

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-ECI102	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 -X	CHEMISTRY	CH	-	-	2	1	50	50	100	3
07	ES	ES-CSL107	Programming Lab -X	COMPUTER SC	CS	-	-	2	1	50	50	100	3
08	HS	HS-CP108	Constitution of India and Professional Ethics -X	HUMANITY SC	HS	2	-	-	0	50		50	
09	HS	HS-KA109	Kannada -X	HUMANITY SC	HS	2	-	-	0	50		50	
Total						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
Marakur, Tumakuru - 572 105.

SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMAKURU
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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 X	PHYSICS	PH			2	1	50	50	100	3
07	ES	HS-EV107	Environmental Studies X	HUMANITY SC	HS	2			1	50		50	
08	HS	HS-EN108	Professional English	HUMANITY SC	HS	2			0	50		50	
Total						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)
 Sri Siddhartha Institute of Technology
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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			
Total						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)

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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	
Total						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
 15/12/2021



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		
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		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		
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	-	
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.

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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		
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		
10	HS SK4DP2	Skill Development-II	HS	HS	1	50	-	50	-	
Total						23.5	500	450	950	3

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.

(Signature)

Dean (Academics)
Sri Siddhartha Institute of Technology
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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.



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 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.

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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
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 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
TOTAL						24.5
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)
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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
TOTAL						23.5
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.

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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			
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	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

3rd & 4th Sem

Dept. of Civil Engineering


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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
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IV SEMESTER B.E.

SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	Examination			
							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.

15/12
Dean (Academics)

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



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			
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	4.0	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			
SI 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.

Department of ECE

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CHOICE BASED CREDIT SYSTEM (CBCS)

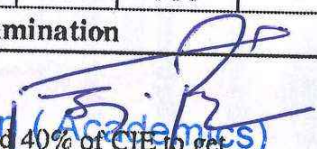
SCHEME OF TEACHING AND EXAMINATION FOR B.E. DEGREE COURSE – 2022-23

(Effective from the academic year 2020-21)

III Semester B.E. Information Science and Engineering (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 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	-
Total						24.5	19	11	500	450	950	-
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.


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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	-
Total						23.5	18	11	500	450	950	

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.

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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)



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)													
SI 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
						19	-	11	24.5	27	500	450	950

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.

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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 E	SEE	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
						18	-	11	23.5	27	500	450	950

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.

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 (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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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)											
SI 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

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY, TUMKUR

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Syllabus for 5th Semester (2020 Scheme)

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	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
						18	-	12	24	27	500	450	950

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

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Syllabus for 6th Semester (2020 Scheme)

VI 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	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			

(Signature)

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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			
<i>SI</i>	<i>Course Code</i>		<i>Course Title</i>	<i>Teaching dept.</i>	<i>Board of Exam.</i>	<i>Credits</i>	<i>CIE</i>	<i>SEE</i>	<i>Total Marks</i>	<i>Exam Hrs.</i>
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	-
Total						24	500	450	950	
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:	Open Elective I:
EC5PE51: Python Programming EC5PE52: Robotics and Automation EC5PE53: Sensors and Signal Conditioning	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	-
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:
EC6PE41: Analog and Mixed Signal VLSI Design EC6PE42: Artificial Intelligence EC6PE43: Cryptography and Information security	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 Exan.	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).


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

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 Exan.	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: Programmable 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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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) (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	-
Total						24	500	450	950	

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: ET5PE51: Digital Switching Systems ET5PE52: Micro Electro Mechanical Systems	Open Elective I: ET5OE61: Principles of Communication Systems
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Maralur, Tumkur - 572 105.



SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
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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			
SI 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	-
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:
ET6PE41: Radar Systems ET6PE42: Automotive electronics	EC6OE51: Mobile Communication

Dean (Academics)
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Maralur, Tumkur - 572 105.



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				
SI 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			
SI 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
Total			22	00	12	24

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

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



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
Total			18	00	14	22

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

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



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	-
Total						24	18	11	500	450	950	-

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, 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
 (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	-
Total						22	15	11	450	450	850	-

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 IS6PE42: Artificial Neural Networks IS6PE43: Data Science and Analytics	IS6OE51: Artificial Intelligence IS6OE52: Software Testing IS6OE53: Human Computer Interaction

Dean (Academics)
 Sri Siddhartha Institute of Technology
 Maralur, Tumakuru - 572 112.



Department of Electrical and Electronics Engineering
NBA accredited for Six years (2017-2023)

Scheme of Teaching and Examination

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2022-23)

VIII SEMESTER B.E

Academic Year: 2023-24

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 EE8PE1x	Professional Elective-V	EEE	EEE	3	-	-	3	3	50	50	100	
02	PE EE8PE2x	Professional Elective-VI	EEE	EEE	3	-	-	3	3	50	50	100	
03	PE EE8PE3x	Professional Elective-VII	EEE	EEE	3	-	-	3	3	50	50	100	
04	PC EE8PW02	Project Phase-2	EEE	EEE	-	-	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													

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

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Dean (Academics)
Sri Siddhartha Institute of Technology
Mankur - Tumakuru - 572 105.



VII Semester B.E

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			
SI No.	Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	EE7TH1	Power Systems-II	EEE	EEE	3	-	-	3	3	50	50	100
02	PC	EE7TH2	AC and DC Drives	EEE	EEE	3	-	-	3	3	50	50	100
03	PC	EE7PE3x	Professional Elective-III	EEE	EEE	3	-	-	3	3	50	50	100
04	PC	EE7PE4x	Professional Elective-IV	EEE	EEE	3	-	-	3	3	50	50	100
05	PC	EE7PE5x	Professional Elective-V	EEE	EEE	3	-	-	3	3	50	50	100
05	PC	EE7LB1	Power System Simulation Lab	EEE	EEE	-	-	3	1.5	3	50	50	100
06	PC	EE7LB2	AC and DC Drives Lab	EEE	EEE	-	-	3	1.5	3	50	50	100
07	PC	EE7PW01	Project Phase-1	EEE	EEE	-	-	4	2	-	50	-	50
Total						12	-	10	21	18	400	350	750

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

Professional Elective V:
EE7PE51: Industrial Management, Electrical Estimation & Economics
EE7PE52: HVDC and FACTS
EE7PE53: Artificial Intelligence Applications to Power System


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)
Academic Year 2023-24



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

Scheme of Teaching and Examination-2020 (170 Credits Scheme)

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

VII Semester B.E.

Sl No.	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE	SEE	Total Marks	Exam Hrs	
01	PC	IS7TH1	Cryptography and Network Security	ISE	3	-	0	3	50	50	100	3	
02	PC	IS7TH2	Mobile Application Development	ISE	3	-	0	3	50	50	100	3	
03	PE	IS7PE3X	Professional Elective-III	ISE	3	-	0	3	50	50	100	3	
04	PE	IS7PE4X	Professional Elective-IV	ISE	3	-	0	3	50	50	100	3	
05	PE	IS7PE5X	Professional Elective-V	ISE	3	-	0	3	50	50	100	3	
06	PC	IS7LB1	Cryptography and Network Security Laboratory	ISE	0	-	3	1.5	50	50	100	3	
07	PC	IS7LB2	Mobile Application Development Laboratory	ISE	0	-	3	1.5	50	50	100	3	
08	PC	IS7PW1	Project Work Phase-I	ISE	0	-	4	2	50	-	50	-	
L-Lecture, T-Tutorial, P-Practical,/Drawing, CIE-continuous Internal Evaluation, SEE-Semester End Examination					Total	15	-	10	20	400	350	750	-

Professional Elective-III	Professional Elective-IV	Professional Elective-V
IS7PE31: Agile Technologies IS7PE32: Digital Image Processing IS7PE33: Software Architecture and Design Patterns	IS7PE41: Soft and Evolutionary Computing IS7PE42: Block Chain Technology IS7PE43: Artificial Neural Networks	IS7PE51: Multimedia Computing IS7PE52: Cyber Forensic IS7PE53: Augmented Reality and Virtual Reality



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

Scheme of Teaching and Examination-2020 (170 Credits Scheme)

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

VIII Semester B.E.

SI No.	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE	SEE	Total Marks	Exam Hrs
01	PE	IS8PE1X	Professional Elective-VI	ISE	3	-	0	3	50	50	100	3
02	PE	IS8PE2X	Professional Elective-VII	ISE	3	-	0	3	50	50	100	3
03	PC	IS8TS1	Technical Seminar	ISE	3	-	0	1	50	-	50	-
04	PC	IS8PW2	Project Work Phase-II	ISE	3	-	18	9	50	50	100	3
L-Lecture, T-Tutorial, P-Practical,/Drawing, CIE-continuous Internal Evaluation, SEE-Semester End Examination				Total	12	-	18	16	200	150	350	-

Professional Elective-VI	Professional Elective-VII
IS8PE11: Social Network Analysis IS8PE12: Pattern Recognition IS8PE13: Web Mining	IS8PE21: Deep Learning IS8PE22: Green Computing IS8PE23: Software Project Management

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



Scheme of Teaching and Examination-2020
Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2020-21)

VII Semester BE

Academic year: 2023-24

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 Department	Board of Exam	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PC	CS7TH1	Cryptography and Network Security	CS	CS	3	-	-	3	3	50	50	100
02	PC	CS7TH2	Big Data & Analytics	CS	CS	3	-	-	3	3	50	50	100
03	PE	CS7PE3x	Professional Elective – III	CS	CS	3	-	-	3	3	50	50	100
04	PE	CS7PE4x	Professional Elective – IV	CS	CS	3	-	-	3	3	50	50	100
05	PE	CS7PE5x	Professional Elective – V						3	3	50	50	100
06	PC	CS7LB1	Cryptography and Network Security Lab	CS	CS	-	-	3	1.5	3	50	50	100
07	PC	CS7LB2	Advanced Database & Big Data Lab	CS	CS	-	-	3	1.5	3	50	50	100
08	PC	CS7PW1	Project Phase-I	CS	CS	-	-	4	2	-	50	-	50
			Total			12	-	10	20	21	400	350	750

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

Professional Elective – III	Professional Elective – IV	Professional Elective – V
CS7PE31: Natural Language Processing	CS7PE41: Agile Technologies	CS7PE51: .Net with C#
CS7PE32: High Performance Computing	CS7PE42: Information Storage Management	CS7PE52: Business Intelligence and its Applications
CS7PE33: Deep Learning	CS7PE43: Android Programming	CS7PE53: Software Testing

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Tumakuru, Tumkur - 572 105.
Dept. of Computer Science & Engineering



Scheme of Teaching and Examination-2020
Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2020-21)

VIII Semester BE

Academic year: 2023-24

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 Department	Board of Exam	L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
01	PE	CS8PE1x	Professional Elective – VI	CS	CS	3	-	-	3	3	50	50	100
02	PE	CS8PE2x	Professional Elective – VII	CS	CS	3	-	-	3	3	50	50	100
03	PC	CS8TS1	Technical Seminar	CS	CS	-	-	-	1	-	50	-	50
04	PC	CS8PW2	Project Phase – 2	CS	CS	-	-	18	9	3	50	50	100
			Total			6	-	18	16	9	400	150	350

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

Professional Elective – VI	Professional Elective – VII
CS8PE11: Mobile Computing	CS8PE21: Information Retrieval
CS8PE12: Software Architecture and Design Pattern	CS8PE22: System Modelling and Simulation
CS8PE13: User Interface Design	CS8PE23: Blockchain Technology
CS8PE14: Advanced DBMS	CS8PE24: Cyber Security

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VII SEMESTER B.E.

VII Semester B.E. (Common to all UG programs)						Examination				
(Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- 2020-21)										
SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PC	CE7TH1	Design of Steel Structures	CE	CE	3	50	50	100	3
02	PC	CE7TH2	Quantity Surveying and Estimation	CE	CE	3	50	50	100	3
03	PE	CE7PE3x	Professional Elective-III	CE	CE	3	50	50	100	3
04	PE	CE7PE4x	Professional Elective-IV	CE	CE	3	50	50	100	3
05	PE	CE7PE5x	Professional Elective-V	CE	CE	3				
06	PC	CE7LB1	Environmental Engineering Lab	CE	CE	1.5	50	50	100	3
07	PC	CE7LB2	Internship	CE	CE	1.5	50	50	100	3
08	PC	CE7PW1	Project Phase-1	CE	CE	2	50	-	50	-
Total						20	400	300	700	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

Professional Elective III:	Professional Elective IV:	Professional Elective IV:
CE7PE31: Pavement Design CE7PE32: Earthquake Resistant Design of Structures CE7PE33: Solid Waste Management	CE7PE41: Design of Prestressed Concrete Structures CE7PE42: Environmental Engineering-II CE7PE43: Ground water hydrology	CE7PE51: Hydraulic structures & irrigation design CE7PE52: Adv. Design of RC Structures CE7PE53: Structural dynamics

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Department of Civil Engineering

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
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VIII SEMESTER B.E.

VIII Semester B.E. (Common to all UG programs) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Eng. & Tech.- 2020-21)							Examination			
SI No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	Credits	CIE	SEE	Total Marks	Exam Hrs.
01	PE	CE8PE1x	Professional Elective-VI	CE	CE	3	50	50	100	3
02	PE	CE8PE2x	Professional Elective-VII	CE	CE	3	50	50	100	3
03	PC	CE8TS1	Technical Seminar	CE	CE	2	50	50	100	3
04	PC	CE8PW2	Project Phase-2	CE	CE	8	50	50	100	3
Total						16	200	200	400	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination										

Professional Elective V:	Professional Elective VI:
CE8PE21: Design & drawing of Steel Structures CE8PE22: Finite Element Analysis CE8PE23: Numerical Methods in Civil Engineering	CE8PE31: Bridge Engineering CE8PE32: Advanced Foundation Engineering CE8PE33: Industrial wastewater treatment


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Maralur, Tumakuru - 572 105.



Electronics and Telecommunication Engineering

Academic year 2023-24

7 th Semester			Course Title	Teaching Dept.	L	T	P	Credits	CIE Marks	SEE Marks	Total Marks	Exam Hrs
Sl No	Course Code											
1	PC	ET7TH1	Optical Fiber Communication	ET	3	-	-	3	50	50	100	3
2	PC	ET7TH2	Data Communication Networks	ET	3	-	-	3	50	50	100	3
3	PE	ET7PE3x	Professional Elective-III	ET	3	-	-	3	50	50	100	3
4	PE	ET7PE4x	Professional Elective-IV	ET	3	-	-	3	50	50	100	3
5	PE	ET7PE5x	Professional Elective-V	ET	3	-	-	3	50	50	100	3
6	PC	ET7LB1	Advanced Communication Lab	ET		-	3	1.5	50	50	100	3
7	PC	ET7LB2	Data Communication Networks Lab	ET		-	3	1.5	50	50	100	3
8	PC	ET7PW1	Project Phase-I	ET	-	-	-	2	50	-	50	-
L: Lecture, T-Tutorial, P-Practical/Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination				Total	21	-	6	20	400	250	750	21

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.


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Accredited by NAAC with 'A+' Grade



Professional Elective-III	Professional Elective-IV	Professional Elective-V
ET7PE31- Satellite Communication	ET7PE41 - Cryptography and Network Security	ET7PE51 - Python Programming
ET7PE32 –Advanced Embedded system design	ET7PE42 - DSP Algorithms and applications	ET7PE52 - IoT and Wireless Sensor Networks
ET7PE33 -Nano Electronics	ET7PE43 - Cognitive Radio Networks	ET7PE53 - Biomedical Signal Processing

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8th Semester

Electronics and Telecommunication Engineering
(NEW: 170 credits)

Academic year 2023-24

Sl No	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE Marks	SEE Marks	Total Marks	Exam Hrs
1	PE	ET8PE1x	Professional Elective-VI	ET	3	-	-	3	50	50	100	3
2	PE	ET8PE2x	Professional Elective-VII	ET	3	-	-	3	50	50	100	3
3	PC	ET8TS1	Technical Seminar	ET	3	-	-	2	50	--	50	-
4	PC	ET8PW2	Project Phase-2	ET	3	-	-	8	50	50	100	3
L: Lecture, T-Tutorial, P-Practical/Drawing, CIE: Continuous Internal Evaluation, SEE: Semester End Examination				Total	12	-	-	16	200	150	350	15

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-VI	Professional Elective-VII
ET8PE11 - Machine learning with Python	ET8PE21 - Software Defined Networks
ET8PE12 - Telemedicine and Telecare	ET8PE22 - Multi-rate Systems and Filter Banks
ET8PE13 - SOC Communication Architecture	ET8PE23 - 4G LTE/5G Communications

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Electronics and Telecommunication Engineering



SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)
Academic Year 2023-24



Scheme of Teaching and Examination-2020 (170 Credits Scheme)

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

VII Semester B.E.

Sl No.	Course Code		Course Title	Teaching Dept.	L	T	P	Credits	CIE	SEE	Total Marks	Exam Hrs
01	PC	IS7TH1	Cryptography and Network Security	ISE	3	-	0	3	50	50	100	3
02	PC	IS7TH2	Mobile Application Development	ISE	3	-	0	3	50	50	100	3
03	PE	IS7PE3X	Professional Elective-III	ISE	3	-	0	3	50	50	100	3
04	PE	IS7PE4X	Professional Elective-IV	ISE	3	-	0	3	50	50	100	3
05	PE	IS7PE5X	Professional Elective-V	ISE	3	-	0	3	50	50	100	3
06	PC	IS7LB1	Cryptography and Network Security Laboratory	ISE	0	-	3	1.5	50	50	100	3
07	PC	IS7LB2	Mobile Application Development Laboratory	ISE	0	-	3	1.5	50	50	100	3
08	PC	IS7PW1	Project Work Phase-I	ISE	0	-	4	2	50	-	50	-
L-Lecture, T-Tutorial, P-Practical,/Drawing, CIE-continuous Internal Evaluation, SEE-Semester End Examination				Total	15	-	10	20	400	350	750	-

Professional Elective-III	Professional Elective-IV	Professional Elective-V
IS7PE31: Agile Technologies IS7PE32: Digital Image Processing IS7PE33: Software Architecture and Design Patterns	IS7PE41: Soft and Evolutionary Computing IS7PE42: Block Chain Technology IS7PE43: Artificial Neural Networks	IS7PE51: Multimedia Computing IS7PE52: Cyber Forensic IS7PE53: Augmented Reality and Virtual Reality

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)
Academic year 2023-2024



Department of Medical Electronics Engineering
VII 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	ML7TH1	IOT in Healthcare	ML	ML	3-0-0	3	50	50	100	3	
02	PC	ML7TH2	Biomedical Signal Processing	ML	ML	3-0-0	3	50	50	100	3	
03	PE	ML7PE3x	Professional Elective-III	ML	ML	3-0-0	3	50	50	100	3	
04	PE	ML7PE4x	Professional Elective-IV	ML	ML	3-0-0	3	50	50	100	3	
05	PE	ML7PE5x	Professional Elective-V	ML	ML	3-0-0	3	50	50	100	3	
06	PC	ML7LB1	Biomedical DSP Lab	ML	ML	0-0-3	1.5	50	50	100	3	
07	PC	ML7LB2	IoT in Healthcare Lab	ML	ML	0-0-3	1.5	50	-	50	-	
08	PC	ML7PW1	Project Phase-1	ML	ML	0-0-4	2	50	-	50	-	
Total								20	400	350	750	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination												

Professional Elective III:	Professional Elective IV:
ML7PE31: Artificial Organs and Biomaterials ML7PE32: Speech Signal Processing ML7PE33: Smart Wearable Systems	ML7PE41: Biometrics ML7PE42: Clinical Data Analytics ML7PE43: Machine Learning
Professional Elective V:	
ML7PE51: Neural Network ML7PE52: Medical Device Development ML7PE53: Telemedicine	

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Department of Medical Electronics Engineering
VIII 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	PE	ML8PE1x	Professional Elective-VI	ML	ML	3-0-0	3	50	50	100	3
02	PE	ML8PE2x	Professional Elective-VII	ML	ML	3-0-0	3	50	50	100	3
03	PC	ML8TS1	Technical Seminar	ML	ML	0-0-4	2	50	-	50	-
04	PC	ML8PW2	Project Phase-2	ML	ML	0-0-16	8	50	50	100	3
Total							16	200	200	400	-
CIE-Continuous Internal Evaluation, SEE-Semester End Examination											

Professional Elective VI:	Professional Elective VII:
ML8PE11: Hospital Management and Professional Ethics ML8PE12: Robotics and Automation ML8PE13: Bio-Mems	ML8PE21: Rehabilitation Engineering ML8PE22: Ergonomics ML8PE23: Biomedical Therapeutic Equipments


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SRI SIDDHARTHA ACADEMY OF HIGHER EDUCATION

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE-2022 (160 Credits Scheme, NEP)
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

Academic Year: 2023-24

VII Semester B E

Sl No	Course Code	Course Title	Teaching Dept.	L	T	P	C	CIE	SEE	Total Marks	Exam Hrs.	
1	PC EC7TH1	Mobile and Wireless Communications	EC	3			3	50	50	100	3	
2	PC EC7TH2	IOT and its Applications	EC	3			3	50	50	100	3	
3	PE EC7PE3X	Professional Elective III	EC	3			3	50	50	100	3	
4	PE EC7PE4X	Professional Elective IV	EC	3			3	50	50	100	3	
	PE EC7PE5X	Professional Elective V	EC				3	50	50	100	3	
5	PC EC7LB1	Wireless Communication Lab	EC				3	1.5	50	50	100	3
6	PC EC7LB2	IOT Lab	EC				4	2	50	-	50	-
8	PC EC7PW1	Project Phase I					20	400	350	750		

Elective III
EC7PE31: ARM Programming and optimization
EC7PE32: Machine Learning
EC7PE33: Essential of information technology

Elective V
EC7PE51: Nano Technology
EC7PE52: Satellite Communications and GPS
EC7PE53: Advanced Multimedia

Elective IV

EC7PE41: Artificial Neural Networks
EC7PE42: Business management for entrepreneurs
EC7PE43: Biomedical Signal Processing

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SCHEME OF TEACHING AND EXAMINATION FOR BE DEGREE COURSE-2022 (160 Credits Scheme, NEP)
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

VIII Semester B E

Academic Year: 2023-24

Sl No	Course Code		Course Title	Teaching Dept.	L	T	P	C	CIE	SEE	Total Marks	Exam Hrs.
1	PE	EC8PE1X	Professional Elective VI	EC	3	-	-	3	50	50	100	3
2	PE	EC8PE2X	Professional Elective VII	EC	3	-	-	3	50	50	100	3
3	PC	EC8TS1	Technical seminar	EC		-	-	2	50	-	50	-
4	PC	EC8PW2	Project Phase II	EC	-	-	16	8	50	50	100	3
								16	200	150	350	

Elective VI

EC8PE11: Digital Signal Compression
EC8PE12: Low power VLSI DESIGN
EC8PE13: Data structure and algorithm

Elective VII

EC8PE21: Applied Embedded Systems
EC8PE22: RF IC Design
EC8PE23: Deep Learning

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Scheme of Teaching and Examination-2022(2020 Scheme)
 Outcome-Based Education (OBE) and choice Based Credit System(CBCS)
 (Effective from the academic year 2022-23)

Academic Year:2023-24

VII Semester BE,

VII Semester, BE, Mechanical Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech :-Jan2018)					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
1.	PC	ME7TH1	CONTROL SYSTEMS ENGINEERING	ME	ME	4	0	0	3	3	50	50	100
2.	PC	ME7TH2	HYDRAULICS AND PNEUMATICS	ME	ME	4	0	0	3	3	50	50	100
3.	PE	ME7PE3X	PROFESSIONAL ELECTIVE-III	ME	ME	3	0	0	3	3	50	50	100
4.	PE	ME7PE4X	PROFESSIONAL ELECTIVE-IV	ME	ME	3	0	0	3	3	50	50	100
5.	PE	ME7PE5X	PROFESSIONAL ELECTIVE-V	ME	ME	0	0	3	1.5	3	50	50	100
6.	PC	ME7LB1	DESIGN LABORATORY	ME	ME	0	0	3	1.5	3	50	50	100
7.	PC	ME7LB2	QUALITY ENGINEERING LAB	ME	ME	0	0	4	2	-	50	-	50
8.	PC	ME7PW1	PROJECT WORK PHASE -1	ME	ME	0	0	4	2	-	50	-	50
Total						17	0	10	20	21	20	350	750

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

PROFESSIONAL ELECTIVE-III
ME7PE31: RAPID PROTOTYPING
ME7PE32: MECHANICAL VIBRATIONS
ME7PE33: POWER PLANT ENGINEERING

PROFESSIONAL ELECTIVE-IV
ME7PE41: OPERATIONS RESEARCH
ME7PE42: TOTAL QUALITY MANAGEMENT
ME7PE43: IC ENGINES

PROFESSIONAL ELECTIVE-V
ME7PE51: ENTERPRISE RESOURCE PLANNING
ME7PE52: QUALITY ENGINEERING
ME7PE53: OPERATIONS MANAGEMENT

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

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Scheme of Teaching and Examination-2022(2020 Scheme)

Outcome-Based Education (OBE) and choice Based Credit System(CBCS)

(Effective from the academic year 2022-23)

Academic Year:2023-24

VIII Semester BE,

VIII Semester, BE, Mechanical Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech :-Jan2018)					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 E	SEE	TOTAL
1.	PE	ME8PE1X	PROFESSIONAL ELECTIVE-VI	ME	ME	3	0	0	3	3	50	50	100
2.	PE	ME8PE2X	PROFESSIONAL ELECTIVE-VII	ME	ME	3	0	0	3	3	50	50	100
3.	PE	ME8TS1	TECHNICAL SEMINAR	ME	ME	0	0	0	2	-	50	-	50
4.	PC	ME8PW2	PROJECT PHASE -2	ME	ME	0	0	16	8	3	50	50	100
Total						6	0	16	16	9	200	150	350

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

PROFESSIONAL ELECTIVE-VI
ME8PE11: MECHATRONICS & IOT
ME8PE12: LEAN MANUFACTURING
ME8PE13: MATERIALS MANAGEMENT

PROFESSIONAL ELECTIVE-VII
ME8PE21: PROJECT MANAGEMENT
ME8PE22: DESIGN OF EXPERIMENTS
ME8PE23: ADVANCED MANUFACTURING PROCESSES


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