

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	
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 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
		Candidacy Exam	
Total			12
Fourth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	MECH 899	PhD Thesis	12
Total			12
Fifth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Fall	MECH 899	PhD Thesis	12
Total			12
Sixth Semester (12 Cr Hrs)			
Term	Course #	Course Title	Cr Hrs
Spring	MECH 899	PhD Thesis	12
		Oral Defense	
Total			12

