

Approved Course Structure

Program: B.Tech.- Information Technology

Regulations: SVEC-16

S. No.	Course Code	Course Title	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
I B. Tech - I Semester										
1.	16BT1HS01	Technical English	3	1	-	4	3	30	70	100
2.	16BT1BS01	Engineering Chemistry	3	1	-	4	3	30	70	100
3.	16BT1BS03	Matrices and Numerical Methods	3	1	-	4	3	30	70	100
4.	16BT1BS04	Multi-Variable Calculus and Differential Equations	3	1	-	4	3	30	70	100
5.	16BT10501	Programming in C	3	1	-	4	3	30	70	100
6.	16BT1HS31	English Language Lab	-	-	3	3	2	50	50	100
7.	16BT1BS31	Engineering Chemistry Lab	-	-	3	3	2	50	50	100
8.	16BT10331	Computer Aided Engineering Drawing	-	1	6	7	3	50	50	100
9.	16BT10531	Programming in C Lab	-	-	3	3	2	50	50	100
		Total:	15	6	15	36	24	350	550	900

S. No.	Course Code	Course Title	Contact Periods/ Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
I B. Tech - II Semester										
1.	16BT1BS02	Engineering Physics	3	1	-	4	3	30	70	100
2.	16BT2BS01	Transformation Techniques and Partial Differential Equations	3	1	-	4	3	30	70	100
3.	16BT20441	Basic Electronic Devices and Circuits	3	1	-	4	3	30	70	100
4.	16BT21201	Object Oriented Programming through C++	4	1	-	5	4	30	70	100
5.	16BT21501	Digital Logic Design	3	1	-	4	3	30	70	100
6.	16BT1BS32	Engineering Physics Lab	-	-	3	3	2	50	50	100
7.	16BT20451	Analog and Digital Electronics Lab	-	-	3	3	2	50	50	100
8.	16BT21231	IT Workshop	-	-	3	3	2	50	50	100
9.	16BT21232	Object Oriented Programming Lab	-	-	3	3	2	50	50	100
		Total:	16	5	12	33	24	350	550	900

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			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
II B. Tech - I Semester										
1.	16BT3BS01	Probability Distributions and Statistical Methods	3	1	-	4	3	30	70	100
2.	16BT30501	Computer Organization	3	1	-	4	3	30	70	100
3.	16BT30502	Data Structures	3	1	-	4	3	30	70	100
4.	16BT31201	Discrete Mathematical Structures	3	1	-	4	3	30	70	100
5.	16BT50502	Linux Programming	3	1	-	4	3	30	70	100
6.	16BT31501	Operating Systems	3	1	-	4	3	30	70	100
7.	16BT30531	Data Structures Lab	-	-	3	3	2	50	50	100
8.	16BT50532	Linux Programming Lab	-	-	3	3	2	50	50	100
9.	16BT31531	Operating Systems Lab	-	-	3	3	2	50	50	100
		Total:	18	6	9	33	24	330	570	900

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			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
II B. Tech - II Semester										
1.	16BT3HS01	Environmental Studies	3	-	-	3	3	30	70	100
2.	16BT41204	Theory of Computation	3	1	-	4	3	30	70	100
3.	16BT40502	Database Management Systems	3	1	-	4	3	30	70	100
4.	16BT41201	Design and Analysis of Algorithms	3	1	-	4	3	30	70	100
5.	16BT41202	Java Programming	3	1	-	4	3	30	70	100
6.	16BT41203	SoftwareEngineering	3	1	-	4	3	30	70	100
7.	16BT40531	Database Management Systems Lab	-	-	3	3	2	50	50	100
8.	16BT31231	Java Programming Lab	-	-	3	3	2	50	50	100
9.	16BT4HS31	Soft Skills Lab	-	-	3	3	2	50	50	100
Total:			18	5	9	32	24	330	570	900

S. No	Course Code	Course Title	Contact Periods/Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
III B. Tech - I Semester										
1.	16BT51201	Computer Graphics and Multimedia	3	1	-	4	3	30	70	100
2.	16BT50501	Computer Networks	3	1	-	4	3	30	70	100
3.	16BT51501	Compiler Design	3	1	-	4	3	30	70	100
4.	16BT51202	Object Oriented Analysis and Design	3	1	-	4	3	30	70	100
5.	16BT51203	Web Technologies	3	1	-	4	3	30	70	100
		Interdisciplinary Elective-1	3	1	-	4	3	30	70	100
6.	16BT50341	Optimization Techniques								
	16BT50442	Microprocessors and Interfacing								
	16BT60404	Image Processing								
	16BT60503	Wireless Networks								
7.	16BT51231	CASE Tools and Computer Networks Lab	-	-	3	3	2	50	50	100
8.	16BT51232	Computer Graphics and Multimedia Lab	-	-	3	3	2	50	50	100
9.	16BT51233	Web Technologies Lab	-	-	3	3	2	50	50	100
Total:			18	6	9	33	24	330	570	900

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			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
III B. Tech - II Semester										
1.	16BT3HS02	Managerial Economics and Principles of Accountancy	3	1	-	4	3	30	70	100
2.	16BT61501	Data Warehousing and Data Mining	3	1	-	4	3	30	70	100
3.	16BT61201	Cloud Computing	3	1	-	4	3	30	70	100
4.	Interdisciplinary Elective-2		3	1	-	4	3	30	70	100
	16BT60441	Pattern Recognition								
	16BT70402	Embedded Systems								
	16BT60502	Soft Computing								
	16BT61202	Ad-hoc and Wireless Sensor Networks								
5.	Program Elective - 1		3	1	-	4	3	30	70	100
	16BT30503	Python Programming								
	16BT61203	Advanced Databases								
	16BT61204	Semantic Web								
	16BT61503	Software Project Management								
6.	Open Elective		3	1	-	4	3	30	70	100
7.	16BT61231	Cloud Computing Lab	-	-	3	3	2	50	50	100
8.	16BT61232	Knowledge Engineering Lab	-	-	3	3	2	50	50	100
9.	16BT61233	Seminar	-	-	-	-	2	-	100	100
10.	16BT6MOOC	MOOC	-	-	-	-	-	-	-	-
		Total:	18	6	6	30	24	280	620	900

LIST OF OPEN ELECTIVES

S. No.	Course Code	Open Elective Course Title	S. No.	Course Code	Open Elective Course Title
1.	16BT6HS01	Banking and Insurance	16.	16BT60114	Disaster Mitigation and Management
2.	16BT6HS02	Business Communication and Career Skills	17.	16BT60115	Environmental Pollution and Control
3.	16BT6HS03	Cost Accounting and Financial Management	18.	16BT60116	Planning for Sustainable Development
4.	16BT6HS04	Entrepreneurship for Micro, Small and Medium Enterprises	19.	16BT60117	Professional Ethics
5.	16BT6HS05	French Language	20.	16BT60118	Rural Technology
6.	16BT6HS06	German Language	21.	16BT60308	Global Strategy and Technology
7.	16BT6HS07	Indian Constitution	22.	16BT60309	Intellectual Property Rights and Management
8.	16BT6HS08	Indian Economy	23.	16BT60310	Managing Innovation and Entrepreneurship
9.	16BT6HS09	Indian Heritage and Culture	24.	16BT60311	Materials Science
10.	16BT6HS10	Indian History	25.	16BT70412	Green Technologies
11.	16BT6HS11	Personality Development	26.	16BT70413	Introduction to Nanoscience and Technology
12.	16BT6HS12	Philosophy of Education	27.	16BT60505	Engineering System Analysis and Design
13.	16BT6HS13	Public Administration	28.	16BT71011	Micro-Electro- Mechanical Systems
14.	16BT60112	Building Maintenance and Repair	29.	16BT61205	Cyber Security and Laws
15.	16BT60113	Contract Laws and Regulations	30.	16BT61505	Bio-informatics

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IV B. Tech - I Semester										
1.	16BT5HS01	Management Science	3	1	-	4	3	30	70	100
2.	16BT71201	Big Data Technologies	3	1	-	4	3	30	70	100
3.	16BT71202	Mobile Application Development	3	1	-	4	3	30	70	100
4.	Program Elective - 2		3	1	-	4	3	30	70	100
	16BT71203	Information Retrieval Systems								
	16BT71204	Mobile Computing								
	16BT71505	Network Programming								
	16BT60501	Software Testing								
5.	Program Elective - 3		3	1	-	4	3	30	70	100
	16BT71205	Cryptography and Network Security								
	16BT71206	.Net Technologies								
	16BT71207	E-commerce								
	16BT71208	Service Oriented Architecture								
6.	Program Elective - 4		3	1	-	4	3	30	70	100
	16BT71209	Machine Learning								
	16BT71508	Internet of Things								
	16BT71210	High Performance Computing								
	16BT70505	Human Computer Interaction								
7.	16BT71231	Big Data Technologies Lab	-	-	3	3	2	50	50	100
8.	16BT71232	Mobile Application Development Lab	-	-	3	3	2	50	50	100
9.	16BT71233	Comprehensive Assessment	-	-	-	-	2	-	100	100
		Total:	18	6	6	30	24	280	620	900

S. No	Course Code	Course Title	Contact Periods/Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int.	Ext.	Total
IV B. Tech - II Semester										
1.	16BT81231	Project Work	-	-	-	-	12	100	100	200
		Total:	-	-	-	-	12	100	100	200
		Grand Total :						2350	4150	6500


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