

MGT 259: Technology & Information Management

Full Marks: 100

Pass Marks: 35

Nature of the Course: specialization

Lecture hours: 150

Course Objectives

The basic objective of this course is to give a comprehensive knowledge to students about organization and help them understand the major functions, principles, and techniques of using technology and information management. The course provides an in-depth understanding of fundamental concept of technology and information and its use for betterment of organizational performance

Learning Outcomes

Upon successful completion of this course, students will be able to:

- Understand what technology is and why it is important to business student.
- Comprehend the basic terminology and jargons frequently used in the operation of technology and information management.
- Have the skill of selecting and applying appropriate technology in managing organizations.
- Acquire skills, abilities and tools required for the technology and information management.

Course Description

This course contains the foundations of technology management, information system in business, Management information: application and relationship, Information technology and strategic advantages, e- business systems, use of IT in collaboration and social business, knowledge regarding use of business intelligence and the emerging issues in information and technology management in Nepal.

Course Details

Unit 1: Introduction to Technology Management

20 LHs

Concept of technology and technology management, Evolution and growth of technology, Sources of technology, Forms of technology: process and products technology; Role and significance of management of technology, Impact of technology on society and business, ICT in business, Ethics in using information technology.

Unit 2: Information System in Business

20 LHs

Information management: concept, functions and dimensions; Information technology and its role on information generation and disbursement; The interdependence between organization and information systems; Role of information systems on strategy formulation and decision making; Assets required to optimise returns from the use of information technology: organizational assets, managerial assets and social assets; Contemporary approaches to information system.

Unit 3: Management Information: Applications and Relationship**20 LHs**

Management Reporting System; Decision support system; Office information system including video conferencing and e-mail; Use of internet and management information system for managerial activities; Role and uses of various social media in business : research and development, information management, innovation, venture creation ; Security issues related to information and technology management.

Unit 4: Using Information Technology for Strategic advantages**18 LHs**

Changing context of technological environment, product development – from scientific breakthrough to marketable product; linkage between technology development and competition; Managing research and development through technology; Strategic components and use of IT; Role of IT in achieving strategic advantages; Introduction of agile, virtual and knowledge creating company and uses of IT; Synergizing core competencies and network-based strategies.

Unit 5: E-business systems**30 LHs**

E-commerce: Concept and importance; Digital markets and digital products; E-commerce and internet; E-commerce today; Peculiarities of e-commerce; E-commerce business models; E-commerce revenue models; The mobile digital platform and mobile e-commerce. E-Business system: marketing, operation and manufacturing, HRIS system, financial management and reporting; Marketing information system and sales force automation; Use of ICT in operation and computer integrated manufacturing; Use of IT in HRM; Application of IT in financial management and reporting system.

Unit 6: Collaboration and Social business**15 LHs**

Meaning of collaboration and social business, business benefits of collaboration and social business, application of social business, Requirements for collaboration, Tools and technologies for social business, Information system department in social organization, role in managerial activities and operation procedures in Nepal.

Unit 7: Foundations of Business Intelligence**10 LHs**

Business intelligence: Concept and importance; Dimensions of artificial intelligence; Benefits of artificial intelligence in business, Big data analytics; Data-base approach to data management; Data-base management and business performance; Managing data resources; Mastering big data and searching opportunities.

Unit 8: Emerging issues in Information and Technology in Nepal**7 LHs**

Social media and consumer outreach; Wireless revolution and business in Nepal; Mobile computing technologies in Nepal; Emerging issues in IT: E- health, Socio-technical system, mobile computing, cloud computing distance and e-learning technologies, automation, virtual reality, data warehousing and mining, knowledge management, cyber privacy and security,

Project Work**10 LHs**

The final project work is made an essential academic requirement for the fourth year students in all concentration courses. The faculty will give home/field assignment to students to develop/ design/ evaluate/ analyze/ control/ or similar other task related to project work, and discuss in classroom so that students learn practicum on technology and information management.

Suggested Readings

Kenneth C. Laudon and Jane P. Laudon. *Management Information Systems: Managing the digital* (13th ed.). Delhi, India: Pearson Education firms

James A. O'brien , George M . Marakash and Ramesh Behl. *Management Information System (10th ed.)*. Noida, India: McGraw Hill.

Ramesh Behl. *Information Technology for Management*. Noida, India: Tata McGraw Hill.