



# **SREE VIDYANIKETHAN ENGINEERING COLLEGE**

(AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET-517102

## **Agenda for 13<sup>th</sup> Meeting of Board of Studies for B. Tech.** **(Computer Science and Systems Engineering) on 10.07.2021 at 10:30 AM**

1. Action taken report on minutes/resolutions of 12<sup>th</sup> BOS meeting.
2. Report on implementation of Autonomy with respect to syllabi & academic regulations for II-B.Tech (under SVEC19) and I B.Tech (under SVEC-20 regulations).
3. **Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of III & IV B.Tech including Minor & Honors Degrees (Under SVEC-19).**
4. **Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of II, III & IV B.Tech (Under SVEC-20) and Course structure of Minor & Honors Degrees (Under SVEC-20).**
5. Regulation-wise, list of courses in which the content of the syllabus is changed more than 20%.
6. List of new courses introduced in SVEC-19 and SVEC-20.
7. Panel of Examiners for Question paper setting.
8. Substitute Courses.
9. Amendments to B. Tech academic regulations under SVEC-19 and SVEC-20 Regulations.
10. Appraisal on research, teaching, extension and other academic activities, achievements of the Department.
11. Any other item.

**Dr. P. Dhana Lakshmi**  
Chairperson, BOS (CSSE)

**SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)**

SreeSainath Nagar, Tirupati - 517102

**Department of Computer Science and Systems Engineering**

**13<sup>th</sup> Board of Studies Meeting held on 10-07-2021**

13<sup>th</sup> Board of Studies Meeting of the department of CSSE was held on 10-07-2021 at 10:30AM in Zoom Platform.

**MEMBERS PRESENT:**

S.No	Name	Designation	Phone Numbers	Mail IDs
1	<b>Dr.P.Dhana Lakshmi</b> Associate Professor Dept. of CSSE, SVEC	Chairperson	9440101946	bos_csse@vidyanikethan.edu
2	<b>Dr.S.VASUNDARA</b> Professor, Dept. of CSE JNTUA, College of Engineering, JNTU Anantapur, Ananthapuramu- 515002	External Member Nominated by Vice Chancellor, JNTUA	9440505837	vasundaras.cse@jntua.ac.in
3	<b>Dr. B.K. TRIPATHY</b> Senior Professor & Dean, School of Computing Science and Engineering, VIT University, Vellore-632014, Tamil Nadu	External Member Nominated by Vice Chancellor, JNTUA	09489343018	tripathybk@rediffmail.com
4	<b>Dr. P. VARALAKSHMI</b> Associate Professor of Computer Technology, Madras Institute of Technology, MIT Road, Radha Nagar,Chromepet, Chennai - 600044	External Member Nominated by Vice Chancellor, JNTUA	9444485594	varanip@gmail.com, varanip@annauniv.edu
5	<b>Mr. V.K. SATHYAMOORTHY CHELLACHAMY</b> Project Manager, Motion Control, Siemens Technology and Services Pvt.Ltd.43, Valakani Drive, Doddathoguru, Hosur Road, Electronic City Phase1, Bengaluru-560100	Industry	08971129000	sathyamoorthy.vkc@gmail.com

S.No	Name	Designation	Phone Numbers	Mail IDs
6	<b>Mr. PAVAN YARA</b> Vice President Technology, First Walkin Technologies #736 4th Floor, Gupta House, 7 <sup>th</sup> Cross Koramangala, Bengaluru-560034 Karnataka	Alumni	8971100449	yarapavan@gmail.com
7	<b>Prof. C. Madhusudhana Rao</b> Professor & HoD Dept. of CSSE, SVEC	Internal Member	9959990001	hod_csse@vidyanikethan.edu
8	<b>Prof.A.Balasubramani</b> Professor Dept. of CSSE, SVEC	Internal Member	9440379324	balasubramani.a@vidyanikethan.edu
9	<b>Dr.C.Sushama</b> Associate Professor Dept. of CSSE, SVEC	Internal Member	9848307199	sushama.c@vidyanikethan.edu
10	<b>Mr. A. Chandra</b> Assistant Professor Dept. of CSSE, SVEC	Internal Member	7799666819	chandra.adhimulam@vidyanikethan.edu
11	<b>Mr.M.Ramu</b> Assistant Professor Dept. of CSSE, SVEC	Internal Member	7780680227	ramu.m@vidyanikethan.edu
12	<b>Mr.S.ShivaPraksh</b> Assistant Professor Dept. of CSSE, SVEC	Internal Member	9440656515	shivaprakash.s@vidyanikethan.edu
13	<b>Dr.E.Sophiya</b> Assistant Professor Dept. of CSSE, SVEC	Internal Member	9566903378	Sophiya.e@vidyanikethan.edu

The external members Mr. V. K. SATHYAMOORTHY CHELLACHAMY, Dr. B.K. TRIPATHY and internal member Mr. A. Chandra could not attend the meeting.

13<sup>th</sup> Meeting of Board of Studies of Computer Science and Systems Engineering (CSSE) was conducted **through online video conferencing** using ZOOM platform. The screenshots taken during the meeting are shown below



**Minutes:**

**1. Action Taken Report on minutes of 12<sup>th</sup> BOS meeting held on 09<sup>th</sup> January 2021**

The Chairperson BOS apprised the members the action taken report on the minutes/ resolutions of 12<sup>th</sup> BOS meeting held on 09<sup>th</sup> January 2021. After deliberations the members ratified the report.

**2. Report on implementation of Autonomy**

The Chairperson BOS presented a report on implementation of autonomy pertaining to syllabi & academic regulations for II B.Tech(under SVEC19) and I B.Tech (under SVEC-20) regulations to the members. The feedback of students and faculty on the courses of IIB.Tech.-CSSE (under SVEC19) and I B.Tech.-CSSE are apprised.

**3. Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of III & IV B.Tech including Minor & Honors Degrees (Under SVEC-19).**

The chairperson BOS presented the Course Structure of III & IV B.Tech (CSSE), Minor Degree in Cyber Security, Honors Degree in Cyber Security under SVEC-19 Regulations. The draft syllabi of courses prepared by CSSE department was presented for discussion along with Course Objectives, Course Outcomes for the Courses of III & IV B.Tech (CSSE) Program. The Chairperson BOS apprised the members with the procedure followed in articulation of CEOs, COs and mapping of COs with POs & PSOs. After deliberations and discussions the board members suggested modifications and then approved the course structure and syllabi of III & IV B.Tech (CSSE), Minor Degree in Cyber Security and Honor Degree in Cyber Security under SVEC-19 Regulations.

The following suggestions are given by the board members on the syllabi and course structure proposed by the department:

**In CSSE Course structure:**

1. Recommended to rename the open Elective-3 as Inter Disciplinary Elective-1
2. Recommended to introduce Software Architecture , Design Patterns in SVEC-19 Course structures
3. Suggested to move the course soft computing course to Data science Track.
4. Introduce Zulia open source software in Machine Learning or in Data Mining Lab.
5. Recommended to rename the course Information security privacy as Information Security.

The course structure of III & IV B. Tech CSSE, Minor Degree in Cyber Security and Honor Degree in Cyber Security under SVEC-19 regulations was approved subject to the modifications that may arise due to suggestions made by the board (Appendix A).

The syllabi of the courses of III & IV B. Tech CSSE, Minor Degree in Cyber Security and Honor Degree in Cyber Security prepared by CSSE department was approved subject to the modifications that may arise due to suggestions made by the board (Appendix B).

It is resolved to authorize the Chairperson BOS to adapt the improvements suggested and submit to the Chairman (Academic council) for further processing.

4. **Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of II, III & IV B.Tech (Under SVEC-20) Course structure of Minor & Honors Degrees (Under SVEC-20) Course structure.**

The chairperson BOS presented the Course Structure, syllabi with Course Objectives, Course Outcomes for the Courses of II, III& IV B.Tech (CSSE) Program prepared by the CSSE department. The Chairperson BOS appraised the members with the procedure followed in articulation of CEOs, COs and mapping of COs with POs & PSOs. The members suggested modifications and then approved the course structures, syllabus of II, III & IV B.Tech (CSSE) after thorough discussion.

The following suggestions are given by the board members on the syllabi and course structure proposed by the department:

**In CSSE Course structure**

1. Recommended to introduce Artificial Intelligence in SVEC-20 Course structure.
2. Recommended to divide the subject Numerical Methods and Probability statistics into two separate subjects as Numerical Methods and Probability statistics.
3. Suggested to change the title for the skill oriented course Workshop in computer systems engineering as Open source tools lab.

The course structure of II, III & IV B. Tech CSSE under SVEC-20 regulations was approved subject to the modifications that may arise due to suggestions made by the board (Appendix C).

The syllabi of II, III & IV B. Tech CSSE under SVEC-20 regulations was approved subject to the modifications that may arise due to suggestions made by the board (Appendix D).

The chairperson BOS also presented the syllabi with Course Objectives, Course Outcomes for the Course Internet of Things Lab prepared exclusively for the department. The Chairperson BOS appraised the members with the procedure followed in articulation of CEOs, COs and mapping of COs with POs & PSOs and they agreed for the same.

It is resolved to authorize the BOS chairperson to adopt improvements suggested by the board members and submit to the chairman (Academic Council) for further processing.

**5. Regulation-wise, list of courses in which the content of the syllabus is changed more than 20%.**

Regulation-wise, list of courses in which the content of the syllabus is changed more than 20% was appraised to the members and they agreed for the same.

**6. List of new courses introduced in SVEC-19 and SVEC-20**

List of new courses introduced in SVEC-19 and SVEC-20 were appraised to the members and they appreciated for including industry demand oriented courses in curriculum.

**7. Panel of Examiners for Question paper setting for III & IV B.Tech courses of CSSE Program(Under SVEC-19) ,II,III & IV B.Tech courses of CSSE Program (Under SVEC-20)**

The board authorizes the Chairperson, BoS to prepare and submit the model question papers and panel of examiners for question paper setting for III & IV B.Tech courses of CSSE Program (UnderSVEC-19),II,III & IVB.Tech courses of CSSE Program(Under SVEC-20) theory courses as and when requested by the Chairman, Academic Council or Chief Controller of Exams.

**8. Substitute courses**

The board authorized Head of the Department and BOS chairperson to identify substitute courses for students who rejoin B.Tech program under other regulations and submit to the Chairman (Academic council) for further processing.

**9. Amendments to B. Tech academic regulations under SVEC-19 and SVEC-20 regulations.**

The BOS Chairperson presented the amendments proposed to the SVEC-19 and SVEC-20 Academic Regulations of B. Tech Board members ratified the same after discussions.

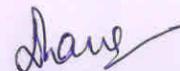
**10. Appraisal on research, teaching, extension and other academic activities, achievements of the Department.**

The BoS Chairperson appraised the board about the research, teaching, extension and other academic activities, achievements of the Department. The members have appreciated the efforts of the department and suggested to continue the same.

**11. Any other item:**

The Board members have suggested to the faculty for extensive use of ICT tools for improving teaching and learning process.

Meeting concluded with thanks to the Chair.



**Chairperson BOS, CSSE**  
**Dr. P. DHANA LAKSHMI**  
ASSOCIATE PROFESSOR,  
Department of C.S.S.E.  
SREE VIDYANIKETHAN ENGINEERING COLLEGE  
(AUTONOMOUS)  
Sree Sainath Nagar, A. RANGAMPET  
Chittoor (Dist.) - 517 102, A.P., INDIA.



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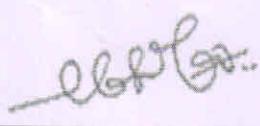
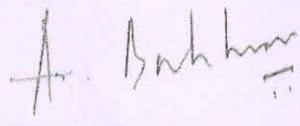
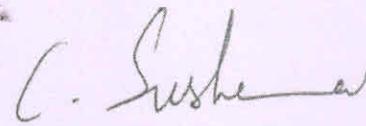
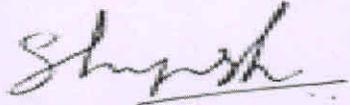
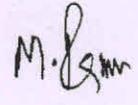
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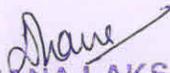
**Department of Computer Science and Systems Engineering**

**Board of Studies in Computer Science and Systems Engineering (2021-22)**

**MEMBERS PRESENT:**

S.No	Name	Signature
<b>External Members</b>		
1.	<b>Dr.S.VASUNDARA</b> Professor, Dept. of CSE JNTUA, College of Engineering, JNTU Anantapur, Ananthapuramu-515002 Mobile No. 9440505837 Mail ID.vasundaras.cse@jntua.ac.in	
2.	<b>Dr. B.K. TRIPATHY</b> Senior Professor & Dean, School of Computing Science and Engineering, VIT University, Vellore-632014, Tamil Nadu Mobile No. 09489343018 Email ID.tripathybk@rediffmail.com	
3.	<b>Dr. P. VARALAKSHMI</b> Associate Professor of Computer Technology, Madras Institute of Technology, MIT Road, Radha Nagar,Chromepet, Chennai - 600044 Mobile No. 9444485594 Email ID.varanip@gmail.com, varanip@annauniv.edu	
<b>Industrial Member</b>		
4.	<b>Mr. V.K. SATHYAMOORTHY CHELLACHAMY</b> Project Manager, Motion Control, Siemens Technology and Services Pvt.Ltd. 43, Valakani Drive, Doddathoguru, Hosur Road, Electronic City Phase-1, Bengaluru-560100 Mobile No. 08971129000 Email ID. sathyamoorthy.vkc@gmail.com	
<b>Alumni</b>		
5.	<b>Mr. PAVAN YARA</b> Vice President Technology, First Walkin Technologies #736 4th Floor, Gupta House, 7 <sup>th</sup> Cross Koramangala, Bengaluru-560034 Karnataka	
<b>Internal Members</b>		
6.	<b>Dr.P.Dhana Lakshmi</b> Associate Professor& BOSChairperson Dept. of CSSE, SVEC Mobile No. 9440101946 Email ID. bos_csse@vidyanikethan.edu	

S.No	Name	Signature
7.	<b>Prof. C.MadhusudhanaRao</b> Professor &HoD Dept. of CSSE, SVEC Mobile No. 9959990001 Email ID. hod_csse@vidyanikethan.edu	
8.	<b>Dr. A. Balasubramani</b> Professor, Dept. of CSSE, SVEC Mobile No. 9440379324 Email ID. balasubramani.a@vidyanikethan.edu	
9.	<b>Dr.C.Sushama</b> Associate Professor, Dept. of CSSE, SVEC Mobile No. 9848307199 Email ID. sushama.c@vidyanikethan.edu	
10.	<b>Mr. A. Chandra</b> Assistant Professor Dept. of CSSE, SVEC Mobile No. 7799666819 Email ID. chandra.adhimulam@vidyanikethan.edu	
11.	<b>Mr.S.ShivaPraksh</b> Assistant Professor Dept. of CSSE, SVEC Mobile No. 9440656515 Email ID. shivaprakash.s@vidyanikethan.edu	
12.	<b>Mr.M.Ramu</b> Assistant Professor Dept. of CSSE, SVEC Mobile No. 7780680227 Email ID. ramu.m@vidyanikethan.edu	
13.	<b>Dr. E. Sophiya</b> Assistant Professor Dept. of CSSE, SVEC Mobile No. 9566903378 Email ID. sophiya.e@vidyanikethan.edu	

  
**Dr. P. DHANA LAKSHMI**  
 ASSOCIATE PROFESSOR,  
 Department of C.S.S.E.  
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 Chittoor (Dist.) - 517 102, A.P., INDIA

# Approved Course Structure

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

**Regulations:** SVEC-19

## SVEC-19 CURRICULUM

**Course Structure for B.Tech Program**  
(Effective from the Academic year 2019-20 onwards)

### COMPUTER SCIENCE AND SYSTEMS ENGINEERING

<b>Mandatory Induction Program</b>	<b>03 weeks duration</b>
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

**COURSE STRUCTURE**  
**COMPUTER SCIENCE AND SYSTEMS ENGINEERING**  
**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
<b>Total:</b>			<b>12</b>	<b>3</b>	<b>8</b>	<b>23</b>	<b>19</b>	<b>360</b>	<b>440</b>	<b>800</b>

**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
<b>Total:</b>			<b>17</b>	<b>2</b>	<b>8</b>	<b>27</b>	<b>23</b>	<b>440</b>	<b>560</b>	<b>1000</b>
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	19BT30502	Computer Organization	3	-	-	3	3	40	60	100
3	19BT31201	Discrete Mathematical Structures	3	-	-	3	3	40	60	100
4	19BT31501	Data Structures and Algorithms	3	1	-	4	4	40	60	100
5	19BT31502	Operating Systems	3	-	-	3	3	40	60	100
6	19BT31503	System Programming	3	-	-	3	3	40	60	100
7	19BT31531	Data Structures and Algorithms Lab	-	-	2	2	1	50	50	100
8	19BT31532	Operating Systems Lab	-	-	2	2	1	50	50	100
9	19BT31533	Workshop in Computer Science and Systems Engineering	-	-	2	2	1	50	50	100
<b>Total:</b>			<b>18</b>	<b>2</b>	<b>6</b>	<b>26</b>	<b>23</b>	<b>390</b>	<b>510</b>	<b>900</b>
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	19BT40502	Database Management Systems	3	1	-	4	4	40	60	100
2	19BT40503	Design and Analysis of algorithms	3	-	-	3	3	40	60	100
3	19BT31202	Software Engineering	3	-	-	3	3	40	60	100
4	19BT41501	Theory of Computation	3	-	-	3	3	40	60	100
5		<b>Open Elective-2</b>	3	-	-	3	3	40	60	100
6	19BT3HS31	Soft Skills Lab	-	-	2	2	1	50	50	100
7	19BT40532	Database Management Systems Lab	-	-	2	2	1	50	50	100
8	19BT31232	Software Engineering Lab	-	-	2	2	1	50	50	100
9	19BT41531	Design and Analysis of Algorithms Lab	-	-	2	2	1	50	50	100
<b>Total:</b>			<b>15</b>	<b>1</b>	<b>8</b>	<b>24</b>	<b>20</b>	<b>400</b>	<b>500</b>	<b>900</b>
10	19BT3MC01	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	19BT40501	Computer Networks	3	-	-	3	3	40	60	100
2	19BT50502	Artificial Intelligence	3	-	-	3	3	40	60	100
3	19BT51202	Web Technologies	3	-	-	3	3	40	60	100
<b>Professional Elective-1</b>										
4	19BT51501	Modern Cryptography	3	-	-	3	3	40	60	100
	19BT51502	Natural Language Processing								
	19BT51503	Parallel Computer Architectures								
	19BT51504	Performance Evaluation of Computer Systems								
	19BT51505	Software Testing								
5	<b>Open Elective-1</b>		3	-	-	3	3	40	60	100
6	<b>Inter Disciplinary Elective-1</b>		3	-	-	3	3	40	60	100
	19BT60314	Optimization Techniques								
	19BT60402	Micro Controllers								
	19BT60407	Image Processing								
	19BT51208	IoT Architecture and Protocols								
7	19BT40531	Computer Networks Lab	-	-	2	2	1	50	50	100
8	19BT51232	Web Technologies Lab	-	-	2	2	1	50	50	100
9	19BT51531	Socially Relevant Project-1	-	-	-	-	1	50	50	100
<b>Total:</b>			<b>18</b>	<b>-</b>	<b>4</b>	<b>22</b>	<b>21</b>	<b>390</b>	<b>510</b>	<b>900</b>
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 Behaviour	3	-	-	3	3	40	60	100
2	19BT60501	Compiler Design	3	-	-	3	3	40	60	100
3	19BT60502	Machine Learning	3	-	-	3	3	40	60	100
4	<b>Professional Elective-2</b>		3	-	-	3	3	40	60	100
	19BT60505	Soft Computing								
	19BT61501	Data Visualization Techniques								
	19BT61502	Information Security								
	19BT61503	Parallel and Distributed Systems								
19BT61504	Systems Engineering									
5	<b>Professional Elective-3</b>		3	-	-	3	3	40	60	100
	19BT51203	Advanced Databases								
	19BT71203	Big Data Technologies								
	19BT60541	Ad Hoc and Wireless Sensor networks								
	19BT61505	Systems Reliability								
19BT61506	User Interface Design									
6	<b>Inter Disciplinary Elective-2</b>		3	-	-	3	3	40	60	100
	19BT60318	Industrial Internet of Things								
	19BT70412	Pattern Recognition								
	19BT70401	Embedded Systems								
	19BT61041	Sensors and Applications								
7	19BT60531	Machine Learning Lab	-	-	2	2	1	50	50	100
8	19BT61531	Internet of Things Lab	-	1	2	3	2	50	50	100
9	19BT61532	Socially Relevant Project-2	-	-	-	-	1	50	50	100
<b>Total:</b>			<b>18</b>	<b>1</b>	<b>4</b>	<b>23</b>	<b>22</b>	<b>390</b>	<b>510</b>	<b>900</b>
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	19BT51201	Data Warehousing and Data Mining	3	-	-	3	3	40	60	100
3	19BT71501	System Simulation and Modeling	3	-	-	3	3	40	60	100
4	<b>Professional Elective-4</b>		3	-	-	3	3	40	60	100
	19BT50503	Cyber Security								
	19BT71205	Decision Support and Intelligent Systems								
	19BT71201	Data Analytics								
	19BT61201	Cloud Computing								
19BT71502	Computational Statistics									
5	<b>Professional Elective-5</b>		3	-	-	3	3	40	60	100
	19BT70503	Blockchain Technologies								
	19BT70501	Augmented Reality and Virtual Reality								
	19BT70502	Data Science								
	19BT71503	Deep Learning								
19BT71504	High Performance Computing									
6	19BT7MOOC	MOOC	-	-	-	-	3	-	100	100
7	19BT51231	Data Warehousing and Data Mining Lab	-	-	2	2	1	50	50	100
8	19BT71531	System Simulation and Modeling Lab	-	-	2	2	1	50	50	100
9	19BT71532	Internship	-	-	-	-	2	--	100	100
<b>Total:</b>			<b>15</b>	<b>-</b>	<b>4</b>	<b>19</b>	<b>22</b>	<b>300</b>	<b>600</b>	<b>900</b>
10	19BT715AC	Kernel Programming	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	19BT81531	Project Work	-	-	-	-	10	100	100	200
<b>Total:</b>			-	-	-	-	<b>10</b>	<b>100</b>	<b>100</b>	<b>200</b>

### 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 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

**Honors Degree:** Honors degree is awarded to the students who has undergone additional learning for 18 credits in the same discipline.

**HONORS DEGREE IN COMPUTER SCIENCE AND SYSTEMS ENGINEERING**

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 Semester	19BT51507	Digital Forensics	3	-	-	3	3	40	60	100
	19BT51508	Malware and Risk Analysis	3	-	-	3	3	40	60	100
	19BT51532	Digital ForensicsLab	-	-	2	2	1	50	50	100
III B.Tech. II Semester	19BT61507	Cloud security	3	-	-	3	3	40	60	100
	19BT61508	Network Anomaly Detection Systems	3	-	-	3	3	40	60	100
	19BT61509	IoT Security	3	-	-	3	3	40	60	100
	19BT61533	Network Anomaly Detection SystemsLab	-	-	2	2	1	50	50	100
IV B.Tech. I Semester	19BT71505	Software Security	3	-	-	3	3	40	60	100
	19BT71506	Database and Web Security	3	-	-	3	3	40	60	100
	19BT71533	Database and Web Security Lab	-	-	2	2	1	50	50	100

**Note:** If any student has chosen a course from the above list in their regular curriculum then, he/she is not eligible to opt the same course/s for the Honors degree. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course.

**MINORS IN CYBER SECURITY**

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 Semester	19BT40501	Computer Networks	3	-	-	3	3	40	60	100
	19BT60541	Adhoc wireless Networks	3	-	-	3	3	40	60	100
	19BT31502	Operating Systems	3	-	-	3	3	40	60	100
	19BT40531	Computer Networks Lab	-	-	2	2	1	50	50	100
III B.Tech. II Semester	19BT61201	Cloud Computing	3	-	-	3	3	40	60	100
	19BT51501	Modern Cryptography	3	-	-	3	3	40	60	100
	19BT50503	Cyber security	3	-	-	3	3	40	60	100
	19BT61534	Modern Cryptography Lab	-	-	2	2	1	50	50	100
IV B.Tech. I Semester	19BT61509	IoT Security	3	-	-	3	3	40	60	100
	19BT61502	Information Security	3	-	-	3	3	40	60	100
	19BT71534	Information Security Lab	-	-	2	2	1	50	50	100

*Dhana*

**Chairperson, BOS (CSSE)**

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## Approved Course Structure

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

**Regulations:** SVEC-20

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	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
<b>Total:</b>			<b>17</b>	<b>-</b>	<b>09</b>	<b>26</b>	<b>19.5</b>	<b>270</b>	<b>560</b>	<b>830</b>

### 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	-	-	-	-
<b>Total:</b>			<b>14</b>	<b>1</b>	<b>13</b>	<b>28</b>	<b>19.5</b>	<b>240</b>	<b>560</b>	<b>800</b>

### 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.	20BT30501	Computer Organization	3	-	-	3	3	30	70	100
3.	20BT31201	Software Engineering	3	-	-	3	3	30	70	100
4.	20BT22901	Data Structures and Algorithms	3	-	-	3	3	30	70	100
5.	20BT31501	Operating Systems	3	-	-	3	3	30	70	100
6.	20BT31231	Software Engineering Lab	-	-	3	3	1.5	30	70	100
7.	20BT22931	Data Structures and Algorithms Lab	-	-	3	3	1.5	30	70	100
8.	20BT31531	Operating Systems Lab	-	-	3	3	1.5	30	70	100
9.	20BT31232	Programming with Python Lab	-	1	2	3	2	30	70	100
<b>Total</b>			<b>16</b>	<b>-</b>	<b>11</b>	<b>26</b>	<b>21.5</b>	<b>270</b>	<b>630</b>	<b>900</b>
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.	20BT40501	Database Management Systems	3	-	-	3	3	30	70	100
2.	20BT50502	Design and Analysis of algorithms	3	-	-	3	3	30	70	100
3.	20BT12901	Discrete Mathematical Structures	3	-	-	3	3	30	70	100
4.	20BT41501	Theory of Computation	3	-	-	3	3	30	70	100
5.	Open Elective-2		3	-	-	3	3	30	70	100
6.	20BT40531	Database Management Systems Lab	-	-	3	3	1.5	30	70	100
7.	20BT41531	Design and Analysis of Algorithms Lab	-	-	3	3	1.5	30	70	100
8.	20BT41532	Workshop in Open source tools	-	-	3	3	1.5	30	70	100
9.	20BT3HS31	Soft Skills Lab	-	1	2	3	2	30	70	100
<b>Total</b>			<b>16</b>	<b>-</b>	<b>11</b>	<b>26</b>	<b>21.5</b>	<b>270</b>	<b>630</b>	<b>900</b>
10.	20BT3MC01	Environmental Science	2	-	-	2	-	30	-	30

**III 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.	20BT5HS01	Organizational Behaviour	3	-	-	3	3	30	70	100
2.	20BT50501	Computer Networks	3	-	-	3	3	30	70	100
3.	20BT51201	Data Warehousing and Data Mining	3	-	-	3	3	30	70	100
4.	<b>Open Elective-1</b>		3	-	-	3	3	30	70	100
5.	<b>Professional Elective- 1</b>		3	-	-	3	3	30	70	100
	20BT51502	Performance Evaluation of Computer Systems								
	20BT51503	Natural Language Processing								
	20BT51504	Modern Cryptography								
	20BT51505	Parallel Computer Architectures								
	20BT51506	Software Testing								
6.	20BT50531	Computer Networks Lab	-	-	3	3	1.5	30	70	100
7.	20BT51231	Data Warehousing and Data Mining Lab	-	-	3	3	1.5	30	70	100
8.	20BT51531	Linux Programming Lab	-	1	2	3	2	30	70	100
9.	20BT51532	Summer Internship-1	-	-	-	-	1.5	-	100	100
<b>Total</b>			<b>16</b>	<b>-</b>	<b>8</b>	<b>23</b>	<b>21.5</b>	<b>240</b>	<b>660</b>	<b>900</b>
10.	20BT5MC01	Professional Ethics	2	-	-	2	-	30	-	30

**III 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.	20BT5HS02	Principles of Business Economics and Accountancy	3	-	-	3	3	30	70	100
2.	20BT60501	Machine Learning	3	-	-	3	3	30	70	100
3.	20BT51202	Web Technologies	3	-	-	3	3	30	70	100
4.	<b>Professional Elective-2</b>		3	-	-	3	3	30	70	100
	20BT61501	Systems Engineering								
	20BT61502	Data Visualization Techniques								
	20BT61503	Information Security								
	20BT61504	Parallel and Distributed Systems								
	20BT60503	Soft Computing								
5.	<b>Professional Elective-3</b>		3	-	-	3	3	30	70	100
	20BT61505	Systems Reliability								
	20BT71203	Big Data Technologies								
	20BT60541	Ad Hoc and Wireless Sensor networks								
	20BT51203	Advanced Databases								
	20BT61506	User Interface Design								
6.	<b>Inter disciplinary Elective-1</b>		3	-	-	3	3	30	70	100
	20BT40201	Control Systems								
	20BT60314	Optimization Techniques								
	20BT61241	IoT Architecture and Protocols								
	20BT61041	Sensors and Applications								
7.	20BT60531	Machine Learning Lab	-	-	3	3	1.5	30	70	100
8.	20BT51232	Web Technologies Lab	-	-	3	3	1.5	30	70	100
9.	20BT61531	Handheld computing: design and Application Development Lab	-	1	2	3	2	30	70	100
<b>Total</b>			<b>19</b>	<b>-</b>	<b>11</b>	<b>23</b>	<b>23</b>	<b>270</b>	<b>630</b>	<b>900</b>
10.	20BT503AC	Foundations of Entrepreneurship	2	-	-	2	-	-	-	-

**IV 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.	20BT71202	Data Analytics	3	-	-	3	3	30	70	100
2.	20BT71501	System Simulation and Modeling	3	-	-	3	3	30	70	100
3.	<b>Professional Elective-4</b>		3	-	-	3	3	3	70	100
	20BT71207	Decision Support and Intelligent Systems								
	20BT43101	Artificial Intelligence								
	20BT70505	Blockchain Technologies								
	20BT61201	Cloud Computing								
	20BT71502	Computational Statistics								
4.	<b>Professional Elective-5</b>		3	-	-	3	3	30	70	100
	20BT70504	Augmented Reality and Virtual Reality								
	20BT70503	Data Science								
	20BT50504	Cyber Security								
	20BT71503	High Performance Computing								
	20BT71504	Deep Learning								
5.	<b>Inter disciplinary Elective-2</b>		3	-	-	3	3	30	70	100
	20BT70315	Industrial Internet of Things								
	20BT60406	Image Processing								
	20BT70441	Pattern Recognition								
	20BT70401	Embedded Systems								
6.	20BT71232	Data Analytics Lab	-	-	3	3	1.5	30	70	100
7.	20BT71531	System Simulation and Modeling Lab	-	-	3	3	1.5	30	70	100
8.	20BT71532	Data Science using R Lab	-	1	2	3	2	30	70	100
9.	20BT71533	Summer Internship-2					1.5	-	100	100
<b>Total</b>			<b>15</b>	<b>-</b>	<b>9</b>	<b>24</b>	<b>21.5</b>	<b>240</b>	<b>660</b>	<b>900</b>
10.	20BT715AC	Kernel Programming	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.	20BT81531	Project Work	-	-	-	-	12	100	100	200
2.	20BT81532	Internship	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	<b>12</b>	100	100	200

### LIST OF COURSES FOR OPEN ELECTIVE-1 & 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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(AUTONOMOUS)

Sree Sainath Nagar, Tirupati

Department of Computer Science and Systems Engineering

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## **LIST OF NEW COURSES INTRODUCED**

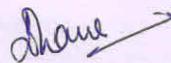
**Program: B.Tech.- Computer Science and Systems Engineering**

**Regulations : SVEC-19**

S. No.	Course Code	Name of the course
1.	19BT21501	Object Oriented Programming Through Java
2.	19BT21531	Object Oriented Programming Through Java Lab
3.	19BT31501	Data Structures And Algorithms
4.	19BT31503	System Programming
5.	19BT31531	Data Structures And Algorithms Lab
6.	19BT31532	Operating Systems Lab
7.	19BT31533	Workshop In Computer Science And Systems Engineering
8.	19BT315AC	Design Thinking
9.	19BT41531	Design And Analysis Of Algorithms Lab
10.	19BT1AC01	Spoken English
11.	19BT1BS02	Biology For Engineers
12.	19BT1HS01	Communicative English
13.	19BT1SS03	Engineering Physics
14.	19BT1BS31	Engineering Physics Lab
15.	19BT1BS04	Engineering Chemistry
16.	19BT1BS32	Engineering Chemistry Lab
17.	19BT2BS01	Transformation Techniques And Linear Algebra
18.	19BT4BS01	Material Science
19.	19BT4HS05	Gender & Environment

20.	19BT4HS09	Life Skills
21.	19BT4HS11	Professional Ethics
22.	19BT4HS12	Women Empowerment
23.	19BT40107	Sustainable Engineering
24.	19BT10501	Programming For Problem Solving
25.	19BT10531	Programming For Problem Solving Lab
26.	19BT40532	Database Management Systems Lab
27.	19BT31202	Software Engineering
28.	19BT31232	Software Engineering Lab
29.	19BT10201	Basic Electrical And Electronics Engineering
30.	19BT10231	Basic Electrical And Electronics Engineering Lab
31.	19BT50409	Green Technologies
32.	19BT50502	Artificial Intelligence
33.	19BT50503	Cyber Security
34.	19BT60502	Machine Learning
35.	19BT60531	Machine Learning Lab
36.	19BT70501	Augmented Reality And Virtual Reality
37.	19BT70502	Data Science
38.	19BT70503	Blockchain Technologies
39.	19BT60505	Soft Computing
40.	19BT31202	Software Engineering
41.	19BT61201	Cloud Computing
42.	19BT71201	Data Analytics
43.	19BT51203	Advanced Databases Databases
44.	19BT71205	Decision Support and Intelligent Systems

45.	19BT51208	IoT Architecture and Protocols
46.	19BT60402	Micro Controllers
47.	19BT70412	Pattern Recognition
48.	19BT60318	Industrial Internet of Things
49.	19BT60314	Optimization Techniques
50.	19BT61041	Sensors and Applications
51.	19BT51501	Modern Cryptography
52.	19BT51502	Natural Language Processing
53.	19BT51503	Parallel Computer Architectures
54.	19BT51504	Performance Evaluation of Computer Systems
55.	19BT51505	Software Testing
56.	19BT61501	Data Visualization Techniques
57.	19BT61502	Information Security
58.	19BT61503	Parallel and Distributed Systems
59.	19BT61505	Systems Reliability
60.	19BT61506	User Interface Design
61.	19BT71501	System Simulation and Modeling
62.	19BT71502	Computational Statistics
63.	19BT71503	Deep Learning
64.	19BT71504	High Performance Computing
65.	19BT715AC	Kernel Programming

  
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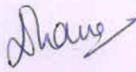
Department of Computer Science and Systems Engineering

## **LIST OF NEW COURSES INTRODUCED**

**Program: Minor Degree in Cyber Security**

**Regulations : SVEC-19**

S. No.	Course Code	Name of the course
1.	19BT60541	Adhoc wireless Networks
2.	19BT61201	Cloud Computing
3.	19BT51501	Modern Cryptography
4.	19BT61534	Modern Cryptography Lab
5.	19BT50503	Cyber security
6.	19BT61534	Modern Cryptography Lab
7.	19BT61509	IoT Security
8.	19BT61502	Information Security
9.	19BT71534	Information Security Lab

  
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Department of Computer Science and Systems Engineering

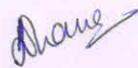
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## LIST OF NEW COURSES INTRODUCED

**Program: Honors in Cyber Security**

**Regulations : SVEC-19**

S. No.	Course Code	Name of the course
1.	19BT51507	Digital Forensics
2.	19BT51508	Malware and Risk Analysis
3.	19BT51532	Digital Forensics Lab
4.	19BT61507	Cloud security
5.	19BT61508	Network Anomaly Detection Systems
6.	19BT61509	IoT Security
7.	19BT61533	Network Anomaly Detection Systems Lab
8.	19BT71505	Software Security
9.	19BT71506	Database and Web Security
10.	19BT71533	Database and Web Security Lab

  
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# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(AUTONOMOUS)

Sree Sainath Nagar, Tirupati

Department of Computer Science and Systems Engineering

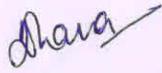
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## **LIST OF NEW COURSES INTRODUCED**

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

Regulations : SVEC-20

S. No.	Course Code	Name of the course
1.	20BT31232	Programming with Python Lab
2.	20BT41532	Workshop in Open source tools
3.	20BT51531	Linux Programming Lab
4.	20BT61531	Handheld computing: design and Application Development Lab
5.	20BT71532	Data Science using R Lab

  
**Dr. P. DHANA LAKSHMI**  
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