



School of Engineering & Technology B. Tech Computer Science & Engineering [For New Students (Session 2022-23)]]

Credit Definition

Type	Duration (in Hour)	Credit
Lecture (L)	1	1
Tutorial (T)	1	1
Practical (P)	2	1

Total Credit

Year	Semester	hrs./Week	Credit
1 st	1 st	28	25
1	2 nd	28	24
2 nd	3 rd	28	24
2	4 th	28	24
3 rd	5 th	27	25
3	6 th	26	25
4 th	7 th	14	17
+	8 th	7	16
Total			180

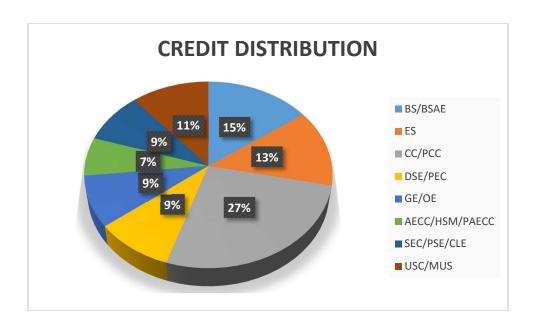
Category Codification with Credit Break up

Definition of Category	Category	No	Credit			
Basic Science	BS/BSAE	1	27			
Engineering Science	ES	2	24			
Professional Core	CC/PCC	3	48			
Professional Elective (Discipline Specific)	DSE/PEC	4	17			
Open Elective (General Elective)	GE/OE	5	16			
Humanities & Social Science including Management	AECC/HSM/PAECC	6	12			
Project Work / Seminar / Internship / Entrepreneurship	SEC/PSE/CLE	7	16			
Mandatory / University Specified (Environmental Sc. / Induction	USC/MUS		20			
Training / Indian Constitution / Foreign language)	USC/MUS	8	20			
Total						





Category wise Credit Distribution



SEMESTER: I

Mandatory Induction Program – Duration 3 weeks

- Physical Activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules Lectures by Eminent People
- Visits to Local Areas
- Familiarization to Department/Branch & Innovations





Sl	SI No Course Title		Credit		Туре	9
No				L	T	P
1	Discrete Mathematics	7000011101	3	3	0	0
2	Engineering Physics	7000011102	3	3	0	0
3	Fundamentals of Computer Science & Problem Solving	8000011101	4	4	0	0
4	Principles of Electrical Engineering	8000011102	4	4	0	0
5	Communicative English	4000011101	2	2	0	0
6	Environmental Science	7000011103	2	2	0	0
7	Engineering Physics Lab	7000011201	1	0	0	2
8	Fundamentals of Computer Science & Problem Solving Lab	8000011201	1	0	0	2
9	Principles of Electrical Engineering Lab	8000011202	1	0	0	2
10	Foreign Language - I	6000011101	2	2	0	0
11	Professional Training-I: (Aptitude)	6000011401	2	2	0	0
	Total Credit (Theory:07, Practical:03, Sessional:01)			28 (l	ırs./V	Veek)

SEMESTER: II

SI	No Course little		Course Title Code		Credit	r	Гуре	
No			010010	L	T	P		
1	Linear Algebra and Vectors	7000012104	3	3	0	0		
2	Programming and Data Structures	8000012103	4	4	0	0		
3	Digital Logic	8000012104	4	4	0	0		
4	Biology for Engineers	7000012105	2	2	0	0		
5	Engineering Chemistry	7000012106	3	3	0	0		
6	Programming and Data Structures Lab	8000012203	1	0	0	2		
7	Digital Logic Lab	8000012204	1	0	0	2		
8	Engineering Drawing & Workshop	7000012202	1	0	0	2		
9	LBS-I: (Linear Algebra)	8000012205	1	0	0	2		
10	Foreign Language - II	6000012102	2	2	0	0		
11	Professional Training-II: (Aptitude)	6000012402	2	2	0	0		
	Total Credit (Theory:06, Practical:04, Sessional:01)			28 (h	rs./We	eek)		





SEMESTER: III

Sl No			Credit		Type	
110		Code		L	T	P
1	Operation Research	7000013107	3	3	0	0
2	Data Structure & Algorithm	1000013101	4	4	0	0
3	Object Oriented Programming through C++	1000013102	3	3	0	0
4	Computer Organization and Architecture	1000013103	4	4	0	0
5	Economics for Engineers	4000013102	2	2	0	0
6	Data Structure & Algorithm Lab	1000013201	1	0	0	2
7	Object Oriented Programming Lab through C++	1000013202	1	0	0	2
8	Computer Organization and Architecture Lab	1000013203	1	0	0	2
9	LBS-II: (Operation Research)	8000013206	1	0	0	2
10	Foreign Language - III	6000013103	2	2	0	0
11	Professional Training-III: (Aptitude)	6000013403	2	2	0	0
	Total Credit (Theory:06, Practical:04, Sessional:01)			28	(hrs./W	/eek)

SEMESTER: IV

SI	Course Title	Code Cre		Type		
No			Creare	L	T	P
1	Probability for Computer Science	7000014108	3	3	0	0
2	Operating Systems	1000014104	3	3	0	0
3	Design and Analysis of Algorithm	1000014105	4	4	1	0
4	Database Management System	1000014106	4	4	0	0
5	Financial Management	4000014103	2	2	0	0
6	Operating Systems Lab	1000014204	1	0	0	2
7	Design and Analysis of Algorithm Lab	1000014205	1	0	0	2
8	Database Management System Lab	1000014206	1	0	0	2
9	LBS-III: (Python)	8000014207	1	0	0	2
10	Foreign Language - IV	6000014104	2	2	0	2
11	Professional Training-IV: (Aptitude)	6000014404	2	2	0	2
	Total Credit (Theory:06, Practical:04, Sessional:01)			28 (hrs./W	eek)





SEMESTER: V

Sl	Course Title	Code	Credit	Type		
No	Course Title	2000	Crean	L	T	P
1	Statistical Modelling	7000015109	3	3	0	0
2	Formal Language and Automata Theory	1000015107	3	3	0	0
3	Artificial Intelligence	1000015108	3	3	1	0
4	Software Engineering	1000015109	4	4	0	0
5	Elective - I (Open)	3000015101	4	4	1	0
6	Entrepreneurship Skill	4000015104	2	2	0	0
7	Artificial Intelligence Lab	1000015207	1	0	0	2
8	Software Engineering Lab	1000015208	1	0	0	2
9	LBS-IV: (Statistical Modelling)	8000015208	1	0	0	2
10	Term Paper	5000015601	1	0	0	2
11	Professional Training-V: (Core Java)	6000015405	2	2	0	0
	Total Credit (Theory:06, Practical:03, Sessional:02)			27 (hrs./W	eek)

	Elective I (Open)				
Sl No.	Sl No. Paper Code Paper Name				
1.		Microprocessor and Microcontroller			
2.		Analog and Digital Communication			

SEMESTER: VI

Sl	(Olirga Liffa		Credit	Type		
No	Course Title	Code	O' Care	L	T	P
1	Compiler Design	1000016110	3	3	0	0
2	Computer Networks	1000016111	3	3	0	0
3	Elective – II (Open)	3000016102	4	4	0	0
4	Elective – I (Professional)	2000016101	3	3	0	0
5	Elective – II (Professional)	2000016102	3	3	0	0
6	Desugn Thinking	4000016105	2	2	0	0
7	Compiler Design Lab	1000016209	1	0	0	2
8	Computer Networks Lab	1000016210	1	0	0	2
9	Elective – II (Professional) Lab	2000016201	1	0	0	2
10	Project – I	5000016501	2	0	0	0
11	Professional Training-VI: (Java Script)	6000016406	2	0	0	2
	Total Credit (Theory:06, Practical:03, Sessional:02)			26 (hrs./W	eek)





	Elective II (Open)					
Sl No.	Paper Code	Paper Name				
1.		Fuzzy Set Theory And Decision Making				
2.		Robotics				
	Elec	ctive – I (Professional)				
Sl No.	Paper Code	Paper Name				
3.		Digital Signal Processing				
4.		Cryptography and Network Security				
5.		Advanced Architecture				
6.		Artificial Neural Network				
	Elec	tive – II (Professional)				
7.		Digital Image Processing				
8.		Embedded System				
9.		Machine Learning				

SEMESTER: VII

Sl	Course Title	Code	Credit	Type		
No	Course Thie	Couc		L	T	P
1	Elective-III (Open)	3000017103	4	4	0	0
2	Elective- III (Professional)	2000017103	3	3	0	0
3	Elective- IV (Professional)	2000017104	3	3	0	0
4	Constitution of India	4000017106	2	2	0	0
5	Elective- IV (Professional) Lab	2000017202	1	0	0	2
6	Project-II	5000017502	4	0	0	0
	Total Credit (Theory:04, Practical:01, Sessional:01)			14 (hrs./W	eek)

]	Elective III (Open)					
Sl No.	Paper Code	Paper Name					
1.		Fibre Optic communication					
2.		Cyber Law					
3.		Web Technology					
	Elect	tive – III (Professional)					
Sl No.	Paper Code	Paper Name					
4.		Bioinformatics					
5.		Cloud Computing					
6.		Data Mining					
7.		Internet of Things					
	Elective – IV (Professional)						
8.		Soft Computing					
9.		Natural Language Processing					
10.		Distributed Database System					





SEMESTER: VIII

SI No	Course Title	Code	Credit	Type		
No				L	T	P
1	Elective- IV (Open)	3000018104	4	3	1	0
2	Elective- V (Professional)	2000018105	3	3	0	0
3	Project-III	5000018503	6	0	0	0
4	Comprehensive Viva	5000018602	3			
	Total Credit (Theory:02, Practical:00, Sessiona	l:01)	16	7 (hr	s./Wee	ek)

	Elective IV (Open)				
Sl No.	Paper Code	Paper Name			
1.		Business Analytics/Design Thinking			
2.		Satellite Communication			
	Ele	ctive- V (Professional)			
Sl No.	Paper Code	Paper Name			
3.		Data Science			
4.		Wireless and Sensor Network			
5.		Mobile Computing			
6.		Block Chain and Crypto Currency			