

PROGRAMME OUTCOMES

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **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.
4. **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.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics :** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.



National Education Society (R.)



Jawaharlal Nehru New College of Engineering

(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC –'B',
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Navule, Savalanga Road, SHIVAMOGGA - 577 204

Ph : 08182 - 268800/1 Fax : 08182-222450 Email : principal@jnncce.ac.in Website : www.jnncce.ac.in

Department of Electronics & Communication Engineering 2020-21



Year of Establishment : 1980
Programmes Offered : B.E. Electronics & Communication Engineering

VISION

To be a premier centre of education and research in Electronics & Communication Engineering for producing competent engineers to cater to the needs of industry and society.

MISSION

- Impart quality education through innovative and continuous teaching – learning process
- Groom the students with required foundations of Electronics & Communication Engineering and inculcate in them the professional ethics & human values.
- Train the students and the faculty in state – of – the-art technologies and motivate them for higher studies & innovation based research for the needs of the industry and society.
- Create centers of excellence in the field of Electronics & Communication Engineering in collaboration with the industries and academic organizations.

LIST OF FACULTY MEMBERS

Sl.No.	Name of the Faculty	Designation	Qualification	Exp. (Yrs)
1.	Dr. Sathyanarayana S. V.	Professor & HOD	M.Tech.,Ph.D	27.3
2.	Dr. Manjunatha P.	Dean (Academics)	M.Tech.,Ph.D	22.6
3.	Dr. Pramod Kumar S	Asso. Prof.	M.Tech Ph.D	11
4.	Mr. Sunil M. D.	Asst. Prof.	M.Tech. (Ph.D)	17.0
5.	Ms. Ujwala B. S.	Asst. Prof.	M.Tech. (Ph.D)	14.3
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21.	Ms. Shwetha B.	Asst. Prof.	M.Tech. (Ph.D)	8.0

RESEARCH CENTER DETAILS

No. of guides	Ph.D Awarded	M.Sc (Engg.) Awarded	Ph.D Pursuing
03	03	01	19

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4	Badrish K P	Assistant Instructor	16.0
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6	Ramyashree M	Assistant Instructor	3.1
7	Eshwarappa H	Peon	23.0

FINAL YEAR PASS PERCENTAGE DURING LAST THREE YEARS

Year	2017-18	2018-19	2019-20
Percentage	94.6	95.24	90.5

Special Features

- Qualified and Experience Staff
- Recognized as Research center by VTU leading to Doctoral and M.Sc (Engg) Degrees
- Well equipped laboratories
- Analog Electronics Lab
- Digital Electronics Lab
- Communication Lab
- Microprocessor and Microcontroller Labs
- DSP and VHDL Lab
- Power Electronics Lab
- VLSI Lab
- M.Tech (DECS) Computer centre
- Well stocked Department Library with about 2048 books
- Organizes various technical Programs under banner of Spectrum/ IETE Students Forum (ISF) and IETE Shimoga Center
- Publishes a News letter- SAIL periodically
- Manages Remote centre for IIT, Bombay which organizes workshops /FDPs for Students and Staff
- Department has Amateur Radio Club (HAM) and Hobby club

Faculty student ratio: 1 : 21.6

No. of faculty Members : 21

Professor : 02 Assoc Prof: 01 Asst.Prof: 18

No. of Nonteaching staff members : 9

Technical Staff : 06 Supporting Staff : 03

Faculty Profile:

Ph.D:03 Ph.D Pursuing: 13 Post Graduate:05

Industrial Consultancy, Research and Development

- No. of papers published in International Journals : 39
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Students Placed: 82

COMPANIES : : TCS, SOCIETE GENERALE, ROBOSOFT, EVRY INDIA and others

OUR RECRUITMENT PARTNERS

			
			
			

Program Educational Objectives (PEO's)

The Graduates will be able to:

- PEO1. Work professionally with the necessary conceptual knowledge and technical & soft skills in Electronics and Communication domain imbibing ethical, societal and environmental commitment.
- PEO2. Analyse and solve Electronics & Communication problems by applying basic principles of Mathematics, Science & Engineering using advanced tools and techniques.
- PEO3. Pursue higher education, to explore research potential and to contribute to professional development in Electronics, Communication and IT domains

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2.	Dr. Manjunatha P.	Dean (Academics)	M.Tech.,Ph.D	25.6
3.	Dr. Pramod Kumar S	Asso. Prof.	M.Tech Ph.D	13.0
4.	Mr. Sunil M. D.	Asst. Prof.	M.Tech. (Ph.D)	20.0
5.	Ms. Ujwala B. S.	Asst. Prof.	M.Tech. (Ph.D)	17.3
6.	Ms. Nalina S. B.	Asst. Prof.	M.Tech. (Ph.D)	18.6
7.	Mr. Ajay Betur P.	Asst. Prof.	M.Tech.	19.0
8.	Dr. Sharath S. M.	Asst. Prof.	M.Tech. Ph.D	14.6
9.	Mr. Abhijith N.	Asst. Prof.	M.Tech. (Ph.D)	14.0
10.	Mr. Darshan K. V.	Asst. Prof.	M.Tech. (Ph.D)	15.0
11.	Mr. Anil Kumar J.	Asst. Prof.	M.Tech. (Ph.D)	12.0
12.	Dr. Sheela S.	Asst. Prof.	M.Tech. Ph.D	17.0
13.	Ms. Roopa B. S.	Asst. Prof.	M.Tech. (Ph.D)	12.0
14.	Mr. Pradeepa S. C.	Asst. Prof.	M.Tech. (Ph.D)	13.0
15.	Mr. Harish T S	Asst. Prof.	M.Tech. (Ph.D)	10.5
16.	Ms. Prema K. N.	Asst. Prof.	M.Tech. (Ph.D)	11.0
17.	Ms. Smitha S. M.	Asst. Prof.	M.Tech. (Ph.D)	12.0
18.	Ms. Sumathi K.	Asst. Prof.	M.Tech. (Ph.D)	10.0
19.	Dr. Shwetha H. R.	Asst. Prof.	M.Tech. Ph.D	12.0
20.	Mr. Prashanth G. S.	Asst. Prof.	M.Tech. (Ph.D)	12.0
21.	Ms. Shwetha B.	Asst. Prof.	M.Tech. (Ph.D)	11.0

RESEARCH CENTER DETAILS

No. of guides	Ph.D Awarded	M.Sc (Engg.) Awarded	Ph.D Pursuing
05	10	01	15

LIST OF NON TEACHING STAFF

Sl.No.	Name	Designation	Exp. (Yrs)
1	Veeresh H C	Foreman (Sl.Gr.)	34.0
2	Ravi Shet V	Instructor (Sr.Sc)	20.6
3	Satish Kumar H G	Instructor (Sr.Sc)	20.0
4	Badrish K P	Assistant Instructor	19.0
5	Ramyashree M	Assistant Instructor	6.1

FINAL YEAR PASS PERCENTAGE DURING LAST THREE YEARS

Year	2020-21	2021-22	2022-2023
Percentage	92.15	96.28	96.32

Special Features

- Qualified and Experience Staff
- Recognized as Research center by VTU leading to Doctoral and M.Sc (Engg) Degrees
- Well equipped laboratories
- Electronic Circuits Lab
- Simulation Lab
- Communication Lab
- Microprocessor and Microcontroller Labs
- DSP and VHDL Lab
- IoT Lab
- VLSI Lab
- Well stacked Department Library with about 2076 books
- Organizes various technical Programs under banner of Spectrum/ IETE Students Forum (ISF), IEEE ComSoc Chapter and IETE Shimoga Center
- Publishes a News letter- SAIL periodically
- Manages Remote centre for IIT, Bombay which organizes workshops/FDPs for Students and Staff
- Department has Amateur Radio Club (HAM) and Hobby club

Faculty student ratio: 1 : 20.84

No. of faculty Members : 21

Professor : 02 Assoc Prof: 01 Asst.Prof: 18

No. of Nonteaching staff members : 7

Technical Staff : 05 Supporting Staff : 02

Faculty Profile:

Ph.D:06 Ph.D Pursuing: 14 Post Graduate:01

Industrial Consultancy, Research and Development

- No. of papers published in International Journals : 5
- No. of conferences organized : 2
- No. of Papers presented in International Conferences / Seminars : 3
- No. of Papers presented in National Conferences / Seminars : 2
- No. of Training Programmes / Short Term Courses conducted
- KSCST Projects Sanctioned : 4

Students Placed: 124

COMPANIES :: TCS, SOCIETE GENERALE, ROBOSOFT, EVRY INDIA and others

OUR RECRUITMENT PARTNERS



Program Educational Objectives (PEO's)

The Graduates will be able to:

- PEO1. Work professionally with the necessary conceptual knowledge and technical & soft skills in Electronics and Communication domain imbuing ethical, societal and environmental commitment.
- PEO2. Analyse and solve Electronics & Communication problems by applying basic principles of Mathematics, Science & Engineering using advanced tools and techniques.
- PEO3. Pursue higher education, to explore research potential and to contribute to professional development in Electronics, Communication and IT domains

Program Specific Outcomes

Engg. Graduates will be able to:

- PSO1 : Specify, design, build and test analog, digital and embedded systems
- PSO2 : Understand and architect wired and wireless analog and digital communication systems as per specifications, and determine their performance.