

Engineering Physics

SEMESTER - I (Common for all B.Tech Courses)						
S.No	C. Code	Course	L	T	P	C
1	MA 101	Calculus	3	1	0	8
2	PH 101	Quantum Physics and Applications	2	1	0	6
3	CH 102	Fundamental Concepts and Applications of Chemistry	3	0	0	6
4	BB 103	Introduction to Modern biology	3	0	0	6
5	PH 113	Hands on Science Laboratory - I	0	0	3	3
6	CS 101	Computer Programming	3	0	2	8
7	HS 106	Design Thinking and Creativity	1	0	0	PP/ NP
8	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
First Semester Total Credits						39
SEMESTER - II						
Sl. No.	Course Code	Course Name	L	T	P	C
1	CS 201	Data Structure & Algorithms	3	0	0	6
2	EE 101	Introduction to Electrical Systems and Electronics	3	0	0	6
3	MA 102	Linear Algebra	3	1	0	4
4	MA 103	Differential Equations – I	3	1	0	4
5	PH 102	Electricity and Magnetism	2	1	0	6
6	ME 113	Hands on Engineering Laboratory	0	0	3	3
7	ME 111	Engineering Graphics Laboratory	1	0	3	5
8	CS 211	Data Structure & Algorithms Lab	0	0	3	3
9	NO107/ NO105/ NO 106/ NO 108	NSO/NSS/NCC/NCA	0	0	2	2
Second Semester Total Credits						39
Total Cumulative Credits after 1st Year						78

SEMESTER - III						
Sl. No.	Course Code	Course Name	L	T	P	C

1	PH 202	Classical Mechanics	2	1	0	6
2	PH 203	Quantum Mechanics-I	2	1	0	6
3	HS 201	Economics	2	1		6
4	ME 207	Thermodynamics	2	1	0	6
5	EE 210	Signals and Systems	2	1	0	6
6	EE 221	Introduction to Probability (Pre mid-sem)	3	0	0	3
7	EE 227	Data Analysis (Post mid-sem)	2	1	0	3
8	PH 211	Introductory Physics Laboratory	0	0	3	3
Third Semester Total Credits						39
Second Year Total Credits						75

SEMESTER - IV

Sl. No.	Course Code	Course Name	L	T	P	C
1	PH 304	Statistical Physics	2	1	0	6
2	EE 204	Digital Systems	2	1	0	6
3	CS 301	Computer Architecture	2	1	0	6
4	EE 229	Electronic Devices (Pre mid-sem)	3	0	0	3
5	ME 201	Engineering Mechanics	2	1	0	6
6	PH 212	General Physics Laboratory	0	0	3	3
7	EE 214	Digital Circuits Laboratory	0	0	3	3
8	CS 311	Computer Architecture Lab	0	0	3	3
Fourth Semester Total Credits						36
Total Cumulative Credits after 2nd Year						153

SEMESTER - V

Sl. No.	Course Code	Course Name	L	T	P	C
1	PH 201	Electrodynamics V	2	1	0	6
2	EE 202	Introduction to Analog Circuits (Post midsem)	3	0	0	3
3	EE 320	Fundamentals of Digital Signal Processing	2	0	2	6
4	EE 212	Devices and Circuits Laboratory	0	0	3	3
5	ME 203	Fluid Mechanics	2	1	0	6
6	PH 4XX	Advance Physics Laboratory	0	0	3	3
Fifth Semester Total Credits						27
Third Year Total Credits						64



SEMESTER - VI						
Sl. No.	Course Code	Course Name	L	T	P	C
1	PH 306	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	PH 302	Quantum Mechanics – II VI	2	1	0	6
5		Institute Elective – 1 / RnD Project	2	1	0	6
6	ME 330	Mechanics and Measurement Lab	1	0	3	5
7	PH 307	Seminar – 1	0	0	3	3
						38
	Total Cumulative Credits after 3rd Year					213

SEMESTER - VII						
Sl. No.	Course Code	Course Name	L	T	P	C
1		HSS Elective - II	3	0	0	6
2	PH 308	Seminar – 2	0	0	3	3
3		Institute Elective – 2	2	1	0	6
4		Institute Elective – 3	2	1	0	6
5		Institute Elective – 4/ BTP-I	2	1	0	6
	Seventh Semester Total Credits					27

SEMESTER -VIII						
Sl. 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
	Eighth Semester Total Credits					18
	Overall Credits Required (Minimum)					257

