

ANNA UNIVERSITY :: CHENNAI – 600 025

DEGREE OF BACHELOR OF TECHNOLOGY  
(8 SEMESTER PROGRAMME)

BRANCH: B.TECH. CHEMICAL ENGINEERING  
*CURRICULUM*

Code No.	Course Title	L	T	P	M
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**SEMESTER 1**

(Applicable to candidates to be admitted in 2003–2004)

**THEORY**

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

**PRACTICAL**

GE132	Computer Practice I	1	0	3	100
GE133	Workshop Practice	0	0	4	100
CM126	Chemistry Laboratory	0	0	2	100
PH126	Physics Laboratory	0	0	2	100

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**SEMESTER 2**

(Applicable to candidates to be admitted in 2003–2004)

**THEORY**

CH131	Chemistry II	2	1	2	100
EE151	Electrical Engineering	2	0	0	100
EC152	Electronics Engineering	2	0	2	100
L2	Language Elective II	3	1	0	100
MA132	Mathematics II	3	1	0	100
PH134	Physics II	2	1	2	100

**PRACTICAL**

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

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
<b>SEMESTER 3</b>					
<b>THEORY</b>					
CH233	Electrical Machines and Drives	3	0	0	100
PH232	Materials Science	3	0	0	100
MA231	Mathematics III	3	1	0	100
CH234	Mechanical Engineering	3	0	0	100
CH235	Mechanics of Solids	3	0	0	100
CH236	Organic Chemistry	3	0	0	100

**PRACTICAL**

CH237	Chemistry Lab	0	0	4	100
CH239	Mechanical Engineering Lab	0	0	3	100

**SEMESTER 4**

**THEORY**

CH244	Chemical Process Industries I	3	0	0	100
CH241	Computer Applications in Chemical Engineering	2	0	2	100
CH245	Instrumental Methods of Analysis	3	0	0	100
CH243	Material Technology	3	0	0	100
CH242	Physical Chemistry	3	0	0	100
MA036	Statistics and Linear Programming	3	1	0	100

**PRACTICAL**

CH238	Electrical Engineering Lab	0	0	3	100
CH246	Organic Chemistry Lab	0	0	4	100
CH247	Technical Analysis Lab I	0	0	4	100

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
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**SEMESTER 5**

**THEORY**

CH331	Chemical Engineering Thermodynamics I	3	0	0	100
CH332	Chemical Process Calculation	3	0	0	100
CH334	Chemical Process Industries II	3	0	0	100
CH333	Fluid Mechanics	3	0	0	100
CH335	Mechanical Operations	3	0	0	100
MA037	Special Functions, Difference Equations and Z-transforms	3	1	0	100

**PRACTICAL**

CH337	Chemical Engineering Lab I	0	0	4	100
CH336	Technical Analysis Lab II	0	0	4	100

<b>Code No.</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>M</b>
<b>SEMESTER 6</b>					
<b>THEORY</b>					
CH338	Chemical Engineering Thermodynamics II	3	0	0	100
CH339	Chemical Reaction Engineering I	3	0	0	100
CH341	Heat Transfer	3	0	0	100
CH340	Mass Transfer I	3	0	0	100
MA038	Numerical Methods	3	1	0	100
CH342	Process Instrumentation Dynamics and Control	3	0	0	100
<b>PRACTICAL</b>					
CH344	Chemical Engineering Lab II	0	1	3	100
CH343	Chemical Process Equipment Design I	0	1	3	100
<b>SEMESTER 7</b>					
<b>THEORY</b>					
CH432	Chemical Reaction Engineering	3	1	0	100
CH433	Mass Transfer II	3	1	0	100
CH431	Process Economics and Industrial Management	3	0	0	100
CH434	Transport Phenomena	3	1	0	100
CE071	Principles of Environmental Science and Engineering	3	0	0	100
GE035	Professional Ethics	3	0	0	100
<b>PRACTICAL</b>					
CH436	Chemical Engineering Lab III	0	0	3	100
CH435	Chemical Process Equipment Design II	0	1	3	100
CH437	Seminar and Comprehension	0	0	4	100
<b>SEMESTER 8</b>					
<b>THEORY</b>					
E1***	Elective I	3	0	0	100
E2***	Elective II	3	0	0	100
GE406	Total Quality Management	3	0	0	100
<b>PRACTICAL</b>					
CH438	Project Work	0	0	12	200

## LIST OF ELECTIVE SUBJECTS

Code No.	Course Title	L	T	P	M
CH034	Fertilizer Technology	3	0	0	100
CH035	Petrochemical Technology	3	0	0	100
CH036	Drugs and Pharmaceutical Technology	3	0	0	100
CH037	Polymer and Plastics Technology	3	0	0	100
CH038	Food Technology	3	0	0	100
CH039	Surface Coating Technology	3	0	0	100
CH040	Electrochemical Engineering	3	0	0	100
CH041	Environmental Engineering	3	0	0	100
CH042	Biochemical Engineering	3	0	0	100
CH043	Biomedical Engineering	3	0	0	100
CH044	Process Automation	3	0	0	100
CH045	Process Modelling and Simulation	3	0	0	100
CH046	Optimisation of Chemical Processes	3	0	0	100
CH047	Computer Aided Design	3	0	0	100
CH048	Energy Management in Chemical Industries	3	0	0	100
CH049	Safety in Chemical Process Industries	3	0	0	100
CH050	Oils and Fats Technology	3	0	0	100
CH051	Bio Catalytic Reaction Engineering and Design	3	0	0	100
CH052	Bio Geo Chemical Engineering	3	0	0	100
GE034	Creativity, Innovation and New Product Development	2	0	2	100
HS034	Technical Tamil	2	0	2	100
HS035	Technical German I	3	1	0	100
HS036	Technical German II	3	1	0	100
HS037	Technical Japanese I	3	1	0	100
HS038	Technical Japanese II	3	1	0	100
HS039	Technical French I	3	1	0	100
HS040	Technical French II	3	1	0	100
HS041	English I	3	1	0	100
HS042	English II	3	1	0	100
IB034	Technical Writing and Communication	3	0	0	100
HS053	Communication Skills for Engineers	2	0	2	100
GE037	Intellectual Property Right (IPR)	3	0	0	100
GE038	Indian Constitution and Society	3	0	0	100