

# **DOCTOR OF PHILOSOPHY IN MECHANICAL 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	k
Course ID	Course Title
DENG 702	Applied Research Methodology

### **Concentration Courses**

Elective courses			
Course ID	Course Title		
MECH 720	Finite Element Analysis		
MECH 701	Advanced Thermodynamics		
MECH 702	Solar Energy Utilization		
MECH 741	Advanced Special Topics I		
MECH 742	Advanced Special Topics II		

# **Study Plan**

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

Third Semester (12 Cr Hrs)				
Term	Course #	Course Title		Cr Hrs
Fall	MECH 899	PhD Thesis		12
	4	Candidacy Exam		
			Total	12
Fourth S	emester (12 C	r Hrs)		
Fourth S	emester (12 C Course #			Cr Hrs
	Course #			Cr Hrs

Fifth Semester (12 Cr Hrs)				
Term	Course #	Course Title		Cr Hrs
Fall	MECH 899	PhD Thesis		12
			Total	12
Sixth Ser	nester (12 Cr	Hrs)		
Sixth Ser Term		Hrs) Course Title		Cr Hrs
		Course Title		Cr Hrs
Term	Course #	Course Title		



