



SREE SAKTHI ENGINEERING COLLEGE

(AUTONOMOUS)

OOTY MAIN ROAD, KARAMADAI, | MOB : +91 92445 04444, 92445 02222
COIMBATORE - 641 104 | Web : www.sreesakthi.edu.in
Affiliated to Anna University & Approved by AICTE, Accredited by NAAC

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

I Vision and Mission of the institution

Vision
<i>To emerge as a center of excellence in engineering education, research, innovation, and entrepreneurship by fostering industry collaboration, practical skills, and ethical values, thereby empowering students to address global challenges with creativity, sustainability, and social responsibility.</i>
Mission
1. To nurture competent professionals and future leaders through learner-centric, innovative teaching and experiential learning practices. 2. To cultivate a scientific temperament that empowers students to provide sustainable solutions to real-world problems. 3. To promote ethical values, social responsibility, and inclusive development through holistic education. 4. To create a dynamic research ecosystem by building strong collaborations with industry, academia and research institutions. 5. To encourage entrepreneurship through structured support systems, incubation centers, and start-up development initiatives.

II Vision and Mission of the Department

Vision of the Department
<i>To be a center of excellence in Electronics and Communication Engineering by fostering innovation in intelligent electronic systems, promoting interdisciplinary research, and upholding ethical practices to address global communication and automation challenges.</i>
Mission of the Department
1.To deliver outcome-based education with a strong foundation in analog/digital electronics, signal processing, embedded systems, and communication engineering. 2.To promote innovation in areas such as VLSI design, IoT, wireless networks, and autonomous systems. 3.To nurture ethical engineering practice, leadership, and lifelong learning through projects and professional engagements. 4.To foster collaborations with EDA tool providers, communication industries, and research bodies for domain-relevant problem-solving.



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5.To encourage technology entrepreneurship in electronics, automation, and intelligent systems through incubation support.

III PROGRAM EDUCATIONAL OBJECTIVES

PEO1	Graduates will have a strong foundation in Mathematics, Science and Engineering fundamentals to enable them to deliver efficient solutions to challenging problems in Electronics and Communication and allied disciplines.
PEO2	Graduates will attain successful professional careers by applying their Engineering skills to develop initiatives and innovative ideas for R&D, Industry and Higher Education.
PEO3	Graduates will engage in life-long learning, adapt to evolving technology, work in interdisciplinary area to design innovative products for society and become Entrepreneurs.

IV PROGRAM OUTCOMES

PO1	Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
PO2	Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development.
PO3	Design/Development Of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.
PO4	Conduct Investigations Of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.
PO5	Modern Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems.
PO6	The Engineer And The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment.
PO7	Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws.
PO8	Individual And Collaborative Team Work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
PO9	Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences



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P10	Project Management And Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
PO11	Life-Long Learning: Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change.

V PROGRAM SPECIFIC OUTCOMES

Program Specific Outcomes	
PSO1	Design, develop and analyze electronic systems through application of relevant Electronics, Mathematics and Engineering principles.
PSO2	Design, develop and analyze Communication Systems through application of fundamentals from Communication Principles, Signal Processing, and RF System Design & Electromagnetics.
PSO3	Adapt to emerging Electronics and Communication Technologies and develop innovative solutions for existing and newer problems.

PEO/ PSO to PO Mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PS O1	PS O2	PS O3
PEO1	3	3	2	2	2	1	1	1	1	1	2	3	3	2
PEO2	2	3	3	2	3	1	1	2	2	2	2	3	3	3
PEO3	1	2	2	2	2	3	3	3	3	2	3	2	2	3

Correlation value 3 -Strong, 2 – Medium, 1-Low

Signature of the Head of the Department
with Seal



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Curriculum and Regulation 2026									
Semester- I									
Sl No	Course Code	Name of the Course	L	T	P	C	Category	T/P	SDG Mapping
1.	26CEH101	Heritage of Tamils	1	0	0	1	SH	T	3,4,8,10,15,16,17
2.	26CEH102	Technical English	3	0	0	3	SH	T	3,4,8,10,15,16,17
3.	26CES101	Applied Mathematics for Engineering	3	1	0	4	BS	T	3,4,8,10,15,16,17
4.	26CES102	Applied Physics for Engineering	2	0	2	3	BS	TP	3,4,8,10,13,15,16,17
5.	26CEE101	Basics of Engineering and Technology	3	0	0	3	BE	T	3,4,6,7,8,10,13,15,16,17
6.	26CEE102	Problem Solving using Python Programming	2	0	2	3	BE	TP	3,4,8,10,15,16,17
7.	26CEE103	Engineering Graphics	2	0	2	3	BE	TP	3,4,8,10,15,16,17
8.	26CEE104	Basic Engineering Laboratory	0	0	4	2	BE	P	3,4,8,10,15,16,17
9.	26CEC101	Career Development Skills -1	1	0	0	1	EE	T	3,4,8,10,15,16,17
Total			17	1	10	23			
Semester II									
Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26CEH201	Tamils and Technology	1	0	0	1	SH	T	3,4,8,10,15,16,17
2.	26CEH202	Professional English	3	0	0	3	SH	T	3,4,8,10,15,16,17
3.	26CES201	Applications of Transforms and Partial Differential Equations	3	1	0	4	BS	T	3,4,8,10,15,16,17
4.	26CES202	Applied Chemistry and Environmental Science	2	0	2	3	BS	TP	3,4,6,7,8,10,13,15,16,17
5.	26CEE204	Electric Circuit Analysis	3	1	0	4	BE	T	3,4,8,15,16,17
6.	26CEE202	Digital Electronics	2	0	2	3	BE	TP	3,4,8,15,16,17



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7.	26CEE205	Electric Circuit Analysis Laboratory	0	0	4	2	BE	P	3,4,8,15,16,17
8.	26CEC201	Professional Skill Development -1	1	0	0	1	EE	T	3,4,8,10,15,16,17
Total			15	2	8	21			

III Semester

Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26ECH301	Statistics and Quantitative Techniques	3	1	0	4	BS	T	1,3,4,8,10,13
2.	26ECE302	Signals and Systems	3	1	0	4	PC	T	3,9,7,13
3.	26ECE303	Electro Magnetic fields	3	0	0	3	PC	T	7,9,3,13
4.	26ECE304	Computer Programming: C	3	0	0	3	PC	T	9,8,4,3,7
5.	26ECE305	Analog and Digital Communication	2	0	2	3	PC	TP	9,7,3,8,11
6.	26ECE306	Electronic Devices and Circuits	2	0	2	3	PC	TP	9,7,3,8,4,11
7.	26ECE307	Computer Programming lab	0	0	4	2	PC	P	4,7,8,9,13
8.	26ECE308	Career Development Skills-2	1	0	0	1	EE	T	4,8,10,16
9.	26ECE309	Indian Knowledge system	1	0	0	0	MC	T	2,3,4,6,11,12
Total			18	2	8	23			

IV Semester

Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26ECH401	Project Management Techniques (Case study-based approach)	2	0	2	3	BS	TP	9,8,17
2.	26ECE402	Control System Engineering	3	1	0	4	PC	T	7,9,11,13
3.	26ECE403	C++and Data Structures	3	0	0	3	PC	T	4,8,9
4.	26ECE404	Linear Integrated Circuits	2	0	2	3	PC	TP	3,7,9,11,13
5.	26ECE405	Digital Signal Processing	2	0	2	3	PC	TP	3,9,11,13
6.	26ECE406	C++and Data Structures Lab	0	0	4	2	PC	P	4,8,9



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7.	26ECE407	(Core Elective -1)	3	0	0	3	CE	T	3, 9, 11, 13, 15
8.	26ECE408	Professional Skill Development -2	1	0	0	1	EE	T	4, 5, 8, 10, 16
9.	26ECE409	Industrial training / Internship -I (for 2 weeks)	0	0	0	1	EE	P	4, 8, 9, 10, 17
10.	26EE410	Indian Constitution	1	0	0	0	MC	T	1, 4, 5, 10, 16
Total			17	1	10	23			

V Semester									
Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26ECE501	Transmission Lines and Waveguides	3	0	0	3	PC	T	7, 9, 11, 13, 17
2.	26ECE502	Wireless Communication	3	0	0	3	PC	T	3, 4, 9, 11, 17
3.	26ECE503	Data Communication Networks	3	0	0	3	PC	T	3, 4, 9, 11, 17
4.	26ECE504	VLSI Design	2	0	2	3	PC	TP	3, 7, 9, 11, 13
5.	26ECE505	Microprocessors and Microcontrollers	2	0	2	3	PC	TP	3, 7, 9, 11, 13
6.	26ECE506	Data Communication Networks Lab	0	0	4	2	PC	P	4, 8, 9, 10
7.	26ECE507	(Core Elective -2)	3	0	0	3	CE	T	3, 7, 9, 11, 13
8.	26ECE508	Professional Development Skills-3	1	0	0	1	EE	T	4, 5, 8, 10, 11
9.	26ECE509	Business Ethics for Engineers	1	0	0	0	MC	T	16, 8, 9, 12,
10.			18	0	8	21			
11.	26EEM11	Minor Elective -I	3	0	0	3	ME	T	
	26EEM12	Minor Elective -II	3	0	0	3	ME	T	
VI Semester									
Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26EEE601	RF and Microwave Engineering	3	0	0	3	PC	T	9, 4, 8, 11, 13



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2.	26ECE602	Optical Communication	3	0	0	3	PC	T	9, 4, 8, 10
3.	26ECE603	Embedded System and IoT Design	2	0	2	3	PC	TP	3, 7, 9, 11, 13
4.	26ECE604	Antenna Design	2	0	2	3	PC	TP	9, 4, 8, 11, 10
5.	26ECE605	(Core Elective -3)	3	0	0	3	CE	T	3, 4, 9, 13, 17
6.	26ECE606	(Core Elective -4)	3	0	0	3	CE	T	9, 11, 13, 10,,4
7.	26ECE607	Mini Project	0	0	6	3	EE	P	
8.	26ECE608	Carrer Development Skill-3	1	0	0	1	EE	T	
9.	26ECE609	Industrial training / Internship -II (for 2 weeks)	0	0	0	1	EE	P	
			17	0	10	23			
10.	26EE611	Minor Elective -III	3	0	0	3	ME	T	
11.	26EE12	Minor Elective -IV	3	0	0	3	ME	T	

Regulation 2026- Curriculum ELECTRONICS AND COMMUNICATION ENGINEERING									
VII Semester									
Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
1.	26ECE701	Total Quality Management	3	0	0	3	PC	T	8, 9, 12, 13, 16
2.	26ECE702	Network Security	3	0	0	3	PC	T	16, 9, 8, 4, 17
3.	26ECE703	5G and 6G Communication Networks	2	0	2	3	PC	TP	3, 4, 9, 11, 17
4.	26ECE704	Artificial Intelligence and Machine Learning	2	0	2	3	PC	TP	9, 4, 8, 3
5.	26ECE705	(Core Elective -5)	3	0	0	3	CE	T	3, 8, 9, 11, 13
6.	26ECE706	(Core Elective -6)	3	0	0	3	CE	T	3, 7, 9, 11, 13
7.	26ECE707	Open Elective -1	3	0	0	3	OE	T	
8.	26ECE708	Project Phase -I	0	0	4	2	EE	P	
9.	26EES709	Professional Development Skills-4	1	0	0	1	EE	T	



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			20	0	8	24			
10.	26EEM711	Minor Elective -V	3	0	0	3	ME	T	
11.	26EEM712	Minor Elective -VI	3	0	0	3	ME	T	
Sl No	Course code	Name of the course	L	T	P	C	Type	T/P	SDG Mapping
VIII Semester									
1.	26EEE801	Open Elective-2 / Self-study (NPTEL/Swayam)	3	0	0	3	OE	T	
2.	26EEE802	Open Elective -3/ Self-study (NPTEL/Swayam)	3	0	0	3	OE	T	
3.	26EEE803	Project Phase 2	0	0	20	10	EE	P	
Total			6	0	20	16			

Core Elective- 1&2 Core

Sl no	Course Code	Name of the course	L	T	P	C	Type	T/P
1.	26ECE901	Network Security	3	0	0	3	C Elective	T
2.	26ECE902	Image Processing	2	0	2	3	C Elective	TP
3.	26ECE903	Fundamentals of Nano Electronics	3	0	0	3	C Elective	T
4.	26ECE904	Computer Vision	3	0	0	3	C Elective	T
5.	26ECE905	Biomedical Engineering	3	0	0	3	C Elective	T

Core Elective- 3 & 4 Extended Core

Sl no	Course Code	Name of the course	L	T	P	C	Type	T/P
1.	26ECE906	MEMS Design	3	0	0	3	C Elective	T
2.	26ECE907	Advanced digital signal processing	2	0	2	3	C Elective	TP
3.	26ECE908	Speech Processing	3	0	0	3	C Elective	T
4.	26ECE909	Cognitive Radio	3	0	0	3	C Elective	T
5.	26ECE910	Arm and Risk Architecture	2	0	2	3	C Elective	TP

Core Elective- 5&6 Advanced Core

Sl no	Course Code	Name of the course	L	T	P	C	Type	T/P
1.	26ECE911	Antenna and Wave Propagation	3	0	0	3	S Elective	T
2.	26ECE912	VLSI Testing	2	0	2	3	S Elective	TP
3.	26ECE913	Foundation of Robotics	3	0	0	3	S Elective	T
4.	26ECE914	CMOS VLSI Design	3	0	0	3	S Elective	T
5.	26ECE915	Industry 4.0 and Industrial IoT	3	0	0	3	S Elective	T

List of Electives for Minor with 3 0 0 3 L T P C

Artificial	Advanced	Computing	Smart	Applied Electronics
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Intelligence	Manufacturing	Technologies	structures	
				Automotive Electronics
				Advanced Digital System Design
				Statistical Signal Processing
				Digital Control Engineering
				Digital Image Processing
				Embedded Systems Design
				Analog Electronics
				Network Theory
				High Speed Digital Design
				Quantum Communication

#Open Electives are to be selected from the list of minor Electives any major.

Note: A student should select One out of these verticals to gain 18 Credits for minor degree program

SUMMARY OF CREDITS DISTRIBUTION

Sl No	Stream	Type	Semester wise Credit distribution								Total
			1	2	3	4	5	6	7	8	
1.	Humanities	SH	4	4	-	-	-	-	-	-	8
2.	Basic Science	BS	7	7	4	3	-	-	-	-	21
3.	Basic Engineering	BE	11	9	-	-	-	-	-	-	20
4.	Professional Core	PC	-	-	18	18	17	12	12	-	77
5.	Core Elective	CE	-	-	-	3	3	6	6	-	18
6.	Open Elective	OE	-	-	-	-	-	-	3	6	9
7.	Employability Enhancement	EE	1	1	1	2	1	5	3	10	24
8.	Mandatory Course	MC	0	0	0	0	0	-	-	-	0



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9.	Value Added courses	VA	-	-	-	-	-	-	-	-	-
10.	Minor Elective	ME	-	-	-	-	-	-	-	-	-
Total			23	21	23	26	21	23	24	16	177

Sl No	Structure of UG Electronics and Communication Engineering Program	SSEC Credits	AICTE Model*
1.	Humanities and Social Sciences (SH): including Management	8	12
2.	Basic Sciences (BS): including Mathematics, Physics, Chemistry, Biology	21	21
3.	Engineering Sciences (BE): Including Materials, Workshop, Drawing, Basics of Electrical/Electronics/Mechanical/Computer Engineering, Instrumentation	20	101
4.	Professional Subjects-Core (PC): relevant to the chosen specialization/branch; (May be split into Hard (no choice) and Soft (with choice), if required)	77 (20+77=97)	
5.	Core Electives (CE): Professional Subjects –relevant to the chosen specialization/ branch	18	6
6.	Open Electives (OE): Subjects-from other technical and/or emerging subject areas from different specialisations	9	6
7.	Employability Enhancement Courses (EE): Career Guidance and Professional Skills Development, Project Work, Seminar and/or Internship in Industry or elsewhere.	24	17
8.	Mandatory Courses (MC)	0	0
Total		177	163