



49. Course Specification of Engineering Project

Managements

I. Course Identification and General Information:					
1.	Course Title:	Engineering Project Managements			
2.	Course Code & Number:	FR304			
3.	Credit hours:	C.H			Total
		Th.	Tu.	Pr	
		2	-	-	-
4.	Study level/ semester at which this course is offered:	Fourth Year/ Second Semester			
5.	Pre –requisite (if any):	Engineering Economy (BR232)			
6.	Co –requisite (if any):	NA			
7.	Program (s) in which the course is offered:	All Electrical Engineering Program			
8.	Language of teaching the course:	Arabic and English.			
9.	Location of teaching the course:	Class			
10.	Prepared By:	Asst. Prof. Dr. Ahmed Al Arashi			
11.	Date of Approval				

II. Course Description:
<p>This course introduces the main principals of the project management. Students will be exposed to the definitions of the project, project cycle, project planning, monitoring, risk assessments, budgeting, and end project evolution and reporting. It will emphasize on Electrical engineering projects and the need for sentimental confederation to minimize the project foot print on the environment.</p>

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III. Course Intended learning outcomes (CILOs) of the course		Referenced PILOs
a1	Define the definition of project	A3
a2	Define the Electrical engineering professional Ethics.	A4
b1	analyze the project critical path	B2
b2	Consider environmental dimensions associated with projects.	B4
c1	Apply the acquired electrical engineering knowledge to evaluate the system technical performance.	C1
c2	Use engineering techniques to enhance the project technical performance.	C4
d1	Work as a team in developing a mini project.	D1
d2	Present a project using MS power point.	D4

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Define the definition of project	<ul style="list-style-type: none"> Class Lectures. 	<ul style="list-style-type: none"> Quiz Mid-term Final exam
a2. Define the Electrical engineering professional Ethics.	<ul style="list-style-type: none"> Interactive Class Discussion 	<ul style="list-style-type: none"> Quiz Mid-term Final exam

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. analyze the project critical path	<ul style="list-style-type: none"> Class Lectures. 	<ul style="list-style-type: none"> Quiz Mid-term Final exam

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	<ul style="list-style-type: none"> ▪ Interactive Class Discussion 	
<p>b2. Consider environmental dimensions associated with projects.</p>	<ul style="list-style-type: none"> ▪ Class Lectures. ▪ Interactive Class Discussion 	<ul style="list-style-type: none"> ▪ Quiz ▪ Mid-term ▪ Final exam

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© Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Apply the acquired electrical engineering knowledge to evaluate the system technical performance.	<ul style="list-style-type: none"> ▪ Class Lectures. ▪ Interactive Class Discussion 	<ul style="list-style-type: none"> ▪ Quiz ▪ Mid-term ▪ Final exam
c2. Use engineering techniques to enhance the project technical performance.	<ul style="list-style-type: none"> ▪ Class Lectures. ▪ Interactive Class Discussion 	<ul style="list-style-type: none"> ▪ Quiz ▪ Mid-term ▪ Final exam

(D) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1. Work as a team in developing a mini project.	<ul style="list-style-type: none"> ▪ Student projects 	<ul style="list-style-type: none"> ▪ Presentation
d2. Present a project using MS power point.	<ul style="list-style-type: none"> ▪ Student projects 	<ul style="list-style-type: none"> ▪ Presentation

IV. Course Content:					
A – Theoretical Aspect:					
Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact hours
1.	Introduction	a1	<ul style="list-style-type: none"> ▪ Definition ▪ The need for Project Management ▪ Response to a Changing Environment ▪ Project Goals 	1	2

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2.	Main Project Management Concepts	b1 , a2	<ul style="list-style-type: none"> ▪ Functions of Management. Project Viewpoint versus Traditional Management. ▪ Evolution of Project Management. ▪ Areas of Applications of Project Management ▪ Common Approach of Project Management ▪ Different Forms of Project Management ▪ Project Environments ▪ Project Management in various sectors ▪ Project and Program 	2	4
3.	Projects Planning	b1 and,b2	<ul style="list-style-type: none"> ▪ Planning Steps ▪ Project Master Plan ▪ Scope and Work Definition ▪ Project Organization Structure and Responsibilities. ▪ Project Management System. Scheduling. ▪ Planning and Scheduling Charts 	2	4
4.	Network Scheduling, PERT, CPM and Resource Allocation.	a2 and b1	<ul style="list-style-type: none"> ▪ Logic Diagrams and Networks. ▪ Calendar Scheduling and Time-Based Networks ▪ Management Schedule Reserve 	1	2
5.	Network Scheduling, PERT, CPM	a2 and b1	<ul style="list-style-type: none"> ▪ Program Evaluation and Review Technique (PERT). ▪ Critical Path Method (CPM) 	1	2

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	and Resource Allocation.		<ul style="list-style-type: none"> ▪ Scheduling with Resource Constraints. 		
6.	Cost Estimating and Budgeting	b2	<ul style="list-style-type: none"> ▪ Cost Estimating ▪ Cost Escalation ▪ Cost Estimating and the Systems Development Cycle ▪ Cost Estimating Process. ▪ Elements of Budgets and Estimates. ▪ Budgeting Using Cost Accounts ▪ Cost Schedules and Forecasts 	2	4
7.	Managing Risks in Projects	b1 and c1	<ul style="list-style-type: none"> ▪ Risk Concepts. ▪ Risk Identification ▪ Risk Assessment ▪ Risk Response Planning. ▪ Project Management Risk Management 	2	4
8.	Project Control	c1 and c2	<ul style="list-style-type: none"> ▪ The Control Process ▪ Information Monitoring ▪ Internal and External Project Control ▪ Cost Accounting Systems for Project Control ▪ Project Control Process ▪ Performance Analysis ▪ Forecasting “To Complete” and “At Completion” 	1	2
9.	Project Evaluation, Reporting, and Termination	c1, d1 , d2	<ul style="list-style-type: none"> ▪ Project Evaluation ▪ Project Review Meetings ▪ Reporting ▪ Terminating the Project. ▪ Termination Responsibilities ▪ Closing the Contract ▪ Project Extensions 	1	2

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Number of Weeks /and Units Per Semester	14	28
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V. Teaching strategies of the course:	
<ul style="list-style-type: none"> ▪ Class Lectures. ▪ Project ▪ Presentation. ▪ Interactive Class Discussion 	

VI. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1.	<ul style="list-style-type: none"> ▪ Areas of Applications of Project Management ▪ Common Approach of Project 	b1 , a2	3 rd	1.5
2.	<ul style="list-style-type: none"> ▪ Program Evaluation and Review Technique (PERT). 	a2,b1	7 th	1.5
3.	<ul style="list-style-type: none"> ▪ Termination Responsibilities ▪ Closing the Contract ▪ Project Extensions 	c1,d1,d2	12 th	2
Total				5

VII. Schedule of Assessment Tasks for Students During the Semester:					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1.	Assignments	2 nd ,7 th ,12 th	5	5%	a2, b1,c1,d1,d2
2.	Quiz 1	3 rd	5	5%	a1,a2,b1,b2
3.	Quiz 2	5 th	5	5%	a1,a2,b1,b2
4.	Midterm exam	7 th	10	10%	a1,a2,b1,b2
5.	Project presentation	15 th	25	25%	c1,c2,d1,d2
6.	Final Exam	16 th	50	50%	a1,a2,b1,b2

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Total	100	100%	
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VIII. Learning Resources:	
<ul style="list-style-type: none"> Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher). 	
1- Required Textbook(s) (maximum two).	
	1- John M. Nicholas, 2004, “Project Management for Business and Engineering, Principals and Practice”, 2 nd Edition, Elsevier Inc. Or latest edition. 2- R. Dan Reid and Nada R. Sanders, 2005, “Operations Management An Integrated 4th edition
2- Essential References.	
	1- Oosthuizen and Venter, 2011, “Project Management in Perspective”, Oxford University Press Southern Africa (Pty) Ltd.
3- Electronic Materials and Web Sites etc.	
	None.

IX. Course Policies:	
1.	Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring an approved statement from university Clinic
2.	Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he will be considered as absent.
3.	Exam Attendance/Punctuality: A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam-
4.	Assignments & Projects:

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	The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time-
5.	Cheating: For cheating in exam, a student will be considered as failure . In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty-
6.	Plagiarism: Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee proved a plagiarism of a student, he will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university.
7.	Other policies: - Mobile phones are not allowed to use during a class lecture. It must be closed, otherwise the student will be asked to leave the lecture room - Mobile phones are not allowed in class during the examination. Lecture notes and assignments my given directly to students using soft or hard copy

Reviewed By	<u>Vice Dean for Academic Affairs and Post Graduate Studies: Asst. Prof. Dr. Tarek A. Barakat</u> <u>President of Quality Assurance Unit: Assoc. Prof. Dr. Mohammed Algorafi</u> <u>Name of Reviewer from the Department: Assoc. Prof. Dr. Radwan Al bouthigy</u>
	<u>Deputy Rector for Academic Affairs Asst. Prof. Dr. Ibrahim AlMutaa</u> <u>Assoc. Prof. Dr. Ahmed Mujahed</u> <u>Asst. Prof. Dr. Munasar Alsubri</u>

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49. Template for Course Plan of Engineering Project Managements

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Assoc. Prof. Dr. Ahmed Al Arashi	Office Hours					
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail	arashiaa@yahoo.com						

II. Course Identification and General Information:						
1.	Course Title:	Engineering Project Managements				
2.	Course Number & Code:	FR304				
3.	Credit hours:	C.H				Total
		Th.	Tu.	Pr.	Tr.	
		2	-	-	-	
4.	Study level/year at which this course is offered:	Fourth Year/ Second Semester				
5.	Pre –requisite (if any):	Engineering Economy (BR232)				
6.	Co –requisite (if any):	NA				
7.	Program (s) in which the course is offered	All Electrical Engineering Program				
8.	Language of teaching the course:	Arabic and English.				
9.	System of Study:	Regular				
10.	Mode of delivery:	Semester				
11.	Location of teaching the course:	Class				

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III. Course Description:
 This course introduces the main principals of the project management. Students will be exposed to the definitions of the project, project cycle, project planning, monitoring, risk assessments, budgeting, and end project evolution and reporting. It will emphasize on Electrical engineering projects and the need for sentimental confederation to minimize the project foot print on the environment.

- IV. Intended learning outcomes (ILOs) of the course:**
- Brief summary of the knowledge or skill the course is intended to develop:
 1. Define the definition of project
 2. Define the Electrical engineering professional Ethics.
 3. analyze the project critical path
 4. Consider environmental dimensions associated with projects.
 5. Apply the acquired electrical engineering knowledge to evaluate the system technical performance.
 6. Use engineering techniques to enhance the project technical performance .
 7. Work as a team in developing a mini project.
 8. Present a project using MS power point.

V. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact hours
1.	Introduction	<ul style="list-style-type: none"> ▪ Definition ▪ The need for Project Management ▪ Response to a Changing Environment ▪ Project Goals 	1 st	2

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2.	Main Project Management Concepts	<ul style="list-style-type: none"> ▪ Functions of Management. Project Viewpoint versus Traditional Management. ▪ Evolution of Project Management. ▪ Areas of Applications of Project Management ▪ Common Approach of Project Management ▪ Different Forms of Project Management ▪ Project Environments ▪ Project Management in various sectors ▪ Project and Program 	2 nd ,3 rd	4
3.	Projects Planning	<ul style="list-style-type: none"> ▪ Planning Steps ▪ Project Master Plan ▪ Scope and Work Definition ▪ Project Organization Structure and Responsibilities. ▪ Project Management System. Scheduling. ▪ Planning and Scheduling Charts 	4 th ,5 th	4
4.	Network Scheduling, PERT, CPM and Resource Allocation.	<ul style="list-style-type: none"> ▪ Logic Diagrams and Networks. ▪ Calendar Scheduling and Time-Based Networks ▪ Management Schedule Reserve 	6 th	2
5.	Midterm Exam		7 th	2
6.	Network Scheduling, PERT, CPM and Resource Allocation.	<ul style="list-style-type: none"> ▪ Program Evaluation and Review Technique (PERT). ▪ Critical Path Method (CPM) ▪ Scheduling with Resource Constraints. 	8 th	2

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7.	Cost Estimating and Budgeting	<ul style="list-style-type: none"> ▪ Cost Estimating ▪ Cost Escalation ▪ Cost Estimating and the Systems Development Cycle ▪ Cost Estimating Process. ▪ Elements of Budgets and Estimates. ▪ Budgeting Using Cost Accounts ▪ Cost Schedules and Forecasts 	9 th ,10 th	4
8.	Managing Risks in Projects	<ul style="list-style-type: none"> ▪ Risk Concepts. ▪ Risk Identification ▪ Risk Assessment ▪ Risk Response Planning. ▪ Project Management Risk Management 	11 th ,12 th	4
9.	Project Control	<ul style="list-style-type: none"> ▪ The Control Process ▪ Information Monitoring ▪ Internal and External Project Control ▪ Cost Accounting Systems for Project Control ▪ Project Control Process ▪ Performance Analysis ▪ Forecasting “To Complete” and “At Completion” 	13 th	2
10.	Project Evaluation, Reporting, and Termination	<ul style="list-style-type: none"> ▪ Project Evaluation ▪ Project Review Meetings ▪ Reporting ▪ Terminating the Project. ▪ Termination Responsibilities ▪ Closing the Contract ▪ Project Extensions 	14 th	2
11.	Final Project	<ul style="list-style-type: none"> ▪ Discussion of project 	15 th	2

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12.	Final Exam		16 th	2
Number of Weeks /and Units Per Semester			16	32

VI. Teaching strategies of the course:				
<ul style="list-style-type: none"> ▪ Class Lectures. ▪ Project ▪ Presentation. ▪ Interactive Class Discussion 				

VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1.	<ul style="list-style-type: none"> ▪ Areas of Applications of Project Management ▪ Common Approach of Project 	b1 , a2	3 rd	1.5
2.	<ul style="list-style-type: none"> ▪ Program Evaluation and Review Technique (PERT). 	a2,b1	7 th	1.5
3.	<ul style="list-style-type: none"> ▪ Termination Responsibilities ▪ Closing the Contract ▪ Project Extensions 	c1,d1,d2	12 th	2
Total				5

VIII. Schedule of Assessment Tasks for Students During the Semester:				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1.	Assignments	2 nd ,7 th ,12 th	5	5%
2.	Quiz 1	3 rd	5	5%

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3.	Quiz 2	5 th	5	5%
4.	Midterm exam	7 th	10	10%
5.	Project presentation	15 th	25	25%
6.	Final Exam	16 th	50	50%
Total			100	100%

IX. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

1. John M. Nicholas, 2004, “Project Management for Business and Engineering, Principals and Practice”, 2nd Edition, Elsevier Inc. Or latest edition.
2. R. Dan Reid and Nada R. Sanders, 2005, “Operations Management An Integrated 4th edition

2- Essential References.

1. Oosthuizen and Venter, 2011, “Project Management in Perspective”, Oxford University Press Southern Africa (Pty) Ltd.

3- Electronic Materials and Web Sites etc.

None.

X. Course Policies:

1.	Class Attendance: A student should attend not less than 75 % of total hours of the subject; otherwise he will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring an approved statement from university Clinic
2.	Tardy: For late in attending the class, the student will be initially notified. If he repeated lateness in attending class he will be considered as absent.
3.	Exam Attendance/Punctuality:

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	A student should attend the exam on time. He is Permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam-
4.	Assignments & Projects: The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time-
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