**Boston International College**

Course Plan

Subject: Digital Economy

Program: BCIS 8th Sem (Day)

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Total Lecture Hours: 50

Book: Tapscott, D., Lowy, A., & Ticoll, D. Blueprint to the Digital Economy. New Delhi: McGraw Hill Inc

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| S.N | Topic | Lecture Hour | Days | Activities/Methodology |
| 1. | Introduction Digital Economy ,  Traditional vs Digital Economy | 1 | 1 | Lecture |
|  | **Unit I: Fundamentals of Knowledge Dimensions of Economy**   * Role of information and knowledge in society and economy * Value of Information * Information and knowledge as factors of production * Concept of knowledge and Information management in creating organizational value | 3 | 2,3,4,5 | Exercises/Lecture/ Demonstration/Deduction |
| 2. | **Unit II: Image Unit II: Development of knowledge based societies**   * ICTs and development, Delivery of public information and services through digital means - e-government, e-Business * Policy issues and national policy * Infrastructural issues and challenges * Emerging technological trends and their policy ramifications * Broadband and IP-enabled services * basic concept of telecom regulation and Radio-spectrum management | 5 | 6,7,8,9,10,11 | Exercises/ Lecture/ Case study |
| 3. | **Unit III: Fundamentals of e-Readiness and its Assessment Techniques** | 2 | 12,13 | Exercises/ deduction/ Lecture/ Case study |
| 4. | **Unit IV: Role of Information and Communications Technologies in Economic Development**   * Economic and Social dimensions of ICTs * ICTs and economic growth interlink ages * ICTs and Development interlink ages * IT enabled business and service delivery models * BPO/BPM/ITITeS landscape and fundamentals * Positioning Nepal in global sourcing landscape | 4 | 14,15,16,17,18 | Exercises/ Lecture/ Case study |
| 5. | **Unit V: ICTs and Enterprise Level Value Creation**   * ERP (Enterprise Resource Planning) * CRM (Customer Relationship Management) | 4 | 19,20,21,22 | Exercises/ Lecture/deduction |
| 7. | **Unit VI: Fundamentals of Knowledge Economy**   * Internet economy * E-business – Conceptual premise and topologies * Components of fully integrated e-business models involving Enterprise * Manufacturing * Distribution * Financials * Human Resources * Suppliers * concepts of value proposition * value chain and integrated value chain with examples * ICTs and Supply chain management * Electronic sourcing and procurement * Integrated forecasting * Quality System Management * Electronic Commerce: Customer Service, Interactive marketing, Demand forecasting, Order Management, Developing e-business models |  | 23,24,25,26,27,28,29 | Exercises/Lecture/ deduction |
| 8. | **Unit VII: E-commerce**   * Topology of e-commerce - B2C, B2B and B2G, Prospects * Issues and challenges * Payment mechanisms * Order fulfillment, Payment gateways * , Nepal e-Commerce landscape, issues and challenges | 2 | 30,31,32 | Exercises/Lecture/deduction |
| 9. | **Unit VIII: Issues on Developing E-Commerce Based Business Models**   * Analyzing value proposition * Techno graphic profiling * case studies in e-Commerce/e-Business * Impact of ICTs based implementations on traditional business models on some verticals: travel, entertainment and hospitality industries | 4 | 33,34,35,36.37 | Exercises/ Lecture/deduction |
| 10. | **Unit IX: Financing**   * Elements of knowledge industry growth ecosystem * Concept of Venture capital (VC), Angels | 3 | 38,39,40,41 | Exercises/Lecture |
| 11 | **Unit X: Information Economy: Requisite Infrastructure**   * Regulatory regime * Trust - governance and accountability * Operational issues | 3 | 42,43,44,45 | Lecture/case study/Exercise |
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| 12 | **Unit XI: Emerging/Evolving Technology Landscape and their Implications on Digital Economy**   * Concepts of business/competitive intelligence and business analytics * social media * mobile and cloud computing * Data mining and Big Data Analytics * Cyber security and Public Key Infrastructure (PKI) | 5 | 46,47,48,49,50,51 |  |
| 13 | **Unit XII: Information Economy Landscape: Nepal**   * IT policy and strategy * Application of ICTs in public and private sector * Level of e-business related activities * prevailing Regulatory instruments * Opportunities/Constraints/ limitations | 3 | 51,52,53 |  |
| 14 | **Unit XIII: Internet Access and Infrastructure Related Issues**   * Telecom policy * Telecom infrastructure * ISP's, Issues impinging upon ICT penetration and uptake in the country | 3 | 53,54,55 |  |
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