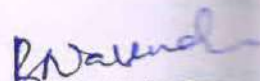# SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous)

Sree Sainath Nagar, A. Rangampet-517 102

Agenda for 8th Meeting of Board of Studies for B. Tech. in Computer Science and Systems Engineering on 23.03.2017 @ 10AM

1. Action taken report on minutes/ resolutions of 7th BOS meeting.

2. Report on implementation of autonomy with respect to syllabi and regulations (SVEC16 I B. Tech. & SVEC14 III B. Tech.).

3. B. Tech. Academic Calendar for 2017-18.

4. Vision and Mission of the Department, PEOs, POs and PSOs*.

5. Course Structure and Syllabi with Course Objectives & Outcomes and Lesson Plans of Courses of II, III & IV B. Tech.

6. Teaching, Learning and Evaluation.

7. Research Activities.

8. Faculty Development Activities.

9. Student Development Activities.

10. Student Support Systems.

11. Extension Activities.

12. Any other item.

Chairman (BOS)

*

Members present

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Meeting concluded with thanks to the chair

S.No	Name of the Person	Signature
External Members		
1.	**Prof. O.B.V. Ramanaiah,** Professor in CSE Dept., JNTUH College of Engineering, Hyderabad. Phone: 9440501888, email: obvramanaiah@jntuh.ac.in	
2.	**Dr. Kannan Srinathan,** Assistant Professor, IIIT, Hyderabad Phone: 9885311702, Email id: srinathan@iiit.ac.in	K. Srinathan
3.	**Dr. Kontham Raja Kumar,** Assistant Professor, Department of Computer Science and Systems Engineering, Andhra University College of Engineering (Autonomous), Andhra University, Visakapattanam Phone: 9490132765, Email id: krajakumar@yahoo.com	K. RC 22/4/16
Industrial Member		
4.	**Mr. M. Muni Kumar,** Technical Services Lead, IBM India Pvt. Ltd., Bangalore Phone:+91- 9036795463, Email id: munikumar.ksn@gmail.com	M.Muni Kum
Alumni Member		
5.	**Mr. Krishna Prashanth T,** Systems Engineer, TCS, Bangalore Phone: +91-9686899986, Email id: krishnaprashanth.csse@gmail.com	
Internal Members		
6.	**Mr. B. Narendra Kumar Rao,** Associate Professor & HOD, Department of CSSE, SVEC, A.Rangampet	BNarendra
7.	**Ms K. Lalitha,** Assistant Professor (SL), Department of CSSE, SVEC, A.Rangampet	Lalitha
8.	**Ms C. Sushama,** Assistant Professor, Department of CSSE, SVEC, A.Rangampet	C. Sushe
9.	**Ms T. Kavitha,** Assistant Professor, Department of CSSE, SVEC, A.Rangampet	—
10.	**Ms P. Dhana Lakshmi,** Assistant Professor, Department of CSSE, SVEC, A.Rangampet	Dhana
11.	**Mr. A. Chandra,** Assistant Professor, Department of CSSE, SVEC, A.Rangampet	A. Chandra

BNarendra
Chairman-BOS, CSSE

Minutes:

1. Resolved to ratify Action Taken Report on minutes / resolutions of the 7th BOS meeting held on 22-04-2016 submitted by the Chairman, BOS (CSSE). (Refer Annexure – I)

2. Chairman BOS presented a report on implementation of autonomy to the members. The board has congratulated the college authorities for successful implementation of SVEC14 regulations and syllabus for III Year and I Year of SVEC16. (Refer Annexure-II).

3. It was resolved to approve the academic calendar of II, III and IV B.Tech. for the academic year 2017-2018. (Refer Annexure-III)

4. Approved the Vision, Mission, PEOs, POs, PSOs and Course Structure (SVEC-16) of the UG Programme after thorough discussion. (Refer Annexure IV)

5. Chairman, BOS (CSSE) presented the course structure and syllabus of II,III & IV B.Tech. CSSE to the members. It is resolved to accept the course structure and syllabus of II,III & IV B.Tech. (CSSE) after thorough discussion. Suggestions and remarks given by members were taken into consideration. (Refer Annexure V)

6. Regarding Panels of Question Paper setters for II,III & IV B.Tech, it is resolved to authorize the Chairman, BOS (CSSE) to approve panel of question paper setters for theory subjects. Submit the panel of question paper setters and model question papers, to the Principal well in advance of the commencement of class work. (Refer Annexure VI)

7. The members of BOS have appreciated the good practices followed by the department in conducting diagnostic test, formative tests, remedial and reinforcement classes as well as offering of the necessary add-on courses. (Refer Annexure VII)

8. The Chairman, BOS (CSSE) has briefed the members on research initiatives in the Department. The Chairman also submitted the details of faculty publications in refereed Journals and Technical talks delivered during the academic year. (Refer Annexure VIII)

9. Members appreciated the faculty development activities, faculty feedback mechanism and action taken on faculty who got less feedback in the department. Resolved to authorize the head of the department to update TNA as and when required. (Refer Annexure IX)

10. The Chairman, BOS (CSSE) submitted the details of student development activities such as equity action plan & remediation, Guest/Expert lectures, student paper presentations and technical association activities. Members have expressed their satisfaction regarding the student development activities. (Refer Annexure X)

11. The Chairman, BOS (CSSE) presented the student support activities such as training programs, placement activities, student counseling, etc. carried out in the academic year 2016-17. The members have appreciated the efforts and suggested to continue. (Refer Annexure XI, XII)

12. **Any other item**

Chairman presented the administrative setup of the department for framing the SVEC16 syllabus of II, III & IV B.Tech. to the members. Members have appreciated the effort. (Refer Annexure XIII)

13. **Suggestions**

Suggested Course Structure changes:

a. Introduce Object Oriented Analysis and Design and Lab in II B.Tech.-II Semester Swapped with Computer Networks and Computer Networks Lab of III B.Tech-ISemester.
b. Systems Software and Lab III B.Tech.- I Semester Swapped with Web Technologies and Lab with III B.Tech II Semester
c. Kernel Programming to be merged with System Software and new elective to be introduced ad WIN32 Programming.
d. Introducing New elective for Interdisciplinary Elective-1 Information Retrieval Systems instead of Natural Language Processing.
e. Elective WIN32 programming introduced instead of Kernel Programming in
f. Introducing Open Hardware Systems and Lab in IV B.Tech – I Semester with hardware platforms.

Suggested Changes in courses:

Scripting Language:
- Python Elective – Bring it to Core Subject
- Any Automation Tool.
- Manual Tool – Familiarize with one Script Language
- Software Technology Automation – Title Introduced

Data Structure - Introduce Game theory

OS Lab – Multithreaded Programming – Introduce Virtual OS

Computer Networks – Adjust Spacing – Check Congestion Control.
Software Engineering – Swapping with OOAD - Check on Website rational Rose and make a quality testing. Introduce Six Sigma ISO International Standard - NLP along with FLAT

TOC – include NP Hard topics

DBMS - SQL – Nested Queries

CN Lab – Go with Java- DNS Experiment Introduce- Wired Shark – TOOL CN

Web Technology

Bootstrap to HTML – JSP Instead of Bootstrap
Java Script – JSP .Net Webserver – Tomcat- Need – Apache Lamp- WT Lab- apche / HpSrver

Computer Graphics: Introduce Open GL/API

Scripting Language: Advance Perl and Python – 2 Unit – Perl – 3 Units of Python – OOPS not required

NLP subject Removed – Introduce Machine learning

System Software – Introduce Even Handling – DOS Interrupt, BIOS – Revisit – Unit – 4 and 5 – Unix kernel Programming instead of window programming.

Kernel Programming – Lab program needed.

SPM – Include Software Reengineering.

SS Lab- Ex in Unix – Use Unix Programming

ES- ATMEL Introduced – IOT One Chapter can be added in ES

Modelling and Simulation – Use Open source or R- Open source – MAT Lab - Real time Problem Should Simulate.

MS Lab – First 2 hrsof Lab MAT Lab – Intro to Octave R – Real-time Problems

DM and DW Lab Introduce rapid Miner – OK

Software Architecture – Shared Information System – Not Relevant – Design Patters – extend – Database Interpretation Put into – Unit -2 – Refer case Study UNIX

Data Analytics – Unit – Data mining repeat – Hadoop can be extended

Software Testing – Functional Testing for Placements Introduce – Add how to check the metric

Remove Mobile Computing NLP

HPC – CUDA Programming – Introduce

IOT – Get Syllabus from Dr.Arunkumar
Meeting concluded with thanks to the chair

Approved Course Structure

Program: B.Tech.- Computer Science and Systems Engineering
Regulations: SVEC-16

SREE VIDYANIKETHAN ENGINEERING COLLEGE
(AUTONOMOUS)
COURSE STRUCTURE (2016-2017)
COMPUTER SCIENCE AND SYSTEMS ENGINEERING
I B.Tech(I Semester)

S. No	Course Code	Course Title	L	T	P	Total	C	Int.	Ext.	Total
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**

The "L T P Total" columns are under the span "Contact Periods/ Week"; "Int. Ext. Total" under "Scheme of Examinations".

I B.Tech (II Semester)

S. No	Course Code	Course Title	L	T	P	Total	C	Int.	Ext.	Total
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**

II B.Tech (I Semester)

S. No	Course Code	Course Title	L	T	P	Total	C	Int.	Ext.	Total
						Contact Periods per Week			**Scheme of Examinations**	
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**

II B.Tech (II Semester)

S. No	Course Code	Course Title	L	T	P	Total	C	Int.	Ext.	Total
						Periods per Week			**Scheme of Examinations**	
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	30	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**

III B.Tech (I Semester)

S. No.	Course Code	Course Title	Contact Periods per Week				C	Scheme of Examinations		
			L	T	P	Total		Int.	Ext.	Total
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								
8	16BT51503	Intelligent Computing Systems	3	1	-	4	3	30	70	100
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

III B.Tech (I Semester)

S. No.	Course Code	Course Title	Contact Periods per Week				C	Scheme of Examinations		
			L	T	P	Total	C	Int.	Ext.	Total
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								
8	16BT51503	Intelligent Computing Systems	3	1	-	4	3	30	70	100
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

III B.Tech. (II Semester)

S. No	Course Code	Course Title	Contact Periods Per Week				C	Scheme of Examination		
			L	T	P	Total		Int.	Ext.	Total
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								
6	16BT61201	Cloud Computing	3	1	-	4	3	30	70	100
7	16BT71204	Mobile Computing								
		Program Elective – 1								
8	16BT70505	Human Computer Interaction								
9	16BT61502	Network Security								
10	16BT61503	Software Project Management	3	1	-	4	3	30	70	100
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

IV B.Tech. (I Semester)

	Course Code	Course Title	Contact Periods per Week				C	Scheme of Examination		
			L	T	P	Total		Int.	Ext.	Total
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								
5	16BT71504	Performance Evaluation of Computer Systems								
6	16BT71505	Network programming	3	1	-	4	3	30	70	100
7	16BT71506	Software Architecture and Design Patterns								
		Program Elective – 3								
8	16BT71507	Business Analytics								
9	16BT71202	Mobile Application Development								
10	16BT60502	Soft Computing	3	1	-	4	3	30	70	100
11	16BT60501	Software Testing								
		Program Elective – 4								
12	16BT71210	High Performance Computing								
13	16BT71508	Internet of Things								
14	16BT71509	Secure Software Engineering	3	1	-	4	3	30	70	100
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**

IV B.Tech. (II Semester)

S. No	Course Code	Course Title	Contact Periods/ Week				C	Scheme of Examinations		
			L	T	P	Total		Int.	Ext.	Total
1	16BT 81531	Project Work *	-	-	-	-	12	100	100	200
	Total		0	0	0	0	12	100	100	200

*Full-time project work

Bolarenek

BOS, Chairman

LIST OF NEW COURSES INTRODUCED

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

Regulations : SVEC-16

Course Code	Name of the course
16BT51502	Systems Software
16BT51503	Intelligent Computing Systems
16BT51531	Systems Software Lab
16BT61504	Windows Programming
16BT61505	Bio-Informatics
16BT71502	Systems Engineering
16BT71503	Data Analytics
16BT71507	Business Analytics
16BT71508	Internet of Things
16BT71509	Secure Software Engineering
16BT71531	System Modeling and Simulation Lab
16BT2BS01	Transformation Techniques and Partial Differential Equations
16BT4HS31	Soft Skills Lab
16BT6HS05	French Language
16BT6HS06	German Language
16BT6HS07	Indian Constitution
16BT6HS08	Indian Economy
16BT6HS09	Indian Heritage and Culture
16BT6HS10	Indian History
16BT6HS11	Personality Development
16BT6HS13	Philosophy of Education
16BT6HS13	Public Administration
16BT60112	Building Maintenance and Repair
16BT30503	Python Programming
16BT60502	Soft Computing
16BT60503	Wireless Networks
16BT21201	Object Oriented Programming through C++
16BT21232	Object Oriented Programming Lab
16BT31231	Java Programming Lab
16BT70413	Introduction to Nanoscience and Nanotechnology

BOS,Chairman