

SEMESTER I

1.Principles and Practice of Management

1. Business- The Purpose of Management
2. Designing Organization for Business
3. Need for Managing Organization and Business
4. Management of Standard Functions
5. Managing Resources
6. Planning
7. Decision-Making
8. Organizing
9. Staffing
10. Leading: Directing | Communicating
11. Controlling
12. Coordinating (Synchronizing)
13. Evolution of Management Thought
14. Pursuing Management as a Career

2.Operations Strategy and Management

1. Introduction of Operations Strategy
2. Competitive Dimension
3. Operations Performance
4. Capacity Strategy
5. Purchasing and Supply Strategy
6. Process Technology Strategy
7. Improvement Strategy
8. Product Development Strategy
9. Process Operation Strategy

3. Introduction to Project Management

1. Project Management: Genesis, History & Evolution
2. Project Phases and Organization
3. Understanding and Meeting Client Expectations
4. Project Planning
5. Working with People on Projects
6. Networks for Project Management
7. Resource Levelling and Project Crashing
8. Project Implementation and Monitoring
9. Controlling Projects
10. Introduction to Projects Contracts Management
11. Focused Areas From PMBOK 6 & 7
12. Introduction of Other Useful Frameworks

4. Project Scope, Time, Cost and Total Quality Management

1. Project Management: Triple Constraint
2. Project: Work Breakdown Structure
3. Project: Time (Schedule) Management
4. Project: PERT and CPM
5. Schedule Management: Project Crashing
6. Introduction to Project Cost Management
7. Operating Cycle: Budget and Control
8. Earned Value Management
9. Variance & Earned Value
10. Cost Overrun Dilemma
11. Project Quality Control, Assurance-TQM and its Impact on Time and Cost
12. Quality Management Tools

SEMESTER II

1. Mis, Project Analytics And Dashboard

1. Introduction & Importance of Project Analytics
2. Data-Driven Decision Making
3. Statistical Tools
4. Analytic Hierarchy Process
5. Lean Six Sigma
6. Statistical Application in Project Management

2. Project Risk Management

1. Introduction & Components of Risk Management
2. Definition and Tolerance of Risk
3. Plan Risk Management
4. Risk Identification & Analysis
5. Qualitative & Quantitative Risk
6. Plan Risk Response
7. Monitor and Control Risk
8. Holistic Approach for Risk Management
9. Lessons Learned
10. Risk Management in Procurement

3. Agile Project Management Using Scrum

7. Introduction to “Agile” & Its Evolution
8. Introduction to Scrum
9. Project Planning Using Scrum
10. Release and Sprint Planning
11. Scrum Roles
12. Scrum Flow
13. Scrum Artifacts
14. The Team
15. Getting Maximum out of Sprint
16. Scrum for Software Development
17. Scrum for Service Industry
18. Scrum for Manufacturing Industry

4. Project Procurement Supply Chain and Contracts Management

1. Introduction To Procurement Management
2. Project Procurement Processes and Vendor Selection Strategies
3. Project Procurement Management Plan
4. Types of Contracts
5. Contracts Principles & Terms and Conditions International Contracts
6. Legal Aspects of Project Procurement
7. Supply Chain Management in Projects
8. Closing out Project Procurement
9. Risk Management in SCM

SEMESTER III

1. Moving from project management to project leadership

1. Project Leadership
2. Understanding Teamwork
3. Organization Structure & Culture
4. Team Dynamics - 5 Dysfunctions of a Team
5. Change Management and Leadership
6. Interpersonal Skills & Emotional Intelligence in Leadership
7. Decision-Making and Problem-Solving Skills
8. Conflict Resolution and Managing Resistance
9. Ethical Leadership and Corporate Governance
10. Measuring Leadership Effectiveness & Future Trends in Project Leadership

2. Soft skills for Project Managers

1. Persuasion & Negotiation
2. Critical Thinking
3. Conflict Management
4. Emotional Intelligence
5. Adaptability
6. Teamwork
7. Trust Building
8. Communication
9. Coaching
10. Motivation
11. Risk Management
12. Stakeholder Management

3. PROJECT MANAGEMENT TOOL BOX AND MS-PROJECT

1. Introduction to Project Management Tool Box
2. Project Selection Tools
3. Project Initiation Tools
4. Project Planning Tools
5. Schedule Development Tools
6. Budget and Cost Planning Tools
7. Project Implementation Tools
8. Project Performance Reporting Tools
9. Project Closure Tools
10. Risk Management Tools
11. Influencing Stakeholder Tools
12. Introduction to Microsoft Project
13. Using MS Project as Project Management Tool

4. Strategic Project Management & Competitive advantage

1. Fundamentals of Strategic Project Management
2. Strategic Project Management (SPM)
3. Strategic Analysis and Assessment
4. Strategy Formulation and Decision Making
5. Strategy Formulation – Additional Tools
6. Project Strategy Implementation and Execution
7. Strategic Project Monitoring and Control
8. Strategic Alignment and Integration
9. Emerging Trends in Strategic Project Management
10. Taking Strategic Actions for Competitive Advantage

SEMESTER IV

1. IT-Software Project management using DevOps

1. DevOps Introduction and Overview
2. DevOps Adoption
3. DevOps for Optimizing IT Project Delivery Pipeline
4. DevOps for Driving Innovation
5. Leading DevOps Adoption in Organizations
6. Scaling DevOps for the Organization
7. Advanced DevOps

2. Project Management maturity model for excellence

1. Fundamentals of Project Management Maturity Model for Excellence
2. Project Management Maturity Model for Excellence
3. Project Management Maturity Levels
4. Self-assessment of Project Management Maturity
5. Self-assessment of Project Management Maturity
6. Best Practices in Project Management Maturity
7. Project Management - Competency Models
8. Key Competencies of a Project Manager
9. PMO – Functions & Types – Maturity Model & Establishing PMO
10. Portfolio Committee Governance, Decision-Making, and Strategic Alignment
11. Quality Management in Projects - ISO 10006:2017 Standard
12. Project Sustainability: Balancing People, Planet, and Profit

3. Project Management in New Product Development and Infrastructure Sector

SECTION – I PROJECT MANAGEMENT IN NEW PRODUCT DEVELOPMENT

1. Understanding the Basics & Concepts of New Product Development
2. Innovation and Creativity in New Product Development
3. New Product Portfolio & Strategic Alignment
4. 9E Model of New Product Development
5. Product Concept Definition, Scope & Integration
6. New Product Development in Consumer Electronics
7. Risk and Quality Management in New Product Development Projects
8. Organizational Culture and Teamwork in NPD

SECTION - II PROJECT MANAGEMENT IN INFRASTRUCTURE SECTOR

1. Constructure & Infrastructure Sector – Economic Perspective
2. Construction and Infrastructure - Project Life-Cycle
3. Construction and Infra Project Estimates
4. Construction & Engineering Contracts – EPC
5. Public-Private Partnerships (PPPs)
6. FIDIC - Conditions of Contracts for Construction
7. Lean Construction Management
8. Technological Advancements in Construction Projects

4. Project Submission

- Identify live projects in your industry, Plan, execute and manage project using various tools, techniques and practices
- Preparation & submission of report as per the SCDL Project Preparation Guidelines