

**DISCIPLINE SPECIFIC ELECTIVE COURSE**

**DSE HH 7E4: 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		
<b>Project Management DSE HH 7E4</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>Studied Semester 6</b>	<b>NIL</b>

**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 7E4**

**THEORY**  
(Credits 2; Hours 30)

**UNIT I: Introduction to Project Management**

**12 Hours**

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

- Project Selection and Planning
- Cost Estimation
- Budgeting
- Risk Management

**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 Monitoring and Control**

**12 Hours**

This unit focuses on contemporary professional practices in project management including project scheduling, resource allocation, leveling, auditing and ensuing 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**

- Project Management Institute. (2021). *A Guide to the Project Management Body of Knowledge- PMBOK Guide-Seventh Edition*. American National Standard, ANSI/PMI99-001-2021
- Project Management Institute. (2013). *A Guide to the Project Management Body of Knowledge- 5<sup>th</sup> Edition*. American National Standard, ISBN: 9781935589679
- Meredith J. R., Shafer S. M., and Mantel S. J. Jr. (2021). *Project Management: A Managerial Approach, (11<sup>th</sup> ED.)*. John Wiley & Sons Inc.
- Jain, G.L. (2014). *Project Management: A Managerial Approach*. DND Publications, ISBN-10. 9380929765 · ISBN-13. 978-9380929767

#### **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 (4<sup>th</sup> ed.)*. Que Publishings
- Nagarajan, K. (2010). *Project Management (6<sup>th</sup> ed.)*. New Age International Pvt. Ltd.
- Prasanna and Chandra. (2017). *Projects: Planning, Analysis, Selection, Financing, Implementation, and Review*. McGraw Hill Education, ISBN-13 978-9332902572
- Spinner, P. (1991). *Elements of Project Management: Plan, Schedule, and Control*. Prentice Hall, USA, ISBN 13: 9780132532464

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