

Course Structure for Bachelor's Degree in Computer Engineering

1. Year: 1, Semester: Odd

Code	Title	Exam Type	Theory		Practical		Total
			As s	Final	As s	Final	
SH401	Engineering Mathematics I	T	20	80			100
CT401	Computer Programming	B	20	80	50		150
ME401	Engineering Drawing I	P			60	40	100
SH402	Engineering Physics	B	20	80	20	30	150
CE401	Applied Mechanics	T	20	80			100
EE401	Basic Electrical Engineering	B	20	80	25		125
Total Marks							725

2. Year: 1, Semester: Even

Code	Title	Exam Type	Theory		Practical		Total
			As s	Final	As s	Final	
SH451	Engineering Mathematics II	T	20	80			100
ME451	Engineering Drawing II	P			60	40	100
EX451	Basic Electronics Engineering	B	20	80	25		125
SH453	Engineering Chemistry	B	20	80	20	30	150
ME452	Fundamental of Thermodynamics & Heat Transfer	B	20	80	25		125
ME453	Workshop Technology	B	10		40		50
Total Marks							650

3. Year: 2, Semester: Odd

Code	Title	Exam Type	Theory		Practical		Total
			As s	Final	As s	Final	
SH501	Engineering Mathematics III	T	20	80			100
CT501	Object Oriented Programming	B	20	80	50		150
EE501	Electric Circuit Theory	B	20	80	25		125

CT502	Theory of Computation	T	20	80			100
EX501	Electronic Devices & Circuits	B	20	80	25		125
EX502	Digital Logic	B	20	80	50		150
EX503	Electromagnetics	B	20	80	25		125
Total Marks							875

4. Year: 2, Semester: Even

Code	Title	Exam Type	Theory		Practical		Total
			As s	Final	As s	Final	
EE554	Electrical Machine	B	20	80	25		125
SH553	Numerical Methods	B	20	80	50		150
SH551	Applied Mathematics	T	20	80			100
EE552	Instrumentation I	B	20	80	25		125
CT552	Data Structure & Algorithm	B	20	80	50		150
EX551	Microprocessor	B	20	80	50		150
CT551	Discrete Structure	T	20	80			100
Total Marks							900

5. Year: 3, Semester: Odd

Code	Title	Exam Type	Theory		Practical		Total
			As s	Final	As s	Final	
SH601	Communication English	B	20	80	25		125
CT601	Software Engineering	B	20	80	25		125
SH602	Probability & Statistics	T	20	80			100
EX602	Instrumentation II	B	20	80	25		125
EX603	Computer Graphics	B	20	80	50		150
CT602	Data Communication	B	20	80	25		125
CT603	Computer Organization & Architecture	B	20	80	25		125
Total Marks							875

6. Year: 3, Semester: Even

Code	Title	Exam	Theory	Practical	Total
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		m Type	As s	Fina l	As s	Fina l	
CE655	Engineering Economics	T	20	80			100
CT655	Embedded System	B	20	80	25		125
CT653	Artificial Intelligence	B	20	80	25		125
CT652	Database Management System	B	20	80	50		150
CT651	Object Oriented Analysis & Design	B	20	80	25		125
CT656	Operating System	B	20	80	25		125
CT654	Minor Project	P			50	25	75
Total Marks							825

7. Year: 4, Semester: Odd

Code	Title	Exa m Type	Theory		Practical		Total
			As s	Fina l	As s	Fina l	
CT701	Project Management	T	20	80			100
CT702	Computer Network	B	20	80	50		150
CT703	Distributed System	B	20	80	25		125
CT704	Digital Signal Analysis & Processing	B	20	80	25		125
CT707	Project I	P			50		50
EX701	Energy Environment & Society	T	10	40			50
ME708	Organization & Management	T	20	80			100
CT72501	Advanced Java Programming (Elective I)	B	20	80	25		125
CT72502	Data Mining (Elective I)	B	20	80	25		125
CT72503	Embedded System Design Using ARM Technology (Elective I)	B	20	80	25		125
CT72504	Image Processing & Pattern Recognition (Elective I)	B	20	80	25		125
CT72505	Web Technology (Elective I)	B	20	80	25		125
EE72504	Power Electronics (Elective I)	B	20	80	25		125
EX72501	Radar Technology (Elective I)	B	20	80	25		125
EX72502	Satellite Communication (Elective I)	B	20	80	25		125
EX72503	Biomedical Instrumentation (Elective I)	B	20	80	25		125
EX72504	Aeronautical Telecommunication (Elective I)	B	20	80	25		125

EX72505	RF & Microwave Engineering (Elective I)	B	20	80	25		125
Total Marks							825

8. Year: 4, Semester: Even

Code	Title	Exam Type	Theory		Practical		Total
			Ass	Final	Ass	Final	
CE752	Engineering Professional Practice	T	10	40			50
CT751	Information Systems	T	20	80			100
CT753	Simulation & Modeling	B	20	80	25		125
CT754	Internet & Intranet	B	20	80	25		125
CT755	Project II	P			50	50	100
CT76502	Agile Methodologies (Elective II)	B	20	80	25		125
CT76503	Networking with IPv6 (Elective II)	B	20	80	25		125
CT76507	Big Data Technologies (Elective II)	B	20	80	25		125
CT78501	Remote Sensing (Elective III)	B	20	80	25		125
CT78503	Multimedia System (Elective III)	B	20	80	25		125
CT78504	Enterprise Application Design & Development (Elective III)	B	20	80	25		125
CT78505	XML: Foundation Techniques & Applications (Elective III)	B	20	80	25		125
EX78503	Telecommunication (Elective III)	B	20	80	25		125
CT78507	Geographic Information System (Elective III)	B	20	80	25		125
CT78508	Speech Processing (Elective III)	B	20	80	25		125
Total Marks							750

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