Study Plan for Mechanical Power Engineering Fall 2024-2025 Power campus

Mechanical Engineering (Power) - Second Year – Semester 3

Course code	Course title	Credit hours	Pre-requisites
UGE 01	English (1)	2 (2-0-0)	<u> </u>
EBS 201	Engineering Mathematics (3)	3 (2-2-1)	EBS 102
EME 111	Mechanical Drawing	2 (1-0-2)	EBS 141
EME 112	Mechanics of Materials	3 (2-1-2)	EBS 111
EME 231	Thermodynamics (1)	3 (2-2-1)	EBS 121
EME 182	Engineering Materials	3 (2-2-1)	EME 081
	Total semester credit hours	16	

Mechanical Engineering (Power) - Third Year – Semester 5

Course code	Course title	Credit hours	Pre-requisites
EB 207	Numerical Analysis using MATLAB	4(3-1-2)	EB 102
EM 213	Mechanical Design (1)	3(2-2-1)	EM 211
EM 214	Mechanical Vibrations	3 (2-1-1)	EM 212
EM 230	Thermodynamics (1)	3 (2-2-0)	EB 121
EM 272	Manufacturing Processes (2)	3 (2-1-1)	EM 170
EM 261	Eng. Economy & Cost Analysis	2(2-1-0)	None
	Total semester credit hours	18	

Mechanical Engineering (Power) - Fourth Year – Semester 7

Course code	Course title	Credit hours	Pre-requisites
EM 220	Mechanical Measurement and Sensors	3 (2-2-1)	EB 122
EM 232	Thermodynamics (2)	3 (2-2-1)	EM 230
EM 234	Heat exchangers	3 (2-1-1)	EM 231
EE 369!!	Electrical Power for Mech. Engineers	4 (3-2-1)	EE 208!!
EM 233	Heat transfer (2)	3 (2-1-1)	EM 231
UGE 03	English (3)	2 (2-0-2)	UGE 02
	Total semester credit hours	18	

Mechanical Engineering (Power) - Fifth Year – Semester 9

Course code	Course title	Credit hours	Pre-requisites
EM 353	Fluid Power systems	3 (2-2-0)	EM 252
EM 343	Air Conditioning Systems	3 (2-2-0)	EM 240
EM 331	Thermal Power Plants Equipment	3 (2-1-1)	ME 230
EM 254	Compressible Flow	2 (2-1-0)	EM 251
EM 400-1	Graduation Project (1)	0 credit	Department Approval
HU 132	Accounting and Costs for Engineers	2(2-1-0)	None
UGA 03	Arabic language	2(2-0-0)	None
Total semester credit hours		19 Billing 15 Regis	credits