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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : I****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS01FCP1 | FUNDAMENTALS OF C PROGRAMMING | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 2 | 5CS01DBS1 | DATABASE MANAGEMENT SYSTEM | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 3 | 5CS01BCO1 | BASICS OF COMPUTER ORGANIZATION | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 4 | 5CS01MAT1 | MATHEMATICS FOR COMPUTER SCIENCE | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 5 | 5CS01CSD1 | COMMUNICATION & SOFT SKILLS DEVELOPMENT | 4 | 2 | - | 6 | 5 | 30 | 1.5 | 70 | 3 | 50 | - | - | **150** |
| 6 | 5CS01FCP2 | PROGRAMMING TECHNIQUE-I (FCP) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 7 | 5CS01DBS2 | PROGRAMMING TECHNIQUE-II (DMS) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| **TOTAL** | **20** | **2** | **8** | **30** | **25** | **150** | **-** | **350** | **-** | **90** |  **-** | **160** | **750** |

***Abbreviations:*** *Th – Theory, Tu – Tutorial / Seminar / Field Work, Pr – Practical* ***Note:*** *Theory: 1 hr = 1 credit and Practical / Tutorial: 2 hrs = 1 Credit*

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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : II****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS02OOC1 | OBJECT ORIENTED PROGRAMMING USING C++ | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 2 | 5CS02DST1 | DATA STRUCTURES | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 3 | 5CS02SMS1 | STATISTICAL METHODS | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 4 | 5CS02ERP1 | ENTERPRISE RESOURCE PLANNING | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 5 | 5CS02FIT1 | FUNDAMENTALS OF INTERNET TECHNOLOGIES | 4 | - | 2 | 6 | 5 | 30 | 1.5 | 70 | 3 | 10 | - | 40 | **150** |
| 6 | 5CS02OOC2 | PROGRAMMING TECHNIQUE-III (OOCP) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 7 | 5CS02DST2 | PROGRAMMING TECHNIQUE-IV (DS) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| **TOTAL** | **20** | **-** | **10** | **30** | **25** | **150** | **-** | **350** | **-** | **50** | **-** | **200** | **750** |

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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : III****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS03CON1 | COMPUTER ORIENTED NUMERICAL METHODS | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 2 | 5CS03CAD2 | COMPUTER AIDED ANALYSIS & DESIGN OF INFORMATION SYSTEM | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 3 | 5CS03JAV1 | CORE JAVA | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 4 | 5CS03OSM2 | OPERATING SYSTEM | 4 | - | 2 | 6 | 5 | 30 | 1.5 | 70 | 3 | 10 | - | 40 | **150** |
| 5 | 5CS03FON2 | FUNDAMENTALS OF NETWORKING | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 6 | 5CS03JAV2 | PROGRAMMING TECHNIQUE-V (JAVA) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 7 | 5CS03FON3 | PROGRAMMING TECHNIQUE-VI (FON) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| **TOTAL** | **20** |  | **10** | **30** | **25** | **150** | **-** | **350** | **-** | **50** | **-** | **200** | **750** |

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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : IV****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS04ORT1 | OPERATIONS RESEARCH | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 2 | 5CS04WAD1 | WEB APPLICATIONS DEVELOPMENT | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 3 | 5CS04ADB1 | ADVANCED DATABASE MANAGEMENT SYSTEM | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 4 | 5CS04SEN1 | SOFTWARE ENGINEERING | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 5 | -- | MAJOR ELECTIVE-I | 4 | - | 2 | 6 | 5 | 30 | 1.5 | 70 | 3 | 10 | - | 40 | **150** |
| 6 | 5CS04WAD2 | PROGRAMMING TECHNIQUE-VII (WAD) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 7 | 5CS04ADB2 | PROGRAMMING TECHNIQUE-VIII (ADBMS) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 8 | 5CS04SEM1 | SEMINAR ON TECH. TOPICS | - | - | 2 | 2 | 1 | - | - | - | - | 50 | - | - | **50** |
| **TOTAL** | **20** | **-** | **12** | **32** | **26** | **150** | **-** | **350** | **-** | **100** | **-** | **200** | **800** |

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**MAJOR ELECTIVE – I**

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| --- | --- |
| **Subject Code** | **Subject Name** |
| 5CS04PYP1 | PYTHON PROGRAMMING |
| 5CS04DIP1 | DIGITAL IMAGE PROCESSING |
| 5CS04CNS1 | COMPUTER NETWORK SECURITY |
| 5CS04CGC1 | COMPUTER GRAPHICS |

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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : V****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS05MOB1 | MOBILE APPLICATION DEVELOPMENT | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
|  | 5CS05WNS1 | WIRELES NETWORKS & SECURITY | 4 | - | - | 4 | 4 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 3 | 5CS05DSR1 | DISSERTATION | - | - | 4 | 4 | 2 |  | - | - | - | 20 | - | 80 | **100** |
| 4 | -- | MAJOR ELECTIVE – II | 5 | - | 2 | 7 | 6 | 30 | 1.5 | 70 | 3 | 10 | - | 40 | **150** |
| 5 | -- | MINOR ELECTIVE – I | 5 | - | - | 5 | 5 | 30 | 1.5 | 70 | 3 | - | - | - | **100** |
| 6 | 5CS05MOB2 | PROGRAMMING TECHNIQUE-IX (MOB) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 7 | 5CS05WNS2 | PROGRAMMING TECHNIQUE-X (WNS) | - | - | 4 | 4 | 2 | - | - | - | - | 20 | - | 80 | **100** |
| 8 | 5CS05LMB1 | LESSION FROM MOTIVATIONAL BOOKS | - | 2 | - | 2 | 1 | - | - | - | - | - | 50 | - | **50** |
| **TOTAL** | **18** | **2** | **14** | **34** | **26** | **120** | **-** | **280** | **-** | **120** | **50** | **280** | **800** |

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| **MAJOR ELECTIVE – II** | **MINOR ELECTIVE – I** |
| **Code** | **Subject Name** | **Code** | **Subject Name** |
| 5CS05EMB1 | EMBEDDED SYSTEMS | 5CS05ANT1 | ARTIFICIAL INTELLIGENCE |
| 5CS05AJP1 | ADVANCED JAVA PROGRAMMING | 5CS05DWD1 | DATA WAREHOUSING & DATA MINING |
| 5CS05LIN1 | LINUX PROGRAMMING | 5CS05BIO1 | FUNDAMENTALS OF BIOINFORMATICS |
| 5CS05NET1 | ADVANCED ASP & C#.NET PROGRAMMING | 5CS05GIS1 | GEOGRAPHIC INFORMATION SYSTEMS (GIS) |

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|  | **C. U. SHAH UNIVERSITY, Wadhwan City** |
| **Name of Program : MCA** |
| **Name of Branch : MCA** |
| **Semester : VI****W.E.F. – June 2014** |

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| **Sr. No** | **Branch Code** | **Subject Code** | **Subject Name** | **Teaching Hours/Week** | **Credits** | **Evaluation Scheme/Semester** |
| **Th** | **Tu** | **Pr** | **Total** | **Theory** | **Practical** | **Total****Marks** |
| **Sessional Exam** | **University Exam** | **Internal** | **University** |
| **Marks** | **Hours** | **Marks** | **Hours** | **Pr** | **TW** | **Pr** |
| 1 | 01 | 5CS06SDP1 | SYSTEM DEVELPPMENT PROJECT (SDP) | - | - | 30 | 30 | 15 | - | - | - | - | 100 | - | 250 | **350** |
| **TOTAL** | **-** | **-** | 30 | 30 | 15 | **-** | **-** | **-** | - | 100 | - | 250 | 350 |

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**Calculation of Marks & Credits:**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNo.** | **Semester** | **Total Marks** | **Total Credits** |
| 1 | I | 750 | 25 |
| 2 | II | 750 | 25 |
| 3 | III | 750 | 25 |
| 4 | IV | 800 | 26 |
| 5 | V | 800 | 26 |
| 6 | VI | 350 | 15 |
| **Total** | **4200** | **142** |