

**ANNA UNIVERSITY :: CHENNAI – 600 025**

**DEGREE OF BACHELOR OF ENGINEERING**  
*(8 SEMESTER PROGRAMME)*

**BRANCH: B.E. CIVIL ENGINEERING**  
*CURRICULUM*

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
<b>SEMESTER 1</b> (Applicable to candidates to be admitted in 2003–2004)					
<b>THEORY</b>					
CM125	Chemistry I	3	0	0	100
GE131	Engineering Mechanics	3	1	0	100
L1	Language Elective I	3	1	0	100
MA131	Mathematics I	3	1	0	100
PH125	Physics I	3	0	0	100
<b>PRACTICAL</b>					
PH126	Physics Laboratory	0	0	2	100
GE132	Computer Practice I	1	0	3	100
GE133	Workshop Practice	0	0	4	100
CM126	Chemistry Laboratory	0	0	2	100
<b>SEMESTER 2</b> (Applicable to candidates to be admitted in 2003–2004)					
<b>THEORY</b>					
CE131	Building Science I	3	0	0	100
EE151	Electrical Engineering	2	0	0	100
EC151	Electronics Engineering	2	0	0	100
AG151	Engineering Geology	3	0	0	100
L2	Language Elective II	3	1	0	100
MA132	Mathematics II	3	1	0	100
ME151	Mechanical Engineering	2	0	0	100
PH233	Applied Material Science	3	0	0	100
CM132	Chemistry II	3	0	0	100
<b>PRACTICAL</b>					
GE135	Computer Practice II	1	0	3	100
GE134	Engineering Graphics	1	0	3	100

**The following curriculum is applicable to all candidates studying 2<sup>nd</sup> and 3<sup>rd</sup> year in the academic year 2003- 2004**

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<b>SEMESTER 3</b>					
<b>THEORY</b>					
CE235	Architecture	3	0	0	100
CE232	Building Science II	3	0	0	100
CE233	Fluid Mechanics	3	1	0	100
MA231	Mathematics III	3	1	0	100
CE231	Mechanics of Solids	3	1	0	100
CE234	Surveying I	3	0	0	100

**PRACTICAL**

CE242	Strength of Materials Laboratory	0	0	2	100
CE241	Survey Practical I	0	0	4	100

**SEMESTER 4**

**THEORY**

CE238	Applied Hydraulic Engineering	3	1	0	100
CE237	Concrete and Construction Technology	2	0	2	100
MA038	Numerical Methods	3	1	0	100
CE240	Soil Mechanics	3	0	0	100
CE236	Strength of Materials	3	0	0	100
CE239	Surveying II	3	0	0	100

**PRACTICAL**

CE244	Hydraulics Engineering Laboratory	0	0	2	100
CE243	Soil Engineering Laboratory	0	0	2	100

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<b>SEMESTER 5</b>					

**THEORY**

CE331	Structural Analysis I	3	1	0	100
CE332	Structural Design I	3	0	0	100
CE333	Basics of Remote Sensing and GIS	3	0	0	100
CE334	Environmental Engineering I	3	0	0	100
CE335	Transportation Engineering I	3	0	0	100
E1***	Elective I	3	0	0	100

**PRACTICAL**

CE341	Computer Aided Building Drawing	0	0	4	100
CE342	Survey Practical II	0	0	4	100

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<b>SEMESTER 6</b>					
<b>THEORY</b>					
CE336	Structural Analysis II	3	1	0	100
CE337	Structural Design II	3	0	0	100
CE338	Transportation Engineering II	3	0	0	100
CE339	Environmental Engineering II (Including Drawing)	3	0	2	100
CE340	Foundation Engineering	3	0	0	100
E2***	Elective II	3	0	0	100
<b>PRACTICAL</b>					
CE343	Computer Aided Design and Drawing	0	0	4	100
CE344	Survey Camp (3 Weeks during Winter Vacation)	-	-	-	100
<b>SEMESTER 7</b>					
<b>THEORY</b>					
CE431	Estimating and Cost Engineering	3	1	0	100
CE432	Irrigation Engineering (Including Drawing)	3	0	2	100
CE433	Economics and Business Finance for Civil Engineers	3	0	0	100
CE071	Principles of Environmental Science and Engineering	3	0	0	100
GE035	Professional Ethics	3	0	0	100
<b>PRACTICAL</b>					
CE441	Mini Project and Practical Training (4 Weeks During Summer)	0	0	6	100
<b>SEMESTER 8</b>					
<b>THEORY</b>					
CE434	Engineering Sociology	3	0	0	100
CE435	Management Concepts for Civil Engineers	3	0	0	100
E3***	Elective III	3	0	0	100
E4***	Elective IV	3	0	0	100
GE406	Total Quality Management	3	0	0	100
<b>PRACTICAL</b>					
CE444	Project Work	0	0	12	200

# GROUPING OF ELECTIVE SUBJECTS

**Elective III, IV**  
**Code No.**

**Course Title**

**L**

**T**

**P**

**M**

## STRUCTURES

CE034	Bridge Structures	3	0	0	100
CE035	Storage Structures	3	0	0	100
CE036	Design of Plate and Shell Structures	3	0	0	100
CE037	Tall Buildings	3	0	0	100
CE038	Structural Dynamics	3	0	0	100
CE039	Prefabricated Structures	3	0	0	100
CE040	Wind Engineering	3	0	0	100
CE041	Computer Aided Design of Structure	3	0	0	100
CE042	Pre-Stressed Concrete Structures	3	0	0	100
CE043	Industrial Structures	3	0	0	100
CE072	Smart Structures and Smart Materials	3	0	0	100
ME046	Finite Element Techniques	3	0	0	100

## HYDROLOGY AND WATER RESOURCES

CE045	Ground Water Engineering	3	0	0	100
CE046	Water Resources Engineering	3	0	0	100
CE047	Management of Irrigation Systems	3	0	0	100
CE048	Coastal Zone Management	3	0	0	100

## URBAN SYSTEM ENGINEERING

CE049	Transportation Planning and Systems	3	0	0	100
CE050	Traffic Engineering and Management	3	0	0	100
CE051	Housing Planning and Management	3	0	0	100
CE052	Railways and Airport Engineering	3	0	0	100
CE053	Urban and Regional Development	3	0	0	100

## ENVIRONMENTAL ENGINEERING

CE054	Environmental Impact Assessment	3	0	0	100
CE055	Industrial Waste Management	3	0	0	100
CE056	Air Pollution Management	3	0	0	100
CE057	Municipal Solid Waste and Management	3	0	0	100
CE058	Ecological Engineering	3	0	0	100

## SOIL MECHANICS AND FOUNDATION ENGINEERING

CE059	Pavement Engineering	3	0	0	100
CE060	Ground Improvement Techniques	3	0	0	100
CE061	Introduction to Soil Dynamics and Machine Foundations	3	0	0	100
CE062	Rock Engineering	3	0	0	100

**Elective II****SURVEY, REMOTE SENSING**

CE063	Geographical Information System	3	0	0	100
CE064	Cartography	3	0	0	100
CE065	Electronic Surveying	3	0	0	100
CE066	Information Technology	3	0	0	100

**Elective I****OTHERS**

CE044	Hydrology	3	0	0	100
GE034	Creativity, Innovation and New Product Development	2	0	2	100
MA039	Probability and Statistics	3	0	0	100
IF144	Object Oriented Programming	3	0	0	100
HS053	Communication Skills for Engineers	2	0	2	100
	Data Base Systems	3	0	0	100
	Fundamentals of Electronics and Microprocessors	3	0	0	100
GE 037	Intellectual Property Right (IPR)	3	0	0	100
GE 038	Indian Constitution and Society	3	0	0	100

**TECHNICAL ELECTIVE**

HS041	English I	3	1	0	100
HS042	English II	3	1	0	100