

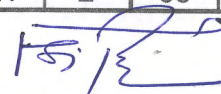
SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU

(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)				Physics Group			Teaching Hours/week			Credits
(Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)							L	T	P	
Sl No.	Course Code	Title of Course	Teach. dept.	L	T	P				
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			
Total				17	2	06	20			



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 2018-19

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

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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)

Sri Siddhartha Institute of Technology
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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)

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

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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.

Mandatory Induction Program: I/II Semesters B.E. (Common to all Branches)			
SI No.	Activities	Details (small group 20 students with a faculty mentor)	Time Slot
01	Physical activity (mild exercise/yoga)	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	Bath, Breakfast etc.	-	7.15am to 8.55am
03	Creative Arts	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	Universal Human Values (Character building) (Teachers from HS or outside of the institute)	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	Lunch	-	1pm to 2.25pm
05	Literacy	Encompass reading, writing and possibly, debating, enacting a play etc.	2.30pm to 3.55pm
06	Proficiency Modules	To overcome some critical lacunas that students might have, for example, English, Computer familiarity etc. -conduct crash courses.	Afternoon session

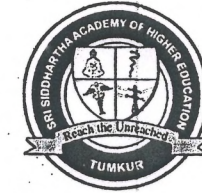
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Principal
Sri Siddhartha Institute of Technology
Maralur, Tumakuru - 572 108.



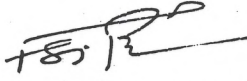
SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
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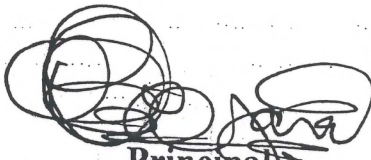


Scheme of Teaching and Examination-2018
Choice based Credit System (CBCS) (Effective from the academic year 2018-19)

07	Lectures by Eminent people	It would give the students exposure to people who are socially active or in public life.	Once a week
08	Familiarization to Department	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	Bridge Course in Mathematics	Creating awareness among the students mathematics in Engineering	10 am – 11 am
10	Closing Phase	<ul style="list-style-type: none">• Last but one day-discussion and finalization of presentation within each group.• Last day-Examinations (if any)-whole day	Whole day


26.6.19
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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)

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													

CDC Convener

Dean (Academic)

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Sri Siddhartha Institute of Technology
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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 ML1 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

Dean (Academics)
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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY - TUMAKURU
(A constituent College of Siddhartha Academy of Higher Education, Tumakuru)
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)						L	T	P	C	Duration in Hrs.	CIE	SEE	Total Marks
Sl No.	Course and Course Code		Course Title	Teaching dept.	Board of Exam.								
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


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



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
Total						18	2	08	24	27	450	450	900

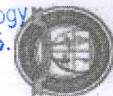
Professional Elective I: 18CS5PE51: Distributed Operating System
 18CS5PE52: Advanced Java and J2EE
 18CS5PE53: Computer Graphics and Visualization
 18CS5PE54: Advanced Data Structures and Algorithms

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

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





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

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 18CS601	Compiler Design	CS	CS	3	1	-	4	3	50	50	100
02	PC 18CSI602	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
Total					15	02	12	23	27	450	450	900

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

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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 – 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 of 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

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 – 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
Total						15	02	12	23	27	450	450	900

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 minimumof 25, andmaximum of 55 to 60.

Open Elective II:

18EC6OE51: Embedded System Design

18EC6OE52: Mobile Communication

18EC6OE53: Digital Image Processing

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SRI SIDDHARTHA INSTITUTE OF TECHNOLOGY- TUMAKURU
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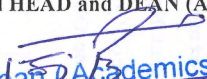
V Semester B.E. (Common to all UG programs: EE/ EC/TC/ML/CS/IS/ ME/IM/CV) (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Teaching Hours/week				Examination			
Sl No	Course and Course Code		Course Title	Teaching dept.	Board of Exam.	L	T	P	C	Duration 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 P. 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).

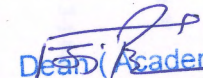
Dean (Academics)
Sri Siddhartha Institute of Technology
Maralur, Tumkur - 572 105.

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 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 Enge. & 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
Total			15	02	12	23

Professional Elective-I	
Sub. Code	Subject Title
18ME5PE51	CAD/CAM & CIM
18ME5PE52	MEMS AND NANOTECHNOLOGY

Open Elective - I	
Sub. Code	Subject Title
18ME6OE51	INDUSTRIAL DESIGN AND ERGONOMICS
18ME6OE52	ENGINEERING ECONOMICS



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	
Sub. Code	Subject Title
18ME6PE41	FINITE ELEMENT METHODS
18ME6PE42	ROBOTICS & AI

Open Elective - II	
Sub. Code	Subject Title
18ME6OE51	PRODUCT DESIGN & DEVELOPMENT
18ME6OE52	ENERGY MANAGEMENT



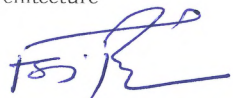
VII SEMESTER

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	Teachin g 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

Professional Elective V	18TC8PE11: Satellite Communication
	18TC8PE12: SOC Communication Architecture
	18TC8PE13: Automotive Electronics

Professional Elective VI	18TC8PE21: IoT and Wireless Sensor Networks
	18TC8PE22: Multirate Systems and Filter Banks
	18TC8PE23: Biomedical Signal Processing

Professional Elective VII	18TC8PE31: Pattern Recognition
	18TC8PE32: Nano Electronics
	18TC8PE33: Cognitive Radio Networks

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)



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	
Total					12	-	08	17	18	400	350	700	

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

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



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	
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:
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

VII 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	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

Professional Elective III	Professional Elective IV
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. & 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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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

7th & 8th Sem

Department of Civil Engineering

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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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B.E. DEGREE COURSE

Academic Year 2022-23

CHOICE BASED CREDIT SYSTEM (CBCS)

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

VII Semester B.E. Information Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech. - Jan. 2018)						Examination						
Sl 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
Total						12	08	17	18	400	300	700

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

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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

VIII Semester B.E. Information Science and Engineering (Subjects and Syllabus as per AICTE-Model Curriculum for UG Course in Engg. & Tech.- Jan. 2018)						Examination						
<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
Total						09	14	16	12	200	200	400

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

VII 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	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

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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
Total						9	-	14	16	12	200	200	400
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 Total Credits=BS+ES+HS+PC+PE+OE+PW=26+19+10+91+18+6=170 credits													
L-Lecture, T-Tutorial, P-Practical, CIE-Continuous Internal Evaluation, SEE-Semester End Examination													

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


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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


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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
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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
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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

Elective V
18EC8PE11: Applied Embedded Systems
18EC8PE12: High performance Networks
18EC8PE13: CAD for VLSI
18EC8PE14: Business management for entrepreneurs

Elective VI
18EC8PE21: Digital Signal Compression
18EC8PE22: Information Security
18EC8PE23: Machine learning
18EC8PE24: Intellectual Property Rights

Elective VII
18EC8PE31: Automotive Electronics
18EC8PE32: Satellite Communications and GPS
18EC8PE33: RF Circuits
18EC8PE34: Optical Fiber Communication

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