


**Department of Information Technology**

**Agenda for 13<sup>th</sup> Meeting of Board of Studies for B. Tech.  
(Information Technology) on 10-07-2021 at 02:15 PM**

1. Action taken report on minutes/resolutions of 11<sup>th</sup> & 12<sup>th</sup> BOS meeting.
2. Report on implementation of Autonomy with respect to syllabi & academic regulations for II-B.Tech (under SVEC-19) 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 structures 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. Appraisal on research, teaching, extension and other academic activities, achievements of the Department.
10. Any other item.

  
**Dr. K. Ramani**  
**Chairperson, BoS-IT**

**Sub:** 13th BoS meeting in IT on 10.07.2021 @2.15PM (Saturday) in virtual conference mode through the Zoom platform

Topic: Ramani K's Zoom Meeting  
Time: Jul 10, 2021 02:15 PM India

Join Zoom Meeting  
<https://zoom.us/j/3548323572?pwd=ZjhZSnINcy8rcWI4Z2ZcwjNiWmhkZz09>  
Meeting ID: 354 832 3572  
Passcode: 917903

## Department of Information Technology

13<sup>th</sup> Meeting of Board of Studies

In

Information Technology

B. Tech(IT)

10<sup>th</sup> July , 2021

### Members Present:

S. No.	Name	Affiliation
1.	Mr. Srinivasa Kongara (External member)	Associate Manager Accenture Pvt. Ltd, Hyderabad-500003
2.	Dr. G. Zayaraz (External member)	Professor Dept. of CSE, Pondicherry Engineering College, Puducherry-605001
3.	Mr. B. Jayachandra Reddy (External member)	Software Engineer Wipro Pvt. Ltd. Electronic City, Bangalore-561229
4.	Dr. K. Ramani (Internal Member)	Professor, Head and BoS Chairperson-IT Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
5.	Mr. P. Srinivasa Reddi (Internal Member)	Associate Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
6.	Dr. K. K. Baseer (Internal Member)	Associate Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
7.	Dr. Lokanadham Naidu (Internal Member)	Associate Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College
8.	Dr. V. Jyothsna (Internal Member)	Associate Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
9.	Mr. P. Bhasha* (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
10.	Ms. E. Sandhya (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
11.	Mr. G. M. Chanakya (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
12.	Mr. Ch. Sreenu Babu (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
13.	Ms. C. Silpa (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet
14.	Ms. Ch. Prathima (Internal Member)	Assistant Professor, Dept. of Information Tehnology Sree Vidyanikethan Engineering College, A.Rangampet

**Minutes of 13<sup>th</sup> meeting of B.O.S (I.T) conducted on 10-07-2021 at 2.15 PM.**

1. Members of B.O.S were apprised of the Action Taken Report on minutes of 11<sup>th</sup> and 12<sup>th</sup> B.O.S meetings held on 13.07.2020 and 09.01.2021 respectively.
2. Report on implementation of Autonomy with respect to syllabi & academic regulations for II-B.Tech (under SVEC-19) and I B.Tech (under SVEC-20 regulations) was presented to the BoS members.
3. Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of III & IV B.Tech including Minor & Honors Degrees (Under SVEC-19) were presented to the members.
4. In SVEC-19 Professional elective course GPU computing is replaced with Full Stack Development with members' approval.

The members gave the following suggestions on syllabi:

- a. The external member Mr. Srinivasa Kongara suggested the following in .NET Technologies Course: Include ORM entity framework and replace AutoLotDAL, CarLotMVC and CarLotWebAPI as DAL, MVC and WebAPI (Instead of examples replace with generic names).
- b. Mr. Srinivasa Kongara suggested the following in Cloud Computing course: Remove the "Defining the Windows Azure Platform" topic and Replaced Windows Azure with Microsoft Azure.
- c. Mr. Jaya Chandra Reddy suggested to add Prisma Cloud experiments in Cloud Application Development Lab.
- d. Mr. B. Jaya Chandra Reddy suggested that Mobile applications and Web applications security should be assessed using Burp Suite and OWASP ZAP (Zed Attack Proxy).

They gave following suggestions on Minor Degree:

- a. Members asked to check the possibility of implementing Alexa based experiments in IoT Application Development Lab


They gave following suggestions on Minor Degree:

- a. The external member Dr. Zayaraz suggested keeping Honors degree title as Information Technology.
  - b. Mr. Srinivasa Kongara suggested to replace DevOps topics with AWS IoT in IoT on Cloud course.
  - c. Mr. B. Jaya Chandra Reddy suggested to include Compliance standards such as GDPR, HIPAA, HIPAA, PCI-DSS, ISO 27000 series, NIST, CIS etc.
5. Course Structure, Syllabi with Course Objectives, Course Outcomes, for the Courses of II, III & IV B.Tech (Under SVEC-20) and Course structures of Minor & Honors Degrees (Under SVEC-20) were presented to the members.

They gave the following suggestions on syllabi:

- a. Dr. Zayaraz suggested to include PHP framework in Web Technologies course.
  - b. Mr. Srinivasa Kongara suggested to replace the course title Web Development using Bootstrap and Angular JS as Web Development using Angular and Bootstrap.
  - c. Mr. B. Jaya Chandra Reddy suggested to add Proxy servers like WAMP/XAMP servers for web application deployment in a local host in Advanced Web Development Lab.
  - d. Mr. Srinivasa Kongara suggested to include few experiments on Augmented Reality Applications Lab.
6. 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.
  7. 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.
  8. Course wise Panel of Examiners for Question paper setting were presented and BoS members accepted the same.
  9. Substitute Courses for rejoining students in new regulations were discussed.
  10. The B.O.S members have appreciated the research, teaching, extension and other academic activities, achievements of the Department.



  
**Dr. K. Ramani**  
**Chairperson, BoS-IT**

# APPROVED COURSE STRUCTURE

**PROGRAM: INFORMATION TECHNOLOGY**

**REGULATION: SVEC-20**

**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.	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.	20BT31201	Discrete Mathematical Structures	3	-	-	3	3	30	70	100
3.	20BT31202	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
<b>Total</b>			<b>15</b>	<b>01</b>	<b>11</b>	<b>27</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.	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.	<b>Open Elective-2</b>						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
<b>Total</b>			<b>15</b>	<b>01</b>	<b>11</b>	<b>27</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**

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.	<b>Open Elective-1</b>		3	-	-	3	3	30	70	100
5.	<b>Professional Elective-1</b>		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.	20BT50531	Python for Data Science Lab	-	1	2	3	2	30	70	100
9.	20BT51233	Summer Internship	-	-	-	-	1.5	-	100	100
<b>Total:</b>			<b>15</b>	<b>01</b>	<b>08</b>	<b>24</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**

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.	<b>Professional Elective-2</b>		3	-	-	3	3	30	70	100
	20BT61202	Information Retrieval Systems								
	20BT61203	Semantic Web and Social Networks								
	20BT60502	Compiler Design								
	20BT61204	Web Development using Angular and Bootstrap								
	20BT70501	Computer Vision								
5.	<b>Professional Elective-3</b>		3	-	-	3	3	30	70	100
	20BT61205	Information Security and Management								
	20BT50504	Cyber Security								
	20BT61506	User Interface Design								
	20BT70502	Full Stack Development								
	20BT43101	Artificial Intelligence								
6.	<b>Interdisciplinary Elective-1</b>		3	-	-	3	3	30	70	100
	20BT40441	Microprocessors and Interfacing								
	20BT61206	Mobile Computing								
	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
<b>Total:</b>			<b>18</b>	<b>01</b>	<b>08</b>	<b>27</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**

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.	<b>Professional Elective-4</b>		3	-	-	3	3	30	70	100
	20BT71203	Big Data Technologies								
	20BT71204	Computer Forensics								
	20BT71205	System Administration and Maintenance								
	20BT71206	Game Development								
	20BT71207	Decision Support and Intelligent Systems								
4.	<b>Professional Elective-5</b>		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.	<b>Interdisciplinary Elective-2</b>		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
<b>Total:</b>			<b>15</b>	<b>01</b>	<b>08</b>	<b>24</b>	<b>21.5</b>	<b>240</b>	<b>660</b>	<b>900</b>
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			
2.	20BT81232	Internship	-	-	-	-				
<b>Total</b>			-	-	-	-	<b>12</b>			

**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	Professional Ethics
20BT4HS12	Women Empowerment	20BT4HS13	Indian Tradition and Culture
20BT4HS14	Constitution of India	20BT40106	Disaster Mitigation and Management
20BT40205	Reliability and Safety Engineering	20BT40107	Sustainable Engineering
20BT50107	Environmental Pollution and Control	20BT40108	Contract Laws and Regulations
20BT50108	Planning for Sustainable Development	20BT40306	Global Strategy and Technology
20BT50109	Rural Technology	20BT40307	Management Science
20BT50506	Ethical Hacking	20BT40502	Cyber Laws and Security
20BT51205	AI in Healthcare	20BT50208	Intellectual Property Rights
20BT51506	Bioinformatics	20BT50409	Green Technologies

## LIST OF PROFESSIONAL ELECTIVES (PEs)

S. No.	Knowledge Area	PE-1	PE-2	PE-3	PE-4	PE-5
1.	<b>Information Management</b>	Advanced Databases	Information Retrieval Systems	Information Security and Management	Big Data Technologies	Mobile Databases
2.	<b>Networks</b>	Cryptography and Network Security	Semantic Web and Social Networks	Cyber Security	Computer Forensics	Digital and Social Media Marketing
3.	<b>Platform Technologies</b>	Software Testing	Compiler Design	User Interface Design	System Administration and Maintenance	Advanced Computer Architecture
4.	<b>Programming</b>	Linux Programming	Web Development using Angular and Bootstrap	Full Stack Development	Game Development	.Net Technologies
5.	<b>Intelligent Systems</b>	Soft Computing	Computer Vision	Artificial Intelligence	Decision Support and Intelligent Systems	Machine Learning

<b>Interdisciplinary Elective</b>	<b>IDE1</b>	<b>IDE2</b>
Computing	Microprocessors and Interfacing	Embedded Systems
Communications	Mobile Computing	Ad-hoc and Wireless sensor networks
Intelligent Systems	Image Processing	Pattern Recognition
Networks	Wireless Networks	Intrusion Detection Systems

## MINOR DEGREE

### Internet of Things

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
<b>Minor Pool</b>	20BTM1201	Embedded System Design and Architecture	3	1	-	4	4	30	70	100
	20BTM1202	IoT Architecture and Protocols	3	1	-	4	4	30	70	100
	20BTM1203	Sensor Technology	3	1	-	4	4	30	70	100
	20BTM1204	Cloud Storage and Computing	3	1	-	4	4	30	70	100
	20BTM1205	Privacy and Security in IoT	3	1	-	4	4	30	70	100
	20BTM1206	Software Defined Networks for IoT	3	1	-	4	4	30	70	100
	20BTM1207	Advanced IoT	3	1	-	4	4	30	70	100
	20BTM1208	Big Data Analytics for IoT	3	1	-	4	4	30	70	100
	20BTMMC01	MOOC	-	-	-	-	2			
	20BTMMC02	MOOC	-	-	-	-	2			

III B.Tech. I-Sem	2 Courses from the above list.	3	1	-	4	4
		3	1	-	4	4
III B.Tech. II-Sem	Any one course from the remaining list.	3	1	-	4	4
	MOOC	-	-	-	-	2
IV B.Tech. I-Sem	Another one course from the remaining list.	3	1	-	4	4
	MOOC	-	-	-	-	2
<b>Total Credits</b>						<b>20</b>

**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 Minor degree. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course.

**HONORS DEGREE**  
**Information Technology**

Semester	COURSE CODE	Course Title	Contact Periods per week				C
			L	T	P	Total	
<b>Pool-1</b> III B.Tech. I-Sem (Any 1 Course)	20BTH1201	Cloud Architectures	3	1	-	4	4
	20BTH1202	NoSQL Databases					
	20BTH1203	Virtualization Techniques					
<b>Pool-2</b> III B.Tech. I-Sem (Any 1 Course)	20BTH1504	Business Analytics	3	1	-	4	4
	20BTH1203	Cloud Storage and Computing					
	20BTH1204	Natural Language Processing and Text Analytics					
<b>Pool-3</b> III B.Tech.II-Sem (Any 1 Course and another 1 course through MOOC )	20BTH1205	Advanced Machine Learning	3	1	-	4	4
	20BTH1206	Cloud and DevOps					
	20BTH1207	Cloud Application Development					
	20BTHMC01	MOOC	-	-	-	-	2
<b>Pool-4</b> IV B.Tech.I-Sem (Any 1 Course and another 1 course through MOOC )	20BTH1208	Backup and Disaster Recovery	3	1	-	4	4
	20BT H1209	Cloud Security					
	20BTH1210	IoT cloud and data analytics					
	20BTHMC02	MOOC	-	-	-	-	2
<b>Total Credits</b>							<b>20</b>

**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.

*K. Ramani*  
**Dr. K. Ramani**  
**Chairperson, BoS (IT)**

## **LIST OF NEW COURSES INTRODUCED**

**Program: INFORMATION TECHNOLOGY**

**Regulation: SVEC-20**

<b>Course Code</b>	<b>Course Title</b>
20BT31232	Programming with Python Lab (Skill Oriented)
20BT50531	Python for Data Science Lab (Skill Oriented)
20BT61204	Web Development using Angular and Bootstrap
20BT61232	AI Tools Lab
20BT61233	Advanced Web Development Lab (Skill Oriented)
20BT71209	Digital and Social Media Marketing
20BT71233	Augmented Reality and Virtual Reality Applications Lab (Skill Oriented)
20BT712AC	Deep Learning Technologies (Audit Course)
20BTH1202	NoSQL Databases
20BTH1204	Natural Language Processing and Text Analytics
20BTH1504	Business Analytics
20BTH1205	Advanced Machine Learning

*K. Ramani*

**Dr. K. Ramani**  
**Chairperson, BoS (IT)**