

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110
(An Autonomous Institution, Affiliated to Anna University, Chennai)

REGULATIONS 2021

CHOICE BASED CREDIT SYSTEM

B.E. COMPUTER SCIENCE AND ENGINEERING

CURRICULUM

SEMESTER I

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UEN2176	Technical English	HS	4	2	0	2	0	3
2	UMA2176	Matrices and Calculus	BS	4	3	1	0	0	4
3	UPH2176	Engineering Physics	BS	3	3	0	0	0	3
4	UCY2176	Engineering Chemistry	BS	3	3	0	0	0	3
5	UGE2176	Problem Solving and Programming in Python	ES	3	3	0	0	0	3
6	UGE2177	Engineering Graphics	ES	5	1	0	4	0	3
		Practical							
7	UGS2197	Physics and Chemistry Lab	BS	3	0	0	3	0	1.5
8	UGE2197	Programming in Python Lab	ES	3	0	0	3	0	1.5
		Total		28	15	1	12	0	22

SEMESTER II

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UMA2276	Complex Functions and Laplace Transforms	BS	4	3	1	0	0	4
2	UEE2276	Basic Electrical and Electronics Engineering	ES	3	3	0	0	0	3
3	UCS2201	Fundamentals and Practice of Software Development (TCP)	ES	6	1	0	5	3	4.5
4	UCY2276	Environmental Science	BS	3	3	0	0	0	0
5		Humanities Elective	HS	3	2	0	2	0	3
6	UCS2202	Foundations of Data Science	ES	3	3	0	0	0	3
		Practical							
7	UGE2297	Design Thinking and Engineering Practices Lab	ES	3	0	0	3	0	1.5
		Total		25	16	1	8	3	19

SEMESTER III

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UMA2377	Discrete Mathematics	BS	4	3	1	0	0	4
2	UHS2376	Universal Human Values 2: Understanding Harmony	HS	4	2	0	2	0	3
3	UCS2301	Digital Principles and System Design	ES	3	3	0	0	0	3
4	UCS2302	Data Structures	PC	3	3	0	0	0	3
5	UCS2303	Object Oriented Programming	PC	3	3	0	0	0	3
		Practical							
6	UCS2311	Digital Design Lab	ES	3	0	0	3	0	1.5
7	UCS2312	Data Structures Lab	PC	4	0	0	4	0	2
8	UCS2313	Object-Oriented Programming Lab	PC	3	0	0	3	0	1.5
		Total		27	14	1	12	0	21

SEMESTER IV

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UMA2476	Probability and Statistics	BS	4	3	1	0	0	4
2	AHS2476	Indian Constitution	HS	3	3	0	0	0	0
3	UCS2401	Computer Organization and Architecture	PC	3	3	0	0	0	3
4	UCS2402	Operating Systems	PC	3	3	0	0	0	3
5	UCS2403	Design and Analysis of Algorithms (TCP)	PC	5	3	0	2	0	4
6	UCS2404	Database Management Systems	PC	3	3	0	0	0	3
		Practical							
7	UCS2412	Operating Systems Lab	PC	3	0	0	3	0	1.5
8	UCS2411	Database Lab	PC	3	0	0	3	0	1.5
		Total		27	18	1	8	0	20

SEMESTER V

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UCS2501	Computer Networks	PC	3	3	0	0	0	3
2	UCS2502	Microprocessors, Microcontrollers, and Interfacing	PC	3	3	0	0	0	3
3	UCS2504	Foundations of Artificial Intelligence (TCP)	PC	5	3	0	2	0	4
4	UCS2503	Software Engineering	PC	3	3	0	0	0	3
5		Professional Elective I	PE	3	3	0	0	0	3
6		Management Elective	HS	3	3	0	0	0	3
		Practical							
7	UCS2511	Networks Lab	PC	3	0	0	3	0	1.5
8	UCS2512	Microprocessors Lab	PC	3	0	0	3	0	1.5
		Total		26	18	0	8	0	22

SEMESTER VI

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UCS2601	Internet Programming	PC	3	3	0	0	0	3
2	UCS2602	Software System Security	PC	3	3	0	0	0	3
3	UCS2604	Principles of Machine Learning	PC	3	3	0	0	0	3
4	UCS2603	Theory of Computation	PC	3	3	0	0	0	3
5		Professional Readiness for Innovation, Employability And Entrepreneurship	EEC	6	0	0	6	0	3
6		Open Elective I	OE	3	3	0	0	0	3
		Practical							
7	UCS2611	Internet Programming Lab	PC	3	0	0	3	0	1.5
8	UCS2612	Machine Learning Lab	PC	3	0	0	3	0	1.5
		Total		27	15	0	12	0	21

SEMESTER VII

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1	UCS2701	Distributed Systems	PC	3	3	0	0	0	3
2	UCS2703	Software Architecture	PC	3	3	0	0	0	3
3	UCS2702	Compiler Design (TCP)	PC	5	3	0	2	0	4
4		Professional Elective II	PE	3	3	0	0	0	3
5		Professional Elective III	PE	3	3	0	0	0	3
6		Professional Elective IV	PE	3	3	0	0	0	3
		Practical							
7	UCS2718	Project Work Phase I	EEC	6	0	0	6	0	3
8	UCS2716	Industrial Training / Internship	EEC	0	0	0	0	6	2
		Total		26	18	0	8	6	24

SEMESTER VIII

No	Code	Course Title	Category	Periods	L	T	P	E	C
		Theory							
1		Professional Elective V	PE	3	3	0	0	0	3
2		Open Elective II	OE	3	3	0	0	0	3
		Practical							
3	UCS2818	Project Work Phase II	EEC	16	0	0	16	0	8
		Total		22	6	0	16	0	14