

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course	Department offering the course
		Lecture	Tutorial	Practical/ Practice			
Principles of Financial Decision Making	4	3	1	0	Class XII pass	Basic knowledge of business and management concepts	Management Faculty of CIC

Learning Objectives

1. To provide students with foundational knowledge of financial principles.
2. To enable students to understand the role of finance in technology-driven businesses.
3. To develop analytical skills for financial decision-making in IT projects.
4. To bridge the gap between technical expertise and business acumen.

Learning outcomes

By the end of the course, students will:

1. Understand the fundamental principles of financial management.
2. Evaluate investment opportunities and assess project feasibility.
3. Manage the financial aspects of IT operations and projects effectively.
4. Apply financial tools and techniques to optimize decision-making in technology-based enterprises.

SYLLABUS OF GE-7

Unit I- Introduction to Financial Management: Definition, Scope, and Objectives of Financial Management, Financial Management in Technology-Oriented Businesses, Role of IT in Modern Financial systems. Financial Statements and Analysis: Understanding Financial Statements: Balance Sheet, Profit & Loss Statement, and Cash Flow Statement, Ratio Analysis and Its Application in IT Projects, Importance of Financial Metrics for IT Firms (e.g., Return on Investment (ROI), Payback Period, Net Present Value (NPV)). **(13 hours)**

Unit II- Time Value of Money and Investment Decisions: Concept of Time Value of Money: Present and Future Value, Evaluation of Investment Decisions: Payback Method, NPV, Internal Rate of Return (IRR), Risk Analysis in IT Investments. **(10 hours)**

Unit III- Financing and Capital Structure: Sources of Finance for IT Companies (Venture Capital, Private Equity, Debt). Optimal Capital Structure and Cost of Capital. Impact of Technology Trends on Financing. Budgeting and Cost Control: Principles of Budgeting in IT Projects, Types of Budgets: Operating, Capital, and Cash Budgets, Techniques for Cost Control in IT Systems and Infrastructure. **(9 hours)**

Unit IV- Working Capital Management: Definition and Components of Working Capital, Managing Receivables, Inventory, and Payables, Working Capital Challenges in IT

Companies. Emerging Trends in Financial Management: FinTech and Its Applications in Financial Management, Financial Impact of AI, Big Data, and Cloud Computing, ESG (Environmental, Social, and Governance) Factors in Financial Decision-Making.

(10 hours)

Essential/recommended readings

Pandey, I. M. (2021). *Financial management* (12th ed.). McGraw-Hill Education.

Chandra, P. (2022). *Financial management: Theory & practice* (11th ed.). McGraw Hill.

Generic Elective: (GE)

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite of the course (if any)	Department offering the course
		Lecture	Tutorial	Practical/ Practice			
Biodefense and Bioengineering	4	2	0	2	12th Pass	Nil	Biology faculty of CIC

Learning Objectives

This module is designed to:

- Introduce students to the complexity of the immune system, infections
- Introduce students to tools and techniques related to immunity including the development of vaccines and immunological tests.

Learning outcomes

After studying this course, the students will be able to:

- Comprehend the complexity of the immune system
- Develop an understanding of the basis of functioning the immune system against infections and cancer
- Develop skills in immunological techniques such as ELISA, DOPE test, simulated pregnancy test etc.

SYLLABUS

Unit I: Overview of Immune system
(6 hours)

(6)

Immune system and its classifications, types of immunity, cells and organ of the immune system