

DISCIPLINE SPECIFIC ELECTIVE COURSE

DSE HH 8E2: PROJECT MANAGEMENT

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)
		Lecture	Tutorial	Practical		
Project Management DSE HH 8E2	4	2	0	2	Studied in semester-6	NIL

Learning Objectives

- To impart an understanding of the conceptual framework, scope and importance of project management.
- To build proficiency in developing and managing projects.

Learning Outcomes

- Develop an understanding of project management, role of project manager and organizational structure.
- Comprehend the range, scope, and complexity of contemporary project management tools and techniques.
- Acquire skills to design and manage projects.

SYLLABUS OF DSE HH 8E2

THEORY (Credits 2; Hours 30)

UNIT I: Introduction to Project Management

6 Hours

This unit provides an overview of the fundamental principles of project management and project lifecycle.

- Project Lifecycle
- Project Integration Management
- Project Selection

UNIT II: The Project Manager

6 Hours

This unit examines role, characteristics, skills and ethics of a project manager.

- Role and characteristics
- Ethics
- Conflict Management

UNIT III: Project Organization Monitoring and Control

8 Hours

This unit covers scope and importance of project planning, budgeting, risk mitigation, and management.

- Planning
- Budgeting
- Cost Estimation
- Risk Management

UNIT IV: Project Monitoring and Control

10 Hours

This unit focuses on contemporary professional practices in project management, including project scheduling, resource allocation, leveling, auditing, and ensuring success.

- Scheduling
- Resource allocation
- Leveling
- Auditing and termination
- Project success

PRACTICAL (Credit 2; Hours 60)

1. Project Planning and Selection
2. Portfolio Optimization
3. Scheduling
4. Cost Management
5. Resource Management: Resource Allocation, Resource Levelling
6. Project Evaluation
7. Request for Proposal (RFP)

The above practicals will be conducted using latest tools like PRIMA VERA, MS Project etc.

Essential Readings

- A Guide to the Project Management Body of Knowledge- *PMBOK Guide- Seventh Edition, American National Standard, ANSI/PMI99-001-2021*
- *A Guide to the Project Management Body of Knowledge- 5th Edition by the Project Management Institute (PMI) 2013. ISBN:9781935589679*
- Meredith J. R., Shafer S. M., and Mantel S. J. Jr.(2021) . *Project Management: A Managerial Approach, (11th ED.)* Wiley.

Suggested Readings

- Erickson T., Khatri P.V (2015) *Project Management*, Global Vision Publishing House, ISBN- 13 : 978-9381695418
- Horine, G. (2017). *Project management absolute beginner's guide (4th ed.)* Que Publishings
- Jain, G.L. *Project Management: A Managerial Approach*, DND Publications, ISBN-10. 9380929765 · ISBN-13. 978-9380929767
- Nagarajan, K. (2010). *Project Management (6th ed.)* New Age International Pvt. Ltd.
- Project Management- Prasanna and Chandra, Tata McGraw Hill
- Spinner P. *Elements of Project Management*, Prentice Hall, USA

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.