

Department of Mechanical & Nuclear Engineering

Nuclear Engineering Program

Semester-by-semester Study Plan from Fall 2016 to Spring 2019

Freshman Year					
First Semester			Second Semester		
1420101	General Chemistry (1)	3	1411116	Programming I	4
1420102	General Chemistry (1) Lab	1	1430117	Physics 2	3
1430115	Physics 1	3	1430118	Physics 2 Lab	1
1430116	Physics 1 Lab	1	1440161	Calculus II for Engineering	3
1440133	Calculus I for Engineering	3	0406100	Intro. to Energy Sci. & Tech.	3
0202102	Arabic Language	3	0406101	Statics & Dynamics	3
0202112	English for Academic Purposes	3			
	Total Credit Hours	17		Total Credit Hours	17
Sophomore Year					
Third Semester			Fourth Semester		
1440261	Differential Equations for Eng.	3	0402255	Applied Electronics for SREE	3
0402202	Circuit Analysis I	3	0402256	Applied Electronics Lab for SREE	1
0402241	Random Signal Theory	3	0406201	Fluid Mechanics	3
0406200	Thermodynamics	3	0406202	Fluid Mechanics Lab	1
0407200	Intro. to Nuclear Eng. & Rad. Science	3	0407202	Fund. of Nuclear Eng. & Rad. Science	3
0104100	Islamic Culture	3	0407204	Nuclear Instrumentation & Measurement	3
			0407304	Analytical Method for Nuclear Engineers	3
	Total Credit Hours	18		Total Credit Hours	17
Junior Year					
Fifth Semester			Sixth Semester		
0402340	Eng. Comp. & Linear Algebra	3	0202110	Speech Communication	3
0402348	Signals & Control System	3	0407302	Reactor Thermal Hydraulics	3
0406300	Heat Transfer	3	0407305	Nuclear Engineering Materials	3
0406301	Heat Transfer Lab	1	0407307	Nuclear Sci. Eng. Lab II	1
0407300	Elements of Nuc. Eng. & Rad. Sci.	3	0407308	Nuclear Reactor Theory	3
0407306	Nuclear Sci. Eng. Lab I	1	xxxxxxx	University Elective I	3
0302200	Fund. of Innovation & Entrepreneur	3			
	Total Credit Hours	17		Total Credit Hours	16
Summer Semester					
0407490	Practical Training (240 working hours in 6 - 8 weeks)	0			
Senior Year					
Seventh Semester			Eighth Semester		
0202207	Technical Writing	3	0401301	Engineering Economics	3
0407401	Nuclear Power Reactors	3	0407xxx	Technical Elective (2)	3
0407402	Reactor Safety Analysis	3	0407492	Senior Design Project II	3
0407403	Advanced Nuclear Lab	1	xxxxxxx	University Elective II	3
0407xxx	Technical Elective (1)	3	xxxxxxx	University Elective III	3
0407491	Senior Design Project I	1			
	Total Credit Hours	14		Total Credit Hours	15
TOTAL CREDIT HOURS = 131					

