**Courses Offered by the CIS Department**

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| --- | --- | --- | --- | --- | --- |
| ***Course No.*** | ***Course title*** | ***Weekly Hours*** | | ***Cr. Hours*** | ***Prerequisite*** |
| ***Theory*** | ***Practical*** |
| 5401100 | Computer Skills-1 | 3 | - | 3 | 0985401 |
| 5401101 | Calculus – 1 | 3 | - | 3 | - |
| 5401102 | Calculus – 2 | 3 | - | 3 | 5401101 |
| 5401105 | Discrete Mathematics | 3 | - | 3 | - |
| 5401201 | Computer Skills-2 (Humanities and Clinical) | 3 | - | 3 | 5401100 |
| 5401203 | Visual Programming | 3 | - | 3 | 5401100 |
| 5401212 | Object Oriented Programming -2 | 3 | - | 3 | 5401221 |
| 5401215 | Advance progrming | 3 | - | 3 | 5401201 |
| 5401221 | Object Oriented Programming -1 | 3 | - | 3 | 5401100 |
| 5401231 | Data structure | 3 | - | 3 | 5401201  Or  5401215 |
| 5401241 | Theory of Computation | 3 | - | 3 | 5401105 |
| 5401321 | Database Systems | 3 | - | 3 | 5401231 |
| 5401322 | Information Systems Security | 3 | - | 3 | 5401231 |
| 5401341 | algorithems | 3 | - | 3 | 5401231 |
| 5401342 | Artificial Intelligence | 3 | - | 3 | 5401231 |
| 5401351 | Multimedia | 3 | - | 3 | 5401221 |
| 5401353 | Human Computer Interaction | 3 | - | 3 | 5401359 |
| 5401355 | Computer Assisted Learning | 3 | - | 3 | 5401221 |
| 5401356 | Patren recognition | 3 | - | 3 | 5402341 |
| 5401359 | Graghics Computers | 3 | - | 3 | 5401231 |
| 5401361 | Computer networks | 3 | - | 3 | 5402101 |
| 5401442 | Machine Learning | 3 | - | 3 | 5401342 |
| 5401445 | Natuaral Language Processing | 3 | - | 3 | 5401342 |
| 5401451 | Geographical Information Systems | 3 | - | 3 | 5401359 |
| 5401452 | Distributed Database Systems | 3 | - | 3 | 5401321 |
| 5401453 | Information Systems Applications | 2 | 2 | 3 | 5401321 |
| 5401455 | Image Processing | 3 | - | 3 | 5401359 |
| 5401456 | Expert Systems And Neural Networks | 3 | - | 3 | 5401342 |
| 5401458 | Certified Software | 3 | - | 3 | Department Approval |
| 5401471 | Software Engineering | 3 | - | 3 | 5402101 |
| 5401473 | Operating systems | 3 | - | 3 | 5401201 |
| 5401475 | System Analysis | 3 | - | 3 | 5401471 |
| 5401477 | Object Oriented Design | 3 | - | 3 | 5401212 |
| 5401494 | Special Topics | 3 | - | 3 | Department Approval |
| 5401495 | Project | 3 | - | 3 | Department Approval |
| 5401498 | Training | 6 Weeks | 0 | Department Approval | Department Approval |