

Approved Course Structure

Program: B.Tech.- Information Technology

Regulations: SVEC-19

Mandatory Induction Program	03 weeks duration
Induction program offered before commencement of the I-Semester course work	Physical activity
	Creative Arts
	Universal Human Values
	Literary
	Proficiency Modules
	Lectures by Eminent People
	Visits to local Areas
	Familiarization to Department/Branch and Innovations

I B.Tech. – I Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT1BS01	Differential Equations and Multivariable Calculus	3	1	-	4	4	40	60	100
2.	19BT1BS04	Engineering Chemistry	3	-	-	3	3	40	60	100
3.	19BT1HS01	Communicative English	3	-	-	3	3	40	60	100
4.	19BT10501	Programming for Problem Solving	3	1	-	4	4	40	60	100
5.	19BT1BS32	Engineering Chemistry Lab	-	-	2	2	1	50	50	100
6.	19BT1HS31	Communicative English Lab	-	-	2	2	1	50	50	100
7.	19BT10331	Computer Aided Engineering Drawing	-	1	2	3	2	50	50	100
8.	19BT10531	Programming for Problem Solving Lab	-	-	2	2	1	50	50	100
Total:			12	3	8	23	19	360	440	800

I B.Tech. – II Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT2BS01	Transformation Techniques and Linear Algebra	3	1	-	4	4	40	60	100
2.	19BT1BS02	Biology for Engineers	2	-	-	2	2	40	60	100
3.	19BT1BS03	Engineering Physics	3	-	-	3	3	40	60	100
4.	19BT10201	Basic Electrical and Electronics Engineering	3	-	-	3	3	40	60	100
5.	19BT20501	Digital Logic Design	3	-	-	3	3	40	60	100
6.	19BT21501	Object Oriented Programming through Java	3	-	-	3	3	40	60	100
7.	19BT1BS31	Engineering Physics Lab	-	-	2	2	1	50	50	100
8.	19BT10231	Basic Electrical and Electronics Engineering Lab	-	-	2	2	1	50	50	100
9.	19BT20331	Engineering Workshop	-	-	2	2	1	50	50	100
10.	19BT21531	Object Oriented Programming through Java Lab	-	1	2	3	2	50	50	100
Total:			17	2	8	27	23	440	560	1000
11.	19BT1AC01	Spoken English	2	-	-	2	-	-	-	-

II B.Tech. – I Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT3BS01	Numerical Methods, Probability and Statistics	3	1	-	4	4	40	60	100
2.	19BT30501	Computer Graphics	3	-	-	3	3	40	60	100
3.	19BT30502	Computer Organization	3	-	-	3	3	40	60	100
4.	19BT30503	Data Structures	3	1	-	4	4	40	60	100
5.	19BT31201	Discrete Mathematical Structures	3	-	-	3	3	40	60	100
6.	19BT31202	Software Engineering	3	-	-	3	3	40	60	100
7.	19BT30531	Data Structures Lab	-	-	2	2	1	50	50	100
8.	19BT31231	IT Workshop	-	-	2	2	1	50	50	100
9.	19BT31232	Software Engineering Lab	-	-	2	2	1	50	50	100
Total:			18	2	6	26	23	390	510	900
10.	19BT315AC	Design Thinking	2	-	-	2	-	-	-	-

II B.Tech. – II Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT40501	Computer Networks	3	-	-	3	3	40	60	100
2.	19BT40502	Database Management Systems	3	1	-	4	4	40	60	100
3.	19BT31502	Operating Systems	3	-	-	3	3	40	60	100
4.	19BT41501	Theory of Computation	3	-	-	3	3	40	60	100
5.	Open Elective-2		3	-	-	3	3	40	60	100
6.	19BT3HS31	Soft Skills Lab	-	-	2	2	1	50	50	100
7.	19BT40531	Computer Networks Lab	-	-	2	2	1	50	50	100
8.	19BT40532	Database Management Systems Lab	-	-	2	2	1	50	50	100
9.	19BT31532	Operating Systems Lab	-	-	2	2	1	50	50	100
Total:			15	1	8	24	20	400	500	900
10.	19BT3MC0 1	Environmental Science	2	-	-	2	-	40	-	40

III B.Tech. – I Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT40503	Design and Analysis of Algorithms	3	-	-	3	3	40	60	100
2.	19BT51201	Data Warehousing and Data Mining	3	-	-	3	3	40	60	100
3.	19BT51202	Web Technologies	3	-	-	3	3	40	60	100
4.	Professional Elective-1		3	-	-	3	3	40	60	100
	19BT50501	Machine Learning								
	19BT60502	Cryptography and Network Security								
	19BT71503	Software Testing								
	19BT51203	Advanced Databases								
	19BT51204	Linux Programming								
5.	Open Elective-1		3	-	-	3	3	40	60	100
6.	Open-Elective-3 (Inter Disciplinary Elective-1)		3	-	-	3	3	40	60	100
	19BT50441	Microprocessors and Interfacing								
	19BT60407	Image Processing								
	19BT51205	Mobile Computing								
	19BT51206	Wireless Networks								
7.	19BT51231	Data Warehousing and Data Mining Lab	-	-	2	2	1	50	50	100
8.	19BT51232	Web Technologies Lab	-	-	2	2	1	50	50	100
9.	19BT51233	Socially Relevant Project-1	-	-	-	-	1	50	50	100
Total:			18	-	4	22	21	390	510	900
10.	19BT5MC01	Universal Human Values	2	-	-	2	-	40	-	40

III B.Tech. – II Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT6HS02	Organizational Behavior	3	-	-	3	3	40	60	100
2.	19BT60501	Compiler Design	3	-	-	3	3	40	60	100
3.	19BT61201	Cloud Computing	3	-	-	3	3	40	60	100
4.	Professional Elective-2		3	-	-	3	3	40	60	100
	19BT50502	Advanced Computer Architecture								
	19BT60504	Soft Computing								
	19BT60542	GPU Computing								
	19BT61202	Information Retrieval Systems								
	19BT61203	Semantic Web and Social Networks								
5.	Professional Elective-3		3	-	-	3	3	40	60	100
	19BT50503	Artificial Intelligence								
	19BT50504	Cyber Security								
	19BT61505	User Interface Design								
	19BT61204	Information Security and Management								
	19BT61205	.Net Technologies								
6.	Open-Elective-4 (Inter Disciplinary Elective-2)		3	-	-	3	3	40	60	100
	19BT60441	Pattern Recognition								
	19BT70401	Embedded Systems								
	19BT60541	Ad Hoc and Wireless Sensor Networks								
	19BT61206	Intrusion Detection Systems								
7.	19BT61531	Internet of Things Lab	-	1	2	3	2	50	50	100
8.	19BT61231	Cloud Computing Lab	-	-	2	2	1	50	50	100
9.	19BT61232	Socially Relevant Project-2	-	-	-	-	1	50	50	100
Total:			18	1	4	23	22	390	510	900
10.	19BT503AC	Foundations of Entrepreneurship	2	-	-	2	-	-	-	-

IV B.Tech. – I Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT6HS01	Principles of Business Economics and Accountancy	3	-	-	3	3	40	60	100
2.	19BT71201	Data Analytics	3	-	-	3	3	40	60	100
3.	19BT71202	Mobile Application Development	3	-	-	3	3	40	60	100
4.	Professional Elective-4		3	-	-	3	3	40	60	100
	19BT71505	Deep Learning								
	19BT71203	Big Data Technologies								
	19BT71204	Computer Forensics								
	19BT71205	Decision Support and Intelligent Systems								
	19BT71206	System and Network Administration								
5.	Professional Elective-5		3	-	-	3	3	40	60	100
	19BT70502	Augmented Reality and Virtual Reality								
	19BT70504	Blockchain Technologies								
	19BT61502	High Performance Computing								
	19BT71207	Game Development								
	19BT71208	Mobile Databases								
6.	19BT7MOOC	Open Elective-5 (MOOC)	-	-	-	-	3	-	100	100
7.	19BT71231	Data Analytics Lab	-	-	2	2	1	50	50	100
8.	19BT71232	Mobile Application Development Lab	-	-	2	2	1	50	50	100
9.	19BT71233	Internship	-	-	-	-	2	-	100	100
Total:			15	-	4	19	22	300	600	900
10.	19BT712AC	Data Science and Applications	2	-	-	2	-	-	-	-

IV B.Tech. – II Semester

Sl. No.	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
1.	19BT81231	Project Work	-	-	-	-	10	100	100	200
Total:			-	-	-	-	10	100	100	200

LIST OF COURSES FOR

OPEN ELECTIVE-1 and OPEN ELECTIVE-2

Course Code	Open Elective -1	Course Code	Open Elective -2
19BT4BS01	Material Science	19BT4HS01	Banking and Insurance
19BT4HS02	Business Communication and Career Skills	19BT4HS03	Cost Accounting and Financial Management
19BT4HS04	Entrepreneurship for Micro, Small and Medium Enterprises	19BT4HS05	Gender and Environment
19BT4HS06	German Language	19BT4HS07	Indian Economy
19BT4HS08	Indian History	19BT4HS09	Life Skills
19BT4HS10	Personality Development	19BT4HS11	Professional Ethics
19BT4HS12	Women Empowerment	19BT4HS13	Indian Tradition and Culture
19BT4HS14	Constitution of India	19BT40106	Disaster Mitigation and Management
19BT40205	Reliability and Safety Engineering	19BT40107	Sustainable Engineering
19BT50107	Environmental Pollution and Control	19BT40108	Contract Laws and Regulations
19BT50108	Planning for Sustainable Development	19BT40306	Global Strategy and Technology
19BT50109	Rural Technology	19BT40307	Management Science
19BT50505	Ethical Hacking	19BT40504	Cyber Laws and Security
19BT51207	AI in Healthcare	19BT50208	Intellectual Property Rights
19BT51506	Bioinformatics	19BT50409	Green Technologies

MINOR/HONORS DEGREE
INTERNET OF THINGS (IoT)

Semester	Course Code	Course Title	Contact Periods per week				C	Scheme of Examination Max. Marks		
			L	T	P	Total		Int. Marks	Ext. Marks	Total Marks
III B.Tech. I-Sem.	19BT51208	Embedded System Design and Architecture	3	-	-	3	3	40	60	100
	19BT51209	IoT Architecture and Protocols	3	-	-	3	3	40	60	100
	19BT51210	Sensors Technology	3	-	-	3	3	40	60	100
	19BT51234	Sensors based IoT Lab	-	-	2	2	1	50	50	100
III B.Tech. II-Sem.	19BT61207	Cloud Storage and Computing	3	-	-	3	3	40	60	100
	19BT61208	Privacy and Security in IoT	3	-	-	3	3	40	60	100
	19BT61209	Software Defined Networks for IoT	3	-	-	3	3	40	60	100
	19BT61233	IoT Application Development Lab	-	-	2	2	1	50	50	100
IV B.Tech. I-Sem.	19BT71209	Advanced IoT	3	-	-	3	3	40	60	100
	19BT71210	Big Data Analytics for IoT	3	-	-	3	3	40	60	100
	19BT71234	Advanced IoT Lab	-	-	2	2	1	50	50	100

Note:

Students need to select 2 theory courses and 1 lab course from III B. Tech, I & II semesters and 1 theory course and 1 lab course from IV B.Tech, I semester to obtain Honors/Minor degree with 18 credits.



DEAN (Academics)

Dean (Academics)
Sree Vidyanikethan Engg. College
Sree Sainath Nagar
TIRUPATI - 517 102, A.P., India.



PRINCIPAL
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SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
Sree Sainath Nagar, A. RANGAMPET
Chittoor (Dist.) - 517 102, A.P., INDIA.