I		2022 - Engineering Physics		
	CEMECTED	I (Common for all D Took Common)		

	SEMESTER - I (Common for all B.Tech Courses)					
S. No	Course Code	Course Name	L	T	P	C
1	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
2	MA 109	Calculus-1 (1st Half)	3	1	0	4
3	MA 121	Calculus-2 (2nd half)	3	1	0	4
4	PH 101	Quantum Physics and Applications	2	1	0	6
5	BB 103	Introduction to Modern biology	3	0	0	6
6	CS 103	Introduction to Programming -1 (Using C)	3	0	2	4
7	EE 103	Introduction to Programming -2 (Python)	3	0	2	4
8	PH 113	Hand on science Laboratory-I	0	0	3	3
9	HS 101	Introduction to Fine Arts	0	0	1	PP/NP
10	HS 102	Design Thinking and Creativity	1	0	0	PP/NP
11	NO101/NO103	NSO/NSS	0	0	1	PP/NP
	Total Credits					37

		SEMESTER - II				
S. No	Course Code	Course Name	L	T	P	C
1	MA 102	Linear Algebra (1st half)	3	1	0	4
2	MA 103	Differential Equations – I (2nd half)	3	1	0	4
3	ME 111	Engineering Graphics Laboratory	1	0	3	5
4	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6
5	CS 201	Data Structure & Algorithms	3	0	0	6
6	CS 211	Data Structure & Algorithms Laboratory	0	0	3	3
7	ME 113	Hands on Engineering Laboratory	0	0	3	3
8	PH 102	Electricity and Magnetism	2	1	0	6
9	NO102/ NO104	NSO/NSS	0	0	1	PP/NP

	Total Credits					37
				\perp	L	
		SEMESTER - III				
S. No	Course Code	Course Name	L	T	P	C
1	PH 314	Electrodynamics	2	1	0	6
2	ME 201	Engineering Mechanics	2	1	0	6
3	ME 207	Thermodynamics	2	1	0	6
4	EE 210	Signals and Systems	2	1	0	6
5	EE 221	Introduction to Probability (Pre mid-sem)	3	0	0	3
6	EE 229	Electronic Devices (Pre mid-sem)	3	0	0	3
7	EE 202	Introduction to Analog Circuits (Post midsem)	3	0	0	3
8	PH 211	Introductory Physics Laboratory	0	0	3	3
	Total Credits					36
		SEMESTER - IV				
S. No	Course Code	Course Name	L	T	P	C
1	PH 323	Classical Mechanics	2	1	0	6
2	PH 310	Quantum Mechanics-I	2	1	0	6
3	EE 204	Digital Systems	2	1	0	6
4	CS 301	Computer Architecture	2	1	0	6
5	EE 212	Devices and Circuits Laboratory	0	0	3	3
6	EE 214	Digital Circuits Laboratory	0	0	3	3
7	CS 311	Computer Architecture Lab	0	0	3	3
	Total Credits					33
		SEMESTER - V				
S. No	Course Code	Course Name	L	T	P	C

S. No	Course Code	Course Name Condensed Matter Physics	L 2	Т		C
		SEMESTER - VI				
	Total Credits					35
8	HS 201	Economics	3	0	0	
7	PH 312	General Physics Laboratory	0	0	3	3
6	EE 315	Digital Signal Processing Lab (Post mid-sem)	0	0	2	2
5	ME 203	Fluid Mechanics	2	1	0	6
4	EE 227	Data Analysis (Post mid-sem)	2	1	0	3
3	EE 321	Digital Signal Processing (Pre mid-sem)	3	0	0	3
2	PH 405	Quantum Mechanics - II	2	1	0	6

5.110	Course Coue	Course Maine	L	1	1	
1	PH 434	Condensed Matter Physics	2	1	0	6
2	CE 301	Environmental Studies	3	0	0	6
3		HSS Elective - I	3	0	0	6
4		Institute Elective – 1 / RnD Project	2	1	0	6
5	PH 411	Advanced Physics Laboratory	0	0	3	3
6	ME 331	Mechanics and Measurement Lab	1	0	3	5
7	PH 307	Seminar – 1	0	0	3	3
	Total Credits		•			35

SEMESTER - VII							
S. No	Course Code	Course Name	L	T	P	C	
1		HSS Elective - II	3	0	0	6	
2		Seminar – 2	0	0	3	3	
3		Institute Elective – 2	2	1	0	6	
4		Institute Elective – 3/BTP-I	2	1	0	6	
7	Total Credits					22	

	SEMESTER -VIII					
S. No	Course Code	Course Name	L	T	P	C
1		Institute Elective – 4	2	1	0	6
2		Institute Elective – 5	2	1	0	6
3		Institute Elective – 6/ BTP-II	2	1	0	6
	Total Credits	·				18
	Ove	erall Credits Required (Minimum)	252			