS 3540 IS 3320 CM 3321 IN 3410 IS 4430 IS 4430 IS 4480 IS 4650 IS 4600 IS 4600 IS 4660 IS 4660 IS 4990 IN 4740 IN 4560 | Semester 6 Scientific Communication Research Methodology Cognitive Psychology of Consumer Decisions Financial Analysis and Management Logic Programming & Artificial Cognitive Systems Data Mining and Data Warehousing Social Aspects of IT International Business Software Management IT Quality Assurance Professional Practice Corporate Information Security Management Comprehensive Group Project UI/UX Engineering Information Security | C C E E E E E E E C C C C C C C C C C E E | 2 1 2 2 2 2 2 2 7 7 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.5 2 2.5 2.5 2.5 2.5 2.5 2.5 19.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2 | 6.0 | 40 100 40 30 40 30 40 30 40 30 40 40 40 40 50 100 50 30 | 60 70 60 70 70 70 70 60 60 60 60 50 50 70 |

| IN 4721 Geographic Information Systems E 2 1 2.5 40 60 IN 4220 Software Architecture and Design Patterns E 2 1 2.5 40 60 IN 4401 Multimedia Systems E 2 1 2.5 30 70 IN 4760 Location-Based Services and Systems E 2 1 2.5 40 60 IN 4300 Digital Resource Archiving & Information Retrieval E 2 1 2.5 40 60 IN 4101 Internet of Things E 2 1 2.5 30 70 IN 4101 Internet of Things E 2 1 2.5 30 70 CM 3111 Computational Methods E 2 1 2.5 30 70 CM 3131 Indivamentals of Solinformatics E 2 1 2.5 30 70 CM 4111 Indovaced Topics in Statistics E 2 1 2.5 | IN 4531 | Multimedia Communications | E | 2 | 1 | 2.5 | 30 | 70 |
|---|---------|---------------------------------------|---|---|---|-----|----|----|
| IN 4220 Software Architecture and Design Patterns E 2 1 2.5 40 60 IN 4450 Mutimedia Systems E 2 1 2.5 30 70 IN 4430 Digital Resource Archiving & Information Retrieval E 2 1 2.5 40 60 IN 4430 Digital Resource Archiving & Information Retrieval E 2 1 2.5 40 60 IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 CM3111 Computational Methods E 2 1 2.5 30 70 CM3131 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM4111 Introduction to Numerical Optimization E 2 1 2.5 40 60 CM4321 Theory of Computability & Completing E | | | | | _ | | | |
| IN 4601 Multimedia Systems E 2 1 2.5 30 70 IN 4760 Location-Based Services and Systems E 2 1 2.5 40 60 IN 4430 Digital Resource Archiving & Information Retrieval E 2 1 2.5 40 60 IN 4410 Big Data Analytics E 2 1 2.5 30 70 IN 4701 Distributed Systems and Cluster Computing E 2 1 2.5 30 70 CM3311 Computational Methods E 2 1 2.5 30 70 CM3331 Fundamentals of BioInformatics E 2 1 2.5 30 70 CM4111 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM4121 Theory of Computability & Complexity E 2 1 2.5 30 70 CM4311 Articial Neural Networks & Evolutionary Computing E 2 | | | | | | | | |
| IN 4760 Location-Based Services and Systems E 2 1 2.5 40 60 IN 4430 Digital Resource Archiving & Information Retrieval E 2 1 2.5 30 70 IN 4411 Big Data Analytics E 2 1 2.5 40 60 IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 CM 3131 Computational Methods E 2 1 2.5 30 70 CM 3131 Ircomputational Methods E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optinization E 2 1 2.5 30 70 CM 4121 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4121 Theory of Computability & Complexity E 2 1 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | - | | | | | | |
| Int 430 Digital Resource Archiving & Information Retrieval E 2 1 2.5 30 70 IN 4431 Big Data Analytics E 2 1 2.5 40 60 IN 4320 Internet of Things E 2 1 2.5 30 70 IN 4701 Distributed Systems and Cluster Computing E 2 1 2.5 30 70 CM 3112 Statistical Computing E 2 1 2.5 30 70 CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 4151 Advanced Topics Tostatistics E 2 1 2.5 40 60 CM 4211 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 43121 Statistical Neural Networks & Evolutionary Computing E 2 1 2.5 30 70 CM 43121 Theory of Computability & Complexiny E 2 <td< td=""><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td></td<> | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Internet of Things E 2 1 2.5 40 60 IN4312 Internet of Things E 2 1 2.5 40 60 IN4101 Theory of Programming Languages E 2 1 2.5 30 70 CM3111 Computational Methods E 2 1 2.5 30 70 CM3112 Statistical Computing E 2 1 2.5 30 70 CM3112 Indexed Topics in Statistics E 2 1 2.5 30 70 CM4161 Advanced Topics in Statistics E 2 1 2.5 40 60 CM4211 Theory of Computability & Complexity E 2 1 2.5 40 60 CM4311 Artificial Neural Networks & Evolutionary Computing E 2 1 2.5 30 70 CM4312 Artificial Neural Networks & Evolutionary Computing E 2 1 2.5 30 | | | | | | | | |
| IN 4320 Internet of Things E 2 1 2.5 40 60 IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 IN 4701 Distributed Systems and Cluster Computing E 2 1 2.5 30 70 CM 3111 Computational Methods E 2 1 2.5 30 70 CM 3131 Statistical Computing E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM 4111 Intrody of Computability & Complexity E 2 1 2.5 40 60 CM 4221 Theory of Compulational Motelogy E 2 1 2.5 30 70 CM 4331 Ramatic Anguage Processing E 2 1 2.5 30 70 CM 4331 Ramatic Anguage Processing E 2 1 2.5 | | | | | | | | |
| IN 4101 Theory of Programming Languages E 2 1 2.5 30 70 IN 4701 Distributed Systems and Cluster Computing E 2 1 2.5 30 70 CM 3111 Computational Methods E 2 1 2.5 30 70 CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optimization E 2 1 2.5 40 60 CM 4221 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4311 Artificial Neural Networks & Evolutionary Computing E 2 1 2.5 30 70 CM 4321 Complex Systems and Agent Technology E 2 1 2.5 30 70 CM 4331 Matural Language Processing E 2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></td<> | | | | | | | - | |
| Int 4701 Distributed Systems and Cluster Computing E 2 1 2.5 30 70 CM 3111 Computational Methods E 2 1 2.5 30 70 CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 3111 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optimization E 2 1 2.5 40 60 CM 4221 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4321 Complex Systems and Agent Technology E 2 1 2.5 30 70 CM 4331 Semantic Web and Ontological Modelling E 2 1 2.5 30 70 CM 4351 Fuzy Logic E 2 1 2.5 30 70 CM 4351 Machine Learning and Pattern Recognition E 2 1< | | | | | | | | |
| CM 3111 Computational Methods E 2 1 2.5 30 70 CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 3331 Fundamentals of Bioinformatics E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM 4121 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4221 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4321 Artificial Neural Networks & Evolutionary Computing E 2 1 2.5 40 60 CM 4331 Semantic Web and Ontological Modelling E 2 1 2.5 30 70 CM 4351 Fuzy Logic E 2 1 2.5 30 70 CM 4351 Fuzy Logic E 2 1 2.5 30 70 CM 4351 Ruzy Logic E 2 1 | | | | | | | | _ |
| CM 3121 Statistical Computing E 2 1 2.5 30 70 CM 3131 Fundamentals of Bioinformatics E 2 1 2.5 30 70 CM 4111 Introduction to Numerical Optimization E 2 1 2.5 30 70 CM 4151 Advanced Topics in Statistics E 2 1 2.5 40 60 CM 4211 Theory of Computability & Complexity E 2 1 2.5 40 60 CM 4321 Complex Systems and Agent Technology E 2 1 2.5 30 70 CM 4331 Semantic Web and Ontological Modelling E 2 1 2.5 30 70 CM 4331 Natrial Language Processing E 2 1 2.5 30 70 CM 4331 Natchine Learning and Pattern Recognition E 2 1 2.5 30 70 CM 4331 Advanced Bioinformatics E 2 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | | | | |
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| | | | Е | 2 | 1 | 2.5 | 40 | 60 |
| | IS 4520 | Applied Market Research Methods | Е | 2 | 1 | 2.5 | 40 | 60 |

| IS 4250 | Business Architecture Modelling | E | 2 | 1 | 2.5 | | 40 | 60 |
|---------|---------------------------------|---|------|---|-------|-----|----|----|
| | | | Tota | | 162.5 | 0.0 | | |

| Total GPA Credits Requirement for Graduation | 135.0 |
|--|-------|
| Total Compulsory Non GPA Credits Requirement | 11.0 |
| Total Elective Non GPA Credits Requirement | 4.0 |

| | Min ¹ | Max ² |
|--|------------------|------------------|
| Credit limit for elective modules from IN and CM modules | 7.5 | 10 |
| Credit limit for elective modules from IS modules | 15 | 17.5 |

1 - Minimum required credits for graduation

2 - Maximum credits allowed to fulfill the graduation requirement

3 - A student may register for two extra modules over and above the maximum specified in IN and CM modules

Note - At least two elective modules must be taken at Semester 5 and 6