جامعة قطر
QATAR UNIVERSITY
كلية الهندسة
COLLEGE OF ENGINEERING

DOCTOR OF PHILOSOPHY IN ELECTRICAL ENGINEERING

Curriculum Structure

The PhD Program (Total 60 Cr Hrs)

Curriculum Components	Total Courses	Total Cr Hrs
Core Courses	1	3
Elective Courses in Major	3	9
Thesis	1	48
Total	**5**	**60**

Core courses

Core courses	
Course ID	**Course Title**
DENG 702	Applied Research Methodology

Concentration Courses

Elective courses	
Course ID	**Course Title**
ELEC 708	Advanced Optimization Methods
ELEC 751	Advanced Special Topics I
ELEC 752	Advanced Special Topics II
ELEC 758	Multimedia Processing
ELEC 763	Electric Power Generation by Renewable Sources
ELEC 764	Modern-Radio Frequency Communication Systems
ELEC 767	Machine Learning
ELEC 768	Non-Linear Control Systems
ELEC 769	Detection and Estimation Theory

Study Plan

First Semester (6 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Fall	DENG 702	Applied Research Methodology	3
	ELEC XXX	Elective Course I	3
		Total	**6**
Second Semester (6 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Spring	ELEC XXX	Elective Course II	3
	ELEC XXX	Elective Course III	3
		Total	**6**

Third Semester (12 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Fall	ELEC 899	PhD Thesis	12
		Candidacy Exam	
		Total	**12**
Fourth Semester (12 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Spring	ELEC 899	PhD Thesis	12
		Total	**12**

Fifth Semester (12 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Fall	ELEC 899	PhD Thesis	12
		Total	**12**
Sixth Semester (12 Cr Hrs)			
Term	**Course #**	**Course Title**	**Cr Hrs**
Spring	ELEC 899	PhD Thesis	12
		Oral Defense	
		Total	**12**