



# SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION

SRI SIDDHARTHA UNIVERSITY  
(DEEMED TO BE UNIVERSITY)

Declared under Section 3 of the UGC Act, 1956, MIRD GOI No. F.9-31/2006-U.3 (A) dated: 30/05/2008

Accredited 'A' Grade by NAAC

Agalakote, B.H.Road, Tumkur - 572 107. KARNATAKA, INDIA.

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No. SSAHE/ACA/ADMN/01/2018-19/2899/A

Date: 02/08/2018

To,

The Principal,  
Sri Siddhartha Institute of Technology,  
Tumkur-05

Sir,

**Sub:** Approval of new curriculum of Engineering and Technology for the academic Year 2018-19-reg.

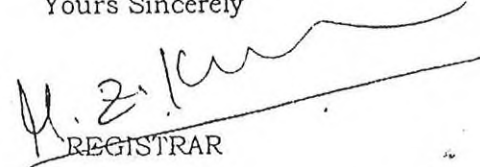
**Ref:** Letter from the Principal SSIT/SSAHE/2018-19/218 Dated: 30.07.2018

With reference to the above, Sri Siddhartha Institute of Technology, Tumkur has adopted **Choice Based Credit System (CBCS)** for engineering disciplines as per the guidelines of AICTE Since 2009-2010 further the revised AICTE guidelines 2018 have been adopted since 2018-19.

In this connection the university has accorded the permission for the implementation of new curriculum as per the requests received from the Principal, SSIT, Tumkur.


Thanking You,


Yours Sincerely

  
REGISTRAR

**REGISTRAR**

Sri Siddhartha Academy of Higher Education  
TUMKUR - 572 107, Karnataka.

  
3/8/2018  
Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.

  
Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY

(A constituent college of Sri Siddhartha Academy of Higher Education)

Maralur, Tumkur-572105

## List of Programmes adopting CBCS/Elective Course System

SI.No	Programme Code	Programme name
1	EU03	BE Computer Science and Engineering
2	EP06	M.Tech Computer Science and Engineering
3	EU02	BE Civil Engineering
4	EP03	M.Tech Computer Aided Design of Structures
5	EU05	BE Electrical & Electronics Engineering
6	EP07	M.Tech Computer Applications in Industrial Drives
7	EU06	BE Electronics & Communication Engineering
8	EP01	M.Tech Digital Electronics
9	EP05	M.Tech VLSI & Embedded Systems
10	EU08	BE Information Science and Engineering
11	EU11	BE Industrial Engineering & Management
12	EU09	BE Mechanical Engineering
13	EP02	M.Tech Thermal Power Engineering
14	EP04	M.Tech Product Design and Manufacturing
15	EU07	BE Telecommunication Engineering
16	EU10	M.Tech Medical Electronics
17	EP08	Master of Computer Applications

  
**Dean (Academics)**

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

***Scheme of Teaching and Examination-2018***

**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

Structure of Undergraduate Engineering program:

Sl	Particulars	Suggested Breakup of Credits(Total 170)	% of Break up	Suggested Breakup of Credits(Total 160) AICTE	% of Break up
1	Basic Science	23	13.5	25	15.62
2	Engineering Sciences	27	15.8	24	15.00
3	Humanities and Sciences	05	02.9	12	07.50
4	Professional Core with PW	91	53.5	63	39.37
5	Professional Elective	18	10.6	18	11.25
6	Open Elective	06	03.5	18	11.25
	Total	170	100.00	160	100.00

**Note:** on an average the norms suggested by AICTE 2018 regulations have been followed to the maximum extent possible

Dean (Academics)  
Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.

Principal 14.3.2020  
Dr. M. S. Raviprakash  
Principal  
Sri Siddhartha Institute of Technology  
Maralur, Tumakuru - 572 105.

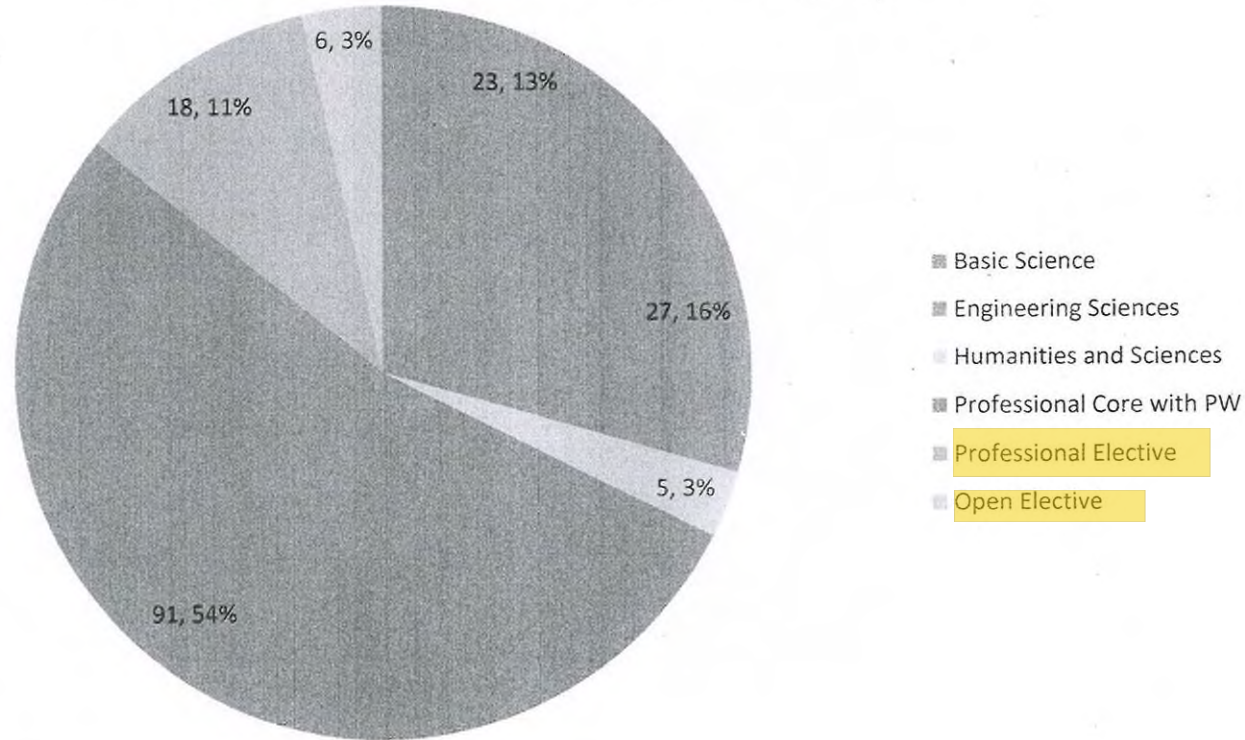


**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

*Scheme of Teaching and Examination-2018*

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

**Structure of Undergraduate Engineering program:**



- Basic Science
- Engineering Sciences
- Humanities and Sciences
- Professional Core with PW
- Professional Elective
- Open Elective

*15.12*  
Dean (Academics)  
Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.

*Dr. M. S. Ravi Prakash*  
Principal  
Principal  
Sri Siddhartha Institute of Technology  
Maralur, Tumakuru - 572 105.

# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU

(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)

## SCHEME OF TEACHING AND EXAMINATION 2021

Choice Based Credit System (CBCS) (Effective from the academic year 2020-21)

### I SEMESTER

I Semester B.E.(Common to All Branch) (CHEMISTRY CYCLE)

Sl No.	Course Code		Course Title	Teaching Department	Board of Exam	Teaching Hours/week				Examination			
						L	T	P	Cr	CIE	SEE	Total Marks	Exam Hours
01	BS	BS-MA101	Calculus and Linear Algebra	MATHS	MA	3	1	-	4	50	50	100	3
02	ES	ES-EC102	Basic Electronics Engineering	ELECTRONICS	EC	3	-	-	3	50	50	100	3
03	ES	ES-ME103	Mechanical Engineering Science	MECHANICAL	ME	3	-	2	4	50	50	100	3
04	BS	BS-CH104	Engineering Chemistry	CHEMISTRY	CH	3			3	50	50	100	3
05	ES	ES-CS105	Programming for Problem Solving	COMPUTER SC	CS	3	1	-	4	50	50	100	3
06	BS	BS-CHL106	Engineering Chemistry Lab	CHEMISTRY	CH	-	-	2	1	50	50	100	3
07	ES	ES-CSL107	Programming Lab	COMPUTER SC	CS	-	-	2	1	50	50	100	3
08	HS	HS-CP108	Constitution of India and Professional Ethics	HUMANITY SC	HS	2	-	-	0	50		50	
09	HS	HS-KA109	Kannada	HUMANITY SC	HS	2	-	-	0	50		50	
<b>Total</b>						19	02	06	20	450	350	800	

L-Lecture,

T-Tutorial,

P-Practical,

CIE-Continuous Internal Evaluation,

SEE-Semester End Examination

**HS-KA109 Kannada course will be conducted only for those students who have not pass Kannada qualifying examination**

There is no Semester End Examination for Constitution of India and Professional Ethics HS-CP108 but attendance should be minimum of 85% in theory and shall have obtained minimum of 40% in CIE (out of 50)

Sri Siddhartha Institute of Technology  
Maralur, Tumakuru - 572 105.

**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU**  
**(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)**  
**SCHEME OF TEACHING AND EXAMINATION 2021**

**Choice Based Credit System (CBCS) (Effective from the academic year 2020-21)**  
**I SEMESTER**

I Semester B.E.(Common to All Branch) (PHYSICS CYCLE)					Teaching Hours/week				Examination				
Sl No	Course Code		Course Title	Teaching Department	Board of Exam	L	T	P	Cr	CIE	SEE	Total Marks	Exam Hours
01	BS	BS-MA101	Calculus and Linear Algebra	MATHAS	MA	3	1		4	50	50	100	3
02	BS	ES-EEI102	Basic Electrical Engineering	ELECTRICAL	EE	3			3	50	50	100	3
03	ES	ES-CE103	Elements of Civil Engineering	CIVIL	CV	3		2	4	50	50	100	3
04	ES	BS-PH104	Engineering Physics	PHYSICS	PH	3			3	50	50	100	3
05	ES	ES-ME105	Computer Aided Engineering Design	MECHANICAL	ME	2		4	4	50	50	100	3
06	BS	BS-PHL106	Engineering Physics Lab $\rightarrow$ X	PHYSICS	PH			2	1	50	50	100	3
07	ES	HS-EV107	Environmental Studies $\rightarrow$ X	HUMANITY SC	HS	2			1	50		50	
08	HS	HS-EN108	Professional English	HUMANITY SC	HS	2			0	50		50	
<b>Total</b>						18	01	8	20	400	300	700	

L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

There is no Semester End Examination for English HS-EN108 and HS-EV107 Environmental studies but attendance should be minimum of 85% in theory and shall have obtained minimum of 40% in CIE (out of 50)

Dean (Academics)  
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 Maralur, Tumkur - 572 105.

**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU**  
**(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)**  
**SCHEME OF TEACHING AND EXAMINATION 2021**  
**Choice Based Credit System (CBCS) (Effective from the academic year 2020-21)**  
**II SEMESTER**

II Semester B.E.(Common to All Branch) (CHEMISTRY CYCLE)					Teaching Hours/week				Examination				
Sl No.	Course Code		Course Title	Teaching Department	Board of Exam	L	T	P	Cr	CIE	SEE	Total Marks	Exam Hours
01	BS	BS-MA201	Advanced Calculus and Numerical Methods	MATHAS	MA	3	1		4	50	50	100	3
02	ES	ES-EEI202	Basic Electrical Engineering	CIVIL	CV	3			3	50	50	100	3
03	ES	ES-CE203	Elements of Civil Engineering	ELECTRICAL	EE	3		2	4	50	50	100	3
04	BS	BS-PH204	Engineering Physics	PHYSICS	PH	3			3	50	50	100	3
05	ES	ES-ME205	Computer Aided Engineering Design	MECHANICAL	ME	2		4	4	50	50	100	3
06	BS	BS-PHL206	Engineering Physics Lab	PHYSICS	PH			2	1	50	50	100	3
07	ES	HS-EV207	Environmental Studies	HUMANITY SC	HS	2			1	50		50	
08	HS	HS-EN208	Professional English	HUMANITY SC	HS	2			0	50		50	
<b>Total</b>						18	01	8	20	400	300	700	

L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

There is no Semester End Examination for English HS-EN208 and HS-EV207 Environmental studies but attendance should be minimum of 85% in theory and shall have obtained minimum of 40% in CIE (out of 50)

Dean (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.

**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU**  
**(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)**  
**SCHEME OF TEACHING AND EXAMINATION 2021**

**Choice Based Credit System (CBCS) (Effective from the academic year 2020-21)**

**II SEMESTER**

II Semester B.E.(Common to All Branch) (PHYSICS CYCLE)					Teaching Hours/week				Examination				
Sl No	Course Code		Course Title	Teaching Department	Board of Exam	L	T	P	Cr	CIE	SEE	Total Marks	Exam Hours
01	BS	BS-MA201	Advanced Calculus and Numerical Methods	MATHS	MA	3	1	-	4	50	50	100	3
02	BS	ES-ECI202	Basic Electronics Engineering	ELECTRONICS	ME	3	-	-	3	50	50	100	3
03	ES	ES-ME203	Mechanical Engineering Science	MECHANICAL	EC	3	-	2	4	50	50	100	3
04	ES	BS-CH204	Engineering Chemistry	CHEMISTRY	CH	3	-	-	3	50	50	100	3
05	ES	ES-CS205	Programming with Problem Solving	COMPUTER SC	CS	3	1	-	4	50	50	100	3
06	BS	BS-CHL206	Engineering Chemistry Lab	CHEMISTRY	CH	-	-	2	1	50	50	100	3
07	ES	BS-CSL207	Programming Lab	COMPUTER SC	CS	-	-	2	1	50	50	100	3
08	HS	HS-CP208	Constitution of India and Professional Ethics	HUMANITY SC	HS	2	-	-	0	50		50	
08	HS	HS-KN209	Kannada	HUMANITY SC	HS	2	-	-	0	50		50	
<b>Total</b>						19	02	06	20	450	350	800	

L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

**HS-KA209Kannada course will be conducted only for those students who have not pass Kannada qualifying examination**

There is no Semester End Examination for Constitution of India and Professional Ethics HS-CP208 but attendance should be minimum of 85% in theory and shall have obtained minimum of 40% in CIE (out of 50)

Dean (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur  
 15-12-105



### III Semester Scheme

III Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)						Examination				
SI No.	Course Code	Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hours	
01	BS MA3TH1	Integral Transform and Numerical Techniques	MA	MA	4	50	50	100	3	
02	PC EE3TH2	Analog and Digital Electronics	EE	EE	3	50	50	100	3	
03	PC EE3TH3	Electric Circuit Analysis	EE	EE	3	50	50	100	3	
04	PC EE3TH4	DC Machines and Synchronous Machines	EE	EE	3	50	50	100	3	
05	PC EE3TH5	Electrical Measurements and Measuring Instruments	EE	EE	3	50	50	100	3	
06	ES / MA EE3TH6 / MA3DP6	Electric Power Generation Technology (Not for Diploma Students) Fundamental Mathematics (Only for Diploma students)	EE / MA	EE / MA	3	50	50	100	3	
07	PC EE3LB1	Analog and Digital Electronics Lab	EE	EE	1.5	50	50	100	3	
08	PC EE3LB2	Circuit Simulation and Measurements Lab	EE	EE	1.5	50	50	100	3	
09	PC EE3LB3	DC Machines and Synchronous Machines Lab	EE	EE	1.5	50	50	100	3	
10	HS SK3DP1	Skill Development-I	HS	HS	1	50	-	50	-	
<b>Total</b>						<b>24.5</b>	<b>500</b>	<b>450</b>	<b>950</b>	<b>-</b>

CIE- Continuous Internal Evaluation, SEE-Semester End Examination

Note: MA3DP6: DIP Mathematics for Lateral Entry students only.

There is no SEE for Skill Development-I course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)

Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



### IV Semester Scheme

IV Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
SI No	Course Code	Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.	
01	BS MA4ES1	Probability and Complex Analysis	MA	MA	3	50	50	100	3	
02	PC EE4TH2	Power Electronics	EE	EE	3	50	50	100	3	
03	PC EE4TH3	Control Systems	EE	EE	3	50	50	100	3	
04	PC EE4TH4	Fields and Waves	EE	EE	3	50	50	100	3	
05	PC EE4TH5	Transformers and Induction Machines	EE	EE	3	50	50	100	3	
06	PC EE4TH6	Electrical Power Transmission and Distribution	EE	EE	3	50	50	100	3	
07	PC EE4LB1	Power Electronics Lab	EE	EE	1.5	50	50	100	3	
08	PC EE4LB2	Control Systems Lab	EE	EE	1.5	50	50	100	3	
09	PC EE4LB3	Transformers and Induction Machines Lab	EE	EE	1.5	50	50	100	3	
10	HS SK4DP2	Skill Development-II	HS	HS	1	50	-	50	-	
<b>Total</b>						<b>23.5</b>	<b>500</b>	<b>450</b>	<b>950</b>	<b>-</b>

CIE-Continuous Internal Evaluation, SEE-Semester End Examination

Note: MA4EE1: Engineering mathematics-IV is not common for all Branches (Syllabus is based on Department request).

There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING  
III SEMESTER B.E.

SI No.	Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hours
01	BS	MA3TH1	Integral Transform and Numerical Methods	MA	MA	4	50	50	100	3
02	PC	ET3TH2	Signals and Systems	ET	ET	3	50	50	100	3
03	PC	ET3TH3	Network Analysis	ET	ET	3	50	50	100	3
04	PC	ET3TH4	Analog Electronic Circuits	ET	ET	3	50	50	100	3
05	PC	ET3TH5	Digital Electronic Circuit Design using Verilog	ET	ET	3	50	50	100	3
06	ES/MA	ET3TH6/MA3DP6	Electronic Instrumentation/ Fundamental Mathematics	ET/MA	ET/MA	3	50	50	100	3
07	PC	ET3LB1	Signals and Systems Lab	ET	ET	1.5	50	50	100	3
08	PC	ET3LB2	Analog Electronic Circuits Lab	ET	ET	1.5	50	50	100	3
09	PC	ET3LB3	Digital Electronic Circuit Design using Verilog Lab	ET	ET	1.5	50	50	100	3
10	HS	SK3DP1	Skill Development-I	HS	HS	1	50	-	50	-
Total						24.5	500	450	950	-

CIE-Continuous Internal Evaluation, SEE-Semester End Examination

**Note:**MA3DP6: DIP Mathematics for Lateral Entry students only. There is no SEE for Skill Development-I course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.



IV Semester B.E.

SL No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	BS	MA4ES1	Probability and Complex Analysis	MA	MA	3	50	50	100	3
02	PC	ET4TH2	Sensors and Applications	ET	ET	3	50	50	100	3
03	PC	ET4TH3	Fields and Waves	ET	ET	3	50	50	100	3
04	PC	ET4TH4	Analog and Digital Communication	ET	ET	3	50	50	100	3
05	PC	ET4TH5	Microcontroller and Embedded Systems	ET	ET	3	50	50	100	3
06	PC	ET4TH6	Control Systems	ET	ET	3	50	50	100	3
07	PC	ET4LB1	Sensors and Applications Lab	ET	ET	1.5	50	50	100	3
08	PC	ET4LB2	Communication Lab-1	ET	ET	1.5	50	50	100	3
09	PC	ET4LB3	Microcontroller Lab	ET	ET	1.5	50	50	100	3
10	HS	SK4DP2	Skill Development-II	HS	HS	1	50	-	50	-
Total						23.5	500	450	850	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

**Note:** MA4\*\*1: Engineering mathematics-IV is not common for all Branches (Syllabus is based on Department request). There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject. Question paper Pattern: Two Questions will be set from each unit and student is expected to answer anyone.

Electronics and Telecommunication Engineering

22

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
 (A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
 (Effective from the academic year 2021-22)




**Department of Medical Electronics**  
**III SEMESTER B.E.**

Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)								Examination			
Sl No.	Course Code		Course Title	Teaching dept.	Board of Exam.	L-T-P	Credits	CIE	SEE	Total Marks	Exam Hours
01	BS	MA3TH1	Integral Transform and Numerical Methods	MA	MA	4-0-0	4	50	50	100	3
02	PC	ML3TH2	Oops with C++	ML	ML	3-0-0	3	50	50	100	3
03	PC	ML3TH3	Human Anatomy and Physiology	ML	ML	3-0-0	3	50	50	100	3
04	PC	ML3TH4	Biomedical Instrumentation	ML	ML	3-0-0	3	50	50	100	3
05	PC	ML3TH5	Analog and Digital Electronic Circuits	ML	ML	3-0-0	3	50	50	100	3
06	ES/ MA	ML3TH6/ MA3DP6	Biosensors and Measurements/ DIP Mathematics	ML/ MA	ML/ MA	3-0-0	3	50	50	100	3
07	PC	ML3LB1	Biomedical Instrumentation Lab	ML	ML	0-0-3	1.5	50	50	100	3
08	PC	ML3LB2	Analog and Digital Electronics circuits Lab	ML	ML	0-0-3	1.5	50	50	100	3
09	PC	ML3LB3	Oops with C++ Lab	ML	ML	0-0-3	1.5	50	50	100	3
10	HS	SK3DP1	Skill Development-I	HS	HS	1-0-0	1	50	-	50	-
Total							24.5	500	450	950	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination											

**Note:** MA3DP6: DIP Mathematics for Lateral Entry students only.

There is no SEE for Skill Development-I course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

  
**Dean (Academics)**  
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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

**CHOICE BASED CREDIT SYSTEM (CBCS)**

**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**

(Effective from the academic year 2021-22)

**Department of Medical Electronics  
IV SEMESTER B.E.**

(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)								
SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L-T-P	Credits	CIE
01	BS	MA4ES1	Probability and Complex Analysis	MA	MA	3-0-0	3	50
02	PC	ML4TH2	Signals and Systems	ML	ML	3-0-0	3	50
03	PC	ML4TH3	Circuit Theory and Analysis	ML	ML	3-0-0	3	50
04	PC	ML4TH4	Physiological Control System	ML	ML	3-0-0	3	50
05	PC	ML4TH5	Linear Integrated Circuits	ML	ML	3-0-0	3	50
06	PC	ML4TH6	Microcontroller	ML	ML	3-0-0	3	50
07	PC	ML4LB1	Microcontroller Lab	ML	ML	0-0-3	1.5	50
08	PC	ML4LB2	Sensors and Measurements Lab	ML	ML	0-0-3	1.5	50
09	PC	ML4LB3	Signals and Control System Lab	ML	ML	0-0-3	1.5	50
10	HS	SK4DP2	Skill Development-II	HS	HS	1-0-0	1	50
Total							23.5	500
<b>CIE-Continuous Internal Evaluation, SEE-Semester End Examination</b>								

**Note:** MA4\*\*1: Engineering mathematics-IV is not common for all Branches (Syllabus is based on Department request).  
There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance an

**	Old Code	New Code
CSE and ISE	18CS401	MA4CS1
EE, EC, ETC AND ML	18ES401	MA4ES1
ME, CVL, IEM	18MA401	MA4ME1

**Dean (Academics)**  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



## DEPARTMENT OF MECHANICAL ENGINEERING

### SCHEME OF TEACHING AND EXAMINATION

Choice Based Credit System (CBCS) (Effective from the academic year 2022-23)  
III SEMESTER

#### III Semester B.E. Mechanical Engineering / Industrial Engineering Management

Sl. No.	Course Code		Course Title	Teaching Dept.	Board of Exam.	Credits
1.	BS	MA3TH1	Integral Transforms and Numerical Techniques	MA	MA	4
2.	PC	ME3TH2	Management & Entrepreneurship	ME	ME	3
3.	PC	ME3TH3	Engineering Thermodynamics	ME	ME	3
4.	PC	ME3TH4	Engineering Mechanics	ME	ME	3
5.	PC	ME3TH5	Mechanical Measurements and Metrology	ME	ME	3
6.	ES/ MA	ME3TH6/ MA3DP6	Metal Casting and Forming Process/DIP Mathematics*	ME/MA	ME/MA	3
7.	PC	ME3LB1	Computer Aided Machine Drawing	ME	ME	1.5
8.	PC	ME3LB2	Measurements and Metrology Lab	ME	ME	1.5
9.	PC	ME3LB3	Basic W/S Practice Lab	ME	ME	1.5
10.	HS	SK3DP1	Skill Development – I*	HS	HS	1
<b>TOTAL</b>						<b>24.5</b>
CIE-Continuous Internal Evaluation, SEE-Semester End Examination						

- MA3DP6: DIP Mathematics for lateral entry students only
- There is no SEE for Skill Development -I Course, however all the Students Should maintain minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**SCHEME OF TEACHING AND EXAMINATION**

Choice Based Credit System (CBCS) (Effective from the academic year 2022-23)  
**IV SEMESTER**

IV Semester B.E. Mechanical Engineering / Industrial Engineering Management						
Sl. No.	Course Code		Course Title	Teaching Dept.	Board of Exam.	Credits
1.	BS	MA4ME1	Engineering Mathematics-IV*	MA	MA	3
2.	PC	ME4TH2	Fluid Mechanics	ME	ME	3
3.	PC	ME4TH3	Kinematics of Machines	ME	ME	3
4.	PC	ME4TH4	Mechanics of Materials	ME	ME	3
5.	PC	ME4TH5	Machine Tools & Machining Process	ME	ME	3
6.	PC	ME4TH6	Material Science and Metallurgy	ME	ME	3
7.	PC	ME4LB1	Manufacturing Process Lab	ME	ME	1.5
8.	PC	ME4LB2	Material Testing & Metallography Lab	ME	ME	1.5
9.	PC	ME4LB3	Production Technology Lab	ME	ME	1.5
10.	HS	SK4DP2	Skill Development – II*	HS	HS	1
<b>TOTAL</b>						<b>23.5</b>
CIE-Continuous Internal Evaluation, SEE-Semester End Examination						

- MA4TH1: Engineering Mathematics is not common for all the branches (syllabus is based on department request)
- There is no SEE for Skill Development -I Course, however all the Students Should maintain minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



### III SEMESTER B.E.

III Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.)						Examination				
Sl No.	Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hours
01	BS	MA3TH1	Integral Transform and Numerical Methods	MA	MA	4	50	50	100	3
02	PC	CE3TH2	Applied Mechanics	CE	CE	3	50	50	100	3
03	PC	CE3TH3	Engineering Geology	CE	CE	3	50	50	100	3
04	PC	CE3TH4	Fluid Mechanics	CE	CE	3	50	50	100	3
05	PC	CE3TH5	Building Planning and Drawing	CE	CE	3	50	50	100	3
06	ES/ MA	CE3TH6/ MA3DP6	Surveying / DIP Mathematics	CE/ MA	CE/ MA	3	50	50	100	3
07	PC	CE3LB1	Hydraulics and Hydraulic Machines Lab	CE	CE	1.5	50	50	100	3
08	PC	CE3LB2	Surveying Practice - I	CE	CE	1.5	50	50	100	3
09	PC	CE3LB3	Auto CAD Lab	CE	CE	1.5	50	50	100	3
10	HS	SK3DP1	Skill Development-I	HS	HS	1	50	-	50	-
Total						24.5	500	450	950	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

Note: MA3DP6: DIP Mathematics for Lateral Entry students only.

There is no SEE for Skill Development-I course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Academic year 2022-23

3<sup>rd</sup> & 4<sup>th</sup> Sem

Dept. of Civil Engineering

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



## IV SEMESTER B.E.

IV Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.)							Examination			
SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	BS	MA4TH1	Probability and Calculus of Variations	MA	MA	3	50	50	100	3
02	PC	CE4TH2	Strength of Materials	CE	CE	3	50	50	100	3
03	PC	CE4TH3	Concrete Technology	CE	CE	3	50	50	100	3
04	PC	CE4TH4	Hydraulics and Hydraulic Machines	CE	CE	3	50	50	100	3
05	PC	CE4TH5	Building materials and construction management	CE	CE	3	50	50	100	3
06	PC	CE4TH6	Geotechnical Engineering-I	CE	CE	3	50	50	100	3
07	PC	CE4LB1	Basic Material Testing Lab	CE	CE	1.5	50	50	100	3
08	PC	CE4LB2	Surveying practice - II	CE	CE	1.5	50	50	100	3
09	PC	CE4LB3	Engineering Geology Lab	CE	CE	1.5	50	50	100	3
10	HS	SK4DP2	Skill Development-II	HS	HS	1	50	50	100	3
Total						23.5	500	450	850	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

**Note:** MA4\*\*1: Engineering mathematics-IV is not common for all Branches (Syllabus is based on Department request). There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.



**SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
 (A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
 (Effective from the academic year 2020-21)  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**  
**Academic Year 2022-23**



III Semester B.E. ECE (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
Sl No	Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hours
01	BS	MA3TH1	Integral Transform and Numerical Techniques	MA	MA	4.0	50	50	100	3
02	PC	EC3TH2	Signals and Systems	EC	EC	3.0	50	50	100	3
03	PC	EC3TH3	Network Theory	EC	EC	3.0	50	50	100	3
04	PC	EC3TH4	Analog Electronic Circuits	EC	EC	3.0	50	50	100	3
05	PC	EC3TH5	Digital Electronic Circuits	EC	EC	3.0	50	50	100	3
06	ES/ MA	EC3TH6/ MA3DP6	Electronic Instrumentation/ DIP Mathematics	EC/ MA	EC/ MA	3.0	50	50	100	3
07	PC	EC3LB1	Signals and Systems Lab	EC	EC	1.5	50	50	100	3
08	PC	EC3LB2	Analog Electronic Circuits Lab	EC	EC	1.5	50	50	100	3
09	PC	EC3LB3	Digital Electronic Circuits Lab	EC	EC	1.5	50	50	100	3
10	HS	SK3DP1	Skill Development-I	HS	HS	1.0	50	-	50	-
Total						24.5	500	450	950	-

**CIE-Continuous Internal Evaluation, SEE-Semester End Examination**

*Note:* MA3DP6: DIP Mathematics for Lateral Entry students only. There is no SEE for Skill Development-I course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

IV Semester B.E. ECE (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	BS	MA4ES1	Probability and Complex Analysis	MA	MA	3.0	50	50	100	3
02	PC	EC4TH2	Digital System Design using Verilog	EC	EC	3.0	50	50	100	3
03	PC	EC4TH3	Fields and waves	EC	EC	3.0	50	50	100	3
04	PC	EC4TH4	Analog Communication	EC	EC	3.0	50	50	100	3
05	PC	EC4TH5	Microcontroller and Its Applications	EC	EC	3.0	50	50	100	3
06	PC	EC4TH6	Control Systems	EC	EC	3.0	50	50	100	3
07	PC	EC4LB1	Verilog Lab	EC	EC	1.5	50	50	100	3
08	PC	EC4LB2	Analog Communication Lab	EC	EC	1.5	50	50	100	3
09	PC	EC4LB3	Microcontroller Lab	EC	EC	1.5	50	50	100	3
10	HS	SK4DP2	Skill Development-II	HS	HS	1.0	50	-	50	-
Total						23.5	500	450	950	-

**CIE-Continuous Internal Evaluation, SEE-Semester End Examination**

*Note:* MA4\*\*1: Engineering mathematics-IV is not common for all Branches (Syllabus is based on Department request). There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.



# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



## CHOICE BASED CREDIT SYSTEM (CBCS)

### SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE – 2022-23

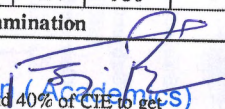
(Effective from the academic year 2020-21)

III Semester B.E. Information Science and Engineering						Teaching Hours /Week		Examination				
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)												
Sl No.	Course Code		Course Title	Teaching Department	Board of Exam	Credits	L	P	CIE	SEE	Total Marks	Exam Hours
01	BS	MA3CS1/M A3IS1	Statistics and Probability	MA	MA	4	4	-	50	50	100	3
02	PC	IS3TH2	Discrete Mathematical Structures	ISE	ISE	3	3	-	50	50	100	3
03	PC	IS3TH3	UNIX and SHELL Programming	ISE	ISE	3	3	-	50	50	100	3
04	PC	IS3TH4	Data Structures and its Applications	ISE	ISE	3	3	-	50	50	100	3
05	PC	IS3TH5	Object Oriented Programming	ISE	ISE	3	3	-	50	50	100	3
06	PC/ MA	IS3TH6/MA 3DP6	Digital Design and Computer Organization/Fundamental Mathematics	ISE/MA	ISE/MA	3	3	-	50	50	100	3
07	PC	IS3LB1	UNIX and SHELL Programming Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
08	PC	IS3LB2	Data Structures Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
09	PC	IS3LB3	Object Oriented Programming Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
10	HS	SK3DP1	Skill Development-I	HS	HS	1	-	2	50	-	50	-
<b>Total</b>						<b>24.5</b>	<b>19</b>	<b>11</b>	<b>500</b>	<b>450</b>	<b>950</b>	<b>-</b>

L-Lecture Hours, P-Practical Hours, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

**Note:**

- MA3DP6: Fundamental Mathematics - for Lateral Entry students only.
- There is no SEE for Skill Development-I course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

  
 Head (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.



# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



## CHOICE BASED CREDIT SYSTEM (CBCS)

SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE – 2022-23

(Effective from the academic year 2020-21)

IV Semester B.E. Information Science and Engineering							Teaching Hours /Week		Examination			
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)												
Sl No.	Course Code		Course Title	Teaching Department	Board of Exam	Credits	L	P	CIE	SEE	Total Marks	Exam Hours
01	BS	MA4CS1 /MA4IS1	Combinatorics and Linear Algebra	MA	MA	3	3	-	50	50	100	3
02	PC	IS4TH2	Operating Systems	ISE	ISE	3	3	-	50	50	100	3
03	PC	IS4TH3	Algorithm Design and Analysis	ISE	ISE	3	3	-	50	50	100	3
04	PC	IS4TH4	Computer Networks-1	ISE	ISE	3	3	-	50	50	100	3
05	PC	IS4TH5	Python for Data Processing	ISE	ISE	3	3	-	50	50	100	3
06	PC	IS4TH6	Microprocessor and Embedded System	ISE	ISE	3	3	-	50	50	100	3
07	PC	IS4LB1	Algorithms Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
08	PC	IS4LB2	Data Processing Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
09	PC	IS4LB3	Microprocessor and Microcontroller Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
10	HS	SK4DP2	Skill Development-II	HS	HS	1	-	2	50	-	50	-
<b>Total</b>						<b>23.5</b>	<b>18</b>	<b>11</b>	<b>500</b>	<b>450</b>	<b>950</b>	
L-Lecture Hours, P-Practical Hours, CIE-Continuous Internal Evaluation, SEE-Semester End Examination												

**Note:**

- There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
 (A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
 (Effective from the academic year 2020-21)



**III SEMESTER B.E.**

III Semester B.E. Computer Science and Engineering						Teaching Hours/week				Examination			
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)													
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam	L	T	P	C	Duration in Hrs.	CI E	SEE	Total Marks
01	BS	MA3CS1/ MA3IS1	Statistics and Probability	MA	MA	4	-	-	4	3	50	50	100
02	PC	CS3TH2	Object Oriented Programming	CS	CS	3	-	-	3	3	50	50	100
03	PC	CS3TH3	Data Structures	CS	CS	3	-	-	3	3	50	50	100
04	PC	CS3TH4	Discrete Mathematical Structures	CS	CS	3	-	-	3	3	50	50	100
05	PC	CS3TH5	Digital Circuit Design and its Applications	CS	CS	3	-	-	3	3	50	50	100
06	ES/ MA	CS3TH6/ MA3DP6	Computer Organization/ DIP Mathematics	CS /MA	CS/MA	3	-	-	3	3	50	50	100
07	PC	CS3LB1	Object Oriented Programming Lab	CS	CS	-	-	3	1.5		50	50	100
08	PC	CS3LB2	Data Structures Lab	CS	CS	-	-	3	1.5	3	50	50	100
09	PC	CS3LB3	Digital Circuit Design Lab	CS	CS	-	-	3	1.5	3	50	50	100
10	HS	SK3DP1	Skill Development-I	HS	HS	-	-	2	1	3	50	-	50
						<b>19</b>	<b>-</b>	<b>11</b>	<b>24.5</b>	<b>27</b>	<b>500</b>	<b>450</b>	<b>950</b>

**Note:** MA3DP6: DIP Mathematics for Lateral Entry students only.

There is no SEE for Skill Development-I course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
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 Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
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**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
 (Effective from the academic year 2020-21)



### IV SEMESTER B.E.

III Semester B.E. Computer Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)					Teaching Hours/week				Examination				
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam	L	T	P	C	Duration in Hrs.	CI	EE	Total Marks
01	BS	MA4CS1	Combinatorics and Linear Algebra	MA	MA	3	-	-	3	3	50	50	100
02	PC	CS4TH2	Design and Analysis of Algorithms	CS	CS	3	-	-	3	3	50	50	100
03	PC	CS4TH3	Operating Systems	CS	CS	3	-	-	3	3	50	50	100
04	PC	CS4TH4	Programming with Python	CS	CS	3	-	-	3	3	50	50	100
05	PC	CS4TH5	Automata Theory and Computation	CS	CS	3	-	-	3	3	50	50	100
06	PC	CS4TH6	Software Engineering	CS	CS	3	-	-	3	3	50	50	100
07	PC	CS4LB1	Algorithms Lab	CS	CS	-	-	3	1.5	3	50	50	100
08	PC	CS4LB2	Operating Systems Lab	CS	CS	-	-	3	1.5	3	50	50	100
09	PC	CS4LB3	Python Programming Lab	CS	CS	-	-	3	1.5	3	50	50	100
10	HS	SK4DP2	Skill Development-II	HS	HS	-	-	2	1	3	50	-	50
						<b>18</b>	<b>-</b>	<b>11</b>	<b>23.5</b>	<b>27</b>	<b>500</b>	<b>450</b>	<b>950</b>

Note: There is no SEE for Skill Development-II course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Dean (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
 (A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
 (Effective from the academic year 2020-21)



**Department of Medical Electronics**  
**V SEMESTER B.E.**

(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination				
SI No	Course and Course Code	Course Title	Teaching dept.	Board of Exam.	L-T-P	Credits	CIE	SEE	Total Marks	Exam Hrs.	
01	PC ML5TH1	Patient Monitoring Systems	ML	ML	3-0-0	3	50	50	100	3	
02	PC ML5TH2	Digital Signal Processing	ML	ML	3-0-0	3	50	50	100	3	
03	PC ML5TH3	Bio-optics	ML	ML	3-0-0	3	50	50	100	3	
04	PC ML5TH4	Digital Image Processing	ML	ML	3-0-0	3	50	50	100	3	
05	PE ML5PE5x	Professional Elective-I	ML	ML	3-0-0	3	50	50	100	3	
06	OE ML5OE6x	Open Elective-I	ML	ML	3-0-0	3	50	50	100	3	
07	PC ML5MP1	Mini Project-I	ML	ML	0-0-4	2	50	50	100	3	
08	PC ML5LB1	Python Lab	ML	ML	1-0-2	1.5	50	50	100	3	
09	PC ML5LB2	Digital Signal Processing Lab	ML	ML	0-0-3	1.5	50	50	100	3	
10	HS SK5DP3	Skill Development-III	HS	HS	1-0-0	1	50	-	50	-	
Total						24	500	450	950		
CIE-Continuous Internal Evaluation, SEE-Semester End Examination											

**Note:** There is no SEE for Skill Development-III course.

**However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.**

Professional Elective I:	Open Elective I:
ML5PE51: Medical Physics ML5PE52: Embedded System Design and ARM Processor ML5PE53: Biostatistics	ML5OE61: Biomedical Instrumentation

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE**  
(Effective from the academic year 2020-21)



**Department of Medical Electronics**  
**VI SEMESTER B.E.**

(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)											
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L-T-P	Credits	Examination			
								CIE	SEE	Total Marks	Exam Hrs.
01	PC	ML6TH1	Principles of Medical Imaging Modalities	ML	ML	3-0-0	3	50	50	100	3
02	PC	ML6TH2	Medical Image Analysis	ML	ML	3-0-0	3	50	50	100	3
03	PC	ML6TH3	Medical Device Regulations and IPR	ML	ML	3-0-0	3	50	50	100	3
04	PE	ML6PE4x	Professional Elective-II	ML	ML	3-0-0	3	50	50	100	3
05	OE	ML6OE5x	Open Elective-II	ML	ML	3-0-0	3	50	50	100	3
06	PC	ML6MP1	Mini Project-II	ML	ML	0-0-6	3	50	50	100	3
07	PC	ML6LB1	Medical Image Analysis Lab	ML	ML	0-0-3	1.5	50	50	100	3
08	PC	ML6LB2	Advance Biomedical Instrumentation Lab	ML	ML	0-0-3	1.5	50	50	100	3
09	HS	SKDP61	Skill Development-IV	HS	HS	0-0-3	1	50	-	50	-
Total							22	450	400	850	
CIE-Continuous Internal Evaluation, SEE-Semester End Examination											

There is no SEE for Skill Development-IV course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective II:	Open Elective II:
ML6PE41: Sensors and Transducers ML6PE42: Pattern Recognition in Medicine ML6PE43: Brain Computer Interface	ML6OE51: Image Processing

Dean (Academics)

Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR**  
(A Constituent college of Sri Siddhartha Academy of Higher Education, Deemed to be University, under section 3 of UGC act 1956, Vide MHRD GOI Notification no.F9-31/2006-U.3(A) dated:30/05/2008).



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

(Accredited by NBA)

**Syllabus for 5<sup>th</sup> Semester (2020 Scheme)**

<b>V Semester B.E. Computer Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						<b>Teaching Hours/week</b>				<b>Examination</b>			
<i>Sl No.</i>	<i>Course and Course Code</i>		<i>Course Title</i>	<i>Teaching dept.</i>	<i>Board of Exam</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>C</i>	<i>Duration in Hrs.</i>	<i>CIE</i>	<i>SEE</i>	<i>Total Marks</i>
01	PC	CS5TH1	Web Technologies	CS	CS	3	-	-	3	3	50	50	100
02	PC	CS5TH2	Object Oriented Modelling and Design	CS	CS	3	-	-	3	3	50	50	100
03	PC	CS5TH3	Data Communication	CS	CS	3	-	-	3	3	50	50	100
04	PC	CS5TH4	Database Management System	CS	CS	3	-	-	3	3	50	50	100
05	PE	CS5PE5x	Professional Elective-I	CS	CS	3	-	-	3	3	50	50	100
06	OE	CS5OE6x	Open Elective-I	CS	CS	3	-	-	3	3	50	50	100
07	PC	CS5MP1	Mini Project-I	CS	CS	-	-	4	2		50	50	100
08	PC	CS5LB1	Database Lab	CS	CS	-	-	3	1.5	3	50	50	100
09	PC	CS5LB2	Web Technology Lab	CS	CS	-	-	3	1.5	3	50	50	100
10	HS	SK5DP3	Skill Development-III	HS	HS	-	-	2	1	3	50	-	50
						<b>18</b>	<b>-</b>	<b>12</b>	<b>24</b>	<b>27</b>	<b>500</b>	<b>450</b>	<b>950</b>

Professional Elective I	Code	Subject Name	Open Elective I	Code	Subject Name
	CS5PE51	Advanced Data Structure		CS5OE61	Data Structure and Algorithm
	CS5PE52	Fundamentals of Digital Image Processing		CS5OE62	Database Management System
	CS5PE53	Unix System Programming		CS5OE63	Operating System

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR**  
 (A Constituent college of Sri Siddhartha Academy of Higher Education, Deemed to be University, under section 3 of UGC act 1956, Vide MHRD GOI Notification no.P9-31/2006-U,3(A) dated:30/05/2008)  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
 (Accredited by NBA)



**Syllabus for 6<sup>th</sup> Semester (2020 Scheme)**

<b>VI Semester B.E. Computer Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						<b>Teaching Hours/week</b>				<b>Examination</b>			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam	L	T	P	C	Durat ion in Hrs.	CIE	SEE	Total Marks
01	PC	CS6TH1	Artificial Intelligence and Machine Learning	CS	CS	3	-	-	3	3	50	50	100
02	PC	CS6TH2	Compiler Design	CS	CS	3	-	-	3	3	50	50	100
03	PC	CS6TH3	Computer Networks	CS	CS	3	-	-	3	3	50	50	100
04	PC	CS6PE4x	Professional Elective-II	CS	CS	3	-	-	3	3	50	50	100
05	PE	CS6OE5x	Open Elective-II	CS	CS	3	-	-	3	3	50	50	100
06	OE	CS6MP1	Mini Project-II	CS	CS	-	-	6	3	3	50	50	100
07	PC	CS6LB1	Machine Learning Lab	CS	CS	-	-	3	1.5	3	50	50	100
08	PC	CS6LB2	Computer Networks Lab	CS	CS	-	-	3	1.5	3	50	50	100
09	HS	SK6DP4	Skill Development-IV	HS	HS	-	-	2	1	3	50	-	50
						15	-	14	22	27	450	400	850

Professional Elective II	CODE	Name	Open Elective II	CODE	Name
	CS6PE41	Information Storage Management		CS6OE51	Java Programming
	CS6PE42	IOT		CS6OE52	Python Programming
	CS6PE43	Data Science			

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V Semester B.E. ECE (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
Sl	Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	EC5TH1	Digital Signal Processing	ECE	ECE	3	50	50	100	3
02	PC	EC5TH2	Embedded System Design	ECE	ECE	3	50	50	100	3
03	PC	EC5TH3	Fundamentals of CMOS VLSI Design	ECE	ECE	3	50	50	100	3
04	PC	EC5TH4	Microwave Theory and Antennas	ECE	ECE	3	50	50	100	3
05	PE	EC5PE5x	Professional Elective-I	ECE	ECE	3	50	50	100	3
06	OE	EC5OE6x	Open Elective-I	ECE	ECE	3	50	50	100	3
07	PC	EC5MP1	Mini Project-I	ECE	ECE	2	50	50	100	3
08	PC	EC5LB1	DSP Lab	ECE	ECE	1.5	50	50	100	3
09	PC	EC5LB2	VLSI Lab	ECE	ECE	1.5	50	50	100	3
10	HS	SK5DP3	Skill Development-III	HS	HS	1	50	-	50	-
<b>Total</b>						<b>24</b>	<b>500</b>	<b>450</b>	<b>950</b>	

**CIE-Continuous Internal Evaluation, SEE-Semester End Examination**

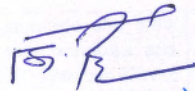
There is no SEE for Skill Development-IV Course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject (SK5DP3).

**Professional Elective I:**

EC5PE51: Python Programming  
 EC5PE52: Robotics and Automation  
 EC5PE53: Sensors and Signal Conditioning

**Open Elective I:**

EC5OE61: Information Theory and Coding  
 EC5OE62: Sensors and Instrumentation

  
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VI Semester B.E. ECE (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
SI	Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	EC6TH1	Digital Communication	ECE	ECE	3	50	50	100	3
02	PC	EC6TH2	Digital Image Processing	ECE	ECE	3	50	50	100	3
03	PC	EC6TH3	Computer Communication Networks	ECE	ECE	3	50	50	100	3
04	PE	EC6PE4x	Professional Elective-II	ECE	ECE	3	50	50	100	3
05	OE	EC6OE5x	Open Elective-II	ECE	ECE	3	50	50	100	3
06	PC	EC6MP2	Mini Project-II	ECE	ECE	3	50	50	100	3
07	PC	EC6LB1	Advanced Communication Lab	ECE	ECE	1.5	50	50	100	3
08	PC	EC6LB2	CCN Lab	ECE	ECE	1.5	50	50	100	3
09	HS	SK6DP4	Skill Development-IV	HS	HS	1	50	-	50	-
<b>Total</b>						<b>22</b>	<b>450</b>	<b>400</b>	<b>850</b>	
<b>CIE-Continuous Internal Evaluation, SEE-Semester End Examination</b>										

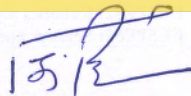
There is no SEE for Skill Development-IV course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

**Professional Elective II:**

EC6PE41: Analog and Mixed Signal VLSI Design  
 EC6PE42: Artificial Intelligence  
 EC6PE43: Cryptography and Information security

**Open Elective II:**

EC6OE51: Robotics  
 EC6OE52: Pattern Recognition



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### V Semester Scheme

V Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)					Examination				
Sl No.	Course Code	Course Title	Teaching dept.	Board of Exam.	Credits	Duration in Hrs.	CIE	SEE	Total Marks
01	PC EE5TH1	PLC and SCADA	EEE	EEE	3	3	50	50	100
02	PC EE5TH2	Signals and Systems	EEE	EEE	3	3	50	50	100
03	PC EE5TH3	Electrical Machine Design	EEE	EEE	3	3	50	50	100
04	PC EE5TH4	Microcontroller and its Applications	EEE	EEE	3	3	50	50	100
05	PE EE5PE5x	Professional Elective-I	EEE	EEE	3	3	50	50	100
06	OE EE5OE6x	Open Elective-I	EEE	EEE	3	3	50	50	100
07	PC EE5MP1	Mini Project-I	EEE	EEE	2				
08	PC EE5LB1	PLC Lab	EEE	EEE	1.5	3	50	50	100
09	PC EE5LB2	Microcontroller Lab	EEE	EEE	1.5	3	50	50	100
10	HS SK5DP3	Skill Development-III	HS	HS	1	3	50	50	100
Total					24	27	450	450	900

Professional Elective I:	Open Elective I:
18EE5PE51: Advanced Control Systems	18EE5OE61: Energy Conversion Techniques
18EE5PE52: Illumination Engineering	18EE5OE62: Fundamentals of Illumination Engineering
18EE5PE53: Linear Integrated Circuits	

Note: Open Elective : The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at V Sem , the students are encouraged to take Online course (Swayam/Mooc / Nptel /MIT –Coursera .....). The same is approved by concerned HEAD and DEAN (Academics) .

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### VI Semester Scheme

VI Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)							Examination			
Sl No.	Course Code	Course Title	Teaching dept.	Board of Exam.	Credits	Duration in Hrs.	CIE	SEE	Total Marks	
01	PC EE6TH1	Power System-1	EEE	EEE	3	3	50	50	100	
02	PC EE6TH2	Digital Signal Processing	EEE	EEE	3	3	50	50	100	
03	PC EE6TH3	Switchgear and High Voltage Engineering	EEE	EEE	3	3	50	50	100	
04	PE EE6PE4x	Professional Elective-II	EEE	EEE	3	3	50	50	100	
05	OE EE6OE5x	Open Elective-II	EEE	EEE	3	3	50	50	100	
06	PC EE6MP1	Mini Project-II	EEE	EEE	3	3	50	50	100	
07	PC EE6LB1	Computer Aided Electrical Drawing Lab	EEE	EEE	1.5	3	50	50	100	
08	PC EE6LB2	Relay and High Voltage Lab	EEE	EEE	1.5	3	50	50	100	
09	HS SK6DP4	Skill Development-IV	HS	HS	1	3	50	50	100	
Total					22	27	450	450	900	

Professional Elective II:	Open Elective II:
EE6PE41: Advanced Power Electronics	18EE6OE51: Programable Logic Controller
EE6PE42: Solar and Wind Energy Systems	18EE6OE52: Fundamentals of Renewable Energy Sources
EE6PE43: Python Application Programming	

Note: Open Elective : The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at VI Sem , the students are encouraged to take Online course (Swayam/Mooc / Nptel /MIT –Coursera .....). The same is approved by concerned HEAD and DEAN(Academics).

Dean (Academics)  
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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



V Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	ET5TH1	Information Theory and Error control coding	ET	ET	3	50	50	100	3
02	PC	ET5TH2	Digital Signal Processing & its application	ET	ET	3	50	50	100	3
03	PC	ET5TH3	Microwaves and Antennas	ET	ET	3	50	50	100	3
04	PC	ET5TH4	Management and Entrepreneurship	ET	ET	3	50	50	100	3
05	PE	ET5PE5x	Professional Elective-I	ET	ET	3	50	50	100	3
06	OE	ET5OE61	Open Elective-I	ET	ET	3	50	50	100	3
07	PC	ET5MP1	Mini Project-I	ET	ET	2	50	50	100	3
08	PC	ET5LB1	Microwave and Antenna Lab	ET	ET	1.5	50	50	100	3
09	PC	ET 5LB2	Digital Signal Processing Lab	ET	ET	1.5	50	50	100	3
10	HS	SK5DP3	Skill Development-III	HS	HS	1	50	-	50	-
<b>Total</b>						<b>24</b>	<b>500</b>	<b>450</b>	<b>950</b>	

**CIE-Continuous Internal Evaluation, SEE-Semester End Examination**

There is no SEE for Skill Development-IV Course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective I:	Open Elective I:
ET5PE51: Digital Switching Systems ET5PE52: Micro Electro Mechanical Systems	ET5OE61: Principles of Communication Systems



VI Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- Jan. 2018)							Examination			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	ET 6TH1	CMOS VLSI Design	ET	ET	3	50	50	100	3
02	PC	ET 6TH2	Wireless and Mobile Communication	ET	ET	3	50	50	100	3
03	PC	ET 6TH3	OOP with C++	ET	ET	3	50	50	100	3
04	PE	ET 6PE4x	Professional Elective-II	ET	ET	3	50	50	100	3
05	OE	ET 6OE51	Open Elective-II	ET	ET	3	50	50	100	3
06	PC	ET 6MP1	Mini Project-II	ET	ET	3	50	50	100	3
07	PC	ET 6LB1	Communication Systems Lab	ET	ET	1.5	50	50	100	3
08	PC	ET 6LB2	CMOS VLSI Design Lab	ET	ET	1.5	50	50	100	3
09	HS	SK6DP4	Skill Development-IV	HS	HS	1	50	-	50	-
<b>Total</b>						<b>22</b>	<b>450</b>	<b>400</b>	<b>850</b>	

CIE-Continuous Internal Evaluation, SEE-Semester End Examination

There is no SEE for Skill Development-IV course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

<b>Professional Elective II:</b>	<b>Open Elective II:</b>
ET6PE41: Radar Systems	EC6OE51: Mobile Communication
ET6PE42: Automotive electronics	

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### V SEMESTER B.E.

V Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech)							Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	CE5TH1	Structural Analysis-I	CE	CE	3	50	50	100	3
02	PC	CE5TH2	Geotechnical Engineering -II	CE	CE	3	50	50	100	3
03	PC	CE5TH3	Design of RC Structures	CE	CE	3	50	50	100	3
04	PC	CE5TH4	Transportation Engineering	CE	CE	3	50	50	100	3
05	PE	CE5PE5x	Professional Elective-I	CE	CE	3	50	50	100	3
06	OE	CE5OE6x	Open Elective-I	CE	CE	3	50	50	100	3
07	PC	CE5MP1	Mini Project-I	CE	CE	2	50	50	100	3
08	PC	CE5LB1	Geotechnical Engineering Lab	CE	CE	1.5	50	50	100	3
09	PC	CE5LB2	Concrete & Highway Lab	CE	CE	1.5	50	50	100	3
10	HS	SK5DP3	Skill Development-III	HS	HS	1	50	-	50	-
Total						24	500	450	950	
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

**Note:** There is no SEE for Skill Development-III course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective I:	Open Elective I:
CE5PE51: Hydrology and water resources	CE5OE61: Remote Sensing and GIS
CE5PE52: Alternative Building Materials	CE5OE62: Air Pollution and Control
CE5PE53: Traffic Engineering	CE5OE63: Environmental Impact Assessment



## VI SEMESTER B.E.

VI Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.)							Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	CE6TH1	Structural Analysis-II	CE	CE	3	50	50	100	3
02	PC	CE6TH2	Design and Drawing of RC Structure	CE	CE	3	50	50	100	3
03	PC	CE6TH3	Environmental Engineering	CE	CE	3	50	50	100	3
04	PE	CE6PE4x	Professional Elective-II	CE	CE	3	50	50	100	3
05	OE	CE6OE5x	Open Elective-II	CE	CE	3	50	50	100	3
06	PC	CE6MP1	Mini Project-II	CE	CE	2	50	50	100	3
07	PC	CE6LB1	Software Engineering Lab	CE	CE	1.5	50	50	100	3
08	PC	CE6LB2	Construction Technology Lab & field visit	CE	CE	1.5	50	50	100	3
09	HS	SKDP61	Skill Development-IV	HS	HS	1	50	-	50	-
Total						22	450	400	850	-

CIE-Continuous Internal Evaluation, SEE-Semester End Examination

**Note:** There is no SEE for Skill Development-IV course.

However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective II:	Open Elective II:
CE6PE41: Highway Geometric Design CE6PE42: Construction Management & Entrepreneurship CE6PE43: Remote sensing & GIS	CE6OE51: Conservation of Natural resources CE6OE52: Solid Waste Management CE6OE53: Alternative Building Materials



DEPARTMENT OF MECHANICAL ENGINEERING

PROPOSED CURRICULUM OF V SEMESTER

2022-2023 BATCH

Sl. No	Sub. Code	Subject Title	L	T	P	C
1.	ME5TH1	DESIGN OF MACHINE ELEMENTS – 1	4	0	0	3
2.	ME5TH2	TURBOMACHINES	4	0	0	3
3.	ME5TH3	APPLIED THERMODYNAMICS	4	0	0	3
4.	ME5TH4	DYNAMICS OF MACHINES	4	0	0	3
5.	ME5PE5X	PROFESSIONAL ELECTIVE-1	3	0	0	3
6.	ME5OE6X	OPEN ELECTIVE-1	3	0	0	3
7.	ME5MP1	MINI PROJECT-1	0	0	4	2
7.	ME5LB1	I C ENGINES & FUELS LAB	0	0	3	1.5
8.	ME5LB2	FLUID MECHANICS AND FLUID MACHINERY LAB	0	0	3	1.5
9.	SK5DP3	SKILL DEVELOPMENT-III	-	-	2	1
<b>Total</b>			<b>22</b>	<b>00</b>	<b>12</b>	<b>24</b>

Professional Elective-I	
Sub. Code	Subject Title
ME5PE51	CAD/CAM & CIM
ME5PE52	MEMS & NANO TECHNOLOGY

Open Elective - I	
Sub. Code	Subject Title
ME5OE61	INDUSTRIAL DESIGN AND ERGONOMICS
ME5OE62	ENGINEERING ECONOMICS
ME5OE63	ENTERPRISE RESOURCE PLANNING
ME5OE64	HUMAN RESOURCE MANAGEMENT
ME5OE65	INTRODUCTION TO PROJECT MANAGEMENT

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DEPARTMENT OF MECHANICAL ENGINEERING

PROPOSED CURRICULUM OF VI SEMESTER

2022-2023 BATCH

Sl. No	Sub. Code	Subject Title	L	T	P	C
1.	ME6TH1	DESIGN OF MACHINE ELEMENTS – 2	4	0	0	3
2.	ME6TH2	AUTOMOTIVE ENGINEERING	4	0	0	3
3.	ME6TH3	HEAT & MASS TRANSFER	4	0	0	3
4.	ME6PE4X	PROFESSIONAL ELECTIVE-II	3	0	0	3
5.	ME6OE5X	OPEN ELECTIVE -II	3	0	0	3
6.	ME6MP1	MINI PROJECT	0	0	6	3
7.	ME6LB1	HEAT & MASS TRANSFER LAB	0	0	3	1.5
8.	ME6LB2	COMPUTER AIDED ENGINEERING LAB	0	0	3	1.5
9.	SK6DP4	SKILL DEVELOPMENT-IV	-	-	2	1
<b>Total</b>			<b>18</b>	<b>00</b>	<b>14</b>	<b>22</b>

Professional Elective-II	
Sub. Code	Subject Title
ME6PE41	FINITE ELEMENT METHODS
ME6PE42	ROBOTICS & ARTIFICIAL INTELLIGENCE

Open Elective - II	
Sub. Code	Subject Title
ME6OE51	PRODUCT DESIGN & DEVELOPMENT
ME6OE52	ELEMENTS OF OPERATION RESEARCH
ME6OE53	BUSINESS PROCESS REENGINEERING
ME6OE54	MIS & E COMMERCE
ME6OE55	ORGANIZATIONAL BEHAVIOR

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**CHOICE BASED CREDIT SYSTEM (CBCS)**

**SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE  
(Effective from the academic year 2020-21)**

**Academic Year 2022-23**

V Semester B.E. Information Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)							Teaching Hrs/Week		Examination			
Sl No.	Course and Course Code		Course Title	Teaching Department	Board of Exam	Credits	L	P	CIE	SEE	Total Marks	Exam Hrs
01	PC	IS5TH1	Computer Network-II	ISE	ISE	3	3	-	50	50	100	3
02	PC	IS5TH2	Advanced Java and J2EE	ISE	ISE	3	3	-	50	50	100	3
03	PC	IS5TH3	Database Management Systems	ISE	ISE	3	3	-	50	50	100	3
04	PC	IS5TH4	Introduction to Automata Theory and Computation	ISE	ISE	3	3	-	50	50	100	3
05	PE	IS5PE5x	Professional Elective-I	ISE	ISE	3	3	-	50	50	100	3
06	OE	IS5OE6x	Open Elective-I	ISE	ISE	3	3	-	50	50	100	3
07	PC	IS5MP1	Mini Project-I	ISE	ISE	2	-	3	50	50	100	3
08	PC	IS5LB1	Computer Networks Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
09	PC	IS5LB2	Database Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
10	HS	SK5DP3	Skill Development-III	HS	HS	1	-	2	50	-	50	-
<b>Total</b>						<b>24</b>	<b>18</b>	<b>11</b>	<b>500</b>	<b>450</b>	<b>950</b>	<b>-</b>

L-Lecture Hours, P-Practical Hours, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

Note:

There is no SEE for Skill Development-III course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective-I	Open Elective-I
IS5PE51: Cloud Computing IS5PE52: Internet of Things IS5PE53: Research Methodology and Intellectual Property Rights	IS5OE61: Software Engineering IS5OE62: Fundamentals of Algorithms IS5OE63: Introduction to UNIX

Dean (Academics)

Sri Siddhartha Institute of Technology

Department of Information Science and Engineering, Tumkur - 572 105.



SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



## CHOICE BASED CREDIT SYSTEM (CBCS)

SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE

(Effective from the academic year 2020-21)

Academic Year 2022-23

VI Semester B.E. Information Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)							Teaching Hrs/Week		Examination			
Sl No.	Course and Course Code		Course Title	Teaching Department	Board of Exam	Credits	L	P	CIE	SEE	Total Marks	Exam Hrs
01	PC	IS6TH1	Web Technologies	ISE	ISE	3	3	-	50	50	100	3
02	PC	IS6TH2	Software Engineering and Software Testing	ISE	ISE	3	3	-	50	50	100	3
03	PC	IS6TH3	Machine Learning Techniques	ISE	ISE	3	3	-	50	50	100	3
04	PE	IS6PE4x	Professional Elective-II	ISE	ISE	3	3	-	50	50	100	3
05	OE	IS6OE5x	Open Elective-II	ISE	ISE	3	3	-	50	50	100	3
06	PC	IS6MP2	Mini Project-II	ISE	ISE	3	-	3	50	50	100	3
07	PC	IS6LB1	Web Technology Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
08	PC	IS6LB2	Machine Learning Laboratory	ISE	ISE	1.5	-	3	50	50	100	3
09	HS	SK6DP4	Skill Development-IV	HS	HS	1	-	2	50	-	50	-
<b>Total</b>						<b>22</b>	<b>15</b>	<b>11</b>	<b>450</b>	<b>450</b>	<b>850</b>	<b>-</b>

**L-Lecture Hours, P-Practical Hours, CIE-Continuous Internal Evaluation, SEE-Semester End Examination**

**Note:**

There is no SEE for Skill Development-III course. However, all the students should maintain a minimum 85% of attendance and 40% of CIE to get pass in the subject.

Professional Elective-II	Open Elective-II
IS6PE41: Information Storage and Management	IS6OE51: Artificial Intelligence
IS6PE42: Artificial Neural Networks	IS6OE52: Software Testing
IS6PE43: Data Science and Analytics	IS6OE53: Human Computer Interaction

**Dean (Academics)**  
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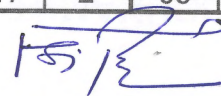
# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

*Scheme of Teaching and Examination 2018-19*

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

<b>I Semester B.E. (Common to all Branches)</b>				<b>Physics Group</b>			<b>Teaching Hours/week</b>			<b>Credits</b>
(Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)										
<b>Sl No.</b>	<b>Course Code</b>	<b>Title of Course</b>	<b>Teach. dept.</b>	<b>L</b>	<b>T</b>	<b>P</b>				
01	BS-MA101	Engineering Mathematics-I	MA	3	1	-	4			
02	BS-PH101	Engineering Physics	PH	3	1	-	4			
03	ES-EE101	Basic Electrical Engineering	EE	3		-	4			
04	ES-ME102	Engineering Graphics and Design Lab	ME	2	-	4	4			
05	HS-KA101	Kannada	HS	3	-	-	1			
06	BS-PH102	Engineering Physics Lab.	PH	-	-	3	1			
07	ES-EE102	Electrical Engineering Lab.	EE	-	-	3	1			
08	HS-EV101	Environmental Studies	HS	2	-	-	1			
<b>Total</b>				<b>17</b>	<b>2</b>	<b>06</b>	<b>20</b>			



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# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

Scheme of Teaching and Examination 2018-19

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

I Semester B.E. (Common to all Branches)				Chemistry Group			Teaching Hours/week	Credits
(Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)								
Sl No.	Course Code	Title of Course	Teach. dept.	L	T	P		
01	BS-MA101	Engineering Mathematics-I	MA	3	1	-	4	
02	BS-CH101	Engineering Chemistry	CH	3	1	-	4	
03	ES-CS101	Programming for Problem Solving	CS	3	-	-	4	
04	ES-WS102	Workshop & Manufacturing Practices Lab	ME	1	-	3	2	
05	HS-EN101	Professional English	HS	3	-	-	3	
06	BS-CH102	Engineering Chemistry Lab.	CH	-	-	3	1	
07	ES-CS102	Programming Lab.	CS	-	-	3	1	
08	HS-CP101	Constitution of India & Professional Ethics	HS	2	-	-	1	
Total				16	2	10	20	

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# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

Scheme of Teaching and Examination 2018-19

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

II Semester B.E. (Common to all Branches)				Physics Group			Teaching Hours/week	Credits
(Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)								
Sl No.	Course Code	Title of Course	Teach. dept.	L	T	P		
01	BS-MA201	Engineering Mathematics-II	MA	3	1	-	4	
02	BS-CH201	Engineering Chemistry	CH	3	1	-	4	
03	ES-CS201	Programming for Problem Solving	CS	3	-	-	4	
04	ES-WS202	Workshop and Manufacturing Practices Lab	ME	1	-	3	2	
05	HS-EN201	Professional English	HS	3	-	-	3	
06	BS-CH202	Engineering Chemistry Lab.	CH	-	-	3	1	
07	ES-CS202	Programming Lab.	CS	-	-	3	1	
08	HS-CP201	Constitution of India & Professional Ethics	HS	2	-	-	1	
Total				16	2	10	20	

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# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY-TUMAKURU

(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)

*Scheme of Teaching and Examination 2018-19*

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

II Semester B.E. (Common to all Branches) (Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)				Chemistry Group			Teaching Hours/week	Credits
Sl No.	Course Code	Title of Course	Teach. dept.	L	T	P		
01	BS-MA201	Engineering Mathematics-II	MA	3	1	-	4	
02	BS-PH201	Engineering Physics	PH	3	1	-	4	
03	ES-EE201	Basic Electrical Engineering	EE	3	-	-	3	
04	ES-ME202	Engineering Graphics and Design Lab	ME	3	-	-	3	
05	HS-KA101	Kannada	EC	3	-	-	3	
06	BS-PH102	Engineering Physics Lab.	PH	-	-	3	1	
07	ES-EE102	Electrical Engineering Lab.	EE	-	-	3	1	
08	HS-EV101	Environmental Studies	HS	2	-	-	1	
Total				17	2	06	20	

Dean (Academics)

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



***Scheme of Teaching and Examination-2018***  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

**Mandatory Induction Program:**

**i. Need of Induction Program:**

- ✓ Engineering colleges were established to train graduates well in the branch/department of admission, have a holistic outlook, and have a desire to work for national needs and beyond.
- ✓ The graduating student must have knowledge and skills in the area of his/her study and must have broad understanding of society and relationships.
- ✓ There is a mad rush for engineering today, without the student determining for himself/herself his/her interests and his/her goals. This is a major factor in the current state of demotivation towards studies that exists among UG students.
- ✓ The success of gaining admission into a desired institution but failure in getting the desired branch, with peer pressure generating its own problems, leads to a peer environment that is demotivating and corrosive.
- ✓ Start of hostel life without close parental supervision at the same time, further worsens it with also a poor daily routine.

**ii. Solution:**

- To come out of this situation, a multi-pronged approach is needed. One will have to work closely with the newly joined students in making them feel comfortable, allow them to explore their academic interests and activities, reduce competition and make them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and build character.
- When new students enter an institution, they come with diverse thoughts, backgrounds and preparations. It is important to help them adjust to the new environment and inculcate in them the ethos of the institution with a sense of larger purpose.

**iii. Implementation:**

- A 3-week long Induction program for the UG students entering the institution, right at the start. Normal classes start only after the induction program is over. Its purpose is to make the students feel comfortable in their new environment, open them up, set a

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Principal

Principal  
Sri Siddhartha Institute of Technology



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



***Scheme of Teaching and Examination-2018***  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature. The time during the induction program is also used to rectify some critical lacunas, for example, English background, for those students who have deficiency in it.

<b>Mandatory Induction Program: I/II Semesters B.E. (Common to all Branches)</b>			
SI No.	Activities	Details (small group 20 students with a faculty mentor)	Time Slot
01	<b>Physical activity (mild exercise/yoga)</b>	Involve daily routine Physical activity with games and sports. Each student should pick one game and learn it for three weeks. There could also be gardening or other suitably designed activity where labour yields fruits from nature.	6.30am to 7.10am
02	<b>Bath, Breakfast etc.</b>	-	7.15am to 8.55am
03	<b>Creative Arts</b>	Every student would choose one skill related to the arts whether visual arts or performing arts. Examples are painting, sculpture, pottery, music, dance etc. The student would pursue it every day for the duration of the program.	9am to 10 am
03	<b>Universal Human Values (Character building) (Teachers from HS or outside of the institute)</b>	It gets the student to explore oneself and allows one to experience the joy of learning, stand up to peer pressure, take decisions with courage, be aware of relationships with colleagues and supporting staff in the hostel and department, be sensitive to others, etc. Methodology of Teaching, Do's and Don'ts, Group discussion, real life activities rather than lecturing, build the relationships between teachers and students.	11am to 12.55pm
04	<b>Lunch</b>	-	1pm to 2.25pm
05	<b>Literacy</b>	Encompass reading, writing and possibly, debating, enacting a play etc.	2.30pm to 3.55pm
06	<b>Proficiency Modules</b>	To overcome some critical lacunas that students might have, for example, English, Computer familiarity etc. -conduct crash courses.	Afternoon session

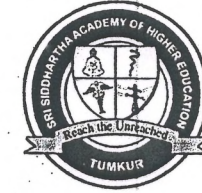
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Sri Siddhartha Institute of Technology  
Maralur, Tumakuru - 572 108.



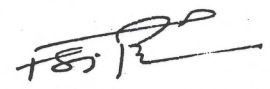
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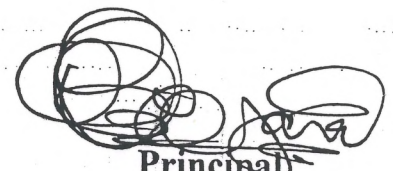


***Scheme of Teaching and Examination-2018***  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

07	<b>Lectures by Eminent people</b>	It would give the students exposure to people who are socially active or in public life.	Once a week
08	<b>Familiarization to Department</b>	The students should be told about different method of study compared to coaching that is needed at IITs. They should be told about what getting into dept. means what role it plays in society, through its technology. Show the facilities in the dept...	Afternoon session
09	<b>Bridge Course in Mathematics</b>	Creating awareness among the students mathematics in Engineering	10 am – 11 am
10	<b>Closing Phase</b>	<ul style="list-style-type: none"><li>• Last but one day-discussion and finalization of presentation within each group.</li><li>• Last day-Examinations (if any)-whole day</li></ul>	Whole day

  
26.6.19  
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**Principal**  
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Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

III Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
SI No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	BS	18MA301	Engineering Mathematics-III	MA	MA	3	2	-	4	3	50	50	100
02	PC	18EC302	Regular Course-I	EC	EC	2	-	2	3	3	50	50	100
03	PC	18EC303	Regular Course-II	EC	EC	4	-	-	4	3	50	50	100
04	PC	18EC304	Regular Course-III	EC	EC	3	2	-	4	3	50	50	100
05	PC	18EC305	Regular Course-IV	EC	EC	3	-	-	3	3	50	50	100
06	ES/ MA	18EC306/ 18DIP306	Regular Course-VI/DIP Maths (Mathematics for Diploma students)	EC/MA	EC/MA	3	-	-	3	3	50	50	100
07	PC	18EC3L01	Lab-I	EC	EC	-	-	3	1.5	3	50	50	100
08	PC	18EC3L02	Lab-II	EC	EC	-	-	3	1.5	3	50	50	100
09	HS	18SK301	Skill Development-I	HS	HS	-	-	2	1	3	50	50	100
Total						18	4	10	25	27	450	450	900
BS-Basic Science=16+4=20Credits, ES-Engineering Science=15+3=18Credits, HS-Humanities and Social sciences=5+1=6credits PC- Professional Core =17 Credits													
L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination													

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



**Scheme of Teaching and Examination-2018**

**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

IV Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)					Teaching Hours/week				Examination				
SI No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	BS	18MA401*	Engineering Mathematics-IV	MA	MA	3	2	-	4	3	50	50	100
02	PC	18EC402	Regular Course-I	EC	EC	2	-	2	3	3	50	50	100
03	PC	18EC403	Regular Course-II	EC	EC	4	-	-	4	3	50	50	100
04	PC	18EC404	Regular Course-III	EC	EC	3	2	-	4	3	50	50	100
05	PC	18EC405	Regular Course-IV	EC	EC	3	-	-	3	3	50	50	100
06	HS	18EC406	Management course	EC	EC	3	-	-	3	3	50	50	100
07	PC	18EC4L01	Lab-I	EC	EC	-	-	3	1.5	3	50	50	100
08	PC	18EC4L02	Lab-II	EC	EC	-	-	3	1.5	3	50	50	100
09	HS	18SK401	Skill Development-II	HS	HS	-	-	2	1	3	50	50	100
Total						18	4	10	25	27	450	450	900
BS-Basic Science=20+4=24 Credits, ES-Engineering Science=18 Credits, HS-Humanities and Social sciences=6+4=10 Credits PC-Professional core= 17+17 = 34 Credits,													
L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination *18MA401A – CS/IS, 18MA401B – EC/TC/ML/EE, 18MA401C – ME/CV/IEM													

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
 (A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**DEPARTMENT OF MEDICAL ELECTRONICS**



V Semester B.E. (Common to all UG programs: ML) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Enge. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exan.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18ML501	Biomedical Instrumentation	ML	ML	3	1	-	4	3	50	50	100
02	PC	18 ML 502	Digital Image Processing	ML	ML	3	-	2	4	3	50	50	100
03	PC	18 ML 503	Digital Signal Processing	ML	ML	3	1	-	4	3	50	50	100
04	PC	18 ML 504	Fibre Optics and Lasers in Medicine	ML	ML	3	-	-	3	3	50	50	100
05	PE	18 ML5PE5x	Professional Elective-I	ML	ML	3	-	-	3	3	50	50	100
06	OE	18 EC5OE6x	Open Elective-I	ML	ML	3	-	-	3	3	50	50	100
07	PC	18 ML507	Biomedical Instrumentation Lab-I	ML	ML	-	-	2	1	3	50	50	100
08	PC	18 ML508	DSP Lab	ML	ML	-	-	2	1	3	50	50	100
09	HS	18SK501	Skill Development-III	HS	HS	-	-	2	1	3	50	50	100
Total						18	2	08	24	27	450	450	900

Note: Open Elective are offered in V and VI sem; The students are encouraged take online courses (Swayam/Mooc / Nptel /MIT – Coursera ..... ) after IV sem SEE and before starting of VII Sem Classes (during Vacation time). The same is approved by concerned HEAD and DEAN(Academics) .

Note: Open Elective : The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at V Sem , the students are encouraged to take Online course (Swayam/Mooc / Nptel /MIT – Coursera ..... ). The same is approved by concerned HEAD and DEAN(Academics) .

Professional Elective I: 18ML5PE51: Embedded System Design and ARM Processors  
 18ML5PE52: Computers in Medicine  
 18ML5PE53: Physiological Control Systems  
 Open Elective I: 18EC5OE63: Biomedical Instrumentation

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY - TUMAKURU**  
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**DEPARTMENT OF MEDICAL ELECTRONICS**



VI Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV)						Teaching Hours/week				Examination			
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech - Jan. 2018)													
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18ML601	Patient Monitoring Systems	ML	ML	3	1	-	4	3	50	50	100
02	PC	18 MLJ602	OOPS with C++ for medical applications	ML	ML	3	-	2	4	3	50	50	100
03	PC	18 ML603	Medical Image Analysis	ML	ML	3	1	-	4	3	50	50	100
04	PE	18 ML6PE4x	Professional Elective-II	ML	ML	3	-	-	3	3	50	50	100
05	OE	18ML6OE5x	Open Elective-II	ML	ML	3	-	-	3	3	50	50	100
06	PC	18ML6MP01	Mini Project	ML	ML	-	-	4	2	3	50	50	100
07	PC	18 ML607	Medical Image Processing Lab	ML	ML	-	-	2	1	3	50	50	100
08	PC	18 ML608	Biomedical Instrumentation Lab-II	ML	ML	-	-	2	1	3	50	50	100
09	HS	18HS601	Skill Development-IV	HS	HS	-	-	2	1	3	50	50	100
Total						14	2	12	23	27	450	450	900
BS-Basic Science=26 Credits, ES-Engineering Science=19 Credits, HS-Humanities and Social sciences=09+1=10 Credits PC-Professional core=55+18=73 Credits, PE-Professional Elective =3+3=6 Credits, OE-Open Elective = 3+3=6 Credits.													
L-,Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination													

Professional Elective II: 18ML6PE41: VLSI Circuits and Applications in Medicine

18ML6PE42: Sensors and Transducers

18ML6PE43: Speech Signal Processing

Open Elective II: 18EC6OE53: Digital Image Processing

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**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

V Semester B.E. Computer Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)					Teaching Hours/week				Examination			
Sl No	Course and Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC 18CS501	Computer Networks	CS/IS	CS/IS	3	1	-	4	3	50	50	100
02	PC 18CSI502	Software Engineering	CS	CS	3	-	2	4	3	50	50	100
03	PC 18CS503	Introduction to Automata Theory and Computation	CS/IS	CS/IS	3	1	-	4	3	50	50	100
04	PC 18CS504	Database Management System	CS/IS	CS/IS	3	-	-	3	3	50	50	100
05	PE 18CS5PE5x	Professional Elective-I	CS	CS	3	-	-	3	3	50	50	100
06	OE 18CS5OE6x	Open Elective-I	CS	CS	3	-	-	3	3	50	50	100
07	PC 18CS507	Computer Networks Lab	CS	CS	-	-	2	1	3	50	50	100
08	PC 18CS508	Database Lab with Mini Project	CS/IS	CS/IS	-	-	2	1	3	50	50	100
09	HS 18SK501	Skill Development-III	HS	HS	-	-	2	1	3	50	50	100
<b>Total</b>					<b>18</b>	<b>2</b>	<b>08</b>	<b>24</b>	<b>27</b>	<b>450</b>	<b>450</b>	<b>900</b>

Professional Elective I: 18CS5PE51: Distributed Operating System  
 18CS5PE52: Advanced Java and J2EE  
 18CS5PE53: Computer Graphics and Visualization  
 18CS5PE54: Advanced Data Structures and Algorithms

Open Elective I: 18CS5OE61: Data Structures and Algorithms  
 18CS5OE62: Data Base Management System  
 18CS5OE63: Operating System

**Note: Open Elective: The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at V Sem, the students are encouraged to take Online course (Swayam/Mooc / Nptel/MIT – Coursera .....). The same is approved by academic committee of the department and DEAN (Academics).**

Computer Science and Engineering

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 Maralur, Tumkur - 572 105.





**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS) (Effective from the academic year 2018-19)**

<b>VI Semester B.E. Computer Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan. 2018)					<b>Teaching Hours/week</b>				<b>Examination</b>			
Sl No.	Course and Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC 18CS601	Compiler Design	CS	CS	3	1	-	4	3	50	50	100
02	PC 18CS1602	Web Technologies	CS/IS	CS/IS	3	-	2	4	3	50	50	100
03	PC 18CS603	Artificial Intelligence and Machine Learning	CS/IS	CS/IS	3	1	-	4	3	50	50	100
04	PE 18CS6PE4x	Professional Elective-II	CS	CS	3	-	-	3	3	50	50	100
05	OE 18CS6OE5x	Open Elective-II	CS	CS	3	-	-	3	3	50	50	100
06	PC 18CS6MP01	Mini Project	CS	CS	-	-	4	2	3	50	50	100
07	PC 18CS607	Compiler Design Lab	CS	CS	-	-	2	1	3	50	50	100
08	PC 18CS608	Machine Learning Lab	CS/IS	CS/IS	-	-	2	1	3	50	50	100
09	HS 18SK601	Skill Development-IV	HS	HS	-	-	2	1	3	50	50	100
<b>Total</b>					<b>15</b>	<b>02</b>	<b>12</b>	<b>23</b>	<b>27</b>	<b>450</b>	<b>450</b>	<b>900</b>

Professional Elective II: 18CS6PE41: Cloud Computing

18CS6PE42: Image processing and Pattern Classification

18CS6PE43: Object Oriented Modeling and Design

18CS6PE44: Unix System Programming

Open Elective II: 18CS6OE51: Object Oriented Programming

18CS6OE52: Python Programming

18CS6OE53: Artificial Intelligence

**Note: Open Elective: The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at VI Sem, the students are encouraged to take Online course (Swayam/Mooc / Nptel/MIT - Coursera .....). The same is approved by academic committee of the department and DEAN(Academics).**

Computer Science and Engineering

Dean (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.





# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU

(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)

## SCHEME OF TEACHING AND EXAMINATION – 2018

Choice Based Credit System (CBCS) (Effective from the academic year 2018-19)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION – V Semester



Academic Year 2020-21

V Semester B.E. (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18EC501	Digital Signal Processing	EC	EC	3	1	-	4	3	50	50	100
02	PC	18EC1502	Information Theory and Coding	EC	EC	3	-	2	4	3	50	50	100
03	PC	18EC503	Fundamentals of CMOS VLSI Design	EC	EC	3	1	-	4	3	50	50	100
04	PC	18EC504	Microwave Communication	EC	EC	3	-	-	3	3	50	50	100
05	PE	18EC5PE5x	Professional Elective-I	EC	EC	3	-	-	3	3	50	50	100
	OE	18EC5OE6x	Open Elective-I	EC	EC	3	-	-	3	3	50	50	100
07	PC	18EC507	Digital Signal Processing Lab	EC	EC	-	-	2	1	3	50	50	100
08	PC	18EC508	VLSI Lab	EC	EC	-	-	2	1	3	50	50	100
09	HS	18SK501	Skill Development-III	HS	HS	-	-	2	1	3	50	50	100
Total						18	2	08	24	27	450	450	900

#### Professional Elective I:

18EC5PE51: Random Process and Probability

18EC5PE52: Robotics and Automation

18EC5PE53: Digital Switching Systems

Note: For OpenElectives the student should be minimumof 25, andmaximum of 55 to 60.

#### Open Elective I:

18EC5OE61: Digital System Design Using Verilog

18EC5OE62: Digital Communication Systems

18EC5OE63: Biomedical Instrumentation

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# SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU

(A Constituent College of Sri Siddhartha Academy of Higher Education, Tumakuru)

## SCHEME OF TEACHING AND EXAMINATION – 2018

Choice Based Credit System (CBCS) (Effective from the academic year 2018-19)

### DEPARTMENT OF ELECTRONICS AND COMMUNICATION – VI Semester



Academic Year 2020-21													
VI Semester B.E. (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan. 2018)					Teaching Hours/week				Examination				
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	P C	18EC601	Digital Communication	EC	EC	3	1	-	4	3	50	50	100
02	P C	18EC1602	Digital System Design	EC	EC	3	-	2	4	3	50	50	100
03	P C	18EC603	Computer Communication Networks	EC	EC	3	1	-	4	3	50	50	100
04	PE	18EC6PE4x	Professional Elective-II	EC	EC	3	-	-	3	3	50	50	100
05	O E	18EC6OE5x	Open Elective-II	EC	EC	3	-	-	3	3	50	50	100
06	P C	18EC6MP01	Mini Project	EC	EC	-	-	4	2	3	50	50	100
07	P C	18EC607	Advanced Communication Lab	EC	EC	-	-	2	1	3	50	50	100
08	P C	18EC608	CCN Lab	EC	EC	-	-	2	1	3	50	50	100
09	H S	18SK601	Skill Development-IV	HS	HS	-	-	2	1	3	50	50	100
<b>Total</b>						<b>15</b>	<b>02</b>	<b>12</b>	<b>23</b>	<b>27</b>	<b>450</b>	<b>450</b>	<b>900</b>

#### Professional Elective II:

18EC6PE41: Analog and Mixed Mode VLSI design.

18EC6PE42: Speech Processing

18EC6PE43: Cryptography and Network Security

Note: For OpenElectives the student should be minimum of 25, and maximum of 55 to 60.

#### Open Elective II:

18EC6OE51: Embedded System Design

18EC6OE52: Mobile Communication

18EC6OE53: Digital Image Processing

**Dean (Academics)**  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.



SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



V Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18TC501	Digital Signal Processing and its Applications.	TC	EC	3	1	-	4	3	50	50	100
02	PC	18TC1502	Information Theory and Error Control Coding	TC	EC	3	-	2	4	3	50	50	100
03	PC	18TC503	Microwaves and Antennas	TC	EC	3	1	-	4	3	50	50	100
04	PC	18TC504	Management and Entrepreneurship	TC	EC	3	-	-	3	3	50	50	100
05	PE	18TC5PE5x	Professional Elective-I	TC	EC	3	-	-	3	3	50	50	100
06	OE	18EC5OE6x	Open Elective-I	TC	EC	3	-	-	3	3	50	50	100
07	PC	18TC507	Microwave and Antenna Lab	TC	EC	-	-	2	1	3	50	50	100
08	PC	18TC508	Digital Signal Processing Lab	TC	EC	-	-	2	1	3	50	50	100
09	HS	18SK501	Skill Development-III	HS	HS	-	-	2	1	3	50	50	100
Total						18	2	08	24	27	450	450	900

Professional Elective I: 18TC5PE51: Digital Switching Systems  
18TC5PE52: Micro Electro Mechanical Systems

Open Elective I: 18EC5OE61:  
18EC5OE62: Principles of Communication Systems

Note: Open Elective: The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at V Sem, the students are encouraged to take online course (Swayam/Mooc/ Nptel/MIT – Coursera .....). The same is approved by concerned HEAD and DEAN (Academics).

Telecommunication Engineering

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



VI Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV)						Teaching Hours/week				Examination			
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)													
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18TC601	Wireless and Mobile Communication	TC	EC	3	1	-	4	3	50	50	100
02	PC	18TCI602	OOP with C++	TC	EC	3	-	2	4	3	50	50	100
03	PC	18TC603	CMOS VLSI Design	TC	EC	3	1	-	4	3	50	50	100
04	PE	18TC6PE4x	Professional Elective-II	TC	EC	3	-	-	3	3	50	50	100
05	OE	18EC6OE5x	Open Elective-II	TC	EC	3	-	-	3	3	50	50	100
06	PC	18TC6MP01	Mini Project	TC	EC	-	-	4	2	3	50	50	100
07	PC	18TC607	Communication Systems Lab	TC	EC	-	-	2	1	3	50	50	100
08	PC	18TC608	CMOS VLSI Design Lab	TC	EC	-	-	2	1	3	50	50	100
09	HS	18SK601	Skill Development-IV	HS	HS	-	-	2	1	3	50	50	100
Total						14	02	12	23	27	450	450	900

Professional Elective II: 18TC6PE41: Radar Systems  
18TC6PE42: IoT and Wireless Sensor Networks

Open Elective II: 18EC6OE51:  
18EC6OE52: Mobile Communication

**Note: Open Elective: The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at VI Sem, the students are encouraged to take Online course (Swayam/Mooc / Nptel/MIT – Coursera .....). The same is approved by concerned HEAD and DEAN (Academics).**

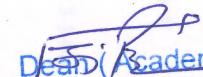
**Dean (Academics)**  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.

## Scheme of Teaching and Examination Choice based Credit System (CBCS)

V Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course and Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks	
01	PC 18EE501	Power Electronics	EEE	EEE	3	1	-	4	3	50	50	100	
02	PC 18EEI502	Signals and Systems	EEE	EEE	3	-	2	4	3	50	50	100	
03	PC 18EE503	Electrical Machine Design	EEE	EEE	3	1	-	4	3	50	50	100	
04	PC 18EE504	Microcontrollers and its Applications	EEE	EEE	3	-	-	3	3	50	50	100	
05	PE 18EE5PE5x	Professional Elective-I	EEE	EEE	3	-	-	3	3	50	50	100	
06	OE 18EE5OE6x	Open Elective-I	EEE	EEE	3	-	-	3	3	50	50	100	
07	PC 18EE507	Power Electronics Lab	EEE	EEE	-	-	2	1	3	50	50	100	
08	PC 18EE508	Microcontrollers Lab	EEE	EEE	-	-	2	1	3	50	50	100	
09	HS 18SK501	Skill Development-III	HS	HS	-	-	2	1	3	50	50	100	
Total					18	02	08	24	27	450	450	900	

Professional Elective I:	Open Elective I:
18EE5PE51: Advanced Control Systems	18EE5OE61: Energy Conversion Techniques
18EE5PE52: Illumination Engineering	18EE5OE62: Fundamentals of Illumination Engineering
18EE5PE53: Linear Integrated Circuits	

**Note: Open Elective: The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at V Sem, the students are encouraged to take Online course (Swayam/Mooc / Nptel/MIT – Coursera .....). The same is approved by concerned HEAD and DEAN (Academics).**

  
 Dean (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 101





VI Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engrg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18EE601	Power System Analysis and Stability	EEE	EEE	3	1	-	4	3	50	50	100
02	PC	18EE1602	Digital Signal Processing	EEE	EEE	3	-	2	4	3	50	50	100
03	PC	18EE603	Switchgear and High Voltage Engineering	EEE	EEE	3	1	-	4	3	50	50	100
04	PE	18EE6PE4x	Professional Elective-II	EEE	EEE	3	-	-	3	3	50	50	100
05	OE	18EE6OE5x	Open Elective-II	EEE	EEE	3	-	-	3	3	50	50	100
06	PC	18EE6MP01	Mini Project	EEE	EEE	-	-	4	2	3	50	50	100
07	PC	18EE607	Computer Aided Electrical Drawing	EEE	EEE	-	-	2	1	3	50	50	100
08	PC	18EE608	Relay and High Voltage Lab	EEE	EEE	-	-	2	1	3	50	50	100
09	HS	18HS601	Skill Development-IV	HS	HS	-	-	2	1	3	50	50	100
Total						15	02	12	23	27	450	450	900

Professional Elective II:	Open Elective II:
18EE6PE41: Advanced Power Electronics	18EE6OE51: Programable Logic Controller
18EE6PE42: Solar and Wind Energy Systems	18EE6OE52: Fundamentals of Renewable Energy Sources
18EE6PE43: Digital System Design using Verilog	

**Note: Open Elective : The strength should be Min of 25 and Max of 55 to 60. In Place of Open Elective at VI Sem , the students are encouraged to take Online course (Swayam/Mooc / Nptel/MIT – Coursera .....). The same is approved by concerned HEAD and DEAN(Academics).**

Department of Electrical & Electronics Engineering.

Dean. (Academics)  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.





DEPARTMENT OF MECHANICAL ENGINEERING

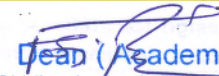
PROPOSED CURRICULUM OF V SEMESTER

2018-2019 BATCH

Sl. No	Sub. Code	Subject Title	L	T	P	C
1.	18ME501	DESIGN OF MACHINE ELEMENTS – 1	3	1	0	4
2.	18MEI502	TURBOMACHINES	3	0	2	4
3.	18ME503	APPLIED THERMODYNAMICS	3	1	0	4
4.	18ME504	DYNAMICS OF MACHINES	3	0	0	3
5.	18ME5PE5X	PROFESSIONAL ELECTIVE-1	3	0	0	3
6.	18ME5OE0X	OPEN ELECTIVE-I	0	0	4	2
7.	18MEL507	I C ENGINES & FUELS LABORATORY	0	0	2	1
8.	18MEL508	FLUID MECHANICS AND MACHINERY LABORATORY	0	0	2	1
9.	18SK601	SKILL DEVELOPMENT-III	-	-	2	1
<b>Total</b>			<b>15</b>	<b>02</b>	<b>12</b>	<b>23</b>

Professional Elective-I		Open Elective - I	
Sub. Code	Subject Title	Sub. Code	Subject Title
18ME5PE51	CAD/CAM & CIM	18ME6OE51	INDUSTRIAL DESIGN AND ERGONOMICS
18ME5PE52	MEMS AND NANOTECHNOLOGY	18ME6OE52	ENGINEERING ECONOMICS

Department: MECHANICAL ENGINEERING

  
Head (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



DEPARTMENT OF MECHANICAL ENGINEERING

PROPOSED CURRICULUM OF VI SEMESTER

2018-2019 BATCH

Sl. No	Sub. Code	Subject Title	L	T	P	C
1.	18ME601	DESIGN OF MACHINE ELEMENTS – 2	3	1	0	4
2.	18MEI602	AUTOMOTIVE ENGINEERING	3	0	2	4
3.	18ME603	HEAT & MASS TRANSFER	3	1	0	4
4.	18ME6PE4X	PROFESSIONAL ELECTIVE-II	3	0	0	3
5.	18ME6OE5X	OPEN ELECTIVE -II	3	0	0	3
6.	18ME6MP01	MINI PROJECT	0	0	4	2
7.	18MEL607	HEAT & MASS TRANSFER LAB	0	0	2	1
8.	18MEL608	COMPUTER AIDED ENGINEERING LAB	0	0	2	1
9.	18SK601	SKILL DEVELOPMENT-IV	-	-	2	1
Total			15	02	12	23

Professional Elective-II		Open Elective - II	
Sub. Code	Subject Title	Sub. Code	Subject Title
18ME6PE41	FINITE ELEMENT METHODS	18ME6OE51	PRODUCT DESIGN & DEVELOPMENT
18ME6PE42	ROBOTICS & AI	18ME6OE52	ENERGY MANAGEMENT




VII SEMESTER

VII Semester B.E. (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18TC701	Optical Fiber Communication	TC	TC	3	-	-	3	3	50	50	100
02	PC	18TC702	Data Communication Networks	TC	TC	3	-	-	3	3	50	50	100
03	PE	18TC7PE3x	Professional Elective-III	TC	TC	3	-	-	3	3	50	50	100
04	PE	18TC7PE4x	Professional Elective-IV	TC	TC	3	-	-	3	3	50	50	100
05	PC	18TC705	Data Communication Networks Lab	TC	TC	-	-	2	1	3	50	50	100
06	PC	18TC706	Advanced Communication Lab	TC	TC	-	-	2	1	3	50	50	100
07	PC	18TC7TS01	Technical Seminar	TC	TC	-	-	-	1	-	50	-	50
08	PC	18TC7PW01	Project Phase 1	TC	TC	-	-	4	2	-	50	-	50
Total						12	-	08	17	18	400	350	700

**Professional Elective III** 18TC7PE31: Advanced Embedded System Design  
18TC7PE32: Speech Processing  
18TC7PE33: RF Circuit Design

**Professional Elective IV** 18TC7PE41: Network security and covert communication  
18TC7PE42: Wavelet Transform  
18TC7PE43: DSP Architecture

Telecommunication Engineering

  
Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**VIII SEMESTER**

VIII Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PE	18TC8PE1x	Professional Elective -V	TC	EC	3	-	-	3	3	50	50	100
02	PE	18TC8PE2x	Professional Elective-VI	TC	EC	3	-	-	3	3	50	50	100
03	PE	18TC8PE3x	Professional Elective-VII	TC	EC	3	-	-	3	3	50	50	100
04	PC	18TC8PW02	Project Phase-2	TC	EC	-	-	14	7	3	50	50	100
Total						09	-	14	16	12	200	200	400

L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

<b>Professional Elective V</b>	18TC8PE11: Satellite Communication
	18TC8PE12: SOC Communication Architecture
	18TC8PE13: Automotive Electronics
<b>Professional Elective VI</b>	18TC8PE21: IoT and Wireless Sensor Networks
	18TC8PE22: Multirate Systems and Filter Banks
	18TC8PE23: Biomedical Signal Processing
<b>Professional Elective VII</b>	18TC8PE31: Pattern Recognition
	18TC8PE32: Nano Electronics
	18TC8PE33: Cognitive Radio Networks

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



VII Semester B.E Scheme

VII Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks	
01	PC 18EE701	Computer Techniques in Power Systems	EEE	EEE	3	-	-	3	3	50	50	100	
02	PC 18EE702	AC and DC Drives	EEE	EEE	3	-	-	3	3	50	50	100	
03	PC 18EE7PE3x	Professional Elective-III	EEE	EEE	3	-	-	3	3	50	50	100	
04	PC 18EE7PE4x	Professional Elective-IV	EEE	EEE	3	-	-	3	3	50	50	100	
05	PC 18EE705	Power System Simulation Lab	EEE	EEE	-	-	2	1	3	50	50	100	
06	PC 18EE706	AC and DC Drives Lab	EEE	EEE	-	-	2	1	3	50	50	100	
07	PC 18EE7TS01	Technical Seminar	EEE	EEE	-	-	-	1	-	50	-	50	
08	PC 18EE7PW01	Project Phase-1	EEE	EEE	-	-	4	2	-	50	-	50	
<b>Total</b>					<b>12</b>	<b>-</b>	<b>08</b>	<b>17</b>	<b>18</b>	<b>400</b>	<b>350</b>	<b>700</b>	

Professional Elective III:	Professional Elective IV:
18EE7PE31: Electric Vehicle Technology	18EE7PE41: Over Voltages in Power Systems
18EE7PE32: Testing and Commissioning of Electrical Equipments	18EE7PE42: PLC and SCADA
18EE7PE33: Internet of Things	18EE7PE43: Sensor Technologies

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



VIII Semester B.E Scheme

VIII Semester B.E. (Common to all UG programs: EE/EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks	
01	PE 18EE8PE1x	Professional Elective-V	EEE	EEE	3	-	-	3	3	50	50	100	
02	PE 18EE8PE2x	Professional Elective-VI	EEE	EEE	3	-	-	3	3	50	50	100	
03	PE 18EE8PE3x	Professional Elective-VII	EEE	EEE	3	-	-	3	3	50	50	100	
04	PC 18EE8PW02	Project Phase-2	EEE	EEE	-	-	14	7	3	50	50	100	
<b>Total</b>					<b>09</b>	<b>-</b>	<b>14</b>	<b>16</b>	<b>12</b>	<b>200</b>	<b>200</b>	<b>400</b>	

L-Lecture, T-Tutorial, P-Practical, CIE- Continuous Internal Evaluation, SEE-Semester End Examination

Professional Elective V:	Professional Elective VI:	Professional Elective VII:
18EE8PE11: Industrial Management, Electrical Estimation & Economics	18EE8PE21: Electro Magnetic Compatibility	18EE8PE31: Energy Auditing & Demand Side Management
18EE8PE12: HVDC and FACTS	18EE8PE22: Power System Operation and Control	18EE8PE32: Smart grid Technology
18EE8PE13: Artificial Intelligence Application to Power System	18EE8PE23: Fuzzy Logic and its applications	18EE8PE33: Embedded Systems

Dean (Academics)  
Sri Siddhartha Institute of Technology  
Maralur, Tumkur - 572 105.



**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY. TUMKUR**  
 (A Constituent college of Sri Siddhartha Academy of Higher Education, Deemed to be University,  
 under section 3 of UGC act 1956, Vide MHRD GOI Notification no.F9-31/2006-U.3(A)  
 dated:30/05/2008)  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
 (Accredited by NBA)



**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS)[Effective from the academic year 2018-19]**

**Academic Year 2022 - 23**

<b>VII Semester B.E. Computer Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan 2018)						<b>Teaching Hours/week</b>				<b>Examination</b>			
<i>Sl No</i>	<i>Course and Course Code</i>		<i>Course Title</i>	<i>Teaching dept.</i>	<i>Board of Exam.</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>C</i>	<i>Duration in Hrs.</i>	<i>CIE</i>	<i>SEE</i>	<i>Total Marks</i>
01	PC	18CS701	Cryptography and Network Security	CS	CS	3	-	-	3	3	50	50	100
02	PC	18CS702	Big Data and Analytics	CS	CS	3	-	-	3	3	50	50	100
03	PC	18CS7PE3x	Professional Elective – III	CS	CS	3	-	-	3	3	50	50	100
04	PC	18CS7PE4x	Professional Elective – IV	CS	CS	3	-	-	3	3	50	50	100
05	PE	18CS705	Cryptography and Network Security Lab	CS	CS	-	-	2	1	3	50	50	100
06	OE	18CS706	Advanced Database & Big data Lab	CS	CS	-	-	2	1	3	50	50	100
07	PC	18CS7TS01	Technical Seminar	CS	CS	-	-	-	1	-	50	-	50
08	PC	18CS7PW01	Project Phase – 1	CS	CS	-	-	4	2	-	50	-	50
Total						12	-	08	17	18	400	350	700

L – Lecture, T – Tutorial, P – Practical, C – Credit, CIE – Continuous Internal Evaluation, SEE – Semester End Examination

<b>Professional Elective III</b>	<b>Professional Elective IV</b>
18CS7PE31: Information Storage and Management	18CS7PE41: Agile Technologies
18CS7PE32: Internet Of Things	18CS7PE42: Android Programming
18CS7PE33: Wireless Sensor Network	18CS7PE43: Software Testing

**Dean (Academics)**  
 Sri Siddhartha Institute of Technology  
 Maralur, Tumkur - 572 105.



## SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

(A Constituent college of Sri Siddhartha Academy of Higher Education, Deemed to be University, under section 3 of UGC act 1956, Vide MHRD GOI Notification no.F9-31/2006-U.3(A) dated:30/05/2008).

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(Accredited by NBA)



### Scheme of Teaching and Examination-2018

Academic Year : 2022 - 23

Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

VIII Semester B.E. Computer Science and Engineering <small>(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. &amp; Tech.- Jan. 2018)</small>						Teaching Hours/week				Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18CS8PE1x	Professional Elective – V	CS	CS	3	-	-	3	3	50	50	100
02	PC	18CS8PE2x	Professional Elective – VI	CS	CS	3	-	-	3	3	50	50	100
03	PC	18CS8PE3x	Professional Elective – VII	CS	CS	3	-	-	3	3	50	50	100
04	PC	18CS8PW02	Project Phase – 2	CS	CS	-	-	14	7	3	50	50	100
Total						9	-	14	16	12	200	200	400

L – Lecture, T – Tutorial, P – Practical, C – Credit, CIE – Continuous Internal Evaluation, SEE – Semester End Examination

Professional Elective V	Professional Elective VI	Professional Elective VII
18CS8PE11: Pattern Recognition	18CS8PE21: Advanced Computer Architecture	18CS8PE31: Advanced DBMS
18CS8PE12: Software Architecture	18CS8PE22: Ad-Hoc Wireless Networks	18CS8PE32: Service Oriented Architecture
18CS8PE13: Mobile Computing	18CS8PE23: System Simulation and Modelling	18CS8PE33: Business Intelligence And Its Applications
18CS8PE14: Block Chain Technologies		

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



VII Semester B.E. (Civil Engineering)						Teaching Hours/week			
Sl No.	Course and Course Code	Course Title	Teaching dept.	Board of Exam.	L	T	P	C	
01	PC 18CE701	Design of Steel Structures	CE	CE	3	0	0	3	
02	PC 18CE702	Quantity Surveying & Estimation	CE	CE	3	0	0	3	
03	PC 18CE7PE3x	Program Elective-III	CE	CE	3	0	0	3	
04	PC 18CE7PE4x	Program Elective-IV	CE	CE	3	0	0	3	
05	PC 18CE705	Environmental Engineering Laboratory	CE	CE	0	0	2	1	
06	PC 18CE706	Internship	CE	CE	0	0	2	1	
07	PC 18CE7PW01	Project PHASE - I	CE	CE	0	0	4	2	
08	PC 18CE7TS01	Technical seminar	CE	CE	0	0	0	1	
Total					12	0	8	17	

**Program Elective III:**

18CE7PE31	Design of Prestressed Concrete Structures
18CE7PE32	Advance Design of RC Structures
18CE7PE33	Earthquake Resistant Design of Structures

**Program Elective IV:**

18CE7PE41	Highway Geometric Design
18CE7PE42	Numerical Methods in Civil Engineering
18CE7PE43	Remote Sensing & GIS

Academic year 2022-23

7<sup>th</sup> & 8<sup>th</sup> Sem

Department of Civil Engineering

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



VIII Semester B.E. (Civil Engineering)						Teaching Hours/week			
SI No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C
01	PC	18CE8PE1x	Program Elective-V	CE	CE	3	0	0	3
02	PC	18CE8PE2x	Program Elective-VI	CE	CE	3	0	0	3
03	PC	18CE8PE3x	Program Elective-VII	CE	CE	3	0	0	3
04	PC	18CE8PW02	Project PHASE - II	CE	CE	0	0	14	7
Total						9	0	14	16

**Program Elective-V:**

18CE8PE11	Design and drawing of RCC and steel structures
18CE8PE12	Advanced Foundation Design
18CE8PE13	Solid Waste Management

**Program Elective-VI:**

18CE8PE21	Bridge Engineering
18CE8PE22	Structural Dynamics
18CE8PE23	Urban Transport Planning

**Program Elective-VII:**

18CE8PE31	Pavement Design
18CE8PE32	Finite Element Analysis
18CE8PE33	Air Pollution and Control

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
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**B.E. DEGREE COURSE**

Academic Year 2022-23

**CHOICE BASED CREDIT SYSTEM (CBCS)**

**SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE**

<b>VII Semester B.E. Information Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan. 2018)						<b>Examination</b>						
SI No.	Course and Course Code		Course Title	Teaching Dept.	Board of Exam.	L	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18IS701	Cryptography and Network Security	ISE	ISE	3	-	3	3	50	50	100
02	PC	18IS702	Software Testing	ISE	ISE	3	-	3	3	50	50	100
03	PE	18IS7PE3x	Professional Elective-III	ISE	ISE	3	-	3	3	50	50	100
04	PE	18IS7PE4x	Professional Elective-IV	ISE	ISE	3	-	3	3	50	50	100
05	PC	18IS705	Cryptography and Network Security Laboratory	ISE	ISE	-	2	1	3	50	50	100
06	PC	18IS706	Software Engineering and Testing Laboratory	ISE	ISE	-	2	1	3	50	50	100
07	PC	18IS7TS01	Technical Seminar	ISE	ISE	-	-	1	-	50	-	50
08	PC	18IS7PW01	Project Work Phase – I	ISE	ISE	-	4	2	-	50	-	50
<b>Total</b>						<b>12</b>	<b>08</b>	<b>17</b>	<b>18</b>	<b>400</b>	<b>300</b>	<b>700</b>

**Professional Elective-III:**

18IS7PE31: File Structures

18IS7PE32: Mobile Application Development

18IS7PE33: Digital Image Processing

18IS7PE34: Software Architecture and Design

**Professional Elective-IV:**

18IS7PE41: Information Storage and Management

18IS7PE42: Soft and Evolutionary Computing

18IS7PE43: Block Chain Technologies

18IS7PE44: Artificial Neural Networks

Department of Information Science and Engineering

**Dean (Academics)**  
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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)



**B.E. DEGREE COURSE**  
**Academic Year 2022-23**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**

**SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE**

<b>VIII Semester B.E. Information Science and Engineering</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						<b>Examination</b>						
<i>Sl No.</i>	<i>Course and Course Code</i>		<i>Course Title</i>	<i>Teaching Dept.</i>	<i>Board of Exam.</i>	<i>L</i>	<i>P</i>	<i>C</i>	<i>Duration in Hrs.</i>	<i>CIE</i>	<i>SEE</i>	<i>Total Marks</i>
01	PE	18IS8PE1x	Professional Elective-V	ISE	ISE	3	-	3	3	50	50	100
02	PE	18IS8PE2x	Professional Elective-VI	ISE	ISE	3	-	3	3	50	50	100
03	PE	18IS8PE3x	Professional Elective-VII	ISE	ISE	3	-	3	3	50	50	100
04	PC	18IS8PW02	Project Work Phase – II	ISE	ISE	-	14	7	3	50	50	100
<b>Total</b>						<b>09</b>	<b>14</b>	<b>16</b>	<b>12</b>	<b>200</b>	<b>200</b>	<b>400</b>

**Professional Elective-V:**

18IS8PE11: Big Data Analytics  
18IS8PE12: Multimedia Computing  
18IS8PE13: Deep Learning  
18IS8PE14: Augmented Reality and Virtual Reality

**Professional Elective-VI:**

18IS8PE21: Cloud Computing  
18IS8PE22: Social Network Analysis  
18IS8PE23: Pattern Recognition  
18IS8PE24: Web Mining

**Professional Elective-VII:**

18IS8PE31: Agile Technologies  
18IS8PE32: Green Computing  
18IS8PE33: Cyber Forensic  
18IS8PE34: Software Project Management

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
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**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS)(Effective from the academic year 2018-19)**

<b>VII Semester B.E. Medical Electronics</b> (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)					<b>Teaching Hours/week</b>				<b>Examination</b>				
<i>Sl No.</i>	<i>Course and Course Code</i>		<i>Course Title</i>	<i>Teaching dept.</i>	<i>Board of Exam.</i>	<i>L</i>	<i>T</i>	<i>P</i>	<i>C</i>	<i>Duration in Hrs.</i>	<i>CIE</i>	<i>SEE</i>	<i>Total Marks</i>
01	PC	18ML701	Principles of Medical Imaging	ML	ML	3	-	-	3	3	50	50	100
02	PC	18ML702	Biomedical DSP	ML	ML	3	-	-	3	3	50	50	100
03	PC	18ML7PE3x	Professional Elective-III	ML	ML	3	-	-	3	3	50	50	100
04	PC	18ML7PE4x	Professional Elective-IV	ML	ML	3	-	-	3	3	50	50	100
05	PC	18ML705	Biomedical DSP Lab	ML	ML	-	-	3	1	3	50	50	100
06	PC	18ML706	Python Lab	ML	ML	-	-	3	1	3	50	50	100
07	PC	18ML7TS01	Technical Seminar	ML	ML	-	-	-	1	-	50	-	50
08	PC	18ML7PW01	Project Phase-I	ML	ML	-	-	4	2	-	50	-	50
Total						12	-	10	17	18	400	350	700

BS-Basic Science=26 Credits, ES-Engineering Science=19 Credits, HS-Humanities and Social sciences= 10 Credits,  
PC-Professional core=73+12=85 Credits, PE-Professional Elective =6+6=12 Credits, OE-Open Elective = 6 Credits.  
L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination

**Professional Elective III:**

18ML7PE31: Artificial Organs and Biomaterials  
18ML7PE32: Biometrics  
18ML7PE33: Artificial Intelligence

**Professional Elective IV:**

18ML7PE41: Pattern Recognition and its applications in Medicine  
18ML7PE42: Machine Learning  
18ML7PE43: Medical Device Development

**Dean (Academics)**  
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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
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**Scheme of Teaching and Examination-2018**  
**Choice based Credit System (CBCS)(Effective from the academic year 2018-19)**

VIII Semester B.E. Medical Electronics (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	18ML8PE1x	Professional Elective -V	ML	ML	3	-	-	3	3	50	50	100
02	PC	18ML8PE2x	Professional Elective-VI	ML	ML	3	-	-	3	3	50	50	100
03	PC	18ML8PE3x	Professional Elective-VII	ML	ML	3	-	-	3	3	50	50	100
04	PC	18ML8PW02	Project Phase-2	ML	ML	-	-	14	7	3	50	50	100
<b>Total</b>						<b>9</b>	<b>-</b>	<b>14</b>	<b>16</b>	<b>12</b>	<b>200</b>	<b>200</b>	<b>400</b>
BS-Basic Science=26 Credits, ES-Engineering Science=19 Credits, HS-Humanities and Social sciences=10 Credits PC-Professional core=85+6=91 Credits., PE-Professional Elective =12+6=18 Credits, OE-Open Elective = 6 Credits <b>Total Credits=BS+ES+HS+PC+PE+OE+PW=26+19+10+91+18+6=170 credits</b>													
L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination													

<b>Professional Elective V:</b> 18ML8PE11: Neural Network 18ML8PE12: Clinical Data Analytics 18ML8PE13: Brain Computer Interface	<b>Professional Elective VI:</b> 18ML8PE21: Hospital Management and Professional Ethics 18ML8PE22: Rehabilitation Engineering 18ML8PE23: Smart Wearable Sensor
<b>Professional Elective VII:</b> 18ML8PE31: IOT in Healthcare 18ML8PE32: Biostatistics and Biomechanics 18ML8PE33: Biomedical Therapeutic Equipments	


**Dean (Academics)** 2  
 Sri Siddhartha Institute of Technology  
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DEPARTMENT OF MECHANICAL ENGINEERING  
PROPOSED CURRICULUM OF VII SEMESTER  
2022-2023 BATCH

sl. no	course and course code		course title	teaching dept.	board of exam	credits
1.	PC	18ME701	CONTROL SYSTEMS ENGINEERING	ME	ME	3
2.	PC	18ME702	HYDRAULICS AND PNEUMATICS	ME	ME	3
3.	PE	18ME7PE3X	PROFESSIONAL ELECTIVE-III	ME	ME	3
4.	PE	18ME7PE4X	PROFESSIONAL ELECTIVE-IV	ME	ME	3
5.	PC	18ME705	DESIGN LABORATORY	ME	ME	1
6.	PC	18ME706	PRODUCTION TECHNOLOGY LAB	ME	ME	1
7.	PC	18ME7TS1	TECHNICAL SEMINAR	ME	ME	1
8.	PC	18ME7PW1	PROJECT PHASE -1	ME	ME	2
Total						17

PROFESSIONAL ELECTIVE-III	PROFESSIONAL ELECTIVE-IV
18ME7PE31: OPERATIONS RESEARCH	18ME7PE41: RAPID PROTOTYPING
18ME7PE32: MECHANICAL VIBRATIONS	18ME7PE42: POWER PLANT ENGINEERING

  
Dean (Academics)  
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DEPARTMENT OF MECHANICAL ENGINEERING  
PROPOSED CURRICULUM OF VIII SEMESTER  
2022-2023 BATCH

Sl. No	COURSE AND COURSE CODE		COURSE TITLE	TEACHING DEPT.	BOARD OF EXAM	CREDITS
1.	PE	18ME8PE1X	PROFESSIONAL ELECTIVE-V	ME	ME	3
2.	PE	18ME8PE2X	PROFESSIONAL ELECTIVE-VI	ME	ME	3
3.	PE	18ME8PE3X	PROFESSIONAL ELECTIVE-VII	ME	ME	3
4.	PC	18ME8PW2	PROJECT PHASE -1	ME	ME	7
Total						16

PROFESSIONAL ELECTIVE-V	PROFESSIONAL ELECTIVE-VI	PROFESSIONAL ELECTIVE-VII
18ME8PE11: PROJECT MANAGEMENT	18ME8PE21: MECHATRONICS & IOT	18ME8PE31: OPERATIONS MANAGEMENT
18ME8PE12: DESIGN OF EXPERIMENTS	18ME8PE22: ROBOTICS & IA	18ME8PE32: ADVANCED MANUFACTURING PROCESSES

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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**



Scheme of teaching and examination - 2018

Choice Based Credit System (CBCS) (Effect from the academic year 2018-19)

Bachelor of Engineering

Academic year 2022-23

VII Semester B.E ECE						Teaching Hours/ Week				Examination		
Sl No	Course and Course Code	Course Title	Teaching Dept.	Board of Exam.	L	T	P	C	Duration in Hrs	CIE	SEE	Total Marks
1	PC 18EC701	Mobile and Wireless Communications	EC	EC	3	-	-	3	3	50	50	100
2	PC 18EC702	Image Processing	EC	EC	3	-	-	3	3	50	50	100
3	PC 18EC7PE3X	Professional Elective III	EC	EC	3	-	-	3	3	50	50	100
4	PC 18EC7PE4X	Professional Elective IV	EC	EC	3	-	-	3	3	50	50	100
5	PC 18EC705	Wireless Communication Lab	EC	EC	-	-	2	1	3	50	50	100
6	PC 18EC706	Image Processing Lab	EC	EC	-	-	2	1	3	50	50	100
7	PC 18EC7TS01	Technical Seminar	EC	EC	-	-	-	1	-	50	-	50
8	PC 18EC7PW01	Project Phase I	EC	EC	-	-	4	2	-	50	-	50
					12	0	8	17	18	400	300	700

Elective III  
18EC7PE31: Wireless Sensor Networks  
18EC7PE32: Adaptive Signal Processing  
18EC7PE33: Pattern Recognition  
18EC7PE34: Essential of information technology

Elective IV  
18EC7PE41: Internet of Things  
18EC7PE42: Artificial Neural Networks  
18EC7PE43: DSP Algorithm and Architecture  
18EC7PE44: Biomedical Signal Processing

**Dean (Academics)**  
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**SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU**  
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION**



Scheme of teaching and examination - 2018  
Choice Based Credit System (CBCS) (Effect from the academic year 2018-19)  
Bachelor of Engineering

Academic year 2022-23

VIII Semester B.E ECE						Teaching Hours/ Week				Examination		
Sl No	Course and Course Code	Course Title	Teaching Dept.	Board of Exam.	L	T	P	C	Duration in Hrs	CIE	SEE	Total Marks
1	PC 18EC8PE1X	Professional Elective V	EC	EC	3	-	-	3	3	50	50	100
2	PC 18EC8PE2X	Professional Elective VI	EC	EC	3	-	-	3	3	50	50	100
3	PC 18EC8PE3X	Professional Elective VII	EC	EC	3	-	-	3	3	50	50	100
4	PC 18EC8PW02	Project Phase II	EC	EC	-	-	14	7	3	50	50	100
					9	0	14	16	12	200	200	400

<p>Elective V</p> <p>18EC8PE11: Applied Embedded Systems</p> <p>18EC8PE12: High performance Networks</p> <p>18EC8PE13: CAD for VLSI</p> <p>18EC8PE14: Business management for entrepreneurs</p>	<p>Elective VI</p> <p>18EC8PE21: Digital Signal Compression</p> <p>18EC8PE22: Information Security</p> <p>18EC8PE23: Machine learning</p> <p>18EC8PE24: Intellectual Property Rights</p>
<p>Elective VII</p> <p>18EC8PE31: Automotive Electronics</p> <p>18EC8PE32: Satellite Communications and GPS</p> <p>18EC8PE33: RF Circuits</p> <p>18EC8PE34: Optical Fiber Communication</p>	

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