

CURRICULUM

1. Core Courses

| S. # | Core Subjects |
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| 1. | Advanced Algorithm Analysis |
| 2. | Advanced Computer Architecture |
| 3. | Advanced Operating Systems |
| 4. | Advanced Theory of Automata |

2. Specialization Areas

a. Communication & Networks

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| 1. | Advanced Computer Networks |
| 2. | Wireless Communication |
| 3. | Mobile Computing |
| 4. | Performance Analysis of Computer Networks |
| 5. | Object Tracking/Positioning |
| 6. | Optical Communication & Networks |
| 7. | Wireless Sensor Networks |

b. Software Engineering

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| 1. | Advanced Software Engineering |
| 2. | Object Oriented Software Engineering |
| 3. | Software Project Management |
| 4. | Software Reusability |
| 5. | Requirement Engineering |
| 6. | Software Quality Assurance |
| 7. | Project Management |

c. Network Security

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| 1. | Network Security |
| 2. | Information Security Assurance |
| 3. | Cryptography Techniques |
| 4. | Forensic Analysis |
| 5. | Wireless Network Security |
| 6. | Penetration Testing |
| 7. | Ethical Hacking |

d. Data Base Management Systems

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| 1. | Advanced Data Base Management System |
| 2. | Data Ware Housing |
| 3. | Objected Oriented Databases |
| 4. | Web Based DBMS |

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| 5. | Distributed Databases |
| 6. | Tera Data |
| 7. | Special topics in DBMS |

e. Artificial Intelligence

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| 1. | Intelligent Systems Design |
| 2. | Natural Languages Processing |
| 3. | Advanced Topics in Expert Systems |
| 4. | Machine Learning |
| 5. | Fuzzy Logic |
| 6. | Natural Language Processing |
| 7. | Advanced Topics in Decision Support Systems |