

CURRICULUM
B.E. COMPUTER SCIENCE AND ENGINEERING
Regulation 2023 | Total Credits: 160

SEMESTER I								
Sl. No.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.	HS23111	Technical Communication I	HS	2	2	0	0	2
2.	MA23111	Linear Algebra and Calculus	BS	4	3	1	0	4
3.	GE23117	தமிழர் மரபு/Heritage of Tamils	HS	1	1	0	0	1
LAB ORIENTED THEORY COURSES								
4.	GE23131	Programming using C	ES	7	1	0	6	4
5.	EE23133	Basic Electrical and Electronics Engineering	ES	5	3	0	2	4
6.	PH23132	Physics for Information Science	BS	5	3	0	2	4
LABORATORY COURSES								
7	GE23121	Engineering Practices-Civil and Mechanical	ES	2	0	0	2	1
NON CREDIT COURSES								
8.	MC23111	Indian Constitution and Freedom Movement	MC	3	3	0	0	0
TOTAL				29	16	1	12	20

SEMESTER II								
Sl. No.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.	MA23213	Discrete Mathematical Structures	BS	4	3	1	0	4
2.	GE23217	தமிழரும் தொழில்நுட்பமும்/Tamils and Technology	HS	1	1	0	0	1
LAB ORIENTED THEORY COURSES								
3.	EC23232	Digital Logic and Microprocessor	ES	5	3	0	2	4
4.	GE23111	Engineering Graphics	ES	6	2	0	4	4
5.	CS23231	Data Structures	PC	7	3	0	4	5
LABORATORY COURSES								
6.	HS23221/ HS23222	Technical Communication II / English for Professional Competence	HS	2	0	0	2	1
7.	GE23122	Engineering Practices- Electrical and Electronics	ES	2	0	0	2	1
8.	CS23221	Python Programming Lab	PC	4	0	0	4	2
NON CREDIT COURSES								
9.	MC23112	Environmental Science and Engineering	MC	3	3	0	0	0
TOTAL				34	15	1	18	22

SEMESTER III								
Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.	MA23312	Fourier Series and Number Theory	BS	4	3	1	0	4
2.	CS23311	Computer Architecture	PC	3	3	0	0	3
LAB ORIENTED THEORY COURSES								
3.	CS23331	Design and Analysis of Algorithms	PC	5	3	0	2	4
4.	CS23332	Database Management Systems	PC	7	3	0	4	5
5.	CS23333	Object Oriented Programming Using Java	PC	7	1	0	6	4
6.	CS23334	Fundamentals of Data Science	PC	5	3	0	2	4
TOTAL				31	16	1	14	24

SEMESTER IV								
Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.		Open Elective – I	OE	3	3	0	0	3
2.	BA23512	Fundamentals of Accounting	HS	3	3	0	0	3
LAB ORIENTED THEORY COURSES								
3.	MA23435	Probability, Statistics and Simulation	BS	4	3	0	2	4
4.	CS23431	Operating Systems	PC	7	3	0	4	5
5.	CS23432	Software Construction	PC	5	3	0	2	4
6.	CS23433	Design Thinking for Innovation in Computer Science	EEC	3	1	0	2	2
EMPLOYABILITY ENHANCEMENT COURSES								
7.	GE23421	Soft Skills–I	EEC	2	0	0	2	1
8.	CS23421	Industry Internship (2/4 weeks)	EEC	0	0	0	0	1
TOTAL				27	16	0	12	23

SEMESTER V								
Sl. NO.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.	CS23511	Theory of Computation	PC	4	3	1	0	4
2.	CS23512	Fundamentals of Mobile Computing	PC	3	3	0	0	3
3.		Professional Elective-I	PE	3	3	0	0	3
LAB ORIENTED THEORY COURSES								
4.	CS23531	Web Programming	PC	7	1	0	6	4
5.	CS23532	Computer Networks	PC	7	3	0	4	5
6.	AI23231	Principles of Artificial Intelligence	PC	5	3	0	2	4
EMPLOYABILITY ENHANCEMENT COURSES								
7.	GE23521	Soft Skills-II	EEC	2	0	0	2	1
TOTAL				31	16	1	14	24

SEMESTER VI								
Sl. NO.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.		Professional Elective-II	PE	3	3	0	0	3
LAB ORIENTED THEORY COURSES								
2.	CS23631	Compiler Design	PC	5	3	0	2	4
3.	CS23632	Cryptography and Network Security	PC	4	2	0	2	3
4.	CS23633	Cloud Computing	PC	4	2	0	2	3
5.	AI23331	Fundamentals of Machine Learning	PC	5	3	0	2	4
LABORATORY COURSES								
6.	CS23621	Mobile Application Development Laboratory	PC	4	0	0	4	2
EMPLOYABILITY ENHANCEMENT COURSES								
7.	GE23622	Problem Solving Techniques	EEC	2	0	0	2	1
TOTAL				27	13	0	14	20

SEMESTER VII								
Sl. NO.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.		Professional Elective-III	PE	3	3	0	0	3
2.		Professional Elective-IV	PE	3	3	0	0	3
3.		Professional Elective-V	PE	3	3	0	0	3
		Professional Elective-VI	PE	3	3	0	0	3
4.		Open Elective – II	OE	3	3	0	0	3
LABORATORY COURSES								
5.	CS23721	Project Phase I	EEC	6	0	0	6	3
TOTAL				21	15	0	6	18

SEMESTER VIII								
Sl. NO.	COURSE CODE	COURSE TITLE	Category	Contact Periods	L	T	P	C
THEORY COURSES								
1.		Professional Elective-VII	PE	3	3	0	0	3
LABORATORY COURSES								
2.	CS23821	Project Phase II	EEC	12	0	0	12	6
TOTAL				15	3	0	12	9

TOTAL NO. OF CREDITS: 160