



**CHENDHURAN COLLEGE OF ENGINEERING AND  
TECHNOLOGY**

Accredited by NAAC with B+ Grade  
Approved by AICTE, New Delhi and Affiliated by Anna  
University, Chennai

Lena Vilakku, Pulivalam (PO), Thirumayam (TK), Pudukkottai - 622 507.Tamilnadu



1.3.2 Average percentage of courses that include experiential learning through Project work/Field work/Internship during last five years.

Sl.No	Academic Year	No. of Courses Offered
1	2016-2017	97
2	2017-2018	91
3	2018-2019	97
4	2019-2020	78
5	2020-2021	97

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CHENDHURAN COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
PUDUKKOTTAI - 622 507

1.3.2 Average percentage of courses that include experiential learning through project work/field work/internship during last five years

Sl.No	Course Code	Name of the Subject	Regulation	Nature of Work
<b>2016-2017</b>				
<b>Department of Civil Engineering</b>				
1	GE6161	Computer Practices Laboratory	2013	Experimental Learning
2	GE6162	Engineering Practices Laboratory	2013	Experimental Learning
3	GE6163	Physics and Chemistry Laboratory - I	2013	Experimental Learning
4	GE6261	Computer Aided Drafting and Modeling Laboratory	2013	Experimental Learning
5	GE6262	Physics and Chemistry Laboratory - II	2013	Experimental Learning
6	CE6311	Survey Practical I	2013	Experimental Learning
7	CE6312	Computer Aided Building Drawing	2013	Internship
8	CE6411	Strength of Materials Laboratory	2013	Experimental Learning
9	CE6412	Hydraulic Engineering Laboratory	2013	Experimental Learning
10	CE6413	Survey Practical II	2013	Experimental Learning
11	GE6674	Communication and Soft skills - Laboratory Based	2013	Experimental Learning
12	CE6511	Soil Mechanics Laboratory	2013	Experimental Learning
13	CE6512	Survey Camp	2013	Internship
14	CE6611	Environmental Engineering Laboratory	2013	Experimental Learning
15	CE6612	Concrete and Highway Engineering Laboratory	2013	Project
16	CE6711	Computer Aided Design and Drafting Laboratory	2013	Experimental Learning
17	CE6712	Design Project	2013	Project
18	CE6811	Project Work	2013	Project
<b>Department of Computer Science and Engineering</b>				
19	GE6161	Computer Practices Laboratory	2013	Experimental Learning
20	GE6162	Engineering Practices Laboratory	2013	Experimental Learning
21	GE6163	Physics and Chemistry Laboratory - I	2013	Experimental Learning
22	GE6262	Physics and Chemistry Laboratory - II	2013	Experimental Learning
23	CS6211	Digital Laboratory	2013	Experimental Learning
24	CS6212	Programming and Data Structures Laboratory	2013	Experimental Learning
25	CS6311	Programming and Data Structures Laboratory-II	2013	Experimental Learning
26	CS6312	Database Management Systems Laboratory	2013	Experimental Learning
27	CS6411	Networks Laboratory	2013	Project
28	CS6412	Microprocessor and Microcontroller Laboratory	2013	Experimental Learning
29	CS6413	Operating Systems Laboratory	2013	Experimental Learning
30	CS6511	Case Tools Laboratory	2013	Experimental Learning
31	CS6512	Internet Programming Laboratory	2013	Experimental Learning
32	CS6513	Computer Graphics Laboratory	2013	Experimental Learning
33	CS6611	Mobile Application and Development Laboratory	2013	Experimental Learning
34	CS6612	Compiler Laboratory	2013	Project
35	GE6674	Communication and Soft Skills - Laboratory Based	2013	Experimental Learning
36	CS6711	Security Laboratory	2013	Experimental Learning
37	CS6712	Grid and Cloud Computing Laboratory	2013	Experimental Learning
38	CS6811	Project Work	2013	Project
<b>Department of Electrical and Electronics Engineering</b>				
39	GE6161	Computer Practices Laboratory	2013	Experimental Learning
40	GE6162	Engineering Practices Laboratory	2013	Experimental Learning
41	GE6163	Physics and Chemistry Laboratory - I	2013	Experimental Learning
42	GE6262	Physics and Chemistry Laboratory - II	2013	Experimental Learning
43	GE6263	Computer Programming Laboratory	2013	Experimental Learning
44	EE6211	Electric Circuits Laboratory	2013	Experimental Learning
45	EC6361	Electronics Laboratory	2013	Experimental Learning
46	EE6311	Linear and Digital Integrated Circuits Laboratory	2013	Experimental Learning
47	CS6461	Object Oriented Programming Laboratory	2013	Experimental Learning
48	EE6411	Electrical Machines Laboratory - I	2013	Experimental Learning
49	EE6511	Control and Instrumentation Laboratory	2013	Project
50	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
51	EE6512	Electrical Machines Laboratory - II	2013	Project

**PRINCIPAL**

52	EE6611	Power Electronics and Drives Laboratory	2013	Experimental Learning
53	EE6612	Microprocessors and Microcontrollers Laboratory	2013	Experimental Learning
54	EE6613	Presentation Skills and Technical Seminar	2013	Internship
55	EE6711	Power System Simulation Laboratory	2013	Experimental Learning
56	EE6712	Comprehension	2013	Project
57	EE6811	Project Work	2013	Project

**Department of Electrical and Communication Engineering**

58	GE6161	Computer Practices Laboratory	2013	Experimental Learning
59	GE6162	Engineering Practices Laboratory	2013	Experimental Learning
60	GE6163	Physics and Chemistry Laboratory - I	2013	Experimental Learning
61	GE6262	Physics and Chemistry Laboratory - II	2013	Experimental Learning
62	EC6211	Circuits and Devices Laboratory	2013	Experimental Learning
63	EC6311	Analog and Digital Circuits Laboratory	2013	Experimental Learning
64	EC6312	OOPS and Data Structures Laboratory	2013	Experimental Learning
65	EC6411	Circuits and Simulation Integration Laboratory	2013	Experimental Learning
66	EC6412	Linear Integrated Circuit Laboratory	2013	Experimental Learning
67	EE6461	Electrical Engineering and Control System Laboratory	2013	Experimental Learning
68	EC6511	Digital Signal Processing Laboratory	2013	Project
69	EC6512	Communication System Laboratory	2013	Experimental Learning
70	EC6513	Microprocessor and Microcontroller Laboratory	2013	Experimental Learning
71	EC6611	Computer Networks Laboratory	2013	Project
72	EC6612	VLSI Design Laboratory	2013	Experimental Learning
73	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
74	EC6711	Embedded Laboratory	2013	Experimental Learning
75	EC6712	Optical and Microwave Laboratory	2013	Experimental Learning
76	EC6811	Project Work	2013	Project

**Department of Mechanical Engineering**

77	GE6161	Computer Practices Laboratory	2013	Experimental Learning
78	GE6162	Engineering Practices Laboratory	2013	Experimental Learning
79	GE6163	Physics and Chemistry Laboratory - I	2013	Experimental Learning
80	GE6261	Computer Aided Drafting and Modeling Laboratory	2013	Experimental Learning
81	GE6262	Physics and Chemistry Laboratory - II	2013	Experimental Learning
82	ME6311	Manufacturing Technology Laboratory - I	2013	Internship
83	CE6461	Fluid Mechanics and Machinery Laboratory	2013	Experimental Learning
84	EE6365	Electrical Engineering Laboratory	2013	Experimental Learning
85	ME6411	Manufacturing Technology Laboratory-II	2013	Internship
86	ME6412	Thermal Engineering Laboratory - I	2013	Experimental Learning
87	CE6315	Strength of Materials Laboratory	2013	Experimental Learning
88	ME6511	Dynamics Laboratory	2013	Experimental Learning
89	ME6512	Thermal Engineering Laboratory-II	2013	Experimental Learning
90	ME6513	Metrology and Measurements Laboratory	2013	Experimental Learning
91	ME6611	C.A.D. / C.A.M. Laboratory	2013	Experimental Learning
92	ME6612	Design and Fabrication Project	2013	Project
93	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
94	ME6711	Simulation and Analysis Laboratory	2013	Experimental Learning
95	ME6712	Mechatronics Laboratory	2013	Project
96	ME6713	Comprehension	2013	Project
97	ME6811	Project Work	2013	Project

2017-2018

**Department of Civil Engineering**

1	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
2	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
3	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
4	CE8211	Computer Aided Building Drawing	2017	Field Work
5	CE6311	Survey Practical I	2013	Field Work
6	CE6312	Computer Aided Building Drawing	2013	Experimental Learning
7	CE6411	Strength of Materials Laboratory	2013	Experimental Learning
8	CE6412	Hydraulic Engineering Laboratory	2013	Experimental Learning

**PRINCIPAL**

**CHENDHURAN COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
PUDUKKOTTAI - 622 507**

9	CE6413	Survey Practical II	2013	Field Work
10	GE6674	Communication and Soft skills - Laboratory Based	2013	Experimental Learning
11	CE6511	Soil Mechanics Laboratory	2013	Experimental Learning
12	CE6512	Survey Camp	2013	Internship
13	CE6611	Environmental Engineering Laboratory	2013	Experimental Learning
14	CE6612	Concrete and Highway Engineering Laboratory	2013	Project
15	CE6711	Computer Aided Design and Drafting Laboratory	2013	Experimental Learning
16	CE6712	Design Project	2013	Project
17	CE6811	Project Work	2013	Project
<b>Department of Computer Science and Engineering</b>				
18	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
19	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
20	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
21	CS8261	C Programming Laboratory	2017	Experimental Learning
22	CS6311	Programming and Data Structures Laboratory-II	2013	Experimental Learning
23	CS6312	Database Management Systems Laboratory	2013	Experimental Learning
24	CS6411	Networks Laboratory	2013	Project
25	CS6412	Microprocessor and Microcontroller Laboratory	2013	Experimental Learning
26	CS6413	Operating Systems Laboratory	2013	Experimental Learning
27	CS6511	Case Tools Laboratory	2013	Experimental Learning
28	CS6512	Internet Programming Laboratory	2013	Experimental Learning
29	CS6513	Computer Graphics Laboratory	2013	Experimental Learning
30	CS6611	Mobile Application and Development Laboratory	2013	Project
31	CS6612	Compiler Laboratory	2013	Experimental Learning
32	GE6674	Communication and Soft Skills - Laboratory Based	2013	Experimental Learning
33	CS6711	Security Laboratory	2013	Internship
34	CS6712	Grid and Cloud Computing Laboratory	2013	Project
35	CS6811	Project Work	2013	Project
<b>Department of Electrical and Electronics Engineering</b>				
36	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
37	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
38	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
39	EE8261	Electric Circuits Laboratory	2017	Experimental Learning
40	EE6211	Electric Circuits Laboratory	2017	Experimental Learning
41	EC6361	Electronics Laboratory	2013	Experimental Learning
42	EE6311	Linear and Digital Integrated Circuits Laboratory	2013	Experimental Learning
43	CS6461	Object Oriented Programming Laboratory	2013	Experimental Learning
44	EE6411	Electrical Machines Laboratory - I	2013	Internship
45	EE6511	Control and Instrumentation Laboratory	2013	Experimental Learning
46	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
47	EE6512	Electrical Machines Laboratory - II	2013	Experimental Learning
48	EE6611	Power Electronics and Drives Laboratory	2013	Project
49	EE6612	Microprocessors and Microcontrollers Laboratory	2013	Experimental Learning
50	EE6613	Presentation Skills and Technical Seminar	2013	Experimental Learning
51	EE6711	Power System Simulation Laboratory	2013	Experimental Learning
52	EE6712	Comprehension	2013	Project
53	EE6811	Project Work	2013	Project
<b>Department of Electrical and Communication Engineering</b>				
54	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
55	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
56	EC8261	Circuits and Devices Laboratory	2017	Experimental Learning
57	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
58	EC6311	Analog and Digital Circuits Laboratory	2013	Experimental Learning
59	EC6312	OOPS and Data Structures Laboratory	2013	Experimental Learning
60	EC6411	Circuits and Simulation Integration Laboratory	2013	Experimental Learning
61	EC6412	Linear Integrated Circuit Laboratory	2013	Experimental Learning
62	EE6461	Electrical Engineering and Control System Laboratory	2013	Experimental Learning
63	EC6511	Digital Signal Processing Laboratory	2013	Experimental Learning

64	EC6512	Communication System Laboratory	2013	Experimental Learning
65	EC6513	Microprocessor and Microcontroller Laboratory	2013	Internship
66	EC6611	Computer Networks Laboratory	2013	Project
67	EC6612	VLSI Design Laboratory	2013	Project
68	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
69	EC6711	Embedded Laboratory	2013	Project
70	EC6712	Optical and Microwave Laboratory	2013	Experimental Learning
71	EC6811	Project Work	2013	Project

**Department of Mechanical Engineering**

72	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
73	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
74	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
75	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2017	Experimental Learning
76	ME6311	Manufacturing Technology Laboratory - I	2013	Internship
77	CE6461	Fluid Mechanics and Machinery Laboratory	2013	Experimental Learning
78	EE6365	Electrical Engineering Laboratory	2013	Experimental Learning
79	ME6411	Manufacturing Technology Laboratory-II	2013	Internship
80	ME6412	Thermal Engineering Laboratory - I	2013	Experimental Learning
81	CE6315	Strength of Materials Laboratory	2013	Experimental Learning
82	ME6511	Dynamics Laboratory	2013	Experimental Learning
83	ME6512	Thermal Engineering Laboratory-II	2013	Project
84	ME6513	Metrology and Measurements Laboratory	2013	Experimental Learning
85	ME6611	C.A.D. / C.A.M. Laboratory	2013	Internship
86	ME6612	Design and Fabrication Project	2013	Project
87	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
88	ME6711	Simulation and Analysis Laboratory	2013	Experimental Learning
89	ME6712	Mechatronics Laboratory	2013	Project
90	ME6713	Comprehension	2013	Project
91	ME6811	Project Work	2013	Project

2018-2019

**Department of Civil Engineering**

1	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
2	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
3	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
4	CE8211	Computer Aided Building Drawing	2017	Internship
5	CE8311	Construction Materials Laboratory	2017	Internship
6	CE8361	Surveying Laboratory	2017	Internship
7	HS8381	Interpersonal Skills / Listening and Speaking	2017	Experimental Learning
8	CE8481	Strength of Materials Laboratory	2017	Experimental Learning
9	CE8461	Hydraulic Engineering Laboratory	2017	Experimental Learning
10	HS8461	Advanced Reading and Writing	2017	Experimental Learning
11	GE6674	Communication and Soft skills - Laboratory Based	2013	Experimental Learning
12	CE6511	Soil Mechanics Laboratory	2013	Project
13	CE6512	Survey Camp	2013	Internship
14	CE6611	Environmental Engineering Laboratory	2013	Project
15	CE6612	Concrete and Highway Engineering Laboratory	2013	Project
16	CE6711	Computer Aided Design and Drafting Laboratory	2013	Project
17	CE6712	Design Project	2013	Project
18	CE6811	Project Work	2013	Project

**Department of Computer Science and Engineering**

19	GE8161	Problem Solving and Python Programming Laboratory	2017	Internship
20	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
21	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
22	CS8261	C Programming Laboratory	2017	Experimental Learning
23	CS8381	Data Structures Laboratory	2017	Experimental Learning
24	CS8383	Object Oriented Programming Laboratory	2017	Experimental Learning
25	CS8382	Digital Systems Laboratory	2017	Experimental Learning

26	HSS381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning
27	CS8481	Database Management Systems Laboratory	2017	Experimental Learning
28	CS8461	Operating Systems Laboratory	2017	Experimental Learning
29	HS8461	Advanced Reading and Writing	2013	Experimental Learning
30	CS6413	Operating Systems Laboratory	2013	Experimental Learning
31	CS6511	Case Tools Laboratory	2013	Experimental Learning
32	CS6512	Internet Programming Laboratory	2013	Internship
33	CS6513	Computer Graphics Laboratory	2013	Experimental Learning
34	CS6611	Mobile Application and Development Laboratory	2013	Project
35	CS6612	Compiler Laboratory	2013	Experimental Learning
36	GE6674	Communication and Soft Skills - Laboratory Based	2013	Experimental Learning
37	CS6711	Security Laboratory	2013	Project
38	CS6712	Grid and Cloud Computing Laboratory	2013	Project
39	CS6811	Project Work	2013	Project
<b>Department of Electrical and Electronics Engineering</b>				
40	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
41	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
42	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
43	EE8261	Electric Circuits Laboratory	2017	Experimental Learning
44	EC8311	Electronics Laboratory	2017	Experimental Learning
45	EE8311	Electrical Machines Laboratory - I	2017	Project
46	EE8411	Electrical Machines Laboratory - II	2017	Experimental Learning
47	EE8461	Linear and Digital Integrated Circuits Laboratory	2017	Experimental Learning
48	EE8412	Technical Seminar	2017	Experimental Learning
49	EE6511	Control and Instrumentation Laboratory	2013	Experimental Learning
50	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
51	EE6512	Electrical Machines Laboratory - II	2013	Experimental Learning
52	EE6611	Power Electronics and Drives Laboratory	2013	Experimental Learning
53	EE6612	Microprocessors and Microcontrollers Laboratory	2013	Project
54	EE6613	Presentation Skills and Technical Seminar	2013	Experimental Learning
55	EE6711	Power System Simulation Laboratory	2013	Project
56	EE6712	Comprehension	2013	Project
57	EE6811	Project Work	2013	Project
<b>Department of Electrical and Communication Engineering</b>				
58	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
59	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
60	EC8261	Circuits and Devices Laboratory	2017	Experimental Learning
61	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
62	EC8381	Fundamentals of Data Structures in C Laboratory	2017	Experimental Learning
63	EC8361	Analog and Digital Circuits Laboratory	2017	Experimental Learning
64	HS8381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning
65	EC8461	Circuits Design and Simulation Laboratory	2017	Experimental Learning
66	EC8462	Linear Integrated Circuits Laboratory	2017	Experimental Learning
67	EC6511	Digital Signal Processing Laboratory	2013	Experimental Learning
68	EC6512	Communication System Laboratory	2013	Experimental Learning
69	EC6513	Microprocessor and Microcontroller Laboratory	2013	Internship
70	EC6611	Computer Networks Laboratory	2013	Internship
71	EC6612	VLSI Design Laboratory	2013	Experimental Learning
72	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
73	EC6711	Embedded Laboratory	2013	Internship
74	EC6712	Optical and Microwave Laboratory	2013	Internship
75	EC6811	Project Work	2013	Project
<b>Department of Mechanical Engineering</b>				
76	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
77	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
78	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
79	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2017	Experimental Learning

PRINCIPAL

HENDRISAN COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
PUDUKKOTTAI - 622 507

R0	ME8361	Manufacturing Technology Laboratory - I	2017	Internship
R1	ME8381	Computer Aided Machine Drawing	2017	Experimental Learning
R2	EE8361	Electrical Engineering Laboratory	2017	Experimental Learning
R3	HS8381	Interpersonal Skills / Listening & Speaking	2017	Experimental Learning
R4	ME8462	Manufacturing Technology Laboratory - II	2017	Internship
R5	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	2017	Project
R6	HS8461	Advanced Reading and Writing	2017	Experimental Learning
R7	CE6315	Strength of Materials Laboratory	2013	Experimental Learning
RR	ME6511	Dynamics Laboratory	2013	Experimental Learning
R9	ME6512	Thermal Engineering Laboratory II	2013	Internship
90	ME6513	Metrology and Measurements Laboratory	2013	Internship
91	ME6611	C.A.D. / C.A.M. Laboratory	2013	Experimental Learning
92	ME6612	Design and Fabrication Project	2013	Experimental Learning
93	GE6674	Communication and Soft Skills- Laboratory Based	2013	Experimental Learning
94	ME6711	Simulation and Analysis Laboratory	2013	Internship
95	ME6712	Mechatronics Laboratory	2013	Experimental Learning
96	ME6713	Comprehension	2013	Project
97	ME6811	Project Work	2013	Project

2019-2020

**Department of Civil Engineering**

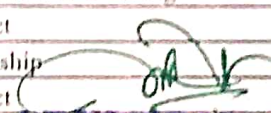
1	CE8311	Construction Materials Laboratory	2017	Project
2	CE8361	Surveying Laboratory	2017	Internship
3	HS8381	Interpersonal Skills / Listening and Speaking	2017	Experimental Learning
4	CE8481	Strength of Materials Laboratory	2017	Project
5	CE8461	Hydraulic Engineering Laboratory	2017	Experimental Learning
6	HS8461	Advanced Reading and Writing	2017	Experimental Learning
7	CE8511	Soil Mechanics Laboratory	2017	Project
8	CE8512	Water and Waste Water Analysis Laboratory	2017	Project
9	CE8513	Survey Camp	2017	Internship
10	CE8611	Highway Engineering Laboratory	2017	Experimental Learning
11	CE8612	Irrigation and Environmental Engineering Drawing	2017	Project
12	HS8581	Professional Communication	2017	Experimental Learning
13	CE6711	Computer Aided Design and Drafting Laboratory	2013	Experimental Learning
14	CE6712	Design Project	2013	Project
15	CE6811	Project Work	2013	Project

**Department of Computer Science and Engineering**

16	CS8381	Data Structures Laboratory	2017	Experimental Learning
17	CS8383	Object Oriented Programming Laboratory	2017	Experimental Learning
18	CS8382	Digital Systems Laboratory	2017	Experimental Learning
19	HS8381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning
20	CS8481	Database Management Systems Laboratory	2017	Experimental Learning
21	CS8461	Operating Systems Laboratory	2017	Experimental Learning
22	HS8461	Advanced Reading and Writing	2017	Experimental Learning
23	EC8681	Microprocessors and Microcontrollers Laboratory	2017	Experimental Learning
24	CS8582	Object Oriented Analysis and Design Laboratory	2017	Experimental Learning
25	CS8581	Networks Laboratory	2017	Project
26	CS8661	Internet Programming Laboratory	2017	Internship
27	CS8662	Mobile Application Development Laboratory	2017	Project
28	CS8611	Mini Project	2017	Project
29	HS8581	Professional Communication	2017	Experimental Learning
30	CS6711	Security Laboratory	2013	Project
31	CS6712	Grid and Cloud Computing Laboratory	2013	Project
32	CS6811	Project Work	2013	Project

**Department of Electrical and Electronics Engineering**

33	EE8311	Electronics Laboratory	2017	Experimental Learning
34	EE8311	Electrical Machines Laboratory - I	2017	Project
35	EE8411	Electrical Machines Laboratory - II	2017	Project

  
**PRINCIPAL**  
**RENDHIRAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**PUDUKKOTTAI - 622 507**

36	EE8461	Linear and Digital Integrated Circuits Laboratory	2017	Experimental Learning
37	EE8412	Technical Seminar	2017	Internship
38	EE8511	Control and Instrumentation Laboratory	2017	Experimental Learning
39	HS8581	Professional Communication	2017	Experimental Learning
40	CS8383	Object Oriented Programming Laboratory	2017	Experimental Learning
41	EE8661	Power Electronics and Drives Laboratory	2017	Experimental Learning
42	EE8681	Microprocessors and Microcontrollers Laboratory	2017	Experimental Learning
43	EE8611	Mini Project	2017	Project
44	EE6711	Power System Simulation Laboratory	2013	Project
45	EE6712	Comprehension	2013	Project
46	EE6811	Project Work	2013	Project

**Department of Electrical and Communication Engineering**

47	EC8381	Fundamentals of Data Structures in C Laboratory	2017	Experimental Learning
48	EC8361	Analog and Digital Circuits Laboratory	2017	Experimental Learning
49	HS8381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning
50	EC8461	Circuits Design and Simulation Laboratory	2017	Experimental Learning
51	EC8462	Linear Integrated Circuits Laboratory	2017	Experimental Learning
52	EC8562	Digital Signal Processing Laboratory	2017	Project
53	EC8561	Communication Systems Laboratory	2017	Project
54	EC8563	Communication Networks Laboratory	2017	Experimental Learning
55	EC8681	Microprocessors and Microcontrollers Laboratory	2017	Experimental Learning
56	EC8661	VLSI Design Laboratory	2017	Experimental Learning
57	EC8611	Technical Seminar	2017	Internship
58	HS8581	Professional Communication	2017	Experimental Learning
59	EC6711	Embedded Laboratory	2013	Project
60	EC6712	Optical and Microwave Laboratory	2013	Experimental Learning
61	EC6811	Project Work	2013	Project

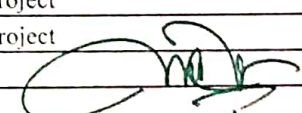
**Department of Mechanical Engineering**

62	ME8361	Manufacturing Technology Laboratory - I	2017	Internship
63	ME8381	Computer Aided Machine Drawing	2017	Internship
64	EE8361	Electrical Engineering Laboratory	2017	Experimental Learning
65	HS8381	Interpersonal Skills / Listening & Speaking	2017	Experimental Learning
66	ME8462	Manufacturing Technology Laboratory - II	2017	Internship
67	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	2017	Experimental Learning
68	HS8461	Advanced Reading and Writing	2017	Experimental Learning
69	ME8511	Kinematics and Dynamics Laboratory	2017	Experimental Learning
70	ME8512	Thermal Engineering Laboratory	2017	Experimental Learning
71	ME8513	Metrology and Measurements Laboratory	2017	Experimental Learning
72	ME8681	CAD / CAM Laboratory	2017	Internship
73	ME8682	Design and Fabrication Project	2017	Project
74	HS8581	Professional Communication	2013	Experimental Learning
75	ME6711	Simulation and Analysis Laboratory	2013	Experimental Learning
76	ME6712	Mechatronics Laboratory	2013	Internship
77	ME6713	Comprehension	2013	Project
78	ME6811	Project Work	2013	Project

2020-2021

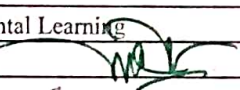
**Department of Civil Engineering**

1	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
2	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
3	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
4	CE8211	Computer Aided Building Drawing	2017	Experimental Learning
5	CE8311	Construction Materials Laboratory	2017	Internship
6	CE8361	Surveying Laboratory	2017	Internship
7	HS8381	Interpersonal Skills / Listening and Speaking	2017	Experimental Learning
8	CE8481	Strength of Materials Laboratory	2017	Experimental Learning
9	CE8461	Hydraulic Engineering Laboratory	2017	Experimental Learning
10	HS8461	Advanced Reading and Writing	2017	Experimental Learning

  
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 ENGINEERING AND TECHNOLOGY  
 PUDUKKOTTAI - 622 507**



11	CE8311	Construction Materials Laboratory	2017	Internship
12	CE8361	Surveying Laboratory	2017	Internship
13	HS8381	Interpersonal Skills / Listening and Speaking	2017	Experimental Learning
14	CE8481	Strength of Materials Laboratory	2017	Experimental Learning
15	CE8461	Hydraulic Engineering Laboratory	2017	Experimental Learning
16	HS8461	Advanced Reading and Writing	2017	Experimental Learning
17	CE8711	Creative and Innovative Project (Activity Based - Subject Related)	2017	Internship
18	CE8712	Industrial Training	2017	Internship
19	CE8811	Project Work	2017	Project
<b>Department of Computer Science and Engineering</b>				
20	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
21	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
22	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
23	CS8261	C Programming Laboratory	2017	Experimental Learning
24	CS8381	Data Structures Laboratory	2017	Experimental Learning
25	CS8383	Object Oriented Programming Laboratory	2017	Experimental Learning
26	CS8382	Digital Systems Laboratory	2017	Experimental Learning
27	HS8381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning
28	CS8481	Database Management Systems Laboratory	2017	Project
29	CS8461	Operating Systems Laboratory	2017	Project
30	HS8461	Advanced Reading and Writing	2017	Experimental Learning
31	CS8582	Object Oriented Analysis and Design Laboratory	2017	Project
32	CS8581	Networks Laboratory	2017	Project
33	CS8661	Internet Programming Laboratory	2017	Experimental Learning
34	CS8662	Mobile Application Development Laboratory	2017	Experimental Learning
35	CS8611	Mini Project	2017	Project
36	HS8581	Professional Communication	2017	Experimental Learning
37	CS8711	Cloud Computing Laboratory	2017	Internship
38	IT8761	Security Laboratory	2017	Internship
39	CS8811	Project Work		Project
<b>Department of Electrical and Electronics Engineering</b>				
40	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
41	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
42	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
43	EE8261	Electric Circuits Laboratory	2017	Experimental Learning
44	EC8311	Electronics Laboratory	2017	Experimental Learning
45	EE8311	Electrical Machines Laboratory - I	2017	Experimental Learning
46	EE8411	Electrical Machines Laboratory - II	2017	Experimental Learning
47	EE8461	Linear and Digital Integrated Circuits Laboratory	2017	Experimental Learning
48	EE8412	Technical Seminar	2017	Internship
49	EE8511	Control and Instrumentation Laboratory	2017	Project
50	HS8581	Professional Communication	2017	Experimental Learning
51	CS8383	Object Oriented Programming Laboratory	2017	Experimental Learning
52	EE8661	Power Electronics and Drives Laboratory	2017	Experimental Learning
53	EE8681	Microprocessors and Microcontrollers Laboratory	2017	Project
54	EE8611	Mini Project	2017	Project
55	EE8711	Power System Simulation Laboratory	2017	Experimental Learning
56	EE8712	Renewable Energy Systems Laboratory	2017	Project
57	EE8811	Project Work	2017	Project
<b>Department of Electrical and Communication Engineering</b>				
58	GE8161	Problem Solving and Python Programming Laboratory	2017	Project
59	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
60	EC8261	Circuits and Devices Laboratory	2017	Experimental Learning
61	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
62	EC8381	Fundamentals of Data Structures in C Laboratory	2017	Experimental Learning
63	EC8361	Analog and Digital Circuits Laboratory	2017	Experimental Learning
64	HS8381	Interpersonal Skills/Listening & Speaking	2017	Experimental Learning

  
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65	EC8461	Circuits Design and Simulation Laboratory	2017	Experimental Learning
66	EC8462	Linear Integrated Circuits Laboratory	2017	Experimental Learning
67	EC8562	Digital Signal Processing Laboratory	2017	Experimental Learning
68	EC8561	Communication Systems Laboratory	2017	Project
69	EC8563	Communication Networks Laboratory	2017	Project
70	EC8681	Microprocessors and Microcontrollers Laboratory	2017	Project
71	EC8661	VLSI Design Laboratory	2017	Experimental Learning
72	EC8611	Technical Seminar	2017	Internship
73	HS8581	Professional Communication	2017	Experimental Learning
74	EC8711	Embedded Laboratory	2017	Internship
75	EC8761	Advanced Communication Laboratory	2017	Experimental Learning
76	EC8811	Project Work	2017	Project
<b>Department of Mechanical Engineering</b>				
77	GE8161	Problem Solving and Python Programming Laboratory	2017	Experimental Learning
78	BS8161	Physics and Chemistry Laboratory	2017	Experimental Learning
79	GE8261	Engineering Practices Laboratory	2017	Experimental Learning
80	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2017	Experimental Learning
81	ME8361	Manufacturing Technology Laboratory - I	2017	Internship
82	ME8381	Computer Aided Machine Drawing	2017	Experimental Learning
83	EE8361	Electrical Engineering Laboratory	2017	Experimental Learning
84	HS8381	Interpersonal Skills / Listening & Speaking	2017	Experimental Learning
85	ME8462	Manufacturing Technology Laboratory – II	2017	Internship
86	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	2017	Experimental Learning
87	HS8461	Advanced Reading and Writing	2017	Experimental Learning
88	ME8511	Kinematics and Dynamics Laboratory	2017	Project
89	ME8512	Thermal Engineering Laboratory	2017	Experimental Learning
90	ME8513	Metrology and Measurements Laboratory	2017	Project
91	ME8681	CAD / CAM Laboratory	2017	Project
92	ME8682	Design and Fabrication Project	2017	Project
93	HS8581	Professional Communication	2017	Experimental Learning
94	ME8711	Simulation and Analysis Laboratory	2017	Experimental Learning
95	ME8781	Mechatronics Laboratory	2017	Experimental Learning
96	ME8712	Technical Seminar	2017	Internship
97	ME8811	Project Work	2017	Project

  
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**ANNA UNIVERSITY, CHENNAI  
AFFILIATED INSTITUTIONS**

**R - 2013**

**B. E. CIVIL ENGINEERING**

**I TO VIII SEMESTERS CURRICULUM & SYLLABUS**

**SEMESTER I**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	Technical English - I	3	1	0	4
2.	MA6151	Mathematics - I	3	1	0	4
3.	PH6151	Engineering Physics - I	3	0	0	3
4.	CY6151	Engineering Chemistry - I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
<b>PRACTICAL</b>						
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
<b>TOTAL</b>			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

**SEMESTER II**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	Technical English - II	3	1	0	4
2.	MA6251	Mathematics - II	3	1	0	4
3.	PH6251	Engineering Physics - II	3	0	0	3
4.	CY6251	Engineering Chemistry - II	3	0	0	3
5.	GE6252	Basic Electrical and Electronics Engineering	4	0	0	4
6.	GE6253	Engineering Mechanics	3	1	0	4
<b>PRACTICAL</b>						
7.	GE6261	Computer Aided Drafting and Modeling Laboratory	0	1	2	2
8.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
<b>TOTAL</b>			<b>19</b>	<b>4</b>	<b>4</b>	<b>25</b>

**SEMESTER III**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	GE6351	Environmental Science and Engineering	3	0	0	3
3.	CE6301	Engineering Geology	3	0	0	3
4.	CE6302	Mechanics of Solids	3	1	0	4
5.	CE6303	Mechanics of Fluids	3	0	0	3
6.	CE6304	Surveying I	3	0	0	3
<b>PRACTICAL</b>						
7.	CE6311	Survey Practical I	0	0	4	2
8.	CE6312	Computer Aided Building Drawing	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>8</b>	<b>24</b>

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**SEMESTER IV**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6459	Numerical Methods	3	1	0	4
2.	CE6401	Construction Materials	3	0	0	3
3.	CE6402	Strength of Materials	3	1	0	4
4.	CE6403	Applied Hydraulic Engineering	3	1	0	4
5.	CE6404	Surveying II	3	0	0	3
6.	CE6405	Soil Mechanics	3	0	0	3
<b>PRACTICAL</b>						
7.	CE6411	Strength of Materials Laboratory	0	0	3	2
8.	CE6412	Hydraulic Engineering Laboratory	0	0	3	2
9.	CE6413	Survey Practical II	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>3</b>	<b>10</b>	<b>27</b>

**SEMESTER V**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CE6501	Structural Analysis I	3	1	0	4
2.	CE6502	Foundation Engineering	3	0	0	3
3.	CE6503	Environmental Engineering I	3	0	0	3
4.	CE6504	Highway Engineering	3	0	0	3
5.	CE6505	Design of Reinforced Concrete Elements	3	0	0	3
6.	CE6506	Construction Techniques, Equipment and Practice	3	0	0	3
<b>PRACTICAL</b>						
7.	GE6674	Communication and Soft skills- Laboratory Based	0	0	4	2
8.	CE6511	Soil Mechanics Laboratory	0	0	4	2
9.	CE6512	Survey Camp*	-	-	-	1
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>8</b>	<b>24</b>

\* Survey Camp to be conducted for a period of 2 weeks during 4<sup>th</sup> Semester Summer Vacation

**SEMESTER VI**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CE6601	Design of Reinforced Concrete & Brick Masonry Structures	3	0	0	3
2.	CE6602	Structural Analysis II	3	1	0	4
3.	CE6603	Design of Steel Structures	3	1	0	4
4.	CE6604	Railways, Airports and Harbour Engineering	3	0	0	3
5.	CE6605	Environmental Engineering II	3	0	0	3
6.		Elective I	3	0	0	3
<b>PRACTICAL</b>						
7.	CE6611	Environmental Engineering Laboratory	0	0	3	2
8.	CE6612	Concrete and Highway Engineering Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>6</b>	<b>24</b>

  
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PUDUKKOTTAI - 622 507**

### SEMESTER VII

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CE6701	Structural Dynamics and Earthquake Engineering	3	0	0	3
2.	CE6702	Prestressed Concrete Structures	3	0	0	3
3.	CE6703	Water Resources and Irrigation Engineering	3	0	0	3
4.	CE6704	Estimation and Quantity Surveying	3	0	0	3
5.		Elective II	3	0	0	3
6.		Elective III	3	0	0	3
<b>PRACTICAL</b>						
7.	CE6711	Computer Aided Design and Drafting Laboratory	0	0	4	2
8.	CE6712	Design Project	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>8</b>	<b>22</b>

### SEMESTER VIII

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MG6851	Principles of Management	3	0	0	3
2.		Elective IV	3	0	0	3
3.		Elective V	3	0	0	3
<b>PRACTICAL</b>						
4.	CE6811	Project Work	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

**TOTAL NO OF CREDITS: 187**

### LIST OF ELECTIVES


#### ELECTIVE I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	CE6001	Hydrology	3	0	0	3
2.	CE6002	Concrete Technology	3	0	0	3
3.	CE6003	Remote Sensing Techniques and GIS	3	0	0	3
4.	CE6004	Architecture	3	0	0	3
5.	GE6075	Professional Ethics in Engineering	3	0	0	3
6.	CE6005	Construction Planning and Scheduling	3	0	0	3

#### ELECTIVE II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
7.	CE6006	Traffic Engineering and Management	3	0	0	3
8.	CE6007	Housing Planning and Management	3	0	0	3
9.	CE6008	Groundwater Engineering	3	0	0	3
10.	CE6009	Water Resources Systems Analysis	3	0	0	3
11.	CE6010	Pavement Engineering	3	0	0	3

3

  
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**B.E. COMPUTER SCIENCE AND ENGINEERING**  
**I TO VIII SEMESTER CURRICULUM AND SYLLABUS**

**SEMESTER I**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	<u>Technical English – I</u>	3	1	0	4
2.	MA6151	<u>Mathematics – I</u>	3	1	0	4
3.	PH6151	<u>Engineering Physics – I</u>	3	0	0	3
4.	CY6151	<u>Engineering Chemistry – I</u>	3	0	0	3
5.	GE6151	<u>Computer Programming</u>	3	0	0	3
6.	GE6152	<u>Engineering Graphics</u>	2	0	3	4
<b>PRACTICALS</b>						
7.	GE6161	<u>Computer Practices Laboratory</u>	0	0	3	2
8.	GE6162	<u>Engineering Practices Laboratory</u>	0	0	3	2
9.	GE6163	<u>Physics and Chemistry Laboratory - I</u>	0	0	2	1
<b>TOTAL</b>			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

**SEMESTER II**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	<u>Technical English – II</u>	3	1	0	4
2.	MA6251	<u>Mathematics – II</u>	3	1	0	4
3.	PH6251	<u>Engineering Physics – II</u>	3	0	0	3
4.	CY6251	<u>Engineering Chemistry – II</u>	3	0	0	3
5.	CS6201	<u>Digital Principles and System Design</u>	3	0	0	3
6.	CS6202	<u>Programming and Data Structures I</u>	3	0	0	3
<b>PRACTICALS</b>						
7.	GE6262	<u>Physics and Chemistry Laboratory - II</u>	0	0	2	1
8.	CS6211	<u>Digital Laboratory</u>	0	0	3	2
9.	CS6212	<u>Programming and Data Structures Laboratory I</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>8</b>	<b>25</b>

  
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1

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**SEMESTER III**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
2.	CS6301	<u>Programming and Data Structure II</u>	3	0	0	3
3.	CS6302	<u>Database Management Systems</u>	3	0	0	3
4.	CS6303	<u>Computer Architecture</u>	3	0	0	3
5.	CS6304	<u>Analog and Digital Communication</u>	3	0	0	3
6.	GE6351	<u>Environmental Science and Engineering</u>	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6311	<u>Programming and Data Structure Laboratory II</u>	0	0	3	2
8.	CS6312	<u>Database Management Systems Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>6</b>	<b>23</b>

**SEMESTER IV**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6453	<u>Probability and Queueing Theory</u>	3	1	0	4
2.	CS6551	<u>Computer Networks</u>	3	0	0	3
3.	CS6401	<u>Operating Systems</u>	3	0	0	3
4.	CS6402	<u>Design and Analysis of Algorithms</u>	3	0	0	3
5.	EC6504	<u>Microprocessor and Microcontroller</u>	3	0	0	3
6.	CS6403	<u>Software Engineering</u>	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6411	<u>Networks Laboratory</u>	0	0	3	2
8.	CS6412	<u>Microprocessor and Microcontroller Laboratory</u>	0	0	3	2
9.	CS6413	<u>Operating Systems Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>9</b>	<b>25</b>

  
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**SEMESTER V**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6566	<u>Discrete Mathematics</u>	3	1	0	4
2.	CS6501	<u>Internet Programming</u>	3	1	0	4
3.	CS6502	<u>Object Oriented Analysis and Design</u>	3	0	0	3
4.	CS6503	<u>Theory of Computation</u>	3	0	0	3
5.	CS6504	<u>Computer Graphics</u>	3	0	0	3
<b>PRACTICAL</b>						
6.	CS6511	<u>Case Tools Laboratory</u>	0	0	3	2
7.	CS6512	<u>Internet Programming Laboratory</u>	0	0	3	2
8.	CS6513	<u>Computer Graphics Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>15</b>	<b>2</b>	<b>9</b>	<b>23</b>

**SEMESTER VI**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6601	<u>Distributed Systems</u>	3	0	0	3
2.	IT6601	<u>Mobile Computing</u>	3	0	0	3
3.	CS6660	<u>Compiler Design</u>	3	0	0	3
4.	IT6502	<u>Digital Signal Processing</u>	3	1	0	4
5.	CS6659	<u>Artificial Intelligence</u>	3	0	0	3
6.		Elective I	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6611	<u>Mobile Application Development Laboratory</u>	0	0	3	2
8.	CS6612	<u>Compiler Laboratory</u>	0	0	3	2
9.	GE6674	<u>Communication and Soft Skills - Laboratory Based</u>	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>10</b>	<b>25</b>

  
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**SEMESTER VII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6701	<u>Cryptography and Network Security</u>	3	0	0	3
2.	CS6702	<u>Graph Theory and Applications</u>	3	0	0	3
3.	CS6703	<u>Grid and Cloud Computing</u>	3	0	0	3
4.	CS6704	<u>Resource Management Techniques</u>	3	0	0	3
5.		Elective II	3	0	0	3
6.		Elective III	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6711	<u>Security Laboratory</u>	0	0	3	2
8.	CS6712	<u>Grid and Cloud Computing Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>6</b>	<b>22</b>

**SEMESTER VIII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	CS6801	<u>Multi – Core Architectures and Programming</u>	3	0	0	3
2.		Elective IV	3	0	0	3
3.		Elective V	3	0	0	3
<b>PRACTICAL</b>						
4.	CS6811	<u>Project Work</u>	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

TOTAL NO. OF CREDITS: 184

**LIST OF ELECTIVES**

**SEMESTER VI – Elective I**

S.NO.	CODE NO.	COURSE TITLE	L	T	P	C
1.	CS6001	<u>C# and .Net programming</u>	3	0	0	3
2.	GE6757	<u>Total Quality Management</u>	3	0	0	3
3.	IT6702	<u>Data Warehousing and Data Mining</u>	3	0	0	3
4.	CS6002	<u>Network Analysis and Management</u>	3	0	0	3
5.	IT6004	<u>Software Testing</u>	3	0	0	3
6.	GE6084	Human Rights	3	0	0	3

ANNA UNIVERSITY, CHENNAI

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B. E. ELECTRICAL AND ELECTRONICS ENGINEERING

I TO VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	Technical English - I	3	1	0	4
2.	MA6151	Mathematics - I	3	1	0	4
3.	PH6151	Engineering Physics - I	3	0	0	3
4.	CY6151	Engineering Chemistry - I	3	0	0	3
5.	GE6151	Computer Programming	3	0	0	3
6.	GE6152	Engineering Graphics	2	0	3	4
<b>PRACTICAL</b>						
7.	GE6161	Computer Practices Laboratory	0	0	3	2
8.	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

SEMESTER II

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	Technical English - II	3	1	0	4
2.	MA6251	Mathematics - II	3	1	0	4
3.	PH6251	Engineering Physics - II	3	0	0	3
4.	CY6251	Engineering Chemistry - II	3	0	0	3
5.	GE6251	Basic Civil and Mechanical Engineering	4	0	0	4
6.	EE6201	Circuit Theory	3	1	0	4
<b>PRACTICAL</b>						
7.	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
8.	GE6263	Computer Programming Laboratory	0	1	2	2
9.	EE6211	Electric Circuits Laboratory	0	0	3	2
<b>TOTAL</b>			<b>19</b>	<b>4</b>	<b>7</b>	<b>27</b>

  
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PUDUKKOTTAI - 622 507**

**SEMESTER III**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	EE6301	Digital Logic Circuits	3	1	0	4
3.	EE6302	Electromagnetic Theory	3	1	0	4
4.	GE6351	Environmental Science and Engineering	3	0	0	3
5.	EC6202	Electronic Devices and Circuits	3	1	0	4
6.	EE6303	Linear Integrated Circuits and Applications	3	0	0	3
<b>PRACTICAL</b>						
7.	EC6361	Electronics Laboratory	0	0	3	2
8.	EE6311	Linear and Digital Integrated Circuits Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>4</b>	<b>6</b>	<b>26</b>

**SEMESTER IV**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6459	Numerical Methods	3	1	0	4
2.	EE6401	Electrical Machines - I	3	1	0	4
3.	CS6456	Object Oriented Programming	3	0	0	3
4.	EE6402	Transmission and Distribution	3	0	0	3
5.	EE6403	Discrete Time Systems and Signal Processing	3	0	0	3
6.	EE6404	Measurements and Instrumentation	3	0	0	3
<b>PRACTICAL</b>						
7.	CS6461	Object Oriented Programming Laboratory	0	0	3	2
8.	EE6411	Electrical Machines Laboratory - I	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>6</b>	<b>24</b>

**SEMESTER V**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EE6501	Power System Analysis	3	0	0	3
2.	EE6502	Microprocessors and Microcontrollers	3	0	0	3
3.	ME6701	Power Plant Engineering	3	0	0	3
4.	EE6503	Power Electronics	3	0	0	3
5.	EE6504	Electrical Machines - II	3	1	0	4
6.	IC6501	Control Systems	3	1	0	4
<b>PRACTICAL</b>						
7.	EE6511	Control and Instrumentation Laboratory	0	0	3	2
8.	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
9.	EE6512	Electrical Machines Laboratory - II	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>10</b>	<b>26</b>

**SEMESTER VI**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EC6051	Communication Engineering	3	0	0	3
2.	EE6601	Solid State Drives	3	0	0	3
3.	EE6602	Embedded Systems	3	0	0	3
4.	EE6603	Power System Operation and Control	3	0	0	3
5.	EE6604	Design of Electrical Machines	3	1	0	4
6.		Elective - I	3	0	0	3
<b>PRACTICAL</b>						
7.	EE6611	Power Electronics and Drives Laboratory	0	0	3	2
8.	EE6612	Microprocessors and Microcontrollers Laboratory	0	0	3	2
9.	EE6613	Presentation Skills and Technical Seminar	0	0	2	1
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>8</b>	<b>24</b>

**SEMESTER VII**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EE6701	High Voltage Engineering	3	0	0	3
2.	EE6702	Protection and Switchgear	3	0	0	3
3.	EE6703	Special Electrical Machines	3	0	0	3
4.	MG6851	Principles of Management	3	0	0	3
5.		Elective – II	3	0	0	3
6.		Elective – III	3	0	0	3
<b>PRACTICAL</b>						
7.	EE6711	Power System Simulation Laboratory	0	0	3	2
8.	EE6712	Comprehension	0	0	2	1
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>5</b>	<b>21</b>

**SEMESTER VIII**

S.NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EE6801	Electric Energy Generation, Utilization and Conservation	3	0	0	3
2.		Elective – IV	3	0	0	3
3.		Elective – V	3	0	0	3
<b>PRACTICAL</b>						
4.	EE6811	Project Work	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

TOTAL CREDITS: 189

  
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**CHENDHURAN COLLEGE OF**  
**ENGINEERING AND TECHNOLOGY**  
**PUDUKKOTTAI - 622 507**

ANNA UNIVERSITY, CHENNAI  
AFFILIATED INSTITUTIONS

R-2013

**B.E. ELECTRONICS AND COMMUNICATION ENGINEERING**

I – VIII SEMESTERS CURRICULUM AND SYLLABUS

SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	<u>Technical English – I</u>	3	1	0	4
2.	MA6151	<u>Mathematics – I</u>	3	1	0	4
3.	PH6151	<u>Engineering Physics – I</u>	3	0	0	3
4.	CY6151	<u>Engineering Chemistry – I</u>	3	0	0	3
5.	GE6151	<u>Computer Programming</u>	3	0	0	3
6.	GE6152	<u>Engineering Graphics</u>	2	0	3	4
<b>PRACTICALS</b>						
7.	GE6161	<u>Computer Practices Laboratory</u>	0	0	3	2
8.	GE6162	<u>Engineering Practices Laboratory</u>	0	0	3	2
9.	GE6163	<u>Physics and Chemistry Laboratory - I</u>	0	0	2	1
<b>TOTAL</b>			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

SEMESTER II

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	<u>Technical English – II</u>	3	1	0	4
2.	MA6251	<u>Mathematics – II</u>	3	1	0	4
3.	PH6251	<u>Engineering Physics – II</u>	3	0	0	3
4.	CY6251	<u>Engineering Chemistry – II</u>	3	0	0	3
5.	EC6201	<u>Electronic Devices</u>	3	0	0	3
6.	EE6201	<u>Circuit Theory</u>	3	1	0	4
<b>PRACTICALS</b>						
7.	GE6262	<u>Physics and Chemistry Laboratory - II</u>	0	0	2	1
8.	EC6211	<u>Circuits and Devices Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>3</b>	<b>5</b>	<b>24</b>

**SEMESTER III**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
2.	EE6352	<u>Electrical Engineering and Instrumentation</u>	3	1	0	4
3.	EC6301	<u>Object Oriented Programming and Data Structures</u>	3	0	0	3
4.	EC6302	<u>Digital Electronics</u>	3	0	0	3
5.	EC6303	<u>Signals and Systems</u>	3	1	0	4
6.	EC6304	<u>Electronic Circuits- I</u>	3	1	0	4
<b>PRACTICAL</b>						
7.	EC6311	<u>Analog and Digital Circuits Laboratory</u>	0	0	3	2
8.	EC6312	<u>OOPS and Data Structures Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>4</b>	<b>6</b>	<b>26</b>

**SEMESTER IV**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6451	<u>Probability and Random Processes</u>	3	1	0	4
2.	EC6401	<u>Electronic Circuits II</u>	3	0	0	3
3.	EC6402	<u>Communication Theory</u>	3	0	0	3
4.	EC6403	<u>Electromagnetic Fields</u>	3	1	0	4
5.	EC6404	<u>Linear Integrated Circuits</u>	3	0	0	3
6.	EC6405	<u>Control System Engineering</u>	3	0	0	3
<b>PRACTICAL</b>						
7.	EC6411	<u>Circuit and Simulation Integrated Laboratory</u>	0	0	3	2
8.	EC6412	<u>Linear Integrated Circuit Laboratory</u>	0	0	3	2
9.	EE6461	<u>Electrical Engineering and Control System Laboratory</u>	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>9</b>	<b>26</b>

  
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**SEMESTER V**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EC6501	<u>Digital Communication</u>	3	0	0	3
2.	EC6502	<u>Principles of Digital Signal Processing</u>	3	1	0	4
3.	EC6503	<u>Transmission Lines and Wave Guides</u>	3	1	0	4
4.	GE6351	<u>Environmental Science and Engineering</u>	3	0	0	3
5.	EC6504	<u>Microprocessor and Microcontroller</u>	3	0	0	3
<b>PRACTICAL</b>						
6.	EC6511	<u>Digital Signal Processing Laboratory</u>	0	0	3	2
7.	EC6512	<u>Communication System Laboratory</u>	0	0	3	2
8.	EC6513	<u>Microprocessor and Microcontroller Laboratory</u>	0	0	3	2
		<b>TOTAL</b>	<b>15</b>	<b>2</b>	<b>9</b>	<b>23</b>

**SEMESTER VI**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MG6851	<u>Principles of Management</u>	3	0	0	3
2.	CS6303	<u>Computer Architecture</u>	3	0	0	3
3.	CS6551	<u>Computer Networks</u>	3	0	0	3
4.	EC6601	<u>VLSI Design</u>	3	0	0	3
5.	EC6602	<u>Antenna and Wave propagation</u>	3	0	0	3
6.		Elective I	3	0	0	3
<b>PRACTICAL</b>						
7.	EC6611	<u>Computer Networks Laboratory</u>	0	0	3	2
8.	EC6612	<u>VLSI Design Laboratory</u>	0	0	3	2
9.	GE6674	<u>Communication and Soft Skills - Laboratory Based</u>	0	0	4	2
		<b>TOTAL</b>	<b>18</b>	<b>0</b>	<b>10</b>	<b>24</b>

  
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**SEMESTER VII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EC6701	<u>RF and Microwave Engineering</u>	3	0	0	3
2.	EC6702	<u>Optical Communication and Networks</u>	3	0	0	3
3.	EC6703	<u>Embedded and Real Time Systems</u>	3	0	0	3
4.		Elective II	3	0	0	3
5.		Elective III	3	0	0	3
6.		Elective IV	3	0	0	3
<b>PRACTICAL</b>						
7.	EC6711	<u>Embedded Laboratory</u>	0	0	3	2
8.	EC6712	<u>Optical and Microwave Laboratory</u>	0	0	3	2
		<b>TOTAL</b>	<b>18</b>	<b>0</b>	<b>6</b>	<b>22</b>

**SEMESTER VIII**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	EC6801	<u>Wireless Communication</u>	3	0	0	3
2.	EC6802	<u>Wireless Networks</u>	3	0	0	3
3.		Elective V	3	0	0	3
4.		Elective VI	3	0	0	3
<b>PRACTICAL</b>						
5.	EC6811	<u>Project Work</u>	0	0	12	6
		<b>TOTAL</b>	<b>12</b>	<b>0</b>	<b>12</b>	<b>18</b>

**TOTAL CREDITS:189**

**SEMESTER VI**

**ELECTIVE – I**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	EC6001	<u>Medical Electronics</u>	3	0	0	3
2.	EC6002	<u>Advanced Digital Signal Processing</u>	3	0	0	3
3.	CS6401	<u>Operating Systems</u>	3	0	0	3
4.	EC6003	<u>Robotics and Automation</u>	3	0	0	3



**ANNA UNIVERSITY, CHENNAI**  
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**R - 2013**

**B.E. MECHANICAL ENGINEERING**

**I – VIII SEMESTERS CURRICULUM AND SYLLABUS**

**SEMESTER I**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6151	<u>Technical English – I</u>	3	1	0	4
2.	MA6151	<u>Mathematics – I</u>	3	1	0	4
3.	PH6151	<u>Engineering Physics – I</u>	3	0	0	3
4.	CY6151	<u>Engineering Chemistry – I</u>	3	0	0	3
5.	GE6151	<u>Computer Programming</u>	3	0	0	3
6.	GE6152	<u>Engineering Graphics</u>	2	0	3	4
<b>PRACTICALS</b>						
7.	GE6161	<u>Computer Practices Laboratory</u>	0	0	3	2
8.	GE6162	<u>Engineering Practices Laboratory</u>	0	0	3	2
9.	GE6163	<u>Physics and Chemistry Laboratory - I</u>	0	0	2	1
<b>TOTAL</b>			<b>17</b>	<b>2</b>	<b>11</b>	<b>26</b>

**SEMESTER II**

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS6251	<u>Technical English – II</u>	3	1	0	4
2.	MA6251	<u>Mathematics – II</u>	3	1	0	4
3.	PH6251	<u>Engineering Physics – II</u>	3	0	0	3
4.	CY6251	<u>Engineering Chemistry – II</u>	3	0	0	3
5.	GE6252	<u>Basic Electrical and Electronics Engineering</u>	4	0	0	4
6.	GE6253	<u>Engineering Mechanics</u>	3	1	0	4
<b>PRACTICALS</b>						
7.	GE6261	<u>Computer Aided Drafting and Modeling Laboratory</u>	0	1	2	2
8.	GE6262	<u>Physics and Chemistry Laboratory - II</u>	0	0	2	1
<b>TOTAL</b>			<b>19</b>	<b>4</b>	<b>4</b>	<b>25</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	CE6306	Strength of Materials	3	1	0	4
3.	ME6301	Engineering Thermodynamics	3	0	0	3
4.	CE6451	Fluid Mechanics and Machinery	3	0	0	3
5.	ME6302	Manufacturing Technology - I	3	0	0	3
6.	EE6351	Electrical Drives and Controls	3	0	0	3
<b>PRACTICAL</b>						
7.	ME6311	Manufacturing Technology Laboratory - I	0	0	3	2
8.	CE6461	Fluid Mechanics and Machinery Laboratory	0	0	3	2
9.	EE6365	Electrical Engineering Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>2</b>	<b>9</b>	<b>26</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MA6452	Statistics and Numerical Methods	3	1	0	4
2.	ME6401	Kinematics of Machinery	3	0	0	3
3.	ME6402	Manufacturing Technology- II	3	0	0	3
4.	ME6403	Engineering Materials and Metallurgy	3	0	0	3
5.	GE6351	Environmental Science and Engineering	3	0	0	3
6.	ME6404	Thermal Engineering	3	0	0	3
<b>PRACTICAL</b>						
7.	ME6411	Manufacturing Technology Laboratory-II	0	0	3	2
8.	ME6412	Thermal Engineering Laboratory - I	0	0	3	2
9.	CE6315	Strength of Materials Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>1</b>	<b>9</b>	<b>25</b>

  
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**PUDUKKOTTAI - 622 507**

**SEMESTER V**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	ME6501	Computer Aided Design	3	0	0	3
2.	ME6502	Heat and Mass Transfer	3	0	0	3
3.	ME6503	Design of Machine Elements	3	0	0	3
4.	ME6504	Metrology and Measurements	3	0	0	3
5.	ME6505	Dynamics of Machines	3	0	0	3
6.	GE6075	Professional Ethics in Engineering	3	0	0	3
<b>PRACTICAL</b>						
7.	ME6511	Dynamics Laboratory	0	0	3	2
8.	ME6512	Thermal Engineering Laboratory-II	0	0	3	2
9.	ME6513	Metrology and Measurements Laboratory	0	0	3	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>9</b>	<b>24</b>

**SEMESTER VI**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	ME6601	Design of Transmission Systems	3	0	0	3
2.	MG6851	Principles of Management	3	0	0	3
3.	ME6602	Automobile Engineering	3	0	0	3
4.	ME6603	Finite Element Analysis	3	0	0	3
5.	ME6604	Gas Dynamics and Jet Propulsion	3	0	0	3
6.		Elective - I	3	0	0	3
<b>PRACTICAL</b>						
7.	ME6611	C.A.D. / C.A.M. Laboratory	0	0	3	2
8.	ME6612	Design and Fabrication Project	0	0	4	2
9.	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>11</b>	<b>24</b>

**SEMESTER VII**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	ME6701	Power Plant Engineering	3	0	0	3
2.	ME6702	Mechatronics	3	0	0	3
3.	ME6703	Computer Integrated Manufacturing Systems	3	0	0	3
4.	GE6757	Total Quality Management	3	0	0	3
5.		Elective – II	3	0	0	3
6.		Elective – III	3	0	0	3
<b>PRACTICAL</b>						
7.	ME6711	Simulation and Analysis Laboratory	0	0	3	2
8.	ME6712	Mechatronics Laboratory	0	0	3	2
9.	ME6713	Comprehension	0	0	2	1
<b>TOTAL</b>			<b>18</b>	<b>0</b>	<b>8</b>	<b>23</b>

**SEMESTER VIII**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	MG6863	Engineering Economics	3	0	0	3
2.		Elective – IV	3	0	0	3
3.		Elective – V	3	0	0	3
<b>PRACTICAL</b>						
4.	ME6811	Project Work	0	0	12	6
<b>TOTAL</b>			<b>9</b>	<b>0</b>	<b>12</b>	<b>15</b>

TOTAL NUMBER OF CREDITS TO BE EARNED FOR AWARD OF THE DEGREE = 188

**ELECTIVES FOR B.E. MECHANICAL ENGINEERING**

**SEMESTER VI**

**Elective I**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	MG6072	Marketing Management	3	0	0	3
2.	ME6001	Quality Control and Reliability Engineering	3	0	0	3
3.	ME6002	Refrigeration and Air conditioning	3	0	0	3
4.	ME6003	Renewable Sources of Energy	3	0	0	3
5.	ME6004	Unconventional Machining Processes	3	0	0	3

**SEMESTER VII**

**Elective II**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ME6005	Process Planning and Cost Estimation	3	0	0	3
2.	ME6006	Design of Jigs, Fixtures and Press Tools	3	0	0	3
3.	ME6007	Composite Materials and Mechanics	3	0	0	3
4.	ME6008	Welding Technology	3	0	0	3
5.	ME6009	Energy Conservation and Management	3	0	0	3
6.	GE6083	Disaster Management	3	0	0	3

**Elective III**

SL. NO.	COURSE CODE	COURSE TITLE	L	T	P	C
1.	ME6010	Robotics	3	0	0	3
2.	GE6081	Fundamentals of Nanoscience	3	0	0	3
3.	ME6011	Thermal Turbo Machines	3	0	0	3
4.	ME6012	Maintenance Engineering	3	0	0	3
5.	EE6007	Micro Electro Mechanical Systems	3	0	0	3
6.	ME6021	Hydraulics and Pneumatics	3	0	0	3

ANNA UNIVERSITY, CHENNAI  
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**B.E. CIVIL ENGINEERING**  
**REGULATIONS - 2017**  
 CHOICE BASED CREDIT SYSTEM  
 I TO VIII SEMESTERS CURRICULA & SYLLABI  
 SEMESTER I

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
<b>PRACTICALS</b>								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER II**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8201	Physics For Civil Engineering	BS	3	3	0	0	3
4.	BE8251	Basic Electrical and Electronics Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
<b>PRACTICALS</b>								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	CE8211	Computer Aided Building Drawing	PC	4	0	0	4	2
<b>TOTAL</b>				<b>30</b>	<b>20</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER III**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	CE8301	Strength of Materials I	PC	3	3	0	0	3
3.	CE8302	Fluid Mechanics	PC	3	3	0	0	3
4.	CE8351	Surveying	PC	3	3	0	0	3
5.	CE8391	Construction Materials	PC	3	3	0	0	3
6.	CE8392	Engineering Geology	ES	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CE8311	Construction Materials Laboratory	PC	4	0	0	4	2
8.	CE8361	Surveying Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills / Listening and Speaking	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>29</b>	<b>19</b>	<b>0</b>	<b>10</b>	<b>24</b>

**SEMESTER IV**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	CE8401	Construction Techniques and Practices	PC	3	3	0	0	3
3.	CE8402	Strength of Materials II	PC	3	3	0	0	3
4.	CE8403	Applied Hydraulic Engineering	PC	3	3	0	0	3
5.	CE8404	Concrete Technology	PC	3	3	0	0	3
6.	CE8491	Soil Mechanics	PC	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CE8481	Strength of Materials Laboratory	PC	4	0	0	4	2
8.	CE8461	Hydraulic Engineering Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>29</b>	<b>19</b>	<b>0</b>	<b>10</b>	<b>24</b>

  
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**SEMESTER V**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	CE8501	Design of Reinforced Cement Concrete Elements	PC	5	3	2	0	4
2.	CE8502	Structural Analysis I	PC	3	3	0	0	3
3.	EN8491	Water Supply Engineering	PC	3	3	0	0	3
4.	CE8591	Foundation Engineering	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		Open Elective I*	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CE8511	Soil Mechanics Laboratory	PC	4	0	0	4	2
8.	CE8512	Water and Waste Water Analysis Laboratory	PC	4	0	0	4	2
9.	CE8513	Survey Camp (2 weeks –During IV Semester)	EEC	0	0	0	0	2
<b>TOTAL</b>				<b>28</b>	<b>18</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER VI**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	CE8601	Design of Steel Structural Elements	PC	5	3	2	0	4
2.	CE8602	Structural Analysis II	PC	3	3	0	0	3
3.	CE8603	Irrigation Engineering	PC	3	3	0	0	3
4.	CE8604	Highway Engineering	PC	3	3	0	0	3
5.	EN8592	Wastewater Engineering	PC	3	3	0	0	3
6.		Professional Elective II	PE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CE8611	Highway Engineering Laboratory	PC	4	0	0	4	2
8.	CE8612	Irrigation and Environmental Engineering Drawing	PC	4	0	0	4	2
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>24</b>

**SEMESTER VII**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	CE8701	Estimation, Costing and Valuation Engineering	PC	3	3	0	0	3
2.	CE8702	Railways, Airports, Docks and Harbour Engineering	PC	3	3	0	0	3
3.	CE8703	Structural Design and Drawing	PC	5	3	0	2	4
4.		Professional Elective III	PE	3	3	0	0	3
5.		Open Elective II*	OE	3	3	0	0	3
<b>PRACTICALS</b>								
6.	CE8711	Creative and Innovative Project (Activity Based - Subject Related)	EEC	4	0	0	4	2
7.	CE8712	Industrial Training (4 weeks During VI Semester – Summer)	EEC	0	0	0	0	2
<b>TOTAL</b>				<b>21</b>	<b>15</b>	<b>0</b>	<b>6</b>	<b>20</b>

**SEMESTER VIII**

S.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
<b>PRACTICALS</b>								
3.	CE8811	Project Work	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>26</b>	<b>6</b>	<b>0</b>	<b>20</b>	<b>16</b>

**TOTAL NO. OF CREDITS: 183**

\*Course from the curriculum of other UG Programmes.

  
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 I - VIII SEMESTERS CURRICULA AND SYLLABI

**SEMESTER I**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
<b>PRACTICALS</b>								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER II**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8252	Physics for Information Science	BS	3	3	0	0	3
4.	BE8255	Basic Electrical, Electronics and Measurement Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	CS8251	Programming in C	PC	3	3	0	0	3
<b>PRACTICALS</b>								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	CS8261	C Programming Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>28</b>	<b>20</b>	<b>0</b>	<b>8</b>	<b>24</b>



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**SEMESTER III**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8351	Discrete Mathematics	BS	4	4	0	0	4
2.	CS8351	Digital Principles and System Design	ES	4	4	0	0	4
3.	CS8391	Data Structures	PC	3	3	0	0	3
4.	CS8392	Object Oriented Programming	PC	3	3	0	0	3
5.	EC8395	Communication Engineering	ES	3	3	0	0	3
<b>PRACTICALS</b>								
6.	CS8381	Data Structures Laboratory	PC	4	0	0	4	2
7.	CS8383	Object Oriented Programming Laboratory	PC	4	0	0	4	2
8.	CS8382	Digital Systems Laboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>31</b>	<b>17</b>	<b>0</b>	<b>14</b>	<b>24</b>

**SEMESTER IV**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8402	Probability and Queueing Theory	BS	4	4	0	0	4
2.	CS8491	Computer Architecture	PC	3	3	0	0	3
3.	CS8492	Database Management Systems	PC	3	3	0	0	3
4.	CS8451	Design and Analysis of Algorithms	PC	3	3	0	0	3
5.	CS8493	Operating Systems	PC	3	3	0	0	3
6.	CS8494	Software Engineering	PC	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CS8481	Database Management Systems Laboratory	PC	4	0	0	4	2
8.	CS8461	Operating Systems Laboratory	PC	4	0	0	4	2
9.	HS8461	Advanced Reading and Writing	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>29</b>	<b>19</b>	<b>0</b>	<b>10</b>	<b>24</b>

  
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**SEMESTER V**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8551	Algebra and Number Theory	BS	4	4	0	0	4
2.	CS8591	Computer Networks	PC	3	3	0	0	3
3.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
4.	CS8501	Theory of Computation	PC	3	3	0	0	3
5.	CS8592	Object Oriented Analysis and Design	PC	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	CS8582	Object Oriented Analysis and Design Laboratory	PC	4	0	0	4	2
9.	CS8581	Networks Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER VI**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	CS8651	Internet Programming	PC	3	3	0	0	3
2.	CS8691	Artificial Intelligence	PC	3	3	0	0	3
3.	CS8601	Mobile Computing	PC	3	3	0	0	3
4.	CS8602	Compiler Design	PC	5	3	0	2	4
5.	CS8603	Distributed Systems	PC	3	3	0	0	3
6.		Professional Elective I	PE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CS8661	Internet Programming Laboratory	PC	4	0	0	4	2
8.	CS8662	Mobile Application Development Laboratory	PC	4	0	0	4	2
9.	CS8611	Mini Project	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>18</b>	<b>0</b>	<b>12</b>	<b>24</b>

  
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**SEMESTER VII**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MG8591	Principles of Management	HS	3	3	0	0	3
2.	CS8792	Cryptography and Network Security	PC	3	3	0	0	3
3.	CS8791	Cloud Computing	PC	3	3	0	0	3
4.		Open Elective II	OE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
6.		Professional Elective III	PE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	CS8711	Cloud Computing Laboratory	PC	4	0	0	4	2
8.	IT8761	Security Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>26</b>	<b>18</b>	<b>0</b>	<b>8</b>	<b>22</b>

**SEMESTER VIII**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
<b>PRACTICALS</b>								
3.	CS8811	Project Work	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>26</b>	<b>6</b>	<b>0</b>	<b>20</b>	<b>16</b>

**TOTAL NO. OF CREDITS: 184**

  
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ANNA UNIVERSITY, CHENNAI  
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**REGULATIONS – 2017**  
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 I TO VIII SEMESTERS CURRICULA & SYLLABI

**SEMESTER I**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
<b>PRACTICALS</b>								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER II**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
4.	BE8252	Basic Civil and Mechanical Engineering	ES	4	4	0	0	4
5.	EE8251	Circuit Theory	PC	4	2	2	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
<b>PRACTICALS</b>								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	EE8261	Electric Circuits Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>30</b>	<b>20</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER III**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	EE8351	Digital Logic Circuits	PC	4	2	2	0	3
3.	EE8391	Electromagnetic Theory	PC	4	2	2	0	3
4.	EE8301	Electrical Machines - I	PC	4	2	2	0	3
5.	EC8353	Electron Devices and Circuits	ES	3	3	0	0	3
6.	ME8792	Power Plant Engineering	ES	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8311	Electronics Laboratory	ES	4	0	0	4	2
8.	EE8311	Electrical Machines Laboratory - I	PC	4	0	0	4	2
<b>TOTAL</b>				<b>30</b>	<b>16</b>	<b>6</b>	<b>8</b>	<b>23</b>

**SEMESTER IV**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8491	Numerical Methods	BS	4	4	0	0	4
2.	EE8401	Electrical Machines - II	PC	4	2	2	0	3
3.	EE8402	Transmission and Distribution	PC	3	3	0	0	3
4.	EE8403	Measurements and Instrumentation	PC	3	3	0	0	3
5.	EE8451	Linear Integrated Circuits and Applications	PC	3	3	0	0	3
6.	IC8451	Control Systems	PC	5	3	2	0	4
<b>PRACTICALS</b>								
7.	EE8411	Electrical Machines Laboratory - II	PC	4	0	0	4	2
8.	EE8461	Linear and Digital Integrated Circuits Laboratory	PC	4	0	0	4	2
9.	EE8412	Technical Seminar	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>32</b>	<b>18</b>	<b>4</b>	<b>10</b>	<b>25</b>

  
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**PUDUKKOTTAI - 622 507**

**SEMESTER V**

S.N.O.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EE8501	Power System Analysis	PC	3	3	0	0	3
2.	EE8551	Microprocessors and Microcontrollers	PC	3	3	0	0	3
3.	EE8552	Power Electronics	PC	3	3	0	0	3
4.	EE8591	Digital Signal Processing	PC	4	2	2	0	3
5.	CS8392	Object Oriented Programming	ES	3	3	0	0	3
6.		Open Elective I*	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EE8511	Control and Instrumentation Laboratory	PC	4	0	0	4	2
8.	HS8581	Professional Communication	EEC	2	0	0	2	1
9.	CS8383	Object Oriented Programming Laboratory	ES	4	0	0	4	2
<b>TOTAL</b>				<b>29</b>	<b>17</b>	<b>2</b>	<b>10</b>	<b>23</b>

**SEMESTER VI**

S.N O.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EE8601	Solid State Drives	PC	3	3	0	0	3
2.	EE8602	Protection and Switchgear	PC	3	3	0	0	3
3.	EE8691	Embedded Systems	ES	3	3	0	0	3
4.		Professional Elective I	PE	3	3	0	0	3
5.		Professional Elective II	PE	3	3	0	0	3
<b>PRACTICALS</b>								
6.	EE8661	Power Electronics and Drives Laboratory	PC	4	0	0	4	2
7.	EE8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	EE8611	Mini Project	EEC	4	0	0	4	2
<b>TOTAL</b>				<b>27</b>	<b>15</b>	<b>0</b>	<b>12</b>	<b>21</b>

**SEMESTER VII**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EE8701	High Voltage Engineering	PC	3	3	0	0	3
2.	EE8702	Power System Operation and Control	PC	3	3	0	0	3
3.	EE8703	Renewable Energy Systems	PC	3	3	0	0	3
4.		Open Elective II*	OE	3	3	0	0	3
5.		Professional Elective III	PE	3	3	0	0	3
6.		Professional Elective IV	PE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EE8711	Power System Simulation Laboratory	PC	4	0	0	4	2
8.	EE8712	Renewable Energy Systems Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>26</b>	<b>18</b>	<b>0</b>	<b>8</b>	<b>22</b>

**SEMESTER VIII**

S.NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.		Professional Elective V	PE	3	3	0	0	3
2.		Professional Elective VI	PE	3	3	0	0	3
<b>PRACTICALS</b>								
3.	EE8811	Project Work	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>26</b>	<b>6</b>	<b>0</b>	<b>20</b>	<b>16</b>

TOTAL NO. OF CREDITS: 180

\*Course from the curriculum of other UG Programmes.

  
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**REGULATIONS – 2017**  
 CHOICE BASED CREDIT SYSTEM  
 I - VIII SEMESTERS CURRICULA AND SYLLABI

**SEMESTER I**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
<b>PRACTICALS</b>								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER II**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8253	Physics for Electronics Engineering	BS	3	3	0	0	3
4.	BE8254	Basic Electrical and Instrumentation Engineering	ES	3	3	0	0	3
5.	EC8251	Circuit Analysis	PC	4	4	0	0	4
6.	EC8252	Electronic Devices	PC	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8261	Circuits and Devices Laboratory	PC	4	0	0	4	2
8.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
<b>TOTAL</b>				<b>29</b>	<b>21</b>	<b>0</b>	<b>8</b>	<b>25</b>


  
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**PUDUKKOTTAI - 622 507**

**SEMESTER III**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8352	Linear Algebra and Partial Differential Equations	BS	4	4	0	0	4
2.	EC8393	Fundamentals of Data Structures In C	ES	3	3	0	0	3
3.	EC8351	Electronic Circuits- I	PC	3	3	0	0	3
4.	EC8352	Signals and Systems	PC	4	4	0	0	4
5.	EC8392	Digital Electronics	PC	3	3	0	0	3
6.	EC8391	Control Systems Engineering	PC	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8381	Fundamentals of Data Structures in C Laboratory	ES	4	0	0	4	2
8.	EC8361	Analog and Digital Circuits Laboratory	PC	4	0	0	4	2
9.	HS8381	Interpersonal Skills/Listening & Speaking	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>20</b>	<b>0</b>	<b>10</b>	<b>25</b>

**SEMESTER IV**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8451	Probability and Random Processes	BS	4	4	0	0	4
2.	EC8452	Electronic Circuits II	PC	3	3	0	0	3
3.	EC8491	Communication Theory	PC	3	3	0	0	3
4.	EC8451	Electromagnetic Fields	PC	4	4	0	0	4
5.	EC8453	Linear Integrated Circuits	PC	3	3	0	0	3
6.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8461	Circuits Design and Simulation Laboratory	PC	4	0	0	4	2
8.	EC8462	Linear Integrated Circuits Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>28</b>	<b>20</b>	<b>0</b>	<b>8</b>	<b>24</b>

  
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**PUDUKKOTTAI - 622 507**

**SEMESTER V**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EC8501	Digital Communication	PC	3	3	0	0	3
2.	EC8553	Discrete-Time Signal Processing	PC	4	4	0	0	4
3.	EC8552	Computer Architecture and Organization	PC	3	3	0	0	3
4.	EC8551	Communication Networks	PC	3	3	0	0	3
5.		Professional Elective I	PE	3	3	0	0	3
6.		Open Elective I	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8562	Digital Signal Processing Laboratory	PC	4	0	0	4	2
8.	EC8561	Communication Systems Laboratory	PC	4	0	0	4	2
9.	EC8563	Communication Networks Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER VI**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EC8691	Microprocessors and Microcontrollers	PC	3	3	0	0	3
2.	EC8095	VLSI Design	PC	3	3	0	0	3
3.	EC8652	Wireless Communication	PC	3	3	0	0	3
4.	MG8591	Principles of Management	HS	3	3	0	0	3
5.	EC8651	Transmission Lines and RF Systems	PC	3	3	0	0	3
6.		Professional Elective -II	PE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8681	Microprocessors and Microcontrollers Laboratory	PC	4	0	0	4	2
8.	EC8661	VLSI Design Laboratory	PC	4	0	0	4	2
9.	EC8611	Technical Seminar	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>28</b>	<b>18</b>	<b>0</b>	<b>10</b>	<b>23</b>

  
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**KENDHURAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
**PUDUKKOTTAI - 622 507**

**SEMESTER VII**

Sl.No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	EC8701	Antennas and Microwave Engineering	PC	3	3	0	0	3
2.	EC8751	Optical Communication	PC	3	3	0	0	3
3.	EC8791	Embedded and Real Time Systems	PC	3	3	0	0	3
4.	EC8702	Ad hoc and Wireless Sensor Networks	PC	3	3	0	0	3
5.		Professional Elective -III	PE	3	3	0	0	3
6.		Open Elective - II	OE	3	3	0	0	3
<b>PRACTICALS</b>								
7.	EC8711	Embedded Laboratory	PC	4	0	0	4	2
8.	EC8761	Advanced Communication Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>26</b>	<b>18</b>	<b>0</b>	<b>8</b>	<b>22</b>

**SEMESTER VIII**

Sl. No	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.		Professional Elective IV	PE	3	3	0	0	3
2.		Professional Elective V	PE	3	3	0	0	3
<b>PRACTICALS</b>								
3.	EC8811	Project Work	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>26</b>	<b>6</b>	<b>0</b>	<b>20</b>	<b>16</b>

TOTAL NO. OF CREDITS: 185

  
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ANNA UNIVERSITY, CHENNAI  
 AFFILIATED INSTITUTIONS  
**B.E. MECHANICAL ENGINEERING**  
**REGULATIONS - 2017**  
 CHOICE BASED CREDIT SYSTEM  
 I TO VIII SEMESTERS CURRICULA AND SYLLABI

**SEMESTER I**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8151	Communicative English	HS	4	4	0	0	4
2.	MA8151	Engineering Mathematics - I	BS	4	4	0	0	4
3.	PH8151	Engineering Physics	BS	3	3	0	0	3
4.	CY8151	Engineering Chemistry	BS	3	3	0	0	3
5.	GE8151	Problem Solving and Python Programming	ES	3	3	0	0	3
6.	GE8152	Engineering Graphics	ES	6	2	0	4	4
<b>PRACTICALS</b>								
7.	GE8161	Problem Solving and Python Programming Laboratory	ES	4	0	0	4	2
8.	BS8161	Physics and Chemistry Laboratory	BS	4	0	0	4	2
<b>TOTAL</b>				<b>31</b>	<b>19</b>	<b>0</b>	<b>12</b>	<b>25</b>

**SEMESTER II**

SL. NO	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	HS8251	Technical English	HS	4	4	0	0	4
2.	MA8251	Engineering Mathematics - II	BS	4	4	0	0	4
3.	PH8251	Materials Science	BS	3	3	0	0	3
4.	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	ES	3	3	0	0	3
5.	GE8291	Environmental Science and Engineering	HS	3	3	0	0	3
6.	GE8292	Engineering Mechanics	ES	5	3	2	0	4
<b>PRACTICALS</b>								
7.	GE8261	Engineering Practices Laboratory	ES	4	0	0	4	2
8.	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	ES	4	0	0	4	2
<b>TOTAL</b>				<b>30</b>	<b>20</b>	<b>2</b>	<b>8</b>	<b>25</b>

**SEMESTER III**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8353	Transforms and Partial Differential Equations	BS	4	4	0	0	4
2.	ME8391	Engineering Thermodynamics	PC	5	3	2	0	4
3.	CE8394	Fluid Mechanics and Machinery	ES	4	4	0	0	4
4.	ME8351	Manufacturing Technology - I	PC	3	3	0	0	3
5.	EE8353	Electrical Drives and Controls	ES	3	3	0	0	3
<b>PRACTICAL</b>								
6.	ME8361	Manufacturing Technology Laboratory - I	PC	4	0	0	4	2
7.	ME8381	Computer Aided Machine Drawing	PC	4	0	0	4	2
8.	EE8361	Electrical Engineering Laboratory	ES	4	0	0	4	2
9.	HS8381	Interpersonal Skills / Listening & Speaking	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>33</b>	<b>17</b>	<b>2</b>	<b>14</b>	<b>25</b>

**SEMESTER IV**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MA8452	Statistics and Numerical Methods	BS	4	4	0	0	4
2.	ME8492	Kinematics of Machinery	PC	3	3	0	0	3
3.	ME8451	Manufacturing Technology – II	PC	3	3	0	0	3
4.	ME8491	Engineering Metallurgy	PC	3	3	0	0	3
5.	CE8395	Strength of Materials for Mechanical Engineers	ES	3	3	0	0	3
6.	ME8493	Thermal Engineering- I	PC	3	3	0	0	3
<b>PRACTICAL</b>								
7.	ME8462	Manufacturing Technology Laboratory – II	PC	4	0	0	4	2
8.	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory	ES	4	0	0	4	2
9.	HS8401	Advanced Reading and Writing	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>29</b>	<b>19</b>	<b>0</b>	<b>10</b>	<b>24</b>

  
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**HENDHURAN COLLEGE OF**  
**ENGINEERING AND TECHNOLOGY**  
**PUDUKKOTTAI - 622 507**

**SEMESTER V**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ME8595	Thermal Engineering- II	PC	3	3	0	0	3
2.	ME8593	Design of Machine Elements	PC	3	3	0	0	3
3.	ME8501	Metrology and Measurements	PC	3	3	0	0	3
4.	ME8594	Dynamics of Machines	PC	4	4	0	0	4
5.		Open Elective I	OE	3	3	0	0	3
<b>PRACTICAL</b>								
6.	ME8511	Kinematics and Dynamics Laboratory	PC	4	0	0	4	2
7.	ME8512	Thermal Engineering Laboratory	PC	4	0	0	4	2
8.	ME8513	Metrology and Measurements Laboratory	PC	4	0	0	4	2
<b>TOTAL</b>				<b>28</b>	<b>16</b>	<b>0</b>	<b>12</b>	<b>22</b>

**SEMESTER VI**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ME8651	Design of Transmission Systems	PC	3	3	0	0	3
2.	ME8691	Computer Aided Design and Manufacturing	PC	3	3	0	0	3
3.	ME8693	Heat and Mass Transfer	PC	5	3	2	0	4
4.	ME8692	Finite Element Analysis	PC	3	3	0	0	3
5.	ME8694	Hydraulics and Pneumatics	PC	3	3	0	0	3
6.		Professional Elective - I	PE	3	3	0	0	3
<b>PRACTICAL</b>								
7.	ME8681	CAD / CAM Laboratory	PC	4	0	0	4	2
8.	ME8682	Design and Fabrication Project	EEC	4	0	0	4	2
9.	HS8581	Professional Communication	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>30</b>	<b>18</b>	<b>2</b>	<b>10</b>	<b>24</b>

  
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**PUDUKKOTTAI - 622 507**

**SEMESTER VII**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	ME8792	Power Plant Engineering	PC	3	3	0	0	3
2.	ME8793	Process Planning and Cost Estimation	PC	3	3	0	0	3
3.	ME8791	Mechatronics	PC	3	3	0	0	3
4.		Open Elective - II	OE	3	3	0	0	3
5.		Professional Elective – II	PE	3	3	0	0	3
6.		Professional Elective – III	PE	3	3	0	0	3
<b>PRACTICAL</b>								
7.	ME8711	Simulation and Analysis Laboratory	PC	4	0	0	4	2
8.	ME8781	Mechatronics Laboratory	PC	4	0	0	4	2
9.	ME8712	Technical Seminar	EEC	2	0	0	2	1
<b>TOTAL</b>				<b>28</b>	<b>18</b>	<b>0</b>	<b>10</b>	<b>23</b>

**SEMESTER VIII**

SL. NO.	COURSE CODE	COURSE TITLE	CATEGORY	CONTACT PERIODS	L	T	P	C
<b>THEORY</b>								
1.	MG8591	Principles of Management	HS	3	3	0	0	3
2.		Professional Elective– IV	PE	3	3	0	0	3
<b>PRACTICAL</b>								
3.	ME8811	Project Work	EEC	20	0	0	20	10
<b>TOTAL</b>				<b>29</b>	<b>9</b>	<b>0</b>	<b>20</b>	<b>16</b>

**TOTAL NUMBER OF CREDITS TO BE EARNED FOR AWARD OF THE DEGREE = 184**

  
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