

Department of Information Technology

Approved Course Structure

Program: B.Tech.-INFORMATION TECHNOLOGY

Regulations: SVEC-20

Mandatory Induction Program	03 weeks duration
Induction program offered before commencement of the I-Semester coursework	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.	20BT1BS01	Differential Equations and Multivariable Calculus	3	-	-	3	3	30	70	100
2.	20BT1BS02	Engineering Chemistry	3	-	-	3	3	30	70	100
3.	20BT1HS01	Communicative English	3	-	-	3	3	30	70	100
4.	20BT11201	Programming for Problem Solving	3	-	-	3	3	30	70	100
5.	20BT10201	Basic Electrical and Electronics Engineering	3	-	-	3	3	30	70	100
6.	20BT1BS31	Engineering Chemistry Lab	-	-	3	3	1.5	30	70	100
7.	20BT1HS31	Communicative English Lab	-	-	3	3	1.5	30	70	100
8.	20BT11231	Programming for Problem Solving Lab	-	-	3	3	1.5	30	70	100
9.	20BT1MC01	Universal Human Values (Mandatory Course)	2	-	-	2	-	30	-	30
Total:			17	-	09	26	19.5	270	560	830

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.	20BT2BS01	Transformation Techniques and Linear Algebra	3	-	-	3	3	30	70	100
2.	20BT1BS03	Engineering Physics	3	-	-	3	3	30	70	100
3.	20BT20501	Digital Logic Design	3	-	-	3	3	30	70	100
4.	20BT21501	Object Oriented Programming through Java	3	-	-	3	3	30	70	100
5.	20BT10331	Computer Aided Engineering Drawing	-	1	4	5	3	30	70	100
6.	20BT1BS32	Engineering Physics Lab	-	-	3	3	1.5	30	70	100
7.	20BT10332	Engineering Workshop	-	-	3	3	1.5	30	70	100
8.	20BT21531	Object Oriented Programming through Java Lab	-	-	3	3	1.5	30	70	100
9.	20BT1HSAC	Spoken English (Audit Course)	2	-	-	2	-	-	-	-
Total:			14	1	13	28	19.5	240	560	800

II B.Tech I-Semester

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
1.	20BT3BS01	Numerical Methods, Probability and Statistics	3	-	-	3	3	30	70	100
2.	20BT12901	Discrete Mathematical Structures	3	-	-	3	3	30	70	100
3.	20BT31201	Software Engineering	3	-	-	3	3	30	70	100
4.	20BT30502	Data Structures	3	-	-	3	3	30	70	100
5.	20BT31502	Operating Systems	3	-	-	3	3	30	70	100
6.	20BT31532	Operating Systems Lab	-	-	3	3	1.5	30	70	100
7.	20BT30531	Data Structures Lab	-	-	3	3	1.5	30	70	100
8.	20BT31231	Software Engineering Lab	-	-	3	3	1.5	30	70	100
9.	20BT31232	Programming with Python Lab	-	1	2	3	2	30	70	100
Total			15	01	11	27	21.5	270	630	900
10.	20BT315AC	Design Thinking	2	-	-	2	-	-	-	-

II B.Tech II–Semester

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
1.	20BT50502	Design and Analysis of Algorithms	3	-	-	3	3	30	70	100
2.	20BT41501	Theory of Computation	3	-	-	3	3	30	70	100
3.	20BT50501	Computer Networks	3	-	-	3	3	30	70	100
4.	20BT40501	Database Management Systems	3	-	-	3	3	30	70	100
5.	Open Elective-2						3	30	70	100
6.	20BT41231	IoT Application Development Lab	-	-	3	3	1.5	30	70	100
7.	20BT50531	Computer Networks Lab	-	-	3	3	1.5	30	70	100
8.	20BT40531	Database Management Systems Lab	-	-	3	3	1.5	30	70	100
9.	20BT3HS31	Soft Skills Lab	-	1	2	3	2	30	70	100
Total			15	01	11	27	21.5	270	630	900
10.	20BT3MC01	Environmental Science	2	-	-	2	-	30	-	30

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.	20BT5HS01	Organizational Behaviour	3	-	-	3	3	30	70	100
2.	20BT51201	Data Warehousing and Data Mining	3	-	-	3	3	30	70	100
3.	20BT51202	Web Technologies	3	-	-	3	3	30	70	100
4.	Open Elective-1		3	-	-	3	3	30	70	100
5.	Professional Elective-1		3	-	-	3	3	30	70	100
	20BT51203	Advanced Databases								
	20BT60504	Cryptography and Network Security								
	20BT51506	Software Testing								
	20BT51204	Linux Programming								
	20BT60503	Soft Computing								
6.	20BT51231	Data Warehousing and Data Mining Lab	-	-	3	3	1.5	30	70	100
7.	20BT51232	Web Technologies Lab	-	-	3	3	1.5	30	70	100
8.	20BT50532	Python for Data Science Lab	-	1	2	3	2	30	70	100
9.	20BT51233	Summer Internship	-	-	-	-	1.5	-	100	100
Total:			15	01	08	24	21.5	240	660	900
10.	20BT5MC01	Professional Ethics	2	-	-	2	-	30	-	30

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.	20BT5HS02	Principles of Business Economics and Accountancy	3	-	-	3	3	30	70	100
2.	20BT61201	Cloud Computing	3	-	-	3	3	30	70	100
3.	20BT70505	Blockchain Technologies	3	-	-	3	3	30	70	100
4.	Professional Elective-2									
	20BT61202	Information Retrieval Systems								
	20BT61203	Semantic Web and Social Networks								
	20BT60502	Compiler Design	3	-	-	3	3	30	70	100
	20BT61204	Web Development using Angular and Bootstrap								
	20BT70501	Computer Vision								
5.	Professional Elective-3									
	20BT61205	Information Security and Management								
	20BT50504	Cyber Security	3	-	-	3	3	30	70	100
	20BT61506	User Interface Design								
	20BT70502	Full Stack Development								
	20BT43101	Artificial Intelligence								
6.	Interdisciplinary Elective-1									
	20BT40441	Microprocessors and Interfacing								
	20BT61206	Mobile Computing	3	-	-	3	3	30	70	100
	20BT60406	Image Processing								
	20BT61207	Wireless Networks								
7.	20BT61231	Cloud Computing Lab	-	-	3	3	1.5	30	70	100
8.	20BT61232	AI Tools Lab	-	-	3	3	1.5	30	70	100
9.	20BT61233	Advanced Web Development Lab	-	1	2	3	2	30	70	100
Total:			18	01	08	27	23	270	630	900
10.	20BT503AC	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.	20BT71201	Mobile Application Development	3	-	-	3	3	30	70	100
2.	20BT71202	Data Analytics	3	-	-	3	3	30	70	100
3.	Professional Elective-4		3	-	-	3	3	30	70	100
	20BT71203	Big Data Technologies								
	20BT71204	Computer Forensics								
	20BT71205	System and Network Administration								
	20BT71206	Game Development								
	20BT71207	Decision Support and Intelligent Systems								
4.	Professional Elective-5		3	-	-	3	3	30	70	100
	20BT71208	Mobile Databases								
	20BT71209	Digital and Social Media Marketing								
	20BT50503	Advanced Computer Architecture								
	20BT71210	. Net Technologies								
	20BT60501	Machine Learning								
5.	Interdisciplinary Elective-2		3	-	-	3	3	30	70	100
	20BT70401	Embedded Systems								
	20BT60541	Ad-hoc and Wireless sensor networks								
	20BT70441	Pattern Recognition								
	20BT71211	Intrusion Detection Systems								
6.	20BT71231	Mobile Application Development Lab	-	-	3	3	1.5	30	70	100
7.	20BT71232	Data Analytics Lab	-	-	3	3	1.5	30	70	100
8.	20BT71233	Augmented Reality and Virtual Reality Applications Lab	-	1	2	3	2	30	70	100
9.	20BT71234	Summer Internship	-	-	-	-	1.5	-	100	100
Total:			15	01	08	24	21.5	240	660	900
10.	20BT712AC	Deep Learning Technologies	2	-	-	2	-	-	-	-


IV B.Tech II–Semester


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
1.	20BT81231	Project Work	-	-	-	-	12	100	100	200
2.	20BT81232	Internship	-	-	-	-	-	-	-	-
Total			-	-	-	-	12	100	100	200

LIST OF COURSES FOR

OPEN ELECTIVE-1 AND OPEN ELECTIVE-2

Course Code	Open Elective -1	Course Code	Open Elective -2
20BT4BS01	Material Science	20BT4HS01	Banking and Insurance
20BT4HS02	Business Communication and Career Skills	20BT4HS03	Cost Accounting and Financial Management
20BT4HS04	Entrepreneurship for Micro, Small and Medium Enterprises	20BT4HS05	Gender and Environment
20BT4HS06	German Language	20BT4HS07	Indian Economy
20BT4HS08	Indian History	20BT4HS09	Life Skills
20BT4HS10	Personality Development	20BT4HS11	Indian Tradition and Culture
20BT4HS12	Women Empowerment	20BT4HS13	Constitution of India
20BT40205	Reliability and Safety Engineering	20BT50106	Disaster Mitigation and Management
20BT40105	Environmental Pollution and Control	20BT50107	Sustainable Engineering
20BT40106	Planning for Sustainable Development	20BT50108	Contract Laws and Regulations
20BT40107	Rural Technology	20BT50310	Global Strategy and Technology
20BT40305	Human Resource Management	20BT50311	Management Science
20BT50506	Ethical Hacking	20BT40502	Cyber Laws and Security
20BT51205	AI in Healthcare	20BT50206	Intellectual Property Rights
20BT51501	Bioinformatics	20BT50406	Green Technologies


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