



## 45. Course Specification of Engineering Project

### Managements

<b>A. Course Identification and General Information:</b>					
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				

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

<b>III. Course Intended learning outcomes (CILOs) of the course</b>	<b>Referenced PILOs</b>
<b>a1</b> Define the definition of project	A3
<b>a2</b> Define the Electrical engineering professional Ethics.	A4
<b>b1</b> analyze the project critical path	B2

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<b>b2</b>	Consider environmental dimensions associated with projects.	B4
<b>c1</b>	Apply the acquired electrical engineering knowledge to evaluate the system technical performance.	C1
<b>c2</b>	Use engineering techniques to enhance the project technical performance.	C4
<b>d1</b>	Work as a team in developing a mini project.	D1
<b>d2</b>	Present a project using MS power point.	D4

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

<b>(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:</b>		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>b1.</b> analyze the project critical path	<ul style="list-style-type: none"> <li>▪ Class Lectures.</li> <li>▪ Interactive Class Discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quiz</li> <li>▪ Mid-term</li> <li>▪ Final exam</li> </ul>
<b>b2.</b> Consider environmental dimensions associated with projects.	<ul style="list-style-type: none"> <li>▪ Class Lectures.</li> <li>▪ Interactive Class Discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quiz</li> <li>▪ Mid-term</li> <li>▪ Final exam</li> </ul>

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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"> <li>▪ Class Lectures.</li> <li>▪ Interactive Class Discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quiz</li> <li>▪ Mid-term</li> <li>▪ Final exam</li> </ul>
c2. Use engineering techniques to enhance the project technical performance.	<ul style="list-style-type: none"> <li>▪ Class Lectures.</li> <li>▪ Interactive Class Discussion</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quiz</li> <li>▪ Mid-term</li> <li>▪ Final exam</li> </ul>

(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"> <li>▪ Student projects</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentation</li> </ul>
d2. Present a project using MS power point.	<ul style="list-style-type: none"> <li>▪ Student projects</li> </ul>	<ul style="list-style-type: none"> <li>▪ Presentation</li> </ul>

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"> <li>▪ Definition</li> <li>▪ The need for Project Management</li> <li>▪ Response to a Changing Environment</li> <li>▪ Project Goals</li> </ul>	1	2
2.	Main Project Management Concepts	b1 , a2	<ul style="list-style-type: none"> <li>▪ Functions of Management. Project Viewpoint versus Traditional Management.</li> <li>▪ Evolution of Project Management.</li> </ul>	2	4

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			<ul style="list-style-type: none"> <li>▪ Areas of Applications of Project Management</li> <li>▪ Common Approach of Project Management</li> <li>▪ Different Forms of Project Management</li> <li>▪ Project Environments</li> <li>▪ Project Management in various sectors</li> <li>▪ Project and Program</li> </ul>		
3.	Projects Planning	b1 and,b2	<ul style="list-style-type: none"> <li>▪ Planning Steps</li> <li>▪ Project Master Plan</li> <li>▪ Scope and Work Definition</li> <li>▪ Project Organization Structure and Responsibilities.</li> <li>▪ Project Management System. Scheduling.</li> <li>▪ Planning and Scheduling Charts</li> </ul>	2	4
4.	Network Scheduling, PERT, CPM and Resource Allocation.	a2 and b1	<ul style="list-style-type: none"> <li>▪ Logic Diagrams and Networks.</li> <li>▪ Calendar Scheduling and Time-Based Networks</li> <li>▪ Management Schedule Reserve</li> </ul>	1	2
5.	Network Scheduling, PERT, CPM and Resource Allocation.	a2 and b1	<ul style="list-style-type: none"> <li>▪ Program Evaluation and Review Technique (PERT).</li> <li>▪ Critical Path Method (CPM)</li> <li>▪ Scheduling with Resource Constraints.</li> </ul>	1	2
6.	Cost Estimating and Budgeting	b2	<ul style="list-style-type: none"> <li>▪ Cost Estimating</li> <li>▪ Cost Escalation</li> <li>▪ Cost Estimating and the Systems Development Cycle</li> <li>▪ Cost Estimating Process.</li> <li>▪ Elements of Budgets and Estimates.</li> <li>▪ Budgeting Using Cost Accounts</li> </ul>	2	4

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			<ul style="list-style-type: none"> <li>Cost Schedules and Forecasts</li> </ul>		
7.	Managing Risks in Projects	b1 and c1	<ul style="list-style-type: none"> <li>Risk Concepts.</li> <li>Risk Identification</li> <li>Risk Assessment</li> <li>Risk Response Planning.</li> <li>Project Management Risk Management</li> </ul>	2	4
8.	Project Control	c1 and c2	<ul style="list-style-type: none"> <li>The Control Process</li> <li>Information Monitoring</li> <li>Internal and External Project Control</li> <li>Cost Accounting Systems for Project Control</li> <li>Project Control Process</li> <li>Performance Analysis</li> <li>Forecasting "To Complete" and "At Completion"</li> </ul>	1	2
9.	Project Evaluation, Reporting, and Termination	c1, d1 , d2	<ul style="list-style-type: none"> <li>Project Evaluation</li> <li>Project Review Meetings</li> <li>Reporting</li> <li>Terminating the Project.</li> <li>Termination Responsibilities</li> <li>Closing the Contract</li> <li>Project Extensions</li> </ul>	1	2
<b>Number of Weeks /and Units Per Semester</b>				<b>14</b>	<b>28</b>

### V. Teaching strategies of the course:

- Class Lectures.
- Project
- Presentation.
- Interactive Class Discussion

### VI. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1.	<ul style="list-style-type: none"> <li>Areas of Applications of Project Management</li> <li>Common Approach of Project</li> </ul>	b1 , a2	3 <sup>rd</sup>	1.5

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2.	<ul style="list-style-type: none"> <li>Program Evaluation and Review Technique (PERT).</li> </ul>	a2,b1	7 <sup>th</sup>	1.5
3.	<ul style="list-style-type: none"> <li>Termination Responsibilities</li> <li>Closing the Contract</li> <li>Project Extensions</li> </ul>	c1,d1,d2	12 <sup>th</sup>	2
<b>Total</b>				<b>5</b>

<b>VII. Schedule of Assessment Tasks for Students During the Semester:</b>					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1.	Assignments	2 <sup>nd</sup> , 7 <sup>th</sup> , 12 <sup>th</sup>	5	5%	a2, b1,c1,d1,d2
2.	Quiz 1	3 <sup>rd</sup>	5	5%	a1,a2,b1,b2
3.	Quiz 2	5 <sup>th</sup>	5	5%	a1,a2,b1,b2
4.	Midterm exam	7 <sup>th</sup>	10	10%	a1,a2,b1,b2
5.	Project presentation	15 <sup>th</sup>	25	25%	c1,c2,d1,d2
6.	Final Exam	16 <sup>th</sup>	50	50%	a1,a2,b1,b2
<b>Total</b>			<b>100</b>	<b>100%</b>	

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

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<b>IX. Course Policies:</b>	
<b>1.</b>	<p><b>Class Attendance:</b>                      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 <b>an approved</b> statement from university Clinic</p>
<b>2.</b>	<p><b>Tardy:</b>                      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.</p>
<b>3.</b>	<p><b>Exam Attendance/Punctuality:</b>                      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-</p>
<b>4.</b>	<p><b>Assignments &amp; Projects:</b>                      The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time-</p>
<b>5.</b>	<p><b>Cheating:</b>                      For cheating in exam, a student will be considered as <b>failure</b>. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty-</p>
<b>6.</b>	<p><b>Plagiarism:</b>                      Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee <b>proved</b> 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.</p>
<b>7.</b>	<p><b>Other policies:</b>                      - 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</p>

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

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Asst. Prof. Dr. Munasar Alsubri

## 45. Template for Course Plan of Engineering Project

### Managements

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

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

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**III. Course Description:**  
 This course introduces the **students** to the main principals of the project management. **They** will be exposed to the definitions of the project, project cycle, project planning, monitoring, risk assessments, budgeting, and end project evolution and reporting. **This course** 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"> <li>▪ Definition</li> <li>▪ The need for Project Management</li> <li>▪ Response to a Changing Environment</li> <li>▪ Project Goals</li> </ul>	1 <sup>st</sup>	2
2.	Main Project Management Concepts	<ul style="list-style-type: none"> <li>▪ Functions of Management. Project Viewpoint versus Traditional Management.</li> <li>▪ Evolution of Project Management.</li> <li>▪ Areas of Applications of Project Management</li> </ul>	2 <sup>nd</sup> ,3 <sup>rd</sup>	4

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		<ul style="list-style-type: none"> <li>▪ Common Approach of Project Management</li> <li>▪ Different Forms of Project Management</li> <li>▪ Project Environments</li> <li>▪ Project Management in various sectors</li> <li>▪ Project and Program</li> </ul>		
3.	Projects Planning	<ul style="list-style-type: none"> <li>▪ Planning Steps</li> <li>▪ Project Master Plan</li> <li>▪ Scope and Work Definition</li> <li>▪ Project Organization Structure and Responsibilities.</li> <li>▪ Project Management System. Scheduling.</li> <li>▪ Planning and Scheduling Charts</li> </ul>	4 <sup>th</sup> ,5 <sup>th</sup>	4
4.	Network Scheduling, PERT, CPM and Resource Allocation.	<ul style="list-style-type: none"> <li>▪ Logic Diagrams and Networks.</li> <li>▪ Calendar Scheduling and Time-Based Networks</li> <li>▪ Management Schedule Reserve</li> </ul>	6 <sup>th</sup>	2
5.	Midterm Exam		7 <sup>th</sup>	2
6.	Network Scheduling, PERT, CPM and Resource Allocation.	<ul style="list-style-type: none"> <li>▪ Program Evaluation and Review Technique (PERT).</li> <li>▪ Critical Path Method (CPM)</li> <li>▪ Scheduling with Resource Constraints.</li> </ul>	8 <sup>th</sup>	2
7.	Cost Estimating and Budgeting	<ul style="list-style-type: none"> <li>▪ Cost Estimating</li> <li>▪ Cost Escalation</li> <li>▪ Cost Estimating and the Systems Development Cycle</li> <li>▪ Cost Estimating Process.</li> <li>▪ Elements of Budgets and Estimates.</li> <li>▪ Budgeting Using Cost Accounts</li> <li>▪ Cost Schedules and Forecasts</li> </ul>	9 <sup>th</sup> ,10 <sup>th</sup>	4

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8.	Managing Risks in Projects	<ul style="list-style-type: none"> <li>▪ Risk Concepts.</li> <li>▪ Risk Identification</li> <li>▪ Risk Assessment</li> <li>▪ Risk Response Planning.</li> <li>▪ Project Management Risk Management</li> </ul>	11 <sup>th</sup> ,12 <sup>th</sup>	4
9.	Project Control	<ul style="list-style-type: none"> <li>▪ The Control Process</li> <li>▪ Information Monitoring</li> <li>▪ Internal and External Project Control</li> <li>▪ Cost Accounting Systems for Project Control</li> <li>▪ Project Control Process</li> <li>▪ Performance Analysis</li> <li>▪ Forecasting “To Complete” and “At Completion”</li> </ul>	13 <sup>th</sup>	2
10.	Project Evaluation, Reporting, and Termination	<ul style="list-style-type: none"> <li>▪ Project Evaluation</li> <li>▪ Project Review Meetings</li> <li>▪ Reporting</li> <li>▪ Terminating the Project.</li> <li>▪ Termination Responsibilities</li> <li>▪ Closing the Contract</li> <li>▪ Project Extensions</li> </ul>	14 <sup>th</sup>	2
11.	Final Project	<ul style="list-style-type: none"> <li>▪ Discussion of project</li> </ul>	15 <sup>th</sup>	2
12.	Final Exam		16 <sup>th</sup>	2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>

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

<b>VII. Assignments:</b>				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark

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1.	<ul style="list-style-type: none"> <li>▪ Areas of Applications of Project Management</li> <li>▪ Common Approach of Project</li> </ul>	b1 , a2	3 <sup>rd</sup>	1.5
2.	<ul style="list-style-type: none"> <li>▪ Program Evaluation and Review Technique (PERT).</li> </ul>	a2,b1	7 <sup>th</sup>	1.5
3.	<ul style="list-style-type: none"> <li>▪ Termination Responsibilities</li> <li>▪ Closing the Contract</li> <li>▪ Project Extensions</li> </ul>	c1,d1,d2	12 <sup>th</sup>	2
<b>Total</b>				<b>5</b>

<b>VIII. Schedule of Assessment Tasks for Students During the Semester:</b>				
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1.	Assignments	2 <sup>nd</sup> ,7 <sup>th</sup> ,12 <sup>th</sup>	5	5%
2.	Quiz 1	3 <sup>rd</sup>	5	5%
3.	Quiz 2	5 <sup>th</sup>	5	5%
4.	Midterm exam	7 <sup>th</sup>	10	10%
5.	Project presentation	15 <sup>th</sup>	25	25%
6.	Final Exam	16 <sup>th</sup>	50	50%
<b>Total</b>			<b>100</b>	<b>100%</b>

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

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	None.
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<b>X. Course Policies:</b>	
<b>1.</b>	<p><b>Class Attendance:</b>                      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 <b>an approved</b> statement from university Clinic</p>
<b>2.</b>	<p><b>Tardy:</b>                      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.</p>
<b>3.</b>	<p><b>Exam Attendance/Punctuality:</b>                      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-</p>
<b>4.</b>	<p><b>Assignments &amp; Projects:</b>                      The assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time-</p>
<b>5.</b>	<p><b>Cheating:</b>                      For cheating in exam, a student will be considered as <b>failure</b>. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty-</p>
<b>6.</b>	<p><b>Plagiarism:</b>                      Plagiarism is the attending of a student the exam of a course instead of another student. If the examination committee <b>proved</b> 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.</p>
<b>7.</b>	<p><b>Other policies:</b>                      - 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</p>

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 Adel Ahmed Al-  
 Shakiri

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 Unit  
 Assoc. Prof. Dr.  
 Mohammad Algorafi

Dean of the Faculty  
 Prof. Dr. Mohammed  
 AL-Bukhaiti

Academic  
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 Center & Quality  
 Assurance  
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Rector of Sana'a University  
 Prof. Dr. Al-Qassim Mohammed  
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## **46. Course Specification of Entrepreneurship & Communication Skills**

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Title of the Program: Electrical Power and Machines Engineering



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