



**ANNA UNIVERSITY**  
**Chennai-25.**  
**Curriculum**

February 25, 2002

**Degree Name** B.E.(Full Time)    **Specialization** Computer Science and Engineering    **Regulations** 2000

**Semester No. 1**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CM131	Chemistry I	2	1	2	4
GE131	Engineering Mechanics	3	1	0	4
L1	Language Elective I	3	1	0	4
MA131	Mathematics I	3	1	0	4
PH131	Physics I	2	1	2	4

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
GE132	Computer Practice I	1	0	3	3
GE133	Workshop Practice	0	0	4	2

**Total : 25**

**Semester No. 2**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
MA035	Discrete Mathematics	3	1	0	4
L2	Language Elective II	3	1	0	4
MA132	Mathematics II	3	1	0	4
CS131	Programming and Data Structures	3	1	0	4
PH136	Semiconductor Physics and Opto Electronics	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
GE134	Engineering Graphics	1	0	3	3
CS132	Programming and Data Structures Lab	0	0	3	2

**Total : 24**

**Semester No. 3**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS234	Database Management Systems	3	0	0	3
CS232	Digital Systems	3	1	0	4
EE255	Electrical Engineering and Control Systems	3	1	0	4
CS231	Introduction to Analysis of Algorithms	3	1	0	4
MA231	Mathematics III	3	1	0	4

**Semester No. 3**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS233	System Software	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS236	Digital Lab	0	0	3	2
CS235	System Software and DBMS Lab	0	0	4	2

**Total : 26****Semester No. 4**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS240	Artificial Intelligence	3	0	0	3
CS238	Computer Architecture I	3	1	0	4
EC250	Electronic Circuits	3	1	0	4
CS239	Interactive Computer Graphics	3	0	0	3
CS237	Object Oriented Programming	3	0	0	3
MA040	Probability and Queueing Theory	3	1	0	4

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
EC252	Electronics Lab	0	0	3	2
CS241	Object Oriented Programming Lab	0	0	3	2

**Total : 25****Semester No. 5**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
EC351	Analog, Digital and Data Communications	3	1	0	4
CS331	Digital Signal Processing	3	0	0	3
E1***	Elective I	3	0	0	3
CS334	Microprocessors	3	1	0	4
CS333	Operating Systems	3	0	0	3
CS332	Theory of Computation	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS336	Microprocessor Lab	0	0	4	2

**Semester No. 5**

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS335	Operating Systems Lab	0	0	3	2
					<b>Total : 24</b>

**Semester No. 6**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS340	Computer Architecture II	3	0	0	3
CS339	Computer Networks	3	0	0	3
E2***	Elective II	3	0	0	3
MG325	Engineering Economics and Financial Accounting	3	0	0	3
CS337	Principles of Compiler Design	3	0	0	3
CS338	Software Engineering	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS342	Compiler Lab	0	0	3	2
CS341	Network Programming Lab	0	0	3	2
					<b>Total : 22</b>

**Semester No. 7**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
E3***	Elective III	3	0	0	3
E4***	Elective IV	3	0	0	3
CS433	Object Oriented System Analysis and Design	3	0	0	3
MG331	Principles of Management	3	0	0	3
CS431	Principles of Programming Languages	3	0	0	3
CS432	Web Technology	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS439	Comprehension	0	0	3	2
CS434	Internet Programming Lab	0	0	4	2
CS435	Software Systems Development Lab	0	0	4	2
					<b>Total : 24</b>

**Semester No. 8**

**Semester No. 8**

Theory

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
E5***	Elective V	3	0	0	3
E6***	Elective VI	3	0	0	3

Practical

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS444	Project Work	0	0	12	6

**Total : 12****TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE : 182****List of Electives**

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS034	Advanced Operating Systems	3	0	0	3
CS035	Design of Algorithms	3	0	0	3
CS036	Parallel Computing	3	0	0	3
CS037	Algorithms for VLSI Design Automation	3	0	0	3
CS038	Neural Computing	3	0	0	3
CS039	Real Time Systems	3	0	0	3
CS040	Digital Speech and Image Processing	3	1	0	4
CS041	Pattern Recognition	3	0	0	3
CS042	Parallel Algorithms	3	0	0	3
CS043	ATM Networks	3	0	0	3
CS044	Multimedia	3	0	0	3
CS045	Software Testing	3	1	0	4
CS046	Advanced Databases	3	0	0	3
CS047	High Performance Microprocessors	3	0	0	3
CS048	Robotics	3	0	0	3
CS049	Visual Programming	2	0	3	4
CS050	Advanced Software Engineering	3	0	0	3
CS051	Network Protocols, Management, Security	3	0	0	3
CS052	Graph Theory	3	0	0	3
CS053	Custom Computing	2	0	2	3
CS054	UNIX Internals	3	0	0	3
CS055	Resource Management Techniques	3	0	0	3
CS056	Distributed Objects	3	0	0	3

<b>Course Code</b>	<b>Course Title</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
CS057	TCP / IP-Design and Implementation	3	0	0	3
CS058	Advanced Java Programming	3	0	0	3
CS059	Java Virtual Machine	2	0	2	3
CS060	Componentware Architectures	2	0	2	3
CS061	Mainframe Computing	3	0	0	3
GE034	Creativity, Innovation and New Product Development	2	0	2	3
HS034	Technical Tamil	2	0	2	3
HS035	Technical German I	3	1	0	4
HS036	Technical German II	3	1	0	4
HS037	Technical Japanese I	3	1	0	4
HS038	Technical Japanese II	3	1	0	4
HS039	Technical French I	3	1	0	4
HS040	Technical French II	3	1	0	4
HS041	English I	3	1	0	4
HS042	English II	3	1	0	4
MA038	Numerical Methods	3	1	0	4