

Prasad V. Potluri Siddhartha Institute of Technology

Course Structure for B. Tech under PVP19 regulations

(Effective from Academic Year 2019-20)

DEPARTMENT OF INFORMATION TECHNOLOGY

I B. TECH – I SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19HS1101	Communicative English I	2	0	0	2	30	70	100
19BS1101	Engineering Mathematics I (Calculus and Algebra)	3	0	0	3	30	70	100
19BS1104	Engineering Physics	3	0	0	3	30	70	100
19ES1101	Basic Electrical and Electronics Engineering	3	1	0	4	30	70	100
19ES1103	Engineering Graphics	1	0	3	2.5	30	70	100
19HS1151	Communicative English I Lab	0	0	3	1.5	25	50	75
19BS1153	Engineering Physics Lab	0	0	3	1.5	25	50	75
19ES1151	Basic Electrical and Electronics Engineering Lab	0	0	3	1.5	25	50	75
19IT3151	Information Technology Workshop	0	0	3	1.5	25	50	75
19MC1151	NCC/NSS/YOGA/Activity Clubs	0	0	2	0	100		100
	Total	12	1	17	20.5	350	550	900

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I B.TECH - II SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19HS1201	Communicative English II	2	0	0	2	30	70	100
19BS1202	Engineering Mathematics II (Probability and Statistics)	3	0	0	3	30	70	100
19BS1203	Engineering Chemistry	3	0	0	3	30	70	100
19ES1202	Problem Solving and Programming	3	1	0	4	30	70	100
19HS1251	Communicative English II Lab	0	0	3	1.5	25	50	75
19BS1251	Engineering Chemistry Lab	0	0	3	1.5	25	50	75
19ES1252	Problem Solving and Programming Lab	0	0	3	1.5	25	50	75
19ES1253	Basic Workshop	0	0	3	1.5	25	50	75
19MC1251	NCC/NSS/YOGA/Activity Clubs	0	0	2	0	100		100
	Total	11	1	14	18	320	480	800

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II B. TECH – I SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19BS1302	Engineering Mathematics III (Discrete Mathematical Structures)	3	0	0	3	30	70	100
19ES1301	AI Tools	2	0	0	2	30	70	100
19ES1302	Design Thinking & Product Innovation	2	0	0	2	30	70	100
19IT3301	Fundamentals of Digital Logic Design	3	0	0	3	30	70	100
19IT3302	Object Oriented Programming using C++	3	0	0	3	30	70	100
19IT3303	Data Structures	3	1	0	4	30	70	100
19MC1302	Constitution of India	3	0	0	0	100		100
19ES1351	AI Tools Lab	0	0	2	1	25	50	75
19ES1352	Design Thinking & Product Innovation Lab	0	0	2	1	25	50	75
19IT3351	Object Oriented Programming using C++ Lab	0	0	3	1.5	25	50	75
19IT3352	Data Structures Lab	0	0	3	1.5	25	50	75
	Total	19	1	10	22	380	620	1000

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II B.TECH - II SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19BS1403	Engineering Mathematics-IV (Number Theory and Cryptography)	3	0	0	3	30	70	100
BS1404	Life Sciences for Engineers	2	0	0	2	30	70	100
19IT3401	Computer Organization and Architecture	3	0	0	3	30	70	100
19IT3402	Operating Systems	3	0	0	3	30	70	100
19IT3403	Software Engineering Paradigms	3	0	0	3	30	70	100
19IT3404	Design and Analysis of Algorithms	3	0	0	3	30	70	100
19IT3405	Programming with JAVA	3	0	0	3	30	70	100
19MC1401	Environmental Sciences	3	0	0	0	100		100
BS1451	Life Sciences for Engineers Lab	0	0	2	1	25	50	75
19IT3451	Design and Analysis of Algorithms Lab	0	0	2	1	25	50	75
19IT3452	Programming with JAVA Lab	0	0	3	1.5	25	50	75
	Total	23	0	7	23.5	385	640	1025

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III B. TECH – I SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19ES1501	Internet of Things	2	0	0	2	30	70	100
19IT3501	Data Communication & Computer Networks	3	0	0	3	30	70	100
19IT4501	Program Elective-I	3	0	0	3	30	70	100
19IT3502	Formal Languages and Automata Theory	3	0	0	3	30	70	100
19IT3503	Database Management Systems	3	0	0	3	30	70	100
	Interdisciplinary Elective I	3	0	0	3	30	70	100
	Open Elective I	3	0	0	3	30	70	100
19ES1552	Internet of Things Lab	0	0	2	1	25	50	75
19IT3551	Database Management Systems Lab	0	0	2	1	25	50	75
	Total	20	0	4	22	260	590	850

III B.TECH - II SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19HS1601	Engineering Economics and Management	3	0	0	3	30	70	100
19IT3601	Compiler Design	3	0	0	3	30	70	100
19IT4601	Program Elective-II	3	0	0	3	30	70	100
19IT3602	Web Technologies	3	0	0	3	30	70	100
19IT4602	Program Elective-III	3	0	0	3	30	70	100
19MC1601	Engineering Ethics	3	0	0	0	100		100
	Open Elective II	3	0	0	3	30	70	100
19IT3651	Compiler Design Lab	0	0	2	1	25	50	75
19IT3652	Web Technologies Lab	0	0	3	1.5	25	50	75
19IT3653	Python Programming Lab	0	0	3	1.5	25	50	75
	Total	21	0	8	22	355	570	925

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IV B. TECH – I SEMESTER

Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19HS1701	Organization Behavior	3	0	0	3	30	70	100
19IT3701	Cryptography and Network Security	3	0	0	3	30	70	100
19IT4701	Program Elective-IV	3	0	0	3	30	70	100
19IT4702	Program Elective-V	3	0	0	3	30	70	100
	Interdisciplinary Elective II	3	0	0	3	30	70	100
19IT3761	Project Phase-I	0	0	4	2	100		100
19IT3771	Industrial Training/Internship/Research Projects in National Laboratories/Academic Institutions	0	0	0	2	75		75
	Total	15	0	4	19	325	350	675

IV B.TECH - II SEMESTER

Final Course Code	Title	L	T	P	Credits	Internals	Externals	Total
19IT4801	Program Elective-VI	3	0	0	3	30	70	100
	Inter Disciplinary Elective III	3	0	0	3	30	70	100
19IT3861	Project Phase-II	0	0	14	7	100	100	200
	Total	6	0	14	13	160	240	400