



College of Engineering  
Department Mechanical Engineering  
**Master in Mechanical Engineering**

Course No.	Course Title	CH
MEG500	COMPUTATIONAL METHODS IN MECHANICAL ENGINEERING	3
MEG501	RELIABILITY AND MAINTAINABILITY IN MECHANICAL SYSTEMS	3
MEG502	ENGINEERING FOR SUSTAINABLE ENVIRONMENT	3
MEG599	THESIS	9
<b>Energy Resources Electives (Elective(Special)) 12 CH</b>		
MEG510	THERMAL ENERGY STORAGE	3
MEG511	RENEWABLE ENERGY SOURCES	3
MEG512	ENERGY MANAGEMENT	3
MEG513	COMPUTATIONAL FLUID DYNAMICS	3
MEG514	HEAT AND MASS TRANSFER	3
MEG520	SELECTED TOPICS	3
MEG544	CONTINUUM MECHANICS	3
MEG553	TECHNICAL MAINTENANCE OF MECHANICAL EQUIPMENT	3
MEG554	MECHANICAL BEHAVIOR OF MATERIALS	3
<b>Technical Elective Courses (Elective) 3 CH</b>		
CHE5xx	Technical Elective (From any Department in College of Engine	3

CHEG5xx	Technical Elective (From any Department in College of Engine	3
CHENG5xx	Technical Elective (From any Department in College of Engine	3
EE5xx	Technical Elective (From any Department in College of Engine	3
EEG5xx	Technical Elective (From any Department in College of Engine	3
EENG5xx	Technical Elective (From any Department in College of Engine	3
IEN5xx	Technical Elective (From any Department in College of Engine	3
ME5xx	Technical Elective (From any Department in College of Engine	3
MEG5xx	Technical Elective (From any Department in College of Engine	3
MENG5xx	Technical Elective (From any Department in College of Engine	3
PICENG5xx	Technical Elective (From any Department in College of Engine	3
TCHE5xx	Technical Elective (From any Department in College of Engine	3

### **Aluminum Production Electives (Elective) 12 CH**

<b>MEG512</b>	<b>ENERGY MANAGEMENT</b>	<b>3</b>
MEG514	HEAT AND MASS TRANSFER	3
MEG520	SELECTED TOPICS	3
MEG530	ALUMINUM SMELTER AND ADVANCES	3
MEG531	ALUMINUM SMELTING PROCESS ANALYSIS	3
MEG532	ALUMINUM ALLOYS AND PROPERTIES	3
MEG533	ALUMINUM PROCESSING	3
MEG553	TECHNICAL MAINTENANCE OF MECHANICAL EQUIPMENT	3
MEG554	MECHANICAL BEHAVIOR OF MATERIALS	3

### **Mechanical Engineering services Electives (Elective) 12 CH**

MEG512	ENERGY MANAGEMENT	3
MEG514	HEAT AND MASS TRANSFER	3

MEG520	SELECTED TOPICS	3
MEG544	CONTINUUM MECHANICS	3
MEG550	MECHANICAL SAFETY	3
MEG551	AIR CONDITIONING AND SYSTEMS	3
MEG552	MECHANICAL VENTILATION	3
MEG553	TECHNICAL MAINTENANCE OF MECHANICAL EQUIPMENT	3
MEG554	MECHANICAL BEHAVIOR OF MATERIALS	3
<b>Total Credits</b>		<b>33</b>