

ANNA UNIVERSITY :: CHENNAI – 600 025

DEGREE OF BACHELOR OF ENGINEERING  
(8 SEMESTER PROGRAMME)

BRANCH: COMPUTER SCIENCE AND ENGINEERING  
CURRICULUM

Code No.	Course Title	L	T	P	M
<b>SEMESTER 1</b> (Applicable to candidates to be admitted in 2003–2004)					
<b>THEORY</b>					
CM125	Chemistry	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

Code No.	Course Title	L	T	P	M
<b>SEMESTER 2</b> (Applicable to candidates to be admitted in 2003– 2004)					

**THEORY**

MA035	Discrete Mathematics	3	1	0	100
L2	Language Elective II	3	1	0	100
MA132	Mathematics II	3	1	0	100
CS131	Programming and Data Structures	3	1	0	100
PH136	Semiconductor Physics and Opto Electronics	3	0	0	100
CM132	Chemistry II	3	0	0	100

**PRACTICAL**

GE134	Engineering Graphics	1	0	3	100
CS132	Programming and Data Structures Lab	0	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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**SEMESTER 3**

**THEORY**

CS234	Database Management Systems	3	0	0	100
CS232	Digital Systems	3	1	0	100
EE255	Electrical Engineering and Control Systems	3	1	0	100
CS231	Introduction to Analysis of Algorithms	3	1	0	100
MA231	Mathematics III	3	1	0	100
CS233	System Software	3	0	0	100

**PRACTICAL**

CS236	Digital Lab	0	0	3	100
CS235	System Software and DBMS Lab	0	0	4	100

**SEMESTER 4**

**THEORY**

CS240	Artificial Intelligence	3	0	0	100
CS238	Computer Architecture I	3	1	0	100
EC250	Electronics Circuits	3	1	0	100
CS239	Interactive Computer Graphics	3	0	0	100
CS237	Object Oriented Programming	3	0	0	100
MA040	Probability and Queueing Theory	3	1	0	100

**PRACTICAL**

EC252	Electronics Lab	0	0	3	100
CS241	Object Oriented Programming Lab	0	0	3	100

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**SEMESTER 5**

**THEORY**

EC351	Analog, Digital and Data Communications	3	1	0	100
CS331	Digital Signal Processing	3	0	0	100
E1***	Elective I	3	0	0	100
CS334	Microprocessors	3	1	0	100
CS333	Operating Systems	3	0	0	100
CS332	Theory of Computation	3	0	0	100

**PRACTICAL**

CS336	Microprocessor Lab	0	0	4	100
CS335	Operating Systems Lab	0	0	3	100

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**SEMESTER 6**

**THEORY**

CS340	Computer Architecture II	3	0	0	100
CS339	Computer Networks	3	0	0	100
E2***	Elective II	3	0	0	100
MG325	Engineering Economics and Financial Accounting	3	0	0	100
CS337	Principles of Compiler Design	3	0	0	100
CS338	Software Engineering	3	0	0	100

**PRACTICAL**

CS342	Compiler Lab	0	0	4	100
CS341	Network Programming Lab	0	0	3	100

**SEMESTER 7**

**THEORY**

CE071	Principles of Environmental Science and Engineering	3	0	0	100
CS433	Object Oriented System Analysis and Design	3	0	0	100
MG331	Principles of Management	3	0	0	100
CS431	Network protocols, Management and Security	3	0	0	100
CS432	Web Technology	3	0	0	100
GE035	Professional Ethics	3	0	0	100

**PRACTICAL**

CS439	Comprehension	0	0	3	100
CS434	Internet Programming Lab	0	0	4	100
CS435	Software Systems Development Lab	0	0	4	100

**SEMESTER 8**

**THEORY**

E3***	Elective III	3	0	0	100
GE406	Total Quality Management	3	0	0	100

**PRACTICAL**

CS444	Project Work	0	0	12	200
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## LIST OF ELECTIVE SUBJECTS

Code No.	Course Title	L	T	P	M
<b>FIFTH SEMESTER</b>					
MA038	Numerical Methods	3	1	0	100
CS038	Neural Computing	3	0	0	100
CS044	Multimedia	3	0	1	100
CS046	Advanced Databases	3	0	0	100
CS049	Visual Programming	2	0	3	100
CS058	Advanced Java Programming	3	0	0	100
<b>SIXTH SEMESTER</b>					
CS034	Advanced Operating System	3	0	0	100
CS035	Design of Algorithms	3	0	0	100
CS039	Real Time Systems	3	0	0	100
CS040	Digital Speech and Image Processing	3	1	0	100
CS041	Pattern Recognition	3	0	0	100
CS047	High Performance Microprocessors	3	0	0	100
CS048	Robotics	3	0	0	100
CS052	Graph Theory	3	0	0	100
CS054	UNIX Internals	3	0	1	100
CS059	Java Virtual Machine	2	0	2	100
CS062	C# and .NET Framework	3	0	1	100
<b>EIGHTH SEMESTER</b>					
CS036	Parallel Computing	3	0	0	100
CS037	Algorithms for VLSI Design Automation	3	0	0	100
CS042	Parallel Algorithms	3	0	0	100
CS043	ATM Networks	3	0	0	100
CS045	Software Testing	3	1	0	100
CS050	Advanced Software Engineering	3	0	0	100
CS053	Custom Computing	2	0	2	100
CS055	Resource Management Technique	3	0	0	100
CS056	Distributed Objects	3	0	0	100
CS057	TCP/IP-Design and Implementation	3	0	0	100
CS060	Component ware Architectures	2	0	2	100
CS061	Mainframe Computing	3	0	0	100
CS063	Quantum Computing	3	0	0	100
<b>COMMON ELECTIVES TO BE OFFERED IN VI OR VIII SEMETER</b>					
HS053	Communication Skills For Engineers	2	0	2	100
GE034	Creativity, Innovation and New Product Development	2	0	2	100
GE037	Intellectual Property Right (IPR)	3	0	0	100
GE038	Indian Constitution and Society	3	0	0	100

## LANGUAGE ELECTIVES

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