

BE (Computer Science and Engineering) Curriculum

Minimum Credits to be Earned: 165

Semester I								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SEN101	Heritage of Tamils	HS	1	1	0	0	1
2	23SEN103	Technical English - I	HS	4	3	1	0	4
3	23SMA101	Matrices and Calculus	BS	4	3	1	0	4
4	23SCH115	Environmental Science for Engineers	BS	3	3	0	0	3
5	23CSR101	Computer Fundamentals and Communication	ES	4	3	1	0	4
6	23CSR102	C Programming	ES	3	3	0	0	3
LABORATORY								
7	23CSR104	C Programming Laboratory	ES	2	0	0	2	1
TOTAL				21	16	3	2	20

Semester II								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SEN202	Tamils and Technology	HS	1	1	0	0	1
2	23SEN205	Technical English - II	HS	3	3	0	0	3
3	23SMA202	Graph Theory	BS	4	3	1	0	4
4	23SPH214	Physics for Computer Sciences	BS	3	3	0	0	3
5	23ITR201	Fundamentals of Web Design	ES	3	3	0	0	3
6	23CSR203	Data Structures and Algorithms	ES	3	3	0	0	3
LABORATORY								
7	23SEN217	Communication Skills Laboratory	HS	2	0	0	2	1
8	23SPH121	Physical Sciences Laboratory	BS	2	0	0	2	1
9	23ITR203	Web Design Laboratory	ES	2	0	0	2	1
10	23CSR205	Data Structures and Algorithms Laboratory	ES	2	0	0	2	1
TOTAL				25	16	1	8	21

Semester III								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SMA305	Discrete Mathematics	BS	4	3	1	0	4
2	23CSR301	Java Programming	PC	3	3	0	0	3
3	23CSR302	Design and Analysis of Algorithms	PC	3	3	0	0	3
4	23CSR303	Database Management Systems	PC	3	3	0	0	3
5	23CSR304	Computer Architecture	PC	4	3	1	0	4
6	23MXC301	Indian Constitution	MC	1	1	0	0	-
LABORATORY								
7	23CSR308	Java Programming Laboratory	PC	2	0	0	2	1
8	23CSR309	Design and Analysis of Algorithms Laboratory	PC	2	0	0	2	1
9	23CSR310	Database Management Systems Laboratory	PC	2	0	0	2	1
10	23EXC301	Life Skills – I	EEC	2	0	0	2	1
TOTAL				26	16	2	8	21

Semester IV								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SMA409	Probability and Statistics	BS	4	3	1	0	4
2	23ECR403	Digital Electronics and Microprocessors	ES	3	3	0	0	3
3	23CTR401	Operating Systems	PC	3	3	0	0	3
4	23ITR402	Web Application Development	PC	3	3	0	0	3
5	23XXPXXX	Professional Elective – I	PE	3	3	0	0	3
6	23SMX402	Essence of Indian Traditional Knowledge	MC	1	1	0	0	-
7	23EXC411	Design Thinking	EEC	1	1	0	0	1
LABORATORY								
8	23ECR405	Digital Electronics and Microprocessors Laboratory	ES	2	0	0	2	1
9	23CTR406	Operating Systems Laboratory	PC	2	0	0	2	1
10	23ITR409	Web Application Development Laboratory	PC	2	0	0	2	1
11	23EXC402	Life Skills – II	EEC	2	0	0	2	1
TOTAL				26	16	1	9	21

Semester V								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23CTR502	Software Engineering	PC	4	3	1	0	4
2	23CYR502	Network Architecture and Security	PC	3	3	0	0	3
3	23ITR503	Artificial Intelligence	PC	4	3	1	0	4
4	23ITR504	Automata Theory and Compiler Design	PC	4	3	1	0	4
5	23CSR505	Cloud Infrastructures and Services	PC	3	3	0	0	3
6	23XXPXXX	Professional Elective – II	PE	3	3	0	0	3
7	23XXOXXX	Open Elective – I	OE	3	3	0	0	3
LABORATORY								
8	23CSR511	Cloud Infrastructures and Services Laboratory	PC	2	0	0	2	1
9	23CYR511	Network Architecture and Security Laboratory	PC	2	0	0	2	1
10	23EXXXX	Internship – I/Mini Project - I	EEC	2	0	0	2	1
11	23EXC503	Life Skills - III	EEC	2	0	0	2	1
TOTAL				32	21	3	8	28

Semester VI								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23CTR604	Big Data Analytics	PC	3	3	0	0	3
2	23CSR606	DevOps	PC	3	3	0	0	3
3	23XXPXXX	Professional Elective – III	PE	3	3	0	0	3
4	23XXPXXX	Professional Elective - IV	PE	3	3	0	0	3
5	23XXOXXX	Open Elective – II	OE	3	3	0	0	3
6	23XXOXXX	Open Elective – III	OE	3	3	0	0	3
LABORATORY								
7	23CTR607	Big Data Analytics Laboratory	PC	2	0	0	2	1
8	23CDR609	DevOps Laboratory	PC	2	0	0	2	1
9	23EXCXXX	Internship – II/Mini Project - II	EEC	2	0	0	2	1
TOTAL				24	18	0	6	21

Semester VII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
THEORY								
1	23SGE713	Principles of Management and Engineering Ethics	HS	3	3	0	0	3
2	23CSR707	Information Security	PC	3	3	0	0	3
3	23XXPXXX	Professional Elective - V	PE	3	3	0	0	3
4	23XXPXXX	Professional Elective - VI	PE	3	3	0	0	3
5	23XXOXXX	Open Elective – IV	OE	3	3	0	0	3
6	23XXOXXX	Open Elective – V	OE	3	3	0	0	3
7	23XXOXXX	Open Elective – VI	OE	3	3	0	0	3
LABORATORY								
8	23EXC709	Project Work - Phase I	EEC	4	0	0	4	2
TOTAL				25	21	0	4	23

Semester VIII								
S. No.	Course Code	Course Title	Category	Contact Hours	Instruction Hours/Week			C
					L	T	P	
LABORATORY								
1	23EXC810	Project Work - Phase II	EEC	20	0	0	20	10
TOTAL				20	0	0	20	10

Total Credits	165
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