

Open Elective Offered by Department of Management Technology

Syllabus of Semester VI, Bachelor of Engineering

Course Code: MBT610-2

Course: Entrepreneurship Development

L: 3 Hrs., T: 1 Hrs., P: 0 Hrs., Per week

Total Credits: 07

Course Objectives:

1. To provide an introduction to entrepreneurship and its development process.
 2. To learn about business idea generation and preparation of Business Plan.
 3. To make student understand various activities of funding agencies.
 4. To provide understanding about various sources of finances.
 5. To provide conceptual clarification to family business
 6. To provide conceptual clarification networking, e-business and growth strategies.
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Unit I: Concept of Entrepreneurship

Entrepreneurship – Meaning, Types, Qualities of an Entrepreneur, Classification of Entrepreneurs, Factors influencing Entrepreneurship, Entrepreneurial Development Programmes (EDP)

Unit II: Business Idea & Plan

Business Idea: Sources, Evaluation. Business Plan: Uses, Writing, Data collection. Business Plan Presentation.

Unit III: Entrepreneurial Development – Agencies

Commercial Banks – District Industries Centre – National Small Industries Corporation – Small Industries Development Organization – Small Industries Service Institute. Business Incubation, Business Clusters

Unit IV: Mobilizing Resources

Entrepreneurial finance: Debt, Venture Capital Buying a Business: challenges, The Search, Process, Scrutiny, Valuation, Negotiation, Franchising

Unit V: Family Business

Family business in India, The Founder, The Next Generation, Entry of Family Members, Nonfamily Managers, Succession, Corporate Social Responsibilities, Corporate Governance, Business Cases, Best Practices,

Unit VI: E- Business & Networking

E- Business: Domain Name, Website, E-Commerce, Hosting, Building Traffic Networking: Starting & Managing a Network, Infrastructure, Best Practices Growth Strategies: Stages of Growth, Global Expansion, Relocation, Financing Growth, , Business Cases

Suggested References:

1. Vasanta Desai: Dynamics of entrepreneurial development and management;
2. Vasanta Desai: Entrepreneurial
3. Peter F. Drucker: Innovation and development;
4. M.V. Deshpande: Entrepreneurship of small scale industries;
5. Rajeev Roy : Entrepreneurship.

Open Elective Offered by Department of Computer Application

Syllabus of Semester VI, Bachelor of Engineering

Course Code: MCT708

Course: Advanced Data Structures

L: 3 Hrs., T: 1 Hrs., P: 0 Hrs., Per week

Total Credits: 07

Course Objectives

1. To Learn Different Data Structures and their uses.
 2. To differentiate the different Data Structures.
 3. To Study Applications of Data Structures in Different Areas of Research like Databases, Data Mining, Image Processing, Web Analytics, Networking etc.
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Course Outcomes

1. To apply these Data Structures in different areas like Databases, Data Mining, Image Processing, Web Services, Networking etc.
 2. To apply Advanced Data Structures to carry out research.
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Syllabus

UNIT-I

Introduction to Data Structures - Basic programming constructs, Variables and simple data types, Assignments, Input/output, Conditions and branching, Loops and iteration, Pointers, Arrays, Linked Lists, Trees.

UNIT-II

Data Structures in Operating Systems: Priority Queues, Multilevel Queues, Feedback Queues.
Image Data Structures: Introduction, What is Image Data, Quad Trees, Virtual Quad Trees, Translation Invariant Data Structures (TID).

UNIT-III

Data Structures For Databases: Overview of functionality of Database Management System, Data Structures for Query Processing, Index Structures, Sorting Large Files, Parse Tree, and Expression Trees, Data Structures for Disk Space Management

UNIT-IV

Data Structures in Web Information Retrieval: Introduction, Inverted Indices, Fingerprints, Finding Near Duplicate Documents.

UNIT-V

Data Mining Data Structures: Introduction, Classification, Association Analysis, Clustering, Probabilistic Data structures for Web Analytics, Data Structures for Big Databases.

UNIT-VI

Data Structures in Computer Networks: IP Router Table Data Structures, Multidimensional Packet Classification. **Dictionary Data Structures:** Hash Table, Balanced Binary Search Trees, B Trees, B+ trees.

Text Books:

1. Handbook of Data structures and Applications: *Dinesh P.Mehta, Sartaj Sahani*
2. Data Structures and Program Design: *Robert Kruse, PHI.*

Reference Books:

1. How to solve it by Computers: *R G Dromey, PHI.*
2. Science of Programming: David Greece: *Springer Verlag New York Pub.*
3. Fundamentals of Data Structures: *Elis Horowitz, Sartaj Sahani, Galgotia Publications.*