



Course Specification

Course Name: Project Management

Course Code: DS321

I. Basic Course Information

Major or minor element of program: General

Department offering the course: [Operations Research and Decision Support Department]

Academic level: 300 Level

Semester in which course is offered: First (fall) Semester

Course pre-requisite(s): DS211 Introduction to Operations Research and Decision Support

Credit Hours: 3

Contact Hours Through:

Lecture	Tutorial*	Practical*	Total
2.5	0.0	1.5	4.0

* 1.5 hours for **either** Tutorial or Practical

Approval date of course specification: September 2014

II. Overall Aims of Course

The aim of the course is to provide students with the knowledge necessary for organizing and managing resources in such a way that the project is completed within defined scope, quality, time, and cost constraints. Students should also be able to meet the challenge of optimized allocation and integration of inputs needed to meet pre-defined objectives.

III. Program ILOs covered by course

Program Intended Learning Outcomes (By Code)			
Knowledge & Understanding	Intellectual Skills	Professional Skills	General Skills
[K4,K11,K14]	[I1,I5,I7]	[P3,P10,P11]	[G2,G4,G6]



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IV. Intended Learning Outcomes of Course (ILOs)

a. Knowledge and Understanding

On completing the course, students should be able to:

- K.1 Describe the terminology, and concepts associated with the field of managing projects.
- K.2 Explain the phases of project management: initiating, planning, executing, controlling, and closing.
- K.3 List tools and techniques used by a project manager.
- K.4 List and describe areas that comprise project management: project integration management, project scope management, project time management, project cost management, project quality management, project human management, project communication management, and project risk management.

b. Intellectual/Cognitive Skills

On completing the course, students should be able to:

- I.1 Think, plan, control, and execute the projects within time and budget constraints.
- I.2 Develop a project schedule.
- I.3 Develop a project budget.
- I.4 Develop a project resource plan.

c. Practical/Professional Skills

On completing the course, students should be able to:

- P.1 Use various software tools to manage the projects and enhance the development effort.
- P.2 Develop and deliver project status reports to different management hierarchies.
- P.3 Recognize different professional and ethical issues pertaining to projects.

d. General and Transferable Skills

On completing the course, students should be able to:

- G.1 Explain the characteristics that make for a successful project.
- G.2 Improve written and oral communication skills, supported by the use of computer and group work.
- G.3 Explain and apply several tools and techniques to help manage a project team and summarize general advice on managing teams.

V. Course Matrix Contents

	Main Topics / Chapters	Duration (Weeks)	Course ILOs Covered by Topic (By ILO Code)			
			K & U	I.S.	P.S.	G.S.
1-	Introduction	1	K1,K2,K4			G1
2-	Networks	2	K2	I1	P1	
3-	Time estimates	2	K2	I2		
4-	Scheduling algorithms	2	K2,K3,K4	I2	P1,P2	
5-	Project budgeting and cost control	2	K2,K4	I3	P1,P2,P3	
6-	Resource management	2	K2,K4,K5	I4	P1,P2,P3	G2,G3
7-	PERT approach	1	K2,K5	I2	P1,P2	G2,G3
8-	Project time-cost trade-off	1	K2		P1,P2,P3	G2,G3
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VI. Course Weekly Detailed Topics / hours / ILOs

Week No.	Sub-Topics	Total Hours	Contact Hours	
			Theoretical Hours	Practical Hours*
1	Introduction	2.5	2.5	
2	Networks	4	2.5	1.5
3	Networks	4	2.5	1.5
4	Time estimates	4	2.5	1.5
5	Time estimates	4	2.5	1.5
6	Scheduling algorithms	4	2.5	1.5
7	Midterm Exam			
8	Scheduling algorithms	4	2.5	1.5
9	Project budgeting and cost control	4	2.5	1.5
10	Project budgeting and cost control	4	2.5	1.5
11	Resource management	4	2.5	1.5
12	Resource management	4	2.5	1.5
13	PERT approach	4	2.5	1.5
14	Project time-cost trade-off	4	2.5	1.5
15	Final Exam			
Total Teaching Hours		51	33	18

* No Practical/Tutorial during the first week of the semester

VII. Teaching and Learning Methods

Teaching/Learning Method	Selected Method	Course ILOs Covered by Method (By ILO Code)			
		K & U	Intellectual Skills	Professional Skills	General Skills
Lectures & Seminars	✓	K1,K2,K3,K4		P3	G1,G2,G3
Tutorials					
Computer lab Sessions	✓		I2	ALL	ALL
Practical lab Work					
Reading Materials					
Web-site Searches					
Research & Reporting					
Problem Solving / Problem-based Learning	✓	ALL	ALL	ALL	ALL
Projects	✓	ALL	ALL	ALL	ALL
Independent Work					
Group Work					
Case Studies					
Presentations					
Simulation Analysis					
Others (Specify):					



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VIII. Assessment Methods, Schedule and Grade Distribution

Assessment Method	Selected Method	Course ILOs Covered by Method (By ILO Code)				Assessment Weight / Percentage	Week No.
		K & U	I.S.	P.S.	G.S.		
Midterm Exam		K1,K2	I1,I2			15%	7
Final Exam		ALL	ALL		P3	60%	15
Quizzes		ALL				5%	4,11
Course Work		ALL	ALL			10%	ALL
Report Writing							
Case Study Analysis							
Oral Presentations							
Practical							
Group Project				ALL	ALL	10%	14
Individual Project							
Others (Specify):							

IX. List of References

Essential Text Books	<ul style="list-style-type: none"> Project Management A System Approach to Planning, Scheduling, and Controlling, Harold Kerzner, 8th Edition, Wiley A Guide to the Project Management Body of knowledge (PMBOK Guide) 2008 Edition.
Course notes	<ul style="list-style-type: none"> Yes
Recommended books	<ul style="list-style-type: none"> Project Management with CPM, PERT and Precedence Programming, Joseph J. Moder, 3rd Edition ,1970 Information Technology Project Management, Kathy Schwalbe, 4Th edition.
Periodicals, Web sites, etc ...	<ul style="list-style-type: none"> International Journal of Project Management Project Management Institute www.pmi.org

X. Facilities required for teaching and learning

<p>List the facilities required</p> <ul style="list-style-type: none"> Data show Computers White boards.

Course coordinator: Prof. Hisham M. E. Abdelsalam

Head of Department:[Prof. Mohamed Mostafa Saleh]

Date: September 2014