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| Semester | III | Specialization | Information Technology |
| Course Code | 305IT | Type | Specialization - Core |
| Course Title | IT Management & Cyber Laws | | |

Course Objectives:

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| 1 | To understand legal provisions of Information Technology Act, 2000. |
| 2 | To know Case Law and practical ramifications of the Act |
| 3 | To develop understanding of managerial aspects so as to use Information technology effectively and efficiently. |
| 4 | To appreciate IT Management as an independent and important field of work, different from IT for Management |

Syllabus:

| Unit Number | Contents | Number of Sessions |
|-------------|---|--------------------|
| 1 | Hardware & Network Management – Computer Peripherals - Input – Output Technologies and Devices - Storage Technologies and Devices - Future Scenario – Managerial considerations in acquisition, maintenance, controlling, replacement of Hardware – Networking Trends – Overview of Networking Alternatives, Networking types, Networking media, Networking processors, Networking software, Networking architecture and Networking protocols | 7+2 |
| 2 | Application Software Management - Overview of General Purpose Application Software such as Software Suites, Messaging, Groupware, Conferencing Commercial and Corporate Tools and Overview of Application Specific Software such as Programming languages, ERP, e-Commerce, CRM, Scientific and Engineering Programs. System Software Management –Overview of Operating Systems, Network Management Programs, Database Management Programs, Servers, System Utilities, Performance and Security Monitors, System Development Programs. Managerial considerations in selection, maintenance, controlling, replacement of Software | 7+2 |
| 3 | (a) Security Management –Need, Case Studies – Types of Computer Crime – Cyber Law - Tools of security Management - Security Defences – System Controls and Audit (b) People Management -- I.T. Organization of a large corporation – Selection and Recruitment – Training – Retention – Performance Measurement | 7+2 |
| 4 | Cyber Laws: Object and Scope: Genesis, Object, Scope of the Act | 7+2 |

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| | <p>Encryption - Symmetric Cryptography- Asymmetric Cryptography- RSA Algorithm - Public Key Encryption</p> <p>Digital Signature (DS): Technology behind Digital Signature - Creating & Verifying a DS - DS and PKI – Digital Signature and the Law.</p> <p>E-Governance and IT Act 2000: Legal recognition of electronic records- Legal recognition of digital signature - Use of electronic records and digital signatures in Government and its agencies.</p> | |
| 5 | <p>Certifying Authorities: Need for Certifying Authority and Powers - Appointment, function of Controller - Who can be a Certifying Authority? - Digital Signature Certifications - Generation, Suspension and Revocation of Digital Signature Certificate.</p> <p>Domain Name Disputes and Trademark Law : Concept of Domain Names - New Concepts in Trademark – Reverse Hijacking, Meta tags, Framing, Spamming - Jurisdiction in Trademark Dispute</p> <p>Cyber Crimes: Tampering with Computer Source Documents - Hacking with Computer System - Publishing of Information which is obscene, in Electronic Form - Offences related to Breach of Confidentiality& Privacy – Offences related to Digital Signature Certificate.</p> | 7+2 |

Learning Resources:

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| 1 | Text Books | <p>Cyber Law in India by Farooq Ahmad – Pioneer Books</p> <p>Management Information System Laudon, Laudon and Dass 11th Edition Pearson</p> <p>Management Information Systems Obrien, Marakas, Behl 9h EditionTata McGraw Hill</p> <p>Management Information Systems W S Jawadekar, 4th Edition Tata McGraw Hill</p> |
| 2 | Reference Books | <p>Information Technology Law and Practice by Vakul Sharma – Universal Law Publishing Co. Pvt. Ltd.</p> <p>The Indian Cyber Law by Suresh T Vishwanathan –Bharat Law house New Delhi.</p> <p>Guide to Cyber Laws by Rodney D. Ryder –Wadhwa and Company Nagpur.</p> <p>The Information Technology Act,2000 – Bare Act –Professional Book Publishers – New Delhi</p> |

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| | | IT system Management by Rich Schiesser Enterprise Computing by Alan R. Simpson |
| 3 | Supplementary Reading Material | Hand book of Cyber & E-commerce Laws by P.M. Bakshi & R.K.Suri – Bharat Law house New Delhi. The Influence of IT Management Practice on IT Use in Large Organizations Journal MIS Quarterly Author: Boynton Andrew, Zmud Robert & Jacobs Gerry |
| 4 | Websites | www.cyberlawindia.net www.asianlaws.org www.csus.edu , whatis.techtarget.com |
| 5 | Journals | Cyber Times, MIS Quarterly, University of Minnesota CSI Communications, Computer Society of India |