**E-Governance**
Elective II
EG3204CT.1

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|---|---|
| **Year: III** | **Total: 7 hours /week** |
| **Part: II** | **Lecture: 3 hours/week** |
| | **Tutorial: 1 hours/week** |
| | **Practical: hours/week** |
| | **Lab: 3 hours/week** |

**Course description:**
This course deals with the introduction, different models for e-Governance, concept of e-Governance, different types of on-line business systems, techniques and implementation for electronics payment system, and legal considerations in e-Governance

**Course objectives:**
After completion of this course students will be able to:
1. Introduce e-Governance.
2. Explain security issues of e-Governance.
3. Describe the legal and ethical issues of e-Governance/ cyber law.
4. Impart knowledge in management and government projects

**Course Contents:**

**Theory**

**Unit 1. Introduction** [4 Hrs.]
1.1. History of e-Governance development
1.2. How e-Governance works
1.3. Categories of e-Governance
1.4. Applications
1.5. Global trading environment & adoption of e-Governance
1.6. Difference between traditional Government and e-Governance
1.7. Advantages and disadvantages of e-Governance
1.8. Benefits of e-Government
1.9. E-Government life cycle
1.10. Online service delivery and electronic service delivery
1.11. Maturity and adoption model

**Unit 2. Models of e-Governance** [4 Hrs.]
2.1. Major challenges of G2G
2.2. e-Governance
2.3. Governance to Business(G2B)
2.4. Development of G2B Governance
2.5. Difference between G2Cand G2B e-Governance
2.6. G2C, G2E

**Unit 3. e-Governance Infrastructure** [4 Hrs.]
3.1. Applications architecture
3.2. Support systems
3.3. Data center
3.4. Government gateway
3.5. Open-source software and free software
3.6. Electronic Data Interchange (EDI):

3.6.1.　Components of EDI
　　　　3.6.2.　protocol
　　　　3.6.3.　EDI standards
　　　　3.6.4.　Data standards used in EDI
　　　　3.6.5.　Electronic funds transfer

**Unit 4.　Mobile Governance**　　　　　　　　　　　　　**[4 Hrs.]**
　　4.1.　Application of M-Governance
　　4.2.　Advantage of m-Governance
　　4.3.　Wireless application protocol
　　4.4.　WAP Browser
　　4.5.　Mobile Commerce architecture

**Unit 5.　Technology for Online business**　　　　　　**[3 Hrs.]**
　　5.1.　IT Infrastructure
　　5.2.　Internet
　　5.3.　Intranet
　　5.4.　Extranet
　　5.5.　VPN, Firewall
　　5.6.　Cryptography
　　5.7.　Digital signature
　　5.8.　Digital certificate
　　5.9.　Hypertext
　　5.10.　Hypermedia
　　5.11.　HTTP

**Unit 6.　Electronic payment system (EPS)**　　　　　**[8 Hrs.]**
　　6.1.　Online banking
　　6.2.　Types of EPS
　　6.3.　Security requirement of EPS
　　6.4.　Secure socket layer (SSL)
　　6.5.　Secure electronic
　　6.6.　Transaction (SET)
　　6.7.　Payment gateway
　　6.8.　Online payment processing
　　6.9.　Payment processing Network

**Unit 7.　Security Issues in e-Governance**　　　　　　**[4 Hrs.]**
　　7.1.　e-Governance Security Issues
　　7.2.　Risks Involved in e-Governance
　　7.3.　e-Governance Security tools
　　7.4.　Protecting e-Governance System
　　7.5.　Biometric
　　7.6.　Client server Network security
　　7.7.　Data and message security

**Unit 8.　Legal and Ethical Issues**　　　　　　　　　　**[3 Hrs.]**
　　8.1.　Issues related to e-Governance
　　8.2.　Legal issues
　　8.3.　Ethical issues

8.4.    Taxation

**Unit 9.  Cyber law**                                                        **[3 Hrs.]**
  9.1.    Aims of cyber law
  9.2.    Salient provisions of cyber law
  9.3.    Contracting and contract enforcement

**Unit 10. Managing and implementing e-Governance**                           **[8 Hrs.]**
  10.1.    Management and strategy of e-Government systems
  10.2.    Managing public Data
  10.3.    Managing and emerging issues for e-Government
  10.4.    e-Government system life cycle and project assessment
  10.5.    Analysis of current reality
  10.6.    Design of new e-Government system
  10.7.    e-Government Risk assessment and mitigation
  10.8.    e-Government system construction
  10.9.    Implementation and beyond
  10.10.   Developing e-Government hybrids

**Practical:**                                                                **[45 Hrs.]**
Case studies on developed and developing countries on e -Governance development (G2C, G2B and G2G) and report submission.

| Final written exam evaluation scheme | | | |
|---|---|---|---|
| **Unit** | **Title** | **Hours** | **Marks Distribution\*** |
| 1 | Introduction | 4 | 7 |
| 2 | Models of e-Governance | 4 | 7 |
| 3 | Infrastructure use in e-Governance | 4 | 7 |
| 4 | Mobile Governance | 4 | 7 |
| 5 | Technology for Online business | 3 | 5 |
| 6 | Electronic payment system (EPS) | 8 | 15 |
| 7 | Security Issues in e-Governance | 4 | 7 |
| 8 | Legal and Ethical Issues | 3 | 5 |
| 9 | Cyber law | 3 | 5 |
| 10 | Managing and implementing e-Governance | 8 | 15 |
| | **Total** | **45** | **80** |

\* There may be minor deviation in marks distribution.

**References:**
  1.  Richard Heeks, Implementing and managing e-Government
  2.  C.S. R Prabhu, e-Governance: Concepts and Case studies, prentice hall of India Pvt. Ltd.
  3.  J. Satyanarayana, e-Government, prentice hall of India Pvt. Ltd