

Approved Course Structure

Program: B.Tech.- Computer Science and Systems Engineering

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	16BT 1BS02	Engineering Physics	3	1	-	4	3	30	70	100
2	16BT 2BS01	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	16BT 1BS32	Engineering Physics Lab	-	-	3	3	2	50	50	100
7	16BT20451	Analog and Digital Electronic s 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

S. No	Course Code	Course Title	Contact Periods/ per Week				Credits (C)	Scheme of Examination Max. Marks		
			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	16BT41202	Java 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	16BT31231	Java 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

S. No	Course Code	Course Title	Periods per Week				Credits (C)	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
II B.Tech. -II Semester										
1	16BT3HS01	Environmental Studies	3	1	-	4	3	30	70	100
2	16BT 41204	Theory of Computation	3	1	-	4	3	30	70	100
3	16BT 40502	Database Management Systems	3	1	-	4	3		70	100
4	16BT 41201	Design and Analysis of Algorithms	3	1	-	4	3	30	70	100
5	16BT 51202	Object Oriented Analysis and Design	3	1	-	4	3	30	70	100
6	16BT 41203	Software Engineering	3	1	-	4	3	30	70	100
7	16BT 40531	Database Management Systems Lab	-	-	3	3	2	50	50	100
8	16BT 50533	Object Oriented Analysis and Design Lab	-	-	3	3	2	50	50	100
9	16BT4HS31	Soft Skills Lab	-	-	3	3	2	50	50	100
Total			18	6	9	33	24	330	570	900

S. No.	Course Code	Course Title	Contact Periods/ per Week				Scheme of Examination Max. Marks			
			L	T	P	Total	Int. Marks	Ext. Marks	Total Marks	
III B.Tech. -I Semester										
1	16BT5HS01	Management Science	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	16BT50442	Micro Processors and Interfacing	3	1	-	4	3	30	70	100
5	16BT51502	Systems Software	3	1	-	4	3	30	70	100
	Interdisciplinary Elective-1									
6	16BT30503	Python Programming								
7	16BT71203	Information Retrieval Systems	3	1	-	4	3	30	70	100
8	16BT51503	Intelligent Computing Systems								
9	16BT40501	Computer Graphics								
10	16BT50531	Computer Networks Lab	-	-	3	3	2	50	50	100
11	16BT50451	Micro Processors and Interfacing Lab	-	-	3	3	2	50	50	100
12	16BT51531	Systems Software Lab	-	-	3	3	2	50	50	100
	Total		18	6	9	33	24	330	570	900

S. No	Course Code	Course Title	Contact Periods/ Per Week				Credits (C)	Scheme of Examination Max. Marks		
			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	16BT51203	Web Technologies	3	1	-	4	3	30	70	100
Interdisciplinary Elective-2										
4	16BT50341	Optimization Techniques								
5	16BT60404	Image processing	3	1	-	4	3	30	70	100
6	16BT61201	Cloud Computing								
7	16BT71204	Mobile Computing								
Program Elective - 1										
8	16BT70505	Human Computer Interaction								
9	16BT61502	Network Security	3	1	-	4	3	30	70	100
10	16BT61503	Software Project Management								
11	16BT61504	Windows Programming								
Open Elective			3	1	-	4	3	30	70	100
12	16BT61531	Data Warehousing and Data Mining Lab	-	-	3	3	2	50	50	100
13	16BT51233	Web Technologies Lab	-	-	3	3	2	50	50	100
14	16BT61532	Seminar	-	-	-	-	2	-	100	100
15	16BT6MOOC	MOOC	-	-	-	-	-	-	-	-
Total			18	6	6	30	24	280	620	900

LIST OF OPEN ELECTIVES

Sl. No.	Course Code	Open Elective Course Title	Sl. 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	16BT71501	System Modeling and Simulation	3	1	-	4	3	30	70	100
2	16BT70402	Embedded Systems	3	1	-	4	3	30	70	100
3	16BT71502	Systems Engineering	3	1	-	4	3	30	70	100
Program Elective - 2										
4	16BT71503	Data Analytics	3	1	-	4	3	30	70	100
5	16BT71504	Performance Evaluation of Computer Systems								
6	16BT71505	Network programming								
7	16BT71506	Software Architecture and Design Patterns								
Program Elective - 3										
8	16BT71507	Business Analytics	3	1	-	4	3	30	70	100
9	16BT71202	Mobile Application Development								
10	16BT60502	Soft Computing								
11	16BT60501	Software Testing								
Program Elective - 4										
12	16BT71210	High Performance Computing	3	1	-	4	3	30	70	100
13	16BT71508	Internet of Things								
14	16BT71509	Secure Software Engineering								
15	16BT60503	Wireless Networks								
16	16BT70432	Embedded Systems Lab	-	-	3	3	2	50	50	100
17	16BT71531	System Modeling and Simulation Lab	-	-	3	3	2	50	50	100
18	16BT71532	Comprehensive Assessment	-	-	-	-	2	-	100	100
Total			18	6	6	30	24	280	620	900

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IV B.Tech. - II Semester										
1	16BT 81531	Project Work *	-	-	-	-	12	100	100	200
Total			0	0	0	0	12	100	100	200


DEAN (Academics)

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