

| SEMESTER | SUBJECT CODE | NAME OF THE SUBJECT | CREDITS | | | |
|----------|---------------------------|--|---------|-----|-----|-------|
| | | | L | T | P | TOTAL |
| I | BCA120C1 | PROGRAMMING IN C/C++ | 4 | 0 | 2 | 6 |
| | BCA120C2 | DISCRETE STRUCTURES | 4 | 2 | 0 | 6 |
| | AECC-II | ENVIRONMENTAL STUDIES | 4 | 0 | 0 | 4 |
| | GE-I | GENERIC ELECTIVE 1 (GE1) ANY ONE: 1. MATHEMATICS 2. STATISTICS 3. PHYSICS 4. ELECTRONICS 5. BOTANY 6. CHEMISTRY 7. ZOOLOGY 8. ECONOMICS 9. EDUCATION 10. PSYCHOLOGY 11. SOCIOLOGY 12. COMMERCE: BUSINESS LAW 13. BUSINESS MANAGEMENT: PRINCIPLES OF MANAGEMENT | 4 | 2/0 | 0/2 | 6 |
| II | BCA220C1 | PROGRAMMING IN JAVA | 4 | 0 | 2 | 6 |
| | BCA220C2 | COMPUTER SYSTEM ARCHITECTURE | 4 | 0 | 2 | 6 |
| | AECCs | ENGLISH COMMUNICATION SKILLS | 4 | 0 | 0 | 4 |
| | GE-II | GENERIC ELECTIVE 1 (GE1) ANY ONE: 1. MATHEMATICS 2. STATISTICS 3. PHYSICS 4. ELECTRONICS 5. BOTANY 6. CHEMISTRY 7. ZOOLOGY 8. ECONOMICS 9. EDUCATION 10. PSYCHOLOGY 11. SOCIOLOGY 12. COMMERCE: CORPORATE LAW 13. BUSINESS MANAGEMENT: HUMAN RESOURCE MANAGEMENT | 4 | 2/0 | 0/2 | 6 |
| III | BCA320C1 | DATA STRUCTURES | 4 | 0 | 2 | 6 |
| | BCA320C2 | OPERATING SYSTEMS | 4 | 0 | 2 | 6 |
| | BCA320C3 | COMPUTER NETWORKS | 4 | 0 | 0 | 6 |
| | SEC320S | SKILL ENHANCEMENT COURSE (FROM 3 RD SEMESTER BASKET) | 2 | 2/0 | 0/2 | 4 |
| | GE-III | GENERIC ELECTIVE 1 (GE1) ANY ONE: 1. MATHEMATICS 2. STATISTICS 3. PHYSICS 4. ELECTRONICS 5. BOTANY 6. CHEMISTRY 7. ZOOLOGY 8. ECONOMICS 9. EDUCATION 10. PSYCHOLOGY 11. SOCIOLOGY 12. COMMERCE: MANAGEMENT PRINCIPLES AND APPLICATIONS 13. BUSINESS MANAGEMENT: PRINCIPLES OF MARKETING | 4 | 2/0 | 0/2 | 6 |
| IV | BCA420C1 | DESIGN AND ANALYSIS OF ALGORITHMS | 4 | 0 | 2 | 6 |
| | BCA420C2 | SOFTWARE ENGINEERING | 4 | 0 | 2 | 6 |
| | BCA420C3 | DATABASE MANAGEMENT SYSTEM | 4 | 0 | 2 | 6 |
| | DM420S | DISASTER MANAGEMENT | 2 | 2 | 0 | 4 |
| | GE-IV | GENERIC ELECTIVE 1 (GE1) ANY ONE: 1. MATHEMATICS 2. STATISTICS 3. PHYSICS 4. ELECTRONICS 5. BOTANY 6. CHEMISTRY 7. ZOOLOGY 8. ECONOMICS 9. EDUCATION 10. PSYCHOLOGY 11. SOCIOLOGY 12. COMMERCE: Goods & services Tax (GST) 13. BUSINESS MANAGEMENT: Financial Management | 2 | 2/0 | 0/2 | 6 |
| V | BCA520C1 | INTERNET TECHNOLOGIES | 4 | 0 | 2 | 6 |
| | BCA520C2 | THEORY OF COMPUTATION | 4 | 2 | 0 | 6 |
| | BCA520D1A OR BCA520D1B | NUMERICAL METHODS OR INFORMATION SECURITY | 4 | 0 | 2 | 6 |
| | BCA520D2A OR BCA520D2B | DATA MINING OR MACHINE LEARNING | 4 | 0 | 2 | 6 |
| | BCA620C1 | ARTIFICIAL INTELLIGENCE | 4 | 0 | 2 | 6 |
| VI | BCA620C2 | COMPUTER GRAPHICS | 4 | 0 | 2 | 6 |
| | BCA620D1A OR BCA620D1B | CLOUD COMPUTING OR PYTHON PROGRAMMING | 4 | 0 | 2 | 6 |
| | BCA620D2 | DISSERTATION/ PROJECT WORK | 0 | 4 | 2 | 6 |
| | TOTAL CREDITS | | | 148 | | |

THE FOLLOWING GENERIC ELECTIVE COURSES IN COMPUTING ARE OFFERED FOR THOSE STUDENTS PURSUING HONOURS DEGREE PROGRAMME IN A DISCIPLINE OTHER THAN BCA AT THE 1st TO 4th SEMESTER LEVEL:

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|-----------------|-------------------------------------|---|
| <i>BCA120C1</i> | <i>PROGRAMMING IN C / C++</i> | <i>THEORY (4 CREDITS) + LAB (2 CREDITS)</i> |
| <i>BCA220C2</i> | <i>COMPUTER SYSTEM ARCHETECTURE</i> | <i>THEORY (4 CREDITS) + LAB (2 CREDITS)</i> |
| <i>BCA320C3</i> | <i>COMPUTER NETWORKS</i> | <i>THEORY (4 CREDITS) + LAB (2 CREDITS)</i> |
| <i>BCA420C3</i> | <i>DATABASE MANAGEMENT SYSTEM</i> | <i>THEORY (4 CREDITS) + LAB (2 CREDITS)</i> |

IMPORTANT INSTERCTIONS:

- 1 SYLLABI FOR CORE AND DISCIPLINE SPECIFIC ELECTIVE PAPERS TO BE DOWNLOADED FROM THE MAIN COURSE LINK / SUBLINK OF THE SYLLABUS PORTAL, FOR EACH SEMESTER
- 2 SYLLABI FOR AECCs SHALL BE DOWNLOADED FROM THE AECC LINK OF THE SYLLABUS PORTAL. EXAMINATION OF BOTH THE AECC COURSES SHALL BE CONDUCTED AT THE END OF 2ND SEMESTER ONLY.
- 3 SYLLABI FOR SECs SHALL BE DOWNLOADED FROM THE LINK PROVIDED FOR SEMESTER WISE UG SKILL COURSE BASKETS

CURRENTLY ONLY ONE SKILL ENHANCEMENT COURSE, **PHP PROGRAMMING (2+2 CREDITS)**, IS OFFERED FOR 3RD BY THE BOUGS IN COMPUTER SCIENCES. STUDENTS MAY ALSO CHOOSE SECS OFFERED BY THE COLLEGE FROM AMONGST THE RELEVANT SEC BASKETS AVAILABLE FOR THE 3rd SEMESTER ON THE UNIVERSITY WEBSITE. HOWEVER, FOR 4th SEMESTER ALL THE STUDENTS SHALL HAVE TO TAKE UP THE UGC MANDATED COMPULSORY SKILL COURSE TITLED “**DISASTER MANAGEMENT**”. IT MAY NOT BE OUT OF PLACE TO POINT OUT THAT CHANGES IN THE SEC BASKETS SHALL CONTINUE TO BE A CONTINUOUS PROCESS.

- 4 SYLLABI FOR THE GENERIC ELECTIVE (GE) COURSES SHALL BE DOWNLOADED FROM THE GENERIC ELECTIVE COURSES LINK FOR THE RELEVANT SEMESTERS.

ALL THE FOUR GENERIC ELECTIVE PAPERS FROM 1ST TO 4TH SEMESTERS (**GE1 TO GE4**), APART FROM THE PRESCRIBED STAND ALONE COURSES PRESRIBED FOR THE PURPOSE, IF ANY, HAVE TO BE SELECTED FROM ANY ONE OF THE DISCIPLINES ONLY, AS REFLECTED UNDER THE HEAD “**GENERIC ELECTIVE COURSES**” FOR DIFFERENT SEMESTERS.