


MCA

COURSE STRUCTURE

(Notional Semester-wise Distribution of Courses)

| Course Code | Title | Credit Structure | | | Total Credit |
|--------------------------------|--|------------------|---|---|--------------|
| | | L | T | P | |
| 1st Semester | | | | | |
| CS 404 | Programming & Problem Solving | 3 | 1 | 1 | 5 |
| CS 405 | Discrete Mathematics | 2 | 1 | 0 | 3 |
| CS 406 | Digital Logic | 3 | 0 | 1 | 4 |
| CS407 | Information and Communication Technology | 3 | 0 | 1 | 4 |
| | <i>Elective</i> | | | | |
| 2nd Semester | | | | | |
| CS 403 | File Structures | 2 | 0 | 0 | 2 |
| CS 408 | Data Structures | 3 | 1 | 1 | 5 |
| CS 409 | Comp. Organization & Architecture | 3 | 1 | 1 | 5 |
| | <i>Elective</i> | | | | |
| | <i>Elective</i> | | | | |
| | <i>Open Elective</i> | | | | 3 |
| 3rd Semester | | | | | |
| CS 502 | System Software | 2 | 0 | 1 | 3 |
| CS 508 | Database Management | 3 | 1 | 1 | 5 |
| CS 509 | Data Communication | 3 | 0 | 1 | 4 |
| | <i>Elective</i> | | | | |
| | <i>Elective</i> | | | | |
| | <i>Open Elective</i> | | | | 3 |
| 4th Semester | | | | | |
| CS 504 | Operating System | 2 | 1 | 1 | 4 |
| CS 505 | Software Engineering | 3 | 0 | 1 | 4 |
| CS 507 | Computer Networks | 3 | 0 | 1 | 4 |
| | <i>Elective</i> | | | | |
| | <i>Elective</i> | | | | |
| | <i>Elective / Open Elective</i> | | | | 3 |
| 5th Semester | | | | | |


 Controller of Examinations
 Tezpur University
 Tezpur, Assam

| | | | | | |
|--------|--|---|---|---|----|
| | <i>Elective</i> | | | | |
| | <i>Elective</i> | | | | |
| | <i>Elective</i> | | | | 3 |
| | <i>Elective / Open Elective(If three Open Electives not yet taken)</i> | | | | 3 |
| CS 514 | Minor Project | 0 | 0 | 8 | 8 |
| | 6th Semester | | | | |
| CS 515 | Major Project | 0 | 0 | 0 | 16 |

Elective Courses

| Course Code | Title | Credit Structure | Total Credit |
|-------------|---|------------------|--------------|
| CS 525 | Artificial Intelligence | 3-0-0 | 3 |
| CS 424 | Formal Language and Automata | 3-0-0 | 3 |
| CS 421 | Graph Theory | 3-0-0 | 3 |
| CS 529 | Embedded Systems | 3-0-1 | 4 |
| CS 621 | Mobile Computing | 4-0-0 | 4 |
| CS 625 | Web Technology | 3-0-1 | 4 |
| IT 509 | Data Mining & Data Warehousing | 3-0-1 | 4 |
| IT 507 | Computer Security & Cryptography | 3-0-0 | 3 |
| CS 606 | Computer Architecture and Parallel Processing | 3-0-0 | 3 |
| CS 610 | Bioinformatics | 3-0-0 | 3 |
| CS 533 | Computational Geometry | 3-0-0 | 3 |
| CS 522 | Computer Graphics | 3-0-1 | 4 |
| CS 523 | Enterprise Resource Planning | 3-0-0 | 3 |
| CS 524 | Theory of Computation | 3-0-0 | 3 |
| IT 504 | E-Commerce | 3-0-0 | 3 |
| CS 532 | Compiler Design | 3-0-1 | 4 |
| CS 602 | Image Processing | 3-0-0 | 3 |
| CS 422 | Numerical Methods | 3-0-1 | 4 |
| CS 601 | Design & Analysis of Algorithms | 3-0-0 | 3 |
| CS 609 | Geographic Information Systems | 3-0-0 | 3 |
| CS 531 | Object Oriented Programming & Design | 3-1-1 | 5 |
| IT 611 | Distributed Systems | 3-0-0 | 3 |
| BM 421 | Accounting & Financial Management | 2-1-0 | 3 |
| MS 509 | Probability & Statistics | 2-1-0 | 4 |
| BM 504 | Managerial Economics | 2-0-0 | 2 |
| BM 501 | Foundation of Management | 3-0-0 | 3 |