

## Outlines for B.Sc. Civil Engineering

<b>First Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 102	Engineering Mechanics	6	4	100	50
CE- 104	Computer Programming	2	4	50	50
CE- 103	Construction Material	6	4	100	50
MA- 104	Mathematics-I	6	0	100	0
IS/HU	Islamic Studies (Compulsory for Muslim students) Ethics (for non-Muslim Students)	4	0	100	0
	<b>Total Marks</b>			450	150
				600	
<b>Second Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 105	Civil Engineering Drawing	2	6	50	100
CE- 101	Surveying-I	4	6	100	50
CE- 106	Engineering Geology	4	4	75	25
EE- 102	Applied Electricity	4	4	100	50
MA- 102	Mathematics-II	6	0	100	0
	<b>Total Marks</b>			450	225
				650	
<b>Third Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 203	Mechanics of Solids-I	6	4	100	50
CE- 204	Fluid Mechanics-I	6	4	100	50
CE- 201	Surveying-II	4	6	100	50
MA- 220	Mathematics-III	6	0	75	0
IS/HU	Pakistan Studies	4	0	100	0
	<b>Total Marks</b>			475	150
				625	
<b>Fourth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 202	Elementary Theory of Structures	6	4	100	25
CE- 207	Geotechnical Engineering-I	4	4	100	50
CE- 206	Civil Engineering Practice	4	4	100	25
CE- 205	Civil Engineering Construction & Graphics	4	6	50	100
MA- 230	Numerical Analysis	4	0	75	0
	<b>Total Marks</b>			425	200
				625	
<b>Fifth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 303	Structural Analysis	6	4	100	25
CE- 304	Engineering Hydrology	4	4	100	50
CE- 307	Steel Structures	4	6	100	50
CE- 306	Construction Planning & Management	4	4	100	25

CE- 308	Geotechnical Engineering-II	6	4	100	50
	<b>Total Marks</b>			500	200
				700	
<b>Sixth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 301	Mechanics of Solids-II	6	4	100	50
CE- 302	Fluid Mechanics-II	6	4	100	50
CE- 305	Plain & Reinforced Concrete-I	4	6	100	50
CE- 309	Environmental Engineering-I	4	4	100	0
	<b>Total Marks</b>			400	150
				550	
<b>Seventh Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 404	Plain & Reinforced Concrete-II	4	4	75	50
CE- 401	Water Resources & Irrigation	4	4	75	50
CE- 402	Transportation Engineering	4	4	75	50
CE- 407	Environmental Engineering-II	4	4	75	25
CE- 408	Design of Structure	2	8	50	75
	<b>Total Marks</b>			350	250
				600	
<b>Eighth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CE- 405	Structural Engineering	2	6	75	25
CE- 403	Hydraulic Engineering	4	4	75	50
CE- 406	Pavement & Foundation	4	4	75	50
CE- 409	Computer Aided Analysis & Design	2	6	50	50
CE- 410	Project	0	8	0	200
	<b>Total Marks</b>			275	375
				650	

## Outlines for B.Sc. Architecture Engineering

<b>First Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
AE-101	Architectural Graphics-I	-	13	-	250
AE: 102	Structural Concepts	4	4	100	50
MA: 103	Mathematics-I	4	-	100	-
AE: 104	Building Materials	4	4	100	50
IS/HU: 101	Islamic Studies	2	-	50	-
	<b>Total:</b>	<b>14</b>	<b>21</b>	<b>350</b>	<b>350</b>
	<b>Grand Total:</b>	<b>35</b>		<b>700</b>	
<b>Second Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>

AE: 111	Architectural Graphics-II	-	13	-	250
AE: 112	Structural Mechanics	3	3	75	50
AE- 115	Surveying-I	4	4	100	50
AE: 116	Environmental Control Systems-I	3	3	75	50
AE: 118	Computer Applications-I	2	6	50	100
	<b>Total:</b>	<b>12</b>	<b>28</b>	<b>300</b>	<b>500</b>
	<b>Grand Total:</b>	<b>40</b>		<b>800</b>	

### 3rd Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 201		-	13	-	250
AE: 202		4	4	100	50
AE- 206		3	3	75	50
AE: 207		2	5	50	75
IS/HU: 201		2	-	50	-
HU: 220		-	4	-	50
	<b>Total:</b>	<b>11</b>	<b>29</b>	<b>275</b>	<b>475</b>
	<b>Grand Total:</b>	<b>40</b>		<b>750</b>	

### Fourth Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 211	Architectural Design-II	-	13	-	250
AE: 213	Mathematics-II	4	-	100	50
AE- 214	Lighting & Illumination-I	3	4	75	50
AE: 215	Surveying-II	4	4	100	50
AE: 218	Computer Applications	2	4	50	75
	<b>Total:</b>	<b>13</b>	<b>25</b>	<b>325</b>	<b>425</b>
	<b>Grand Total:</b>	<b>38</b>		<b>750</b>	

### Fifth Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 301	Architectural Design-III	-	13	-	250
AE: 302	Theory of Structures-II	4	4	100	50
AE- 303	Mathematics-III	4	-	100	-
AE: 304	Lighting & Illumination	3	4	75	50
AE: 309	Soil Mechanics-I	3	4	75	50
	<b>Total:</b>	<b>14</b>	<b>25</b>	<b>350</b>	<b>400</b>
	<b>Grand Total:</b>	<b>39</b>		<b>750</b>	

### Sixth Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 311	History of Building Technology-I	4	4	100	50
AE: 312	Steel Structures	4	4	100	50
AE- 313	Mechanical Technology	3	4	100	50
AE: 317	Building Construction-II	2	6	50	100
AE: 319	Soil Mechanics-II	4	4	100	50
	<b>Total:</b>	<b>17</b>	<b>22</b>	<b>450</b>	<b>300</b>
	<b>Grand Total:</b>	<b>39</b>		<b>750</b>	

### Seventh Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 401	History of Building Technology-II	4	4	100	50
AE: 406	Environmental Control System-III	3	4	100	50
AE- 407	Building construction-III	2	6	50	100
AE: 409	Pavement & Foundation Design	4	4	100	50
AE: 421	Environmental Engineering & Plumbing Design-I	4	4	100	50
	<b>Total:</b>	<b>17</b>	<b>22</b>	<b>450</b>	<b>300</b>
	<b>Grand Total:</b>	<b>39</b>		<b>750</b>	
<b>Eighth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 412	Structural Design-I	4	4	100	50
AE: 419	Estimation and Quantity Surveying	3	5	75	75
AE- 422	Environmental Engineering & Plumbing Design.	4	4	100	50
AE: 423	Building Economics	4	3	100	50
AE: 424	Communication Skills	4	3	100	50
	<b>Total:</b>	<b>19</b>	<b>19</b>	<b>475</b>	<b>275</b>
	<b>Grand Total:</b>	<b>38</b>		<b>750</b>	
<b>Ninth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 502	Structural Design-II	4	6	100	100
AE: 507	Building Construction-IV	4	6	100	100
AE- 509	Large Span Structures	4	4	100	50
AE: 525	Building Conservation & Recycling	4	6	100	100
	<b>Total:</b>	<b>16</b>	<b>22</b>	<b>400</b>	<b>350</b>
	<b>Grand Total:</b>	<b>38</b>		<b>750</b>	
<b>Tenth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
AE: 512	Structural Design-III	4	4	100	50
AE: 526	Construction Management and Project Scheduling	4	4	100	50
AE- 527	Practice and Construction Laws	4	4	100	50
AE: 528	Architectural Engineering Project	-	15	-	300
	<b>Total:</b>	<b>12</b>	<b>27</b>	<b>300</b>	<b>450</b>
	<b>Grand Total:</b>	<b>38</b>		<b>750</b>	

## Outlines for B.Sc. Electrical Engineering

Total Credit Hours of the Degree 144

<b>First Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
GS- 121	Islamic studies/Pakistan studies/Ethical	2	0	50	0

	Behavior				
HS- 122	Communication Skills	2	0	50	0
GS- 133	Mathematics-I	3	0	100	0
CPE- 134	Programming in C/Java	2	1	50	50
EE- 145	Basic Electrical Engineering	3	1	100	50
EE- 146	Semiconductor Materials and Devices	3	1	100	50
	<b>Total:</b>	<b>15</b>	<b>3</b>	<b>450</b>	<b>150</b>
	<b>Grand Total:</b>	<b>18</b>		<b>600</b>	
<b>Second Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
GS- 231	Mathematics-II	3	0	100	0
EE- 242	Electronics-I	3	1	100	50
EE- 223	Electronics Workshop	0	2	0	50
EE- 234	Electronics Machines-I	2	1	50	50
ME- 225	Computer Aided Engineering Drawing	0	2	0	100
ME- 236	Engineering Mechanics	2	1	50	50
	<b>Total:</b>	<b>10</b>	<b>7</b>	<b>300</b>	<b>300</b>
	<b>Grand Total:</b>	<b>17</b>		<b>600</b>	
<b>Third Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
GS- 331	Mathematics-III	3	0	100	0
EE- 332	Network Analysis	3	0	100	0
EE- 343	Electronics-II	3	1	100	50
EE- 344	Digital Logic Design	3	1	100	50
ME- 335	Thermodynamics	2	1	50	50
	<b>Total:</b>	<b>14</b>	<b>3</b>	<b>450</b>	<b>150</b>
	<b>Grand Total:</b>	<b>17</b>		<b>600</b>	
<b>Fourth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
GS- 431	Numerical Methods	3	0	100	0
EE- 442	Electrical Machines-II	3	1	100	50
EE- 443	Instrumentation and Measurements	3	1	100	50
EE- 434	Electromagnetic Theory	3	0	100	0
GS- 425	Engineering Economics	2	0	50	0
	<b>Total:</b>	<b>14</b>	<b>2</b>	<b>450</b>	<b>100</b>
	<b>Grand Total:</b>	<b>16</b>		<b>550</b>	
<b>Fifth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
EE- 541	Signals and Systems	3	1	100	50
EE- 542	Integrated Circuits	3	1	100	50
EE- 543	Control Systems	3	1	100	50
CPE- 544	Microprocessor Architecture and Programming	3	1	100	50
GS- 525	Engineering Management	2	0	50	0
	<b>Total:</b>	<b>14</b>	<b>4</b>	<b>450</b>	<b>200</b>
	<b>Grand Total:</b>	<b>18</b>		<b>650</b>	
<b>Sixth Term</b>					

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
EE- 641	Wave Propagation and Antennas	3	1	100	50
EE- 642	Power Electronics	3	1	100	50
EE- 643	Information Theory and Communication System	3	1	100	50
EE- 644	Power Transmission and Protection	3	1	100	50
GS- 625	Engineering Statistics	2	0	50	0
	<b>Total:</b>	<b>14</b>	<b>4</b>	<b>450</b>	<b>200</b>
	<b>Grand Total:</b>	<b>18</b>		<b>650</b>	

#### Seventh Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
CPE- 741	Computer Communication and Networking	3	1	100	50
EE- 742	Telecommunication	3	1	100	50
EE- 743	Digital Signal Processing	3	1	100	50
EE- 744	Digital Communication Systems	3	1	100	50
EE- 745	Power Distribution and Utilization	3	1	100	50
	<b>Total:</b>	<b>15</b>	<b>5</b>	<b>500</b>	<b>250</b>
	<b>Grand Total:</b>	<b>20</b>		<b>750</b>	

#### Eighth Term

Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
CPE- 841	Microprocessor and Microcontroller Application	3	1	100	50
EE- 842	Optical Communication Systems	3	1	100	50
EE- 843	Industrial Electronics	3	1	100	50
EE- 844	Project	0	4	0	200
	<b>Total:</b>	<b>9</b>	<b>7</b>	<b>300</b>	<b>350</b>
	<b>Grand Total:</b>	<b>16</b>		<b>650</b>	

**Numbering scheme of courses:** First two letters indicate the department, first digit represents term, second digit represents credit hours and third digit is the course number.

CPE:	Computer Engineering
EE:	Electrical Engineering
GS:	General Sciences
ME:	Mechanical Engineering
HS:	Humanities

## Outlines for B.Sc. Computer Engineering

Total Credit Hours of the Degree 144

First Term					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
GS- 131	Calculus and Analytical Geometry	3	0	100	0
GS- 142	Applied Physics	3	1	100	50

HS- 123	Communication Skills	2	0	50	0
CPE- 144	Introduction to Computing	3	1	100	50
EE- 145	Basic Electrical Engineering	3	1	100	50
	<b>Total:</b>	<b>14</b>	<b>3</b>	<b>450</b>	<b>150</b>
	<b>Grand Total:</b>	<b>17</b>		<b>600</b>	
<b>Second Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
GS- 231	Linear Algebra and Differential Equations	3	0	100	0
HS- 222	Islamic Studies or Ethical Behavior	2	0	50	0
ME- 233	Thermodynamics	2	1	50	50
ME- 224	Computer Aided Engineering Drawing	0	2	0	100
EE- 245	Analog Electronics	3	1	100	50
CPE- 246	Programming Techniques	3	1	100	50
	<b>Total:</b>	<b>13</b>	<b>5</b>	<b>400</b>	<b>250</b>
	<b>Grand Total:</b>	<b>18</b>		<b>650</b>	
<b>Third Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CPE- 331	Discrete Structure	3	0	100	0
EE- 342	Electrical Circuits	3	1	100	50
CPE- 333	Data Structure and Algorithms	2	1	50	50
CPE- 344	Digital Logic Design	3	1	100	50
HS- 325	Technical Report Writing	2	0	50	0
HS- 326	Pakistan Studies	2	0	50	0
	<b>Total:</b>	<b>15</b>	<b>3</b>	<b>450</b>	<b>150</b>
	<b>Grand Total:</b>	<b>18</b>		<b>600</b>	
<b>Fourth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CPE- 421	Numerical Methods	2	0	50	0
CPE- 442	Computer Organization	3	1	100	50
GS- 423	Probability and Statistics	2	0	50	0
EE- 444	Digital Electronics	3	1	100	50
CPE- 445	Object Oriented Programming	3	1	100	50
GS- 426	Engineering Economics	2	0	50	0
	<b>Total:</b>	<b>15</b>	<b>3</b>	<b>450</b>	<b>150</b>
	<b>Grand Total:</b>	<b>18</b>		<b>600</b>	
<b>Fifth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
EE- 541	Communication System	3	1	100	50
EE- 532	Instrumentation and Measurements	2	1	50	50
CPE- 543	Data Base Management Systems	3	1	100	50
CPE- 534	Software Engineering	2	1	50	50
EE- 545	Electrical Machines	3	1	100	50
	<b>Total:</b>	<b>13</b>	<b>5</b>	<b>400</b>	<b>250</b>
	<b>Grand Total:</b>	<b>18</b>		<b>650</b>	
<b>Sixth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>

CPE- 641	Computer Communication and Networks	3	1	100	50
EE- 642	Control Engineering	3	1	100	50
EE- 643	Microprocessor Systems	3	1	100	50
CPE- 644	Operating Systems	3	1	100	50
CPE- 635	Theory of Automata	3	0	100	0
	<b>Total:</b>	<b>15</b>	<b>4</b>	<b>500</b>	<b>200</b>
	<b>Grand Total:</b>	<b>19</b>		<b>700</b>	
<b>Seventh Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CPE- 741	Computer Architecture	3	1	100	50
EE- 742	Digital Signal Processing	3	1	100	50
CPE- 743	Parallel Processing	3	1	100	50
CPE- 744	Fault Diagnosis and Tolerant Systems	3	1	100	50
CPE- 745	Modeling and Simulation	3	1	100	50
	<b>Total:</b>	<b>15</b>	<b>5</b>	<b>500</b>	<b>250</b>
	<b>Grand Total:</b>	<b>20</b>		<b>750</b>	
<b>Eighth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
CPE- 841	Microprocessor and Microcontroller Application	3	1	100	50
CPE- 842	Digital Image Processing	3	1	100	50
CPE- 843	Compiler Design	3	1	100	50
CPE- 844	Project	0	4	0	200
	<b>Total:</b>	<b>9</b>	<b>7</b>	<b>300</b>	<b>350</b>
	<b>Grand Total:</b>	<b>16</b>		<b>650</b>	

**Numbering scheme of courses:** First two letters indicate the department, first digit represents term, second digit represents credit hours and third digit is the course number.

CPE:	Computer Engineering
EE:	Electrical Engineering
GS:	General Sciences
ME:	Mechanical Engineering
HS:	Humanities

## Outlines for B.Sc. Mechanical Engineering

<b>First Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
GS- 131	Applied Mathematics-I	3	-	100	-
ME- 142	Thermodynamics-I	3	1	100	50
ME- 143	Engineering Mechanics-I	3	1	100	50
ME- 134	Industrial Materials	3	-	100	-
EE- 145	Electrical Engineering	3	1	100	50
HS- 126	Communication Skills	2	0	50	-



<b>Total= 550+150=700</b>					
<b>Second Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
ME- 261	Engineering Drawing & Graphics	3	3	100	100
ME- 242	Fluid Mechanics	3	1	100	50
ME- 243	Manufacturing Processes	3	1	100	50
ME- 224	Workshop Technology	-	2	-	100
CS- 245	Computer System & Programming	2	2	100	50
HS- 226	Islamic Studies/Ethics	2	-	50	-
<b>Total= 450+350=800</b>					
<b>Third Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
GS- 331	Applied Mathematics-II	3	-	100	-
ME- 342	Thermodynamics-II	3	1	100	50
ME- 343	Engineering Mechanics-II	3	1	100	50
ME- 344	Mechanics of Machines-I	3	1	100	50
EE- 345	Industrial Electronics	3	1	100	50
<b>Total= 500+200=700</b>					
<b>Fourth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
ME- 461	Machine Design & CAD-I	3	3	100	100
ME- 442	Machine Tools & Machining	3	1	100	50
ME- 443	Mechanics of Materials-I	3	1	100	50
ME- 444	Hydraulic Machinery	3	1	100	50
HS- 425	Pakistan Studies	2	-	50	-
<b>Total= 450+250=700</b>					
<b>Fifth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
GS- 531	Applied Mathematics-III	3	-	100	-
ME- 542	Mechanics of Machines-II	3	1	100	50
ME- 543	Refrigeration & Air Conditioning	3	1	100	50
ME- 544	Energy Resources & Utilizations	3	1	100	50
ME- 535	Quality Engineering	3	-	100	-
<b>Total= 500+150=650</b>					
<b>Sixth Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
ME- 661	Machine Design & CAD-II	3	3	100	100
ME- 642	Mechanics of Materials-II	3	1	100	50
ME- 643	Manufacturing Automation	3	1	100	50
ME- 634	Environmental Engineering	3	-	100	-
GS- 635	Engineering Statistics	3	-	100	-
<b>Total= 500+200=700</b>					
<b>Seventh Term</b>					
Course #	Title/Subject	Contact Hours		Marks	
		Th.	Pr.	Th.	Pr.
ME- 741	Mechanical Vibrations	3	1	100	50

ME- 742	I.C Engines	3	1	100	50
ME- 743	Heat & Mass Transfer	3	1	100	50
ME- 734	Instrumentation & Control	3	-	100	-
ME- 745	Operation Research	3	1	100	50
<b>Total=500+200=700</b>					
<b>Eighth Term</b>					
<b>Course #</b>	<b>Title/Subject</b>	<b>Contact Hours</b>		<b>Marks</b>	
		<b>Th.</b>	<b>Pr.</b>	<b>Th.</b>	<b>Pr.</b>
ME- 841	Power Plants	3	1	100	50
ME- 842	Mechanics of Materials-III	3	1	100	50
ME- 833	Industrial Management & Economics	3	-	100	-
ME- 844	Gas Dynamics	3	1	100	50
ME- 845	Projects	-	4	-	200
<b>Total= 400+350=750</b>					