



PROPOSED STUDY PLAN FOR THE ELECTROMECHANICAL ENGINEERING PROGRAM

		Fall	Credit Hours	Lec	Tut	Lab	Tot		Spring	Credit Hours	Lec	Tut	Lab	Tot
First Year	MP101	Mathematics I	3	3	2	0	5	MP102	Mathematics II	4	3	2	1	6
	MP103	Mechanics I	2	2	2	0	4	MP104	Mechanics II	2	2	2	0	4
	MP105	Engineering Graphics	5	2	3	2	7	PE102	Production Engineering	3	3	1	2	6
	GPE101	General Chemistry	3	3	1	2	6	CSE102	Computer Programming	3	3	1	2	6
	MP107	Physics I	3	3	1	2	6	MP108	Physics II	3	3	1	2	6
	HS101	English language	2	2	0	0	2	HS102	Human Rights	2	2	0	0	2
			<b>18</b>	<b>15</b>	<b>9</b>	<b>6</b>	<b>30</b>			<b>17</b>	<b>16</b>	<b>7</b>	<b>7</b>	<b>30</b>
Second Year	MP201	Mathematics III	3	3	2	0	5	MSE202	Strength of Materials I	3	3	2	0	5
	EME201	Computer Aided Drafting (CAD)	3	2	0	3	5	EME204	Logic Circuits and Micro processors	3	3	1	1	5
	EME203	Thermodynamics I	3	3	2	0	5	EME206	Fluid Mechanics I	3	3	1	1	5
	EME205	Properties and Testing of Electro Mechanical Materials	3	3	1	1	5	MP202	Math IV	3	3	2	0	5
	EME207	Electric Circuits	3	3	1	1	5	EME208	Analysis and Simulation of Electric Circuits	3	3	1	1	5
	EME209	Electrical Measurements and Instrumentation	3	3	1	1	5	EME210	Electronic Devices and Circuits	3	3	1	1	5
	HS201	Technical Writing	2	2	0	0	2	HS202	Engineering Economics	2				
			<b>20</b>	<b>19</b>	<b>7</b>	<b>6</b>	<b>32</b>			<b>20</b>	<b>18</b>	<b>8</b>	<b>4</b>	<b>30</b>
Third Year	EME301	Fluid Mechanics II	3	3	1	1	5	EME302	Thermodynamics II	3	3	2	0	5
	EME303	Mechanics of Machinery	3	3	1	0	4	EME304	Mechanical Vibrations	3	3	1	0	4
	EME307	Heat Transfer	3	3	1	1	5	EME306	Industrial Electronics	3	3	1	1	5
	EME309	Electrical Power Systems	3	3	1	0	4	EME308	Electrical Machines	3	3	1	1	5
	EME311	Design of Mechanical Systems	3	3	1	0	4	EME310	Theory of Combustion	3	3	1	1	5
	HS301	Project Management	2	2	0	0	2	HS302x	Humanities	2	2	0	0	2
				<b>17</b>	<b>17</b>	<b>5</b>	<b>2</b>	<b>24</b>			<b>17</b>	<b>17</b>	<b>6</b>	<b>3</b>



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		Fall	Credit Hours	Lec	Tut	Lab	Tot		Spring	Credit Hours	Lec	Tut	Lab	Tot
Fourth Year	EME401	Thermal and Nuclear Power Plants	3	3	1	1	5	EME402	Internal Combustion Engines	3	3	1	1	5
	EME403	Fluid Machinery	3	3	1	1	5	EME404	Protection of Electromechanical Systems	3	3	1	0	4
	EME405	Automatic Control of Electromechanical Systems	3	3	1	1	5	EME406	Electromechanical Drives	3	3	1	1	5
	EME407	Measuring Systems and Data Acquisition	3	3	0	1	4	ELE	Elective II	3	3	1	1	5
	ELE	Elective 1	3	3	1	1	5	ELE	Elective III	3	3	1	1	5
	HS401	Law & Engineering Ethics	2	2	0	0	2	HS402x	Humanities	2	2	0	0	2
			<b>17</b>	<b>17</b>	<b>4</b>	<b>5</b>	<b>26</b>			<b>17</b>	<b>17</b>	<b>5</b>	<b>4</b>	<b>26</b>
Fifth Year	EME501	Safety of Electromechanical Systems	3	3	0	1	4	EME502	Computer Applications in Industry	3	3	0	1	4
	EME503	Solid State Drives	3	3	1	1	5	ELE	Elective V	3	3	1	1	5
	ELE	Elective IV	3	3	1	1	5	EME504	Refrigeration and Air Conditioning	3	3	1	1	5
	EME505	Fluid Power Systems	3	3	1	1	5	ELE	Elective VI	3	3	1	1	5
	HS501x	Humanities	2	2	0	0	2	HS502x	Humanities	2	2	0	0	2
	EME507	Project I	3	3	1	0	4	EME508	Project II	3	3	1	0	4
			<b>17</b>	<b>17</b>	<b>4</b>	<b>4</b>	<b>25</b>			<b>17</b>	<b>17</b>	<b>4</b>	<b>4</b>	<b>25</b>