SREE VIDYANIKETHAN ENGINEERING COLLEGE

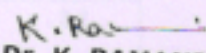## (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET-517 102

Agenda for 11ᵗʰ Meeting of Board of Studies for B. Tech. (Information Technology) on 13-07-2020at10.30 AM

1. Action taken report on minutes/resolutions of 10ᵗʰ BOS meeting.

2. Report on implementation of autonomy with respect to syllabi&academic regulations for IV B. Tech (under SVEC16) and I B.Tech under SVEC-19 regulations.

3. Academic Calendar for II, III and IV Year B.Tech for 2020-21.

4. Vision and Mission of the Department, PEOs, POs & PSOs for B. Tech. (IT) Program

5. Administrative set-up for B. Tech Program.

6. Syllabi with Course Objectives, Course Outcomes, Lesson Plans and Model Question Papersforthe Courses of II B. Tech(Under SVEC-19).

7. Panel of Examiners for Question paper setting for II B.Tech courses(Under SVEC-19).

8. Amendments to SVEC-19 B.Tech Academic Regulations

9. Implementation of Teaching, Learning and Evaluation Process.

10. Substitute Courses.

11. Research Activities.

12. Faculty Development Activities.

13. Staff Development Activities.

14. Student Development Activities.

15. Student Support Systems.

16. Extension Activities.

17. Any other item.

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Dr. K. RAMANI
Chairman, BOS (IT)

Members Present

S.No	Name	B.O.S Affiliation
1.	**Dr. K. Ramani** Professor & Head	Chairperson
2.	**Prof.B.Eswara Reddy** Professor & Principal Department of CSE JNTUA College of Engineering Kalkiri-517234 Chittoor(DT)	External Member
3.	**Mr. Srinivas Kongara** Associate Manager Accenture, Hyderabad 500003, Telangana, India.	External Member
4.	**Mr. B. Jayachandra Reddy** Software Engineer Wipro Limited, Electronic City, Bangalore, Karnataka -561 229	External Member
5.	**Dr. L. V. Reddy** Professor of IT	Internal Member
6.	**Dr. A. Srinivasulu** Professor of IT	Internal Member
7.	**Dr. A. Srinivasulu** Professor of IT	Internal Member
8.	**Dr. K. Khaja Baseeer** Associate Professor of IT	Internal Member
9.	**Mr. P. Srinivasa Reddi** Associate Professor of IT	Internal Member
10.	**Dr.P.Siva Kumar** Associate Professor of IT	Internal Member
11.	**Dr. V. Lokanadham Naidu** Associate Professor of IT	Internal Member
12.	**Dr. V. Jyothsna** Associate Professor of IT	Internal Member
13.	**Mr.Ch.Sreenu Babu** Assistant Professor of IT	Internal Member

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Department of Information Technology

Minutes of 11th meeting of B.O.S (I.T) conducted on 13-07-2020 at 10.30 AM.

1. Members of B.O.S were apprised of the Action Taken Report on minutes of 10th B.O.S meeting held on 10.06.2019.

2. A copy of report on implementation of autonomy with respect to IV B. Tech, I & II semesters of SVEC-16 regulations and I B. Tech, I & II semesters of SVEC-19 was present.

3. The B.O.S members have appreciated the Teaching, Learning and Evaluation Process.

4. The external members of B.O.S have appreciated the research and consultancy activities of Information Technology department.

5. The external members of B.O.S have appreciated the student, staff and faculty development activities that are conducted during the Academic Year 2019-20.

6. The external BoS member **Mr. Srinivasa Kongara** suggested to include the topic Intel Multicore architecture in Unit-5 of Computer Organization course.

7. The external BoS member **Mr. Srinivasa Kongara** suggested to include more topics related to Agile Process in Software Engineering course.

8. The external BoS member **Mr. Srinivasa Kongara** suggested to include the topic HTTPS in Computer Networks course.

9. The external BoS member **Mr. Srinivasa Kongara** suggested to implement exercises of Design Thinking Lab course as Team activity.

10. The external BoS member **Mr. Srinivasa Kongara** suggested to include the topic Carbon Footprint in Green Technologies course.

11. As per the external BoS member **Dr. B. Eswara Reddy** suggestion it is decided to follow modalities proposed by APSCHE and JNTUA to conduct online theory classes, lab sessions and examinations during COVID-19 pandemic situation.

12. The external BoS member **Dr. B. Eswara Reddy** also suggested to reduce syllabi which is appropriate to conduct online classes.

Dr. K. Ramani
Chairperson, BoS-IT

APPROVED COURSE STRUCTURE

PROGRAM: INFORMATION TECHNOLOGY

REGULATION: SVEC19

INFORMATION TECHNOLOGY (IT)

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					Scheme of Examination Max. Marks		
			L	T	P	Total	C	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.	19BT31501	Design Thinking	2	-	-	2	2	40	60	100
3.	19BT30501	Computer Organization and Architecture	3	-	-	3	3	40	60	100
4.	19BT31201	Discrete Mathematical Structures	3	-	-	3	3	40	60	100
5.	19BT31202	Software Engineering	3	-	-	3	3	40	60	100
6.	19BT30502	Data Structures	3	1	-	4	4	40	60	100
7.	19BT31231	IT Workshop	-	-	2	2	1	50	50	100
8.	19BT31232	Software Engineering Lab	-	-	2	2	1	50	50	100
9.	19BT31531	Design Thinking Lab	-	-	2	2	1	50	50	100
10.	19BT30532	Data Structures Lab	-	-	2	2	1	50	50	100
		Total:	17	2	8	27	23	440	560	1000
11.	19BT3MC01	Constitution of India	3	-	-	3	-	40	--	40

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.	19BT41501	Operating Systems	3	-	-	3	3	40	60	100
2.	19BT41503	Theory of Computation	3	-	-	3	3	40	60	100
3.	19BT40503	Database Management Systems	3	1	-	4	4	40	60	100
4.	19BT40504	Computer Networks	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.	19BT41231	AI Tools Lab	-	1	2	3	2	50	50	100
8.	19BT41531	Operating Systems Lab	-	-	2	2	1	50	50	100
9.	19BT40532	Database Management Systems Lab	-	-	2	2	1	50	50	100
10.	19BT40533	Computer Networks Lab	-	-	2	2	1	50	50	100
		Total:	15	2	10	27	22	450	550	1000
11.	19BT3MC02	Environmental Science	3	-	-	3	-	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.	19BT40502	Algorithm Design and Analysis	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
	19BT50503	Cryptography and Network Security								
	19BT50501	Machine Learning								
	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
	19BT60406	Image Processing								
	19BT50441	Microprocessors and Interfacing								
	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.	19BT5AC05	Graphics and Multimedia	2	-	-	2	-	-	-	-

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	2	-	-	2	2	40	60	100
3.	19BT61201	Cloud Computing	3	-	-	3	3	40	60	100
		Professional Elective–2								
4.	19BT50502	Advanced Computer Architecture	3	-	-	3	3	40	60	100
	19BT70507	GPU Computing								
	19BT60503	Soft Computing								
	19BT61202	Information Retrieval Systems								
	19BT61203	Semantic Web and Social Networks								
		Professional Elective–3								
5.	19BT40501	Artificial Intelligence	3	-	-	3	3	40	60	100
	19BT51504	User Interface Design								
	19BT70502	Cyber Security								
	19BT61204	Information Security and Management								
	19BT61205	.Net Technologies								
		Open-Elective-4 (Inter Disciplinary Elective–2)								
6.	19BT60410	Embedded Systems	3	-	-	3	3	40	60	100
	19BT70409	Pattern Recognition								
	19BT60502	Ad hoc and Wireless Sensor Networks								
	19BT61206	Intrusion Detection Systems								
7.	19BT61532	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:	17	1	4	22	21	390	510	900
10.	19BT5MC01	Indian Tradition and Culture	3	-	-	3	-	40	--	40

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	2	-	-	2	2	40	60	100
3.	19BT71202	Mobile Application Development	3	-	-	3	3	40	60	100
4.	**Professional Elective–4**		3	-	-	3	3	40	60	100
	19BT71507	Deep Learning								
	19BT71203	Big Data Technologies								
	19BT71204	Digital Forensics								
	19BT71205	Knowledge based Decision Support Systems								
	19BT71206	System Administration and Maintenance								
5.	**Professional Elective–5**		3	-	-	3	3	40	60	100
	19BT70505	Blockchain Technologies								
	19BT70504	Augmented Reality and Virtual Reality								
	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:	14	-	4	18	21	300	600	900
10.	19BT7AC05	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 & OPEN ELECTIVE-2

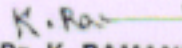| Course Code	Open Elective -1	Course Code	Open Elective -2
19BT4BS01	Material Science	19BT4HS01	Banking and Insurance
19BT4HS02	Business Communication and Career Skills	19BT4HS03	Cost Accountancy and Financial Management
19BT4HS04	Entrepreneurship for Micro, Small and Medium Enterprises	19BT4HS05	Gender and Environment
19BT4HS06	German Language	19BT4HS07	Indian Economy
19BT4HS08	Indian History	19BT4HS09	Life Skills
19BT4HS10	Personality Development	19BT4HS11	Professional Ethics
19BT4HS12	Women Empowerment	19BT40105	Disaster Mitigation and Management
19BT50105	Environmental Pollution and Control	19BT40106	Sustainable Engineering
19BT50106	Planning for Sustainable Development	19BT40107	Contract Laws and Regulations
19BT50107	Rural Technology	19BT50208	Intellectual Property Rights
19BT40205	Energy Management and Conservation	19BT40305	Global Strategy and Technology
19BT50504	Ethical Hacking	19BT40306	Management Science
19BT51207	ICT in Healthcare	19BT50408	Green Technologies
19BT51505	Bioinformatics	19BT40505	Cyber Laws and Security

MINOR DEGREE IN A DISCIPLINE

Courses for Minor Degree in Information Technology

Semester	Course Code	Course Title	Contact Periods per week				C
			L	T	P	Total	
III B.Tech I-Sem	19BT30502	Data Structures	3	1	-	4	4
	19BT31202	Software Engineering	3	-	-	3	3
III B.Tech II-Sem	19BT40503	Database Management Systems	3	1	-	4	4
	19BT71201	Data Analytics	2	-	-	2	2
	19BT40532	Database Management Systems Lab	-	-	2	2	1
IV B.Tech I-Sem	19BT51202	Web Technologies	3	-	-	3	3
	19BT70507	GPU Computing	3	-	-	3	3
	19BT51232	Web Technologies Lab	-	-	2	2	1
						TOTAL	21

HONOURS DEGREE IN A DISCIPLINE

Advanced Courses for B.Tech Degree with Honours in Information Technology

Semester	Course Code	Courses	L	C
III B.Tech I-Sem	19BT51208	Advanced Algorithms	3	3
	19BT51209	Kernel Programming	3	3
	19BT51210	Advanced Programming	3	3
III B.Tech II-Sem	19BT61207	Database Design and Administration	3	3
	19BT61208	Information Theory and Coding	3	3
	19BT61209	Secure Coding	3	3
IV B.Tech I-Sem	19BT71209	Cloud Security	3	3
	19BT71210	Cyber Physical Systems	3	3
	19BT71211	Full Stack Technologies	3	3
	19BT71212	Smart Robots	3	3
	19BT71234	Mini Project	-	5

K. Ra
Dr. K. RAMANI
Chairman, BOS (IT)

LIST OF NEW COURSES INTRODUCED

Program: INFORMATION TECHNOLOGY

Regulation: SVEC19

Course Code	Name of the course
19BT1BS02	Biology for Engineers
19BT1AC01	Spoken English
19BT31232	Software Engineering Lab
19BT315AC	Design Thinking
19BT40531	Computer Networks Lab
19BT4HS05	Gender & Environment
19BT4HS09	Life Skills
19BT4HS11	Professional Ethics
19BT40107	Sustainable Engineering
19BT4HS12	Women Empowerment
19BT4BS01	Material Science

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