

## **PROGRAMME REPORT** **(Doctor of Philosophy)**

*Programme Title:*

**Doctor of philosophy in Electrical Engineering  
(Electrical Power and Machines Engineering)**

*Programme Code:*

**ELEPh-PM**

*Department Offering the  
Programme:*

**Electrical Engineering**

### **A- BASIC INFORMATION:**

No.	Item	Specification		
1	Programme Type	Single	Double	Multiple
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2	Department(s)	Electrical Engineering		
3	Coordinator	Prof. Dr. Abdel-Mohsen Kinawy		
4	External Evaluator(s)	Prof. Dr. Metwaly Awad Hasan El-Sharkawy		
5	Year of Operation	2013-2014		

### **B- STATISTICS**

#### **B.1. First Semester**

1	Number of students starting the first level.				4	
2	Number of students starting the second level				4	
3	Number of students starting the third level				-	
3	Number and percentage of students passing in each level			First Level (Comprehensive Exam)	No.	4
					%	100
				Second Level (Courses)	No.	2
					%	50
				Third Level (Thesis)	No.	-
%	-					
4	Number of students completing the programme and as a percentage of those who started				No.	-
					%	100
5	Grading	First Level	≥ 3 points	No.	4	
				%	100	

			$\geq 2$ points $< 3$ points	No.	-
				%	-
			Failed	No.	-
				%	-
		Second Level	$\geq 3$ points	No.	2
				%	50
			$\geq 2$ points $< 3$ points	No.	2
				%	50
			Failed	No.	-
				%	-
6	Percentages of the grading cohort who have	Third Level	Search completed and has been discussed successfully	%	-
			Search is not completed or discussed		
			Appropriate employment		-
			Other employment		-
			Undertaken more postgraduate study		50%
			Engaged in other types of activity		-
			Unknown destination		-

## B.2. Second Semester

1	Number of students starting the first level.				--	
2	Number of students starting the second level				3	
3	Number of students starting the third level				-	
3	Number and percentage of students passing in each level			First Level (Comprehensive Exam)	No.	--
					%	--
				Second Level (Courses)	No.	3
					%	100
				Third Level (Thesis)	No.	-
					%	-
4	Number of students completing the programme and as a percentage of those who started				No.	-
					%	-
5	Grading	First Level	≥ 3 points	No.		
				%		
			≥ 2 points < 3 points	No.		
				%		
			Failed	No.	-	
				%	-	
		Second Level	≥ 3 points	No.	3	
				%	100	
			≥ 2 points < 3 points	No.	-	
				%	-	
			Failed	No.	-	
Third Level	Search completed and has been discussed successfully	%	-			
	Search is not completed or discussed		-			

6	Percentages of the grading cohort who have	Appropriate employment	-
		Other employment	-
		Undertaken more postgraduate study	--
		Engaged in other types of activity	-
		Unknown destination	-

### B.3. Summer Semester

1	Number of students starting the first level.				-	
2	Number of students starting the second level				-	
3	Number of students starting the third level				-	
3	Number and percentage of students passing in each level			First Level (Comprehensive Exam)	No.	-
					%	-
				Second Level (Courses)	No.	-
					%	-
				Third Level (Thesis)	No.	-
					%	-
4	Number of students completing the programme and as a percentage of those who started				No.	-
					%	-
5	Grading	First Level	≥ 3 points	No.	-	
				%	-	
			≥ 2 points < 3 points	No.	-	
				%	-	
			Failed	No.	-	
				%	-	
		Second Level	≥ 3 points	No.	-	
				%	-	
			≥ 2 points < 3 points	No.	-	
				%	-	
			Failed	No.	-	
Third Level	Search completed and has been discussed successfully	%	-			
	Search is not completed or discussed		-			
6	Percentages of the grading cohort who have		Appropriate employment			-
			Other employment			-
			Undertaken more postgraduate study			-
			Engaged in other types of activity			-
			Unknown destination			-

## **C. ACADEMIC STANDARDS**

### **C.1. Achievement of Programme Intended Learning Outcomes**

<b>Code</b>	<b>Course</b>	<b>Programme ILOs (by No.)</b>			
		<b>K*</b>	<b>I**</b>	<b>P***</b>	<b>T****</b>
<b>ELE701</b>	<b>Protection of Electrical Power Systems</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE702</b>	<b>High Voltage Engineering</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE703</b>	<b>Electrical Machines</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE704</b>	<b>Electrical Power Systems</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE705</b>	<b>Control of Electrical Power Systems</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE706</b>	<b>Control of Electrical Machines</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp; B9</b>	<b>C2 &amp; C3</b>	<b>D3, D4, D5 &amp;D6</b>
<b>ELE707</b>	<b>Signal Processing Techniques in Power System Protection</b>	<b>A1</b>	<b>B3 &amp; B8</b>	<b>C3</b>	<b>D4 &amp; D5</b>
<b>ELE708</b>	<b>New Trends in Power System Protection Engineering</b>	<b>A1</b>	<b>B6 &amp; B9</b>	<b>C1 &amp; C4</b>	<b>D4 &amp; D5</b>
<b>ELE709</b>	<b>Optical Fiber Based Monitoring of High Voltage Power Equipment</b>	<b>A1, A2 &amp; A4</b>	<b>B1&amp;B9</b>	<b>C2&amp;C3</b>	<b>D3,D4, D5 &amp;D6</b>
<b>ELE710</b>	<b>Conditional Monitoring of High Voltage Equipment</b>	<b>A1</b>	<b>B5 &amp; B7</b>	<b>C3 &amp; C4</b>	<b>D3, D4, D5 &amp; D6</b>
<b>ELE712</b>	<b>Optimal Operation of Electrical Power System</b>	<b>A1&amp; A5</b>	<b>B2, B3&amp;B7</b>	<b>C1, C3&amp; C4</b>	<b>D3&amp; D5</b>
<b>ELE713</b>	<b>Applications of Modern Optimization Techniques in Electrical Power Systems</b>				

<b>ELE714</b>	<b>Optimal Planning of Electrical Power Systems</b>	<b>A1,A2</b>	<b>B2&amp;B6</b>	<b>C3&amp;C4</b>	<b>D1&amp;D4</b>
<b>ELE715</b>	<b>Power quality in Electrical power systems</b>	<b>A1,A2&amp;A4</b>	<b>B1,B2&amp;B3</b>	<b>C1,C2&amp;C3</b>	<b>D4&amp;D5</b>
<b>ELE718</b>	<b>Special Electrical Machines</b>	<b>A1</b>	<b>B8</b>	<b>C3</b>	<b>D2</b>
<b>Commentary</b> (quoting evaluations from external evaluator and other stakeholders)					

- \*        **Knowledge and Understanding**
- \*\*      **Intellectual Skills**
- \*\*\*     **Professional and Practical Skills**
- \*\*\*\*    **General and Transferable Skills**

## **C.2. Achievement of Programme Aims**

<b>Commentary</b> (quoting evaluations from external evaluator and other stakeholders)	<b>Achieved</b>
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## **C.3. Assessment Methods**

<b>Commentary</b> (quoting evaluations from external evaluator and other stakeholders)	<b>First Level</b>	Written and Oral Exam
	<b>Second Level</b>	Written exam is the only way to assess the students. The periodic assessments, discussions and reports during the semester help students to successfully pass the final exam
	<b>Third Level</b>	Student defends his thesis publicly

## **C.4. Student Achievement**

<b>Commentary</b> (quoting statistics from section B and evaluations from external evaluator and other stakeholders)	<b>Achieved</b>
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## **C.5. Quality of Teaching and Learning**

<b>Commentary</b> (quoting evaluations by stakeholders including students)	<b>Available</b>
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### C.6. Effectiveness of Students Support System

Commentary on	Academic pastoral	Satisfied
	Personal support	Satisfied

### C.7. Learning Resources

Adequacy		Totally adequate	Adequate to some extent	Inadequate
1	Faculty members and their assistants to students	✓		
2	Faculty members specialization to programme needs.	✓		
3	Availability programme handbook	✓		
4	Library	✓		
5	IT facility		✓	

### C.8. Quality Management

Adequacy			Totally adequate	Adequate to some extent	Inadequate
1	Availability of Regular Evaluation and Revision System for the Programme		✓		
2	Effectiveness of the System		✓		
3	Effectiveness of Faculty and University Laws and Regulations for Progression and Completion		✓		
4	Effectiveness of Programme External Evaluation System	External Evaluator	✓		
		Students	✓		
		Other Stakeholders	✓		
5	Faculty Response to Student and External Evaluations		✓		

### C.9. Proposals for Programme Development

1	Programme Structure (units/credit-hours)	-
2	Courses (deletions, additions and modifications)	✓
3	Staff development requirements	✓

**C.10. Progress of Previous Year's Action Plan**

Action identified	<b>Make a work shop for upgrading the contents of post courses</b>
Person responsible	<b>Members of Electrical Engineering Dept.</b>
Progress of action state if completed and any reason for non-completion	<b>Non completion Just now-</b>

**C.11. Action Plan**

Action Required	<b>Add Extra References and Web. Sites-</b>
Person responsible	<b>Members of Electrical Engineering Dept.</b>
Completion date	<b>June 2015</b>

**Head of Electrical Engineering Department**

**Prof.Dr.G.A.Morsy**