

Curriculum structure semester wise

Computer Science & Engineering

SEMESTER-I

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	HU 1101	Professional communication in English	3	1	0	20	10	30	70	100	4	4
2	CH 1101	Engineering Chemistry-I	3	1	0	20	10	30	70	100	4	4
3	PH 1101	Engineering Physics-I	3	1	0	20	10	30	70	100	4	4
4	MA 1101	Mathematics-I	3	1	0	20	10	30	70	100	4	4
5	ME 1101	Engineering Mechanics	3	1	0	20	10	30	70	100	4	4
6	EE 1101	Basic Electrical Engineering	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	CH 1201 PH 1201	Chemistry Lab / Physics Lab	0	0	3	30	-	30	20	50	2 (1+1)	3
2	ME 1201 EE 1201	Engineering Mechanics Lab/ Electrical Engineering Lab	0	0	3	30	-	30	20	50	2 (1+1)	3
3	ME 1202	Engineering Graphics-I	0	0	3	30	-	30	20	50	2	3
4	ME 1203	Work Shop Practice-I	0	0	3	30	-	30	20	50	2	3
5	CS 1301	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-II

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	IT 2101	Programming language (C++)	3	1	0	20	10	30	70	100	4	4
2	CH 2102	Environment and ecology	3	1	0	20	10	30	70	100	4	4
3	PH 2102	Engineering Physics-II	3	1	0	20	10	30	70	100	4	4
4	MA 2102	Mathematics-II	3	1	0	20	10	30	70	100	4	4
5	ME 2102	Engineering Thermodynamics	3	1	0	20	10	30	70	100	4	4
6	EC 2101	Basic Electronics	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	EC 2201	Basic Electronics Lab	0	0	3	30	-	30	20	50	2	3
2	IT 2201	Computer Programming Lab	0	0	3	30	-	30	20	50	2	3
3	ME 2204	Engineering Graphics-II	0	0	3	30	-	30	20	50	2	3
4	ME 2205	Work Shop Practice-II	0	0	3	30	-	30	20	50	2	3
5	CS 2302	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-III

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	MA 3103	Numerical analysis & Programming	3	1	0	20	10	30	70	100	4	4
2	PH 3103	Material Science (B)	3	1	0	20	10	30	70	100	4	4
3	MA 3104	Mathematics-III	3	1	0	20	10	30	70	100	4	4
4	CS 3101	Data Structure	3	1	0	20	10	30	70	100	4	4
5	EC 3102	Digital Electronics & Integrated Circuits	3	1	0	20	10	30	70	100	4	4
6	IT 3102	Principle of Programming Languages (PPL)	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	MA 3201	Numerical Analysis & Programming Lab	0	0	3	30	-	30	20	50	2	3
2	EC 3202	Digital Electronics Lab	0	0	3	30	-	30	20	50	2	3
3	CS 3201	Data Structure Lab	0	0	3	30	-	30	20	50	2	3
4	IT 3202	Programming Lab	0	0	3	30	-	30	20	50	2	3
5	CS 3303	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-IV

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	MA 4105	Mathematics-IV	3	1	0	20	10	30	70	100	4	4
2	MA 4106	Probability & Statistics	3	1	0	20	10	30	70	100	4	4
3	EC 4103	Analog Electronics	3	1	0	20	10	30	70	100	4	4
4	EC 4104	Communication System & Engg.	3	1	0	20	10	30	70	100	4	4
5	EE 4107	Microprocessor & Interfacing	3	1	0	20	10	30	70	100	4	4
6	CS 4102	Software Engg.	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	EC 4203	Analog Electronics Lab	0	0	3	30	-	30	20	50	2	3
2	EC 4204	Communication Engg. Lab	0	0	3	30	-	30	20	50	2	3
3	EE 4206	Microprocessor Lab	0	0	3	30	-	30	20	50	2	3
4	CS 4202	Software Engg. Lab	0	0	3	30	-	30	20	50	2	3
5	CS 4304	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-V

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	CS 5103	Operating Systems	3	1	0	20	10	30	70	100	4	4
2	CS 5104	Database Management System	3	1	0	20	10	30	70	100	4	4
3	CS 5105	Design & Analysis of Algorithm	3	1	0	20	10	30	70	100	4	4
4	CS 5106	Computer organization & Arch.	3	1	0	20	10	30	70	100	4	4
5	CS 5107	Formal Language & Automata Theory	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	CS 5203	Operating Systems Lab	0	0	3	30	-	30	20	50	2	3
2	CS 5204	Database Management System Lab	0	0	3	30	-	30	20	50	2	3
3	CS 5205	Advanced Programming Lab	0	0	3	30	-	30	20	50	2	3
4	CS 5206	C.O. Lab	0	0	3	30	-	30	20	50	2	3
5	CS 5305	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

SEMESTER-VI

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	ME 6123	Industrial Management	3	1	0	20	10	30	70	100	4	4
2	CS 6108	Compiler Design	3	1	0	20	10	30	70	100	4	4
3	CS 6109	Soft Computing	3	1	0	20	10	30	70	100	4	4
4	IT 6103	Computer Networks	3	1	0	20	10	30	70	100	4	4
5	CS 6110	Computer Graphics	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	CS 6207	Compiler Design Lab	0	0	3	30	-	30	20	50	2	3
2	CS 6208	Soft Computing Lab	0	0	3	30	-	30	20	50	2	3
3	IT 6203	Computer Networks Lab	0	0	3	30	-	30	20	50	2	3
4	CS 6209	Computer Graphics Lab	0	0	3	30	-	30	20	50	2	3
5	CS 6306	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

SEMESTER-VII

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1		Elective-I	3	1	0	20	10	30	70	100	4	4
2		Elective-II	3	1	0	20	10	30	70	100	4	4
3	EC 7111	VLSI Design	3	1	0	20	10	30	70	100	4	4
4	CS 7111	Artificial Intelligence & expert system	3	1	0	20	10	30	70	100	4	4
5	CS 7112	Web Technology	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	CS 7210	Artificial Intelligence Lab	0	0	3	30	-	30	20	50	2	3
2	CS 7211	Web Technology Lab	0	0	3	30	-	30	20	50	2	3
3	CS 7212	Advance Programming Lab	0	0	3	30	-	30	20	50	2	3
4	CS 7213	Project Part-I	0	0	3	30	-	30	20	50	2	3
5	CS 7307	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

ELECTIVES I & II

PARALLEL PROGRAMMING (CS 7114)

ROBOTICS (EC 7114)

MULTIMEDIA TECHNOLOGY (IT 7107)

BIOMEDICAL ELECTRONICS (EC 7116)

GEOGRAPHICAL INFORMATION SYSTEM (CS 7116)

DATA WAREHOUSING AND DATA MINING (CS 7115)

DIGITAL IMAGE PROCESSING (EC 7115)

DIGITAL SIGNAL PROCESSING (EC 7110)

OPERATIONS RESEARCH AND OPTIMIZATION TECHNIQUES (EC 7117)

SEMESTER-VIII

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1		Elective-III	3	1	0	20	10	30	70	100	4	4
2		Elective-IV	3	1	0	20	10	30	70	100	4	4
3		Elective-V	3	1	0	20	10	30	70	100	4	4
4	CS 8117	E Commerce & Security	3	1	0	20	10	30	70	100	4	4
5	CS 8118	Financial Management & Accounting	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	CS 8214	Project part-II	0	0	12	-	-	120	80	200	8	12
2	CS 8308	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

ELECTIVES III, IV & V

NATURAL LANGUAGE PROCESSING (CS 8119)

ENTERPRISE RESOURCE PLANNING (EC 8124)

FIBER NETWORKS (EC 8125)

INTERNET TECHNOLOGY (IT 7108)

REAL TIME & EMBEDDED SYSTEM (EC 7113)

INFORMATION & CODING THEORY(CS 8121)

MANAGEMENT INFORMATION SYSTEM(IT 7106)

WIRELESS COMMUNICATION (EC 7112)

COMPUTER VISION (CS 7118)

LINUX PROGRAMMING & SYSTEM ADMINISTRATION (CS 8120)

BIO INFORMATICS (IT 8110)

VALUES & ETHICS OF PROFESSION (IT 6105)