

# ANNA UNIVERSITY, CHENNAI

## AFFILIATED INSTITUTIONS

### R - 2008

#### I SEMESTER CURRICULA AND SYLLABI

(Common to all B.E. / B.Tech Programmes except B.E. Marine Engineering)

#### SEMESTER I

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS2111	<u>Technical English - I</u>	3	1	0	4
2.	MA2111	<u>Mathematics - I</u>	3	1	0	4
3.	PH2111	<u>Engineering Physics - I</u>	3	0	0	3
4.	CY2111	<u>Engineering Chemistry - I</u>	3	0	0	3
5.	GE2111	<u>Engineering Graphics</u>	2	3	0	5
6.	GE2112	<u>Fundamentals of Computing and Programming</u>	3	0	0	3
<b>PRACTICAL</b>						
7.	GE2115	<u>Computer Practice Laboratory -I</u>	0	0	3	2
8.	GE2116	<u>Engineering Practices Laboratory</u>	0	0	3	2
9.		* <u>Physics &amp; Chemistry Laboratory I</u>	0	0	3	-
<b>TOTAL : 26 CREDITS</b>						

\* Laboratory classes on alternate weeks for Physics and Chemistry. The lab examinations will be held only in the second semester (Including the first semester experiments also).

# ANNA UNIVERSITY, CHENNAI

AFFILIATED INSTITUTIONS

**R - 2008**

B.E. CIVIL ENGINEERING

II - VIII SEMESTERS CURRICULA AND SYLLABI

SEMESTER II

(Common to all B.E. / B.Tech. Degree Programmes  
except B.E. – Marine Engineering)

SL. No.	COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>						
1.	HS2161	<u>Technical English – II*</u>	3	1	0	4
2.	MA2161	<u>Mathematics – II*</u>	3	1	0	4
3.	PH2161	<u>Engineering Physics – II*</u>	3	0	0	3
4.	CY2161	<u>Engineering Chemistry – II*</u>	3	0	0	3
5. a	ME2151	<u>Engineering Mechanics</u> (For non-circuit branches)	3	1	0	4
5. b	EE2151	<u>Circuit Theory</u> (For branches under Electrical Faculty)	3	1	0	4
5. c	EC2151	<u>Electric Circuits and Electron Devices</u> (For branches under I & C Faculty)	3	1	0	4
6. a	GE2151	<u>Basic Electrical &amp; Electronics Engineering</u> (For non-circuit branches)	4	0	0	4
6. b	GE2152	<u>Basic Civil &amp; Mechanical Engineering</u> (For circuit branches)	4	0	0	4
<b>PRACTICAL</b>						
7.	GE2155	<u>Computer Practice Laboratory-II*</u>	0	1	2	2
8.	GS2165	<u>Physics &amp; Chemistry Laboratory - II*</u>	0	0	3	2
9. a	ME2155	<u>Computer Aided Drafting and Modeling Laboratory</u> (For non-circuits branches)	0	1	2	2
9. b	EE2155	<u>Electrical Circuits Laboratory</u> (For branches under Electrical Faculty)	0	0	3	2
9. c	EC2155	<u>Circuits and Devices Laboratory</u> (For branches under I & C Faculty)	0	0	3	2
<b>TOTAL : 28 CREDITS</b>						
10.	-	<u>English Language Laboratory</u> <sup>+</sup>	0	0	2	-

\* Common to all B.E. / B.Tech. Programmes

+ Offering English Language Laboratory as an additional subject (with no marks) during 2<sup>nd</sup> semester may be decided by the respective Colleges affiliated to Anna University Chennai.

## **A. CIRCUIT BRANCHES**

### **I Faculty of Electrical Engineering**

1. B.E. Electrical and Electronics Engineering
2. B.E. Electronics and Instrumentation Engineering
3. B.E. Instrumentation and Control Engineering

### **II Faculty of Information and Communication Engineering**

1. B.E. Computer Science and Engineering
2. B.E. Electronics and Communication Engineering
3. B.E. Bio Medical Engineering
4. B.Tech. Information Technology

## **B. NON – CIRCUIT BRANCHES**

### **I Faculty of Civil Engineering**

1. B.E. Civil Engineering

### **II Faculty of Mechanical Engineering**

1. B.E. Aeronautical Engineering
2. B.E. Automobile Engineering
3. B.E. Marine Engineering
4. B.E. Mechanical Engineering
5. B.E. Production Engineering

### **III Faculty of Technology**

1. B.Tech. Chemical Engineering
2. B.Tech. Biotechnology
3. B.Tech. Polymer Technology
4. B.Tech. Textile Technology
5. B.Tech. Textile Technology (Fashion Technology)
6. B.Tech. Petroleum Engineering
7. B.Tech. Plastics Technology



### SEMESTER III

(Applicable to the students admitted from the Academic year 2008 – 2009 onwards)

COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>					
MA 2211	<u>Transforms and Partial Differential Equations</u>	3	1	0	4
GE 2021	<u>Environmental Science and Engineering</u>	3	0	0	3
AG 2211	<u>Applied Geology</u>	3	0	0	3
CE 2201	<u>Mechanics of Solids</u>	3	1	0	4
CE 2202	<u>Mechanics of Fluids</u>	3	1	0	4
CE 2203	<u>Construction Techniques, Equipment and Practice</u>	4	0	0	4
CE 2204	<u>Surveying- I</u>	3	0	0	3
<b>PRACTICAL</b>					
CE 2207	<u>Survey Practical – I</u>	0	0	4	2
CE 2208	<u>Computer Aided Building Drawing</u>	0	0	4	2
<b>TOTAL</b>		<b>22</b>	<b>3</b>	<b>8</b>	<b>29</b>

### SEMESTER IV

(Applicable to the students admitted from the Academic year 2008 – 2009 onwards)

COURSE CODE	COURSE TITLE	L	T	P	C
<b>THEORY</b>					
MA 2264	<u>Numerical Methods</u>	3	1	0	4
CE 2251	<u>Soil Mechanics</u>	3	0	0	3
CE 2252	<u>Strength of Materials</u>	3	1	0	4
CE 2253	<u>Applied Hydraulic Engineering</u>	3	1	0	4
CE 2254	<u>Surveying – II</u>	3	0	0	3
CE 2255	<u>Highway Engineering</u>	3	0	0	3
<b>PRACTICAL</b>					
CE 2257	<u>Strength of Materials Lab</u>	0	0	3	2
CE 2258	<u>Hydraulic Engineering Laboratory</u>	0	0	3	2
CE 2259	<u>Survey Practical – II</u>	0	0	4	2
<b>TOTAL</b>		<b>18</b>	<b>3</b>	<b>10</b>	<b>27</b>

### SEMESTER V

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
CE2301	<u>Irrigation Engineering</u>	3	0	0	3
CE2302	<u>Structural Analysis I</u>	3	1	0	4
CE2303	<u>Railways, Airports and Harbour Engineering</u>	4	0	0	4
CE2304	<u>Environmental Engineering I</u>	3	0	0	3
CE2305	<u>Foundation Engineering</u>	3	0	0	3
CE2306	<u>Design of RC Elements</u>	3	1	0	4
<b>PRACTICAL</b>					
GE2321	<u>Communication Skills Laboratory**</u>	0	0	4	2
CE2307	<u>Concrete and Highway Engineering Lab</u>	0	0	3	2
CE2308	<u>Soil Mechanics Laboratory</u>	0	0	3	2
<b>TOTAL</b>		<b>19</b>	<b>2</b>	<b>10</b>	<b>27</b>

### SEMESTER VI

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
MG2351	Principles of Management	3	0	0	3
CE2351	Structural Analysis – II	3	1	0	4
CE2352	Design of Steel Structures	3	1	0	4
CE2353	Construction Planning & Scheduling	3	0	0	3
CE2354	Environmental Engineering II	3	0	0	3
E1***	Elective – I	3	0	0	3
<b>PRACTICAL</b>					
CE2355	Environmental and Irrigation Engineering Drawing	0	0	4	2
CE2356	Environmental Engineering Laboratory	0	0	3	2
CE2357	Survey Camp	-	-	-	3
<b>TOTAL</b>		<b>18</b>	<b>2</b>	<b>7</b>	<b>27</b>

### SEMESTER VII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
CE2401	Design of Reinforced Concrete & Brick Masonry Structures	3	1	0	4
CE2402	Estimation and Quantity Surveying	3	0	0	3
CE2403	Basics of Dynamics and Aseismic Design	3	0	0	3
CE2404	Prestressed Concrete Structures	3	0	0	3
E2***	Elective – II	3	0	0	3
E3***	Elective – III	3	0	0	3
<b>PRACTICAL</b>					
CE2405	Computer Aided Design and Drafting Laboratory	0	0	4	2
CE2406	Design Project	0	0	4	2
<b>TOTAL</b>		<b>18</b>	<b>1</b>	<b>8</b>	<b>23</b>

### SEMESTER VIII

Code No.	Course Title	L	T	P	C
<b>THEORY</b>					
CE2451	Engineering Economics and Cost Analysis	3	0	0	3
E4***	Elective – IV	3	0	0	3
E5***	Elective – V	3	0	0	3
<b>PRACTICAL</b>					
CE2453	Project Work	0	0	12	6
<b>TOTAL</b>		<b>9</b>	<b>0</b>	<b>15</b>	<b>15</b>

\*\* No Examination



## LIST OF ELECTIVES

### SEMESTER – VI

#### ELECTIVE - I

Code No.	Course Title	L	T	P	C
CE2021	<u>Hydrology</u>	3	0	0	3
CE2022	<u>Cartography</u>	3	0	0	3
CE2023	<u>Electronic Surveying</u>	3	0	0	3
CE2024	<u>Remote Sensing Techniques and GIS</u>	3	0	0	3
CE2025	<u>Architecture</u>	3	0	0	3
GE2022	<u>Total Quality Management</u>	3	0	0	3
GE2023	<u>Fundamentals of Nanoscience</u>	3	0	0	3
GE2025	<u>Professional Ethics in Engineering</u>	3	0	0	3
GE2071	<u>Intellectual Property Rights (IPR)</u>	3	0	0	3
GE2072	<u>Indian Constitution and Society</u>	3	0	0	3

### SEMESTER – VII

#### ELECTIVE - II

Code No.	Course Title	L	T	P	C
CE2026	<u>Traffic Engineering and Management</u>	3	0	0	3
CE2027	<u>Housing Planning and Management</u>	3	0	0	3
CE2028	<u>Ground Water Engineering</u>	3	0	0	3
CE2029	<u>Management of Irrigation Systems</u>	3	0	0	3
CE2030	<u>Coastal Zone Management</u>	3	0	0	3
CE2031	<u>Water Resources Engineering</u>	3	0	0	3
CE2032	<u>Pavement Engineering</u>	3	0	0	3
CE2033	<u>Ground Improvement Techniques</u>	3	0	0	3
GE2073	<u>Contract Laws and Regulations</u>	3	0	0	3

#### ELECTIVE – III

Code No.	Course Title	L	T	P	C
CE2034	<u>Introduction to Soil Dynamics and Machine Foundations</u>	3	0	0	3
CE2035	<u>Rock Engineering</u>	3	0	0	3
CE2036	<u>Environmental Impact Assessment of Civil Engineering Projects</u>	3	0	0	3
CE2037	<u>Industrial Waste Management</u>	3	0	0	3
CE2038	<u>Air Pollution Management</u>	3	0	0	3
CE2039	<u>Municipal Solid Waste Management</u>	3	0	0	3
CE2040	<u>Ecological Engineering</u>	3	0	0	3

SEMESTER - VIII


ELECTIVE – IV

Code No.	Course Title	L	T	P	C
CE2041	<u>Bridge Structures</u>	3	0	0	3
CE2042	<u>Storage Structures</u>	3	0	0	3
CE2043	<u>Design of Plate and Shell Structures</u>	3	0	0	3
CE2044	<u>Tall Buildings</u>	3	0	0	3
CE2045	<u>Prefabricated structures</u>	3	0	0	3
CE2046	<u>Wind Engineering</u>	3	0	0	3

ELECTIVE – V

Code No.	Course Title	L	T	P	C
CE2047	<u>Computer Aided Design of Structures</u>	3	0	0	3
CE2048	<u>Industrial Structures</u>	3	0	0	3
CE2049	<u>Smart Structures and smart Materials</u>	3	0	0	3
CE2050	<u>Finite Element Techniques</u>	3	0	0	3
CE2071	<u>Repair and Rehabilitation of Structures</u>	3	0	0	3

- The lab examinations will be held only in the second semester.

  
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