



**II ISSUE:25 ACADEMIC YEAR (2020-2021)**

## **DEPARTMENT OF ELECTRONICS AND COMMUNICATION**

### **Editorial Board:**

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### **Vision**

- Producing competent engineers with innovative ideas to meet the global needs and standards.

### **Mission**

- **M1.** To produce graduates with technical expertise, professional attitude & ethical values.
- **M2.** To reform the potency of Engineering through exploration-based learning.
- **M3.** To create a passion amongst students for contributing to research by providing industry-oriented training
- **M4.** To inculcate in the graduates, the thirst for self-learning & guide them to obtain knowledge in their chosen field

### **About the Department**



**Dr.T. N. Prabakar**

#### **Professor & Head**

Department of Electronics and Communication Engineering was established in the institution during 1997. The department is affiliated to VTU, Belgaum, approved by AICTE. The Department Offers UG courses, and has been recognized as “Research Centre” by VTU. The department is strengthened with qualified Professors, Associate Professors, Asst. Professors and technical staffs. Apart from the academic events department also oversees the overall development activities. The students are being provided with training, certification programs, industrial visits, periodic technical talks, workshops, conferences, empowering employability skills..

## Department Activities

### Funds

Sl. no	Project Title	Funding Agency	Amount	Principal Investigator	Co Principal investigator
1	FDP	VGST	Rs.2 lakhs	Prof. Aruna R	Prof. N.Santosh Kumar
2	Smart Dustbin for future management	VGST	Rs.3 lakhs	Dr. B. Srilatha	Prof H.R. Halesha
3	Medical Assistance Droid	VTU	Rs.5000	Dr. T. N. Prabhakar	-
4	Smart Irrigation with Robot	VTU	Rs.5000	Prof. Sivaprakash C	-

### Workshop / Seminar / Conference/ Technical Talks

- SDG quiz organized on 02.07.2020 & 07.07.2020



- Guest Lecture and Hands on program on “Digital Image Enhancement and Restoration Techniques using MATLAB 30.11.2020



Webinar – on “my story: how to become a successful entrepreneur on 17.12.2020

Guest Lecture on ‘VLSI DSP Architectures’  
12.11.2021

## Awards

- The team PHENOMS, ECE students has won first rank for the project titled “Medical Assistance Droid-Mental Health and Psychosocial Support” and ECE students have received “VISHWAKARMA AWARD” instituted by the Education Ministry of India in the year 2020.



- Dr. Srilatha B of team INCOGNITO 2020 is awarded with title as “MENTOR” for participating in “Smart India Hackathon 2020 under the journal name Journal of critical reviews.



## Paper Publications.

- Mr. Sivaprakash C, B Srilatha, Savitha.H.S, Deepa.R, G.V. Raja has published a paper titled “EXTRACTION OF EXUDATES USING IMPROVED MEDIAN FILTER AND IMPROVED FUZZY CLUSTERING METHOD” in the year August 2020 under the journal name Journal of critical reviews, indexed in SCOPUS.
- Dr. A.POONGUZHALI and SAVITHA.H. S have published a paper titled “BINARY SIFT INVARIANT FEATURE TRANSFORM FOR LARGE SCALE IMAGE SEARCH” in the year
- Mrs. P.Gowri, Mrs Geetha .R, Mrs Suganya J.,Ms. K P LinijaShylin,has published a paper titled “Early Glaucoma Diagnosis using Fundus Images -Review” in the year 2020 under the journal name Journal of critical reviews, indexed in SCOPUS.
- DR. T.N. Prabakar has published a paper titled “Novel routing structure with local monitoring-Route scheduling and planning manager., in Ecological wireless Sensor network, Review” in the year NOV 2020 under the journal name Journal of Environmental protection and ecology reviews, indexed in SCI

**FDP's attended**

SI No	Name	Name of Event	Date	No of Days	Name of Institution
1	Mrs.A.Poonguzhali	mmWave Antenna Design and Testing For Biomedical Applications	19.10.2020	6	Raja Lakshmi Institute Of Technology , Chennai
2	Mrs.A.Poonguzhali	Data Sciences	9.7.2020	5	All India Council For Technical Education , New Delhi
3	Mrs.A.Poonguzhali	Block Chain	12.7.2020	5	All India Council For Technical Education , New Delhi
4	Dr.A.Poonguzhali	Research And Development Activities	28.12.2020	3	Sri Sairam College Of Engineering , Bengaluru
5	Dr.A.Poonguzhali	Intellectual Property	14.12.2020	6	CMR Institute Of Technology , Bengaluru
6	Mr.P.Venugopal	Research Trends In Computer Science And Engineering	14.12.2020	6	Sri Dharmasthala Manjunatheshwara College Of Engineering And Technology
7	Mr.P.Venugopal	Creative Thinking	24.11.2020	5	ICT Academy
8	Mr.Santhosh Kumar.N	Data Science In Digital Economy	16.8.2020	4	Vidyavardhaka College Of Engineering , Mysuru
9	Dr.Prabhakar.T.N	Universal Human Value On The Theme	21.9.2020	5	All India Council For Technical Education , New Delhi
10	Dr.A.Poonguzhali	Advanced Excel With Data Visualization	2.2.2021	7	E And ICT Academy , IIT Knapur
11	Mr.Santhosh Kumar.N	Advanced Excel With Data Visualization	2.2.2021	7	E And ICT Academy , IIT Knapur
12	Dr.A.Poonguzhali	Full Stack AI and Deep Learning Practitioner Approach	7.6.2021	13	KL College Of Engineering , Andhra Pradesh
13	Dr.A.Poonguzhali	World Education Summit 2021 : Beyond Pandemic	7.6.2021	7	Aarupadai Institute Of Technology
14	Dr.A.Poonguzhali	Research Perspective On AI , ML , Data Science And IOT	17.5.2021	20	KL College Of Engineering , Andhra Pradesh
15	Dr.A.Poonguzhali	Advances In Photonics And Fiber Optics Technologies	21.6.2021	2	IEEE Photonics Society Madras Chapter
16	Dr.A.Poonguzhali	Including Universal Human Values In Technical Education	31.5.2021	5	All India Council For Technical Education , New Delhi
17	Dr.A.Poonguzhali	Enhancing Research And Teaching Capabilities	25.3.2021	6	Jain College Of Engineering , Bengaluru
18	Dr.A.Poonguzhali	Modern Wireless Communication Systems and Antenna Engineering With Experimental Learning	15.3.2021	6	National Institute Of Technology , Sikkim
19	Dr.A.Poonguzhali	Modern Antennas For Present and Futuristic Wireless Communication Technology	8.3.2021	6	National Institute Of Technology , Sikkim
20	Dr.A.Poonguzhali	Digital Skill Development For Professionals	22.2.2021	6	BhivarabaiSawant Institute Of Technology And Research ,Pune



Sl No	Name	Name of Event	Date	No of Days	Name of Institution
21	Dr.A.Poonguzhali	Deep Learning For Image Processing	28.1.2021	2	Pondicherry University School Of Engineering And Technology
22	Dr.A.Poonguzhali	Applications Of Deep Learning Techniques In Remote Sensing For Monitoring	1.2.2021	6	Sethu Institute Of Technology , Tamilnadu
23	Mr.Raja.G.V	Mobile Application Development-18CSMP68	17.5.2021	9	Sri Sairam College Of Engineering , Bengaluru
24	Mr.Raja.G.V	Machine Learning And Big Data For Agriculture	22.2.2021	6	Adhiyamaan College Of Engineering , Hosur
25	Mrs.Vinutha.G	Enhancing Research And Teaching Capabilities	25.3.2021	5	Jain College Of Engineering , Bengaluru
26	Dr.Prabhakar.T.N	Enhancing Research And Teaching Capabilities	25.3.2021	5	Jain College Of Engineering , Bengaluru
27	Mr.Halesha.H.R	Artificial Intelligence And Machine Learning	22.3.2021	6	AMC Engineering Colege , Bengaluru

### Patent Filed

Sl No	Patent No.	Status of Patent (Published / Granted)	Inventor/s Name	Title of the Patent	Applicant/s Name	Patent Filed Date (DD/MM /YYYY)	Patent Published Date / Granted Date (DD/MM/ YYYY)
1	20204105 6173 A	Published	1.Dr.B.Shadaksharappa 2.Dr.R.Arun Kumar 3.Dr.T.N.Prabakar 4.Dr.Gangavathi P 5.Sivaprakash . C 6.Bheemeswara Reddy 7.Malini.K V 8.Balaji. V 9.Dr.P.Bindu Madhavi 10.Raghavendra Rao B Kulkarni	Smart beam forming on Visible Light Communication to secure the Network against Eavesdropping from Anonymous Location	1.Dr.B.Shadaksharappa 2.Dr.R.Arun Kumar 3.Dr.T.N.Prabakar 4.Dr.Gangavathi P 5.Sivaprakash . C 6.Bheemeswara Reddy 7.Malini.K V 8.Balaji. V 9.Dr.P.Bindu Madhavi 10.Raghavendra Rao B Kulkarni	24-12-2020	01-01-2020
2	20214100 0443A	Published	1.Sivaprakash.C 2.Dr.B.Shadaksharappa 3.Halesha.HR 4.VenugopaI.P 5.Aruna.R 6.Santosh Kumar. N 7.Savitha HS 8. Vinay Kumar Tivari	A Portable Apparatus for cadmium removal from battery wastes	1.Sivaprakash.C 2.Dr.B.Shadaksharappa 3.Halesha.HR 4.VenugopaI.P 5.Aruna.R 6.Santosh Kumar. N 7.Savitha HS 8. Vinay Kumar Tivari	5-1-2021	8-1-2021
3	20214100 0446A	Published	1.sivaprakash C 2.Dr.B.Shadaksharappa 3.Dr.T.N.prabakar 4.Dr.B.Srilatha	ATouchlessFlu shingHealthcar e Monitoring Apparatus	1.sivaprakash C 2.Dr.B.Shadaksharappa 3.Dr.T.N.prabakar 4.Dr.B.Srilatha 5.Dr.A.Poonguzhali 6.Savitha HS 7.K.P.Linija	5-1-2021	8-1-2021
4	20214100 0445A	Published	1.Sivaprakash.C 2.Dr.B.Shadaksharappa 3. Dr. T.N. Prabakar 4.Raja.GV 5. Santosh Kumar. N 6. Venugopal.P 7.Halesha.H.R 8.Vinay Kumar Tivari	AN lot Based Drone on sewage watertesting Process	1.Sivaprakash.C 2.Dr.B.Shadaksharappa3 . Dr. T.N. Prabakar 4.Raja.GV 5. Santosh Kumar. N 6. Venugopal.P 7.Halesha.H.R 8.Vinay Kumar Tivari	5-1-2021	8-1-2021

5	20214100 0444 A	Published	1.Sivaprakash.C 2.Dr.B.Shadaksharappa 3.Dr.B.Srilatha 4. Dr.A.Poonguzhali 5.Raja.GV 6.Aruna.R 7.K.P.Linija	An Adaptive Technique Digital Signal Filtering for Image Processing	1.Sivaprakash.C 2.Dr.B.Shadaksharappa 3.Dr.B.Srilatha 4. Dr.A.Poonguzhali 5.Raja.GV 6.Aruna.R 7.K.P.Linija	5-1-2021	8-1-2021
6	20214100 0446 A	Published	1.sivaprakash C 2.Dr.B.Shadaksharappa 3.Dr.T.N.prabakar 4.Dr.B.Srilatha 5.Dr.A.Poonguzhali 6.Savitha HS 7.K.P.Linija	A IOT Integrated Wearable Patient Healthcare Monitoring Apparatus	1.sivaprakash C 2.Dr.B.Shadaksharappa 3.Dr.T.N.prabakar 4.Dr.B.Srilatha 5.Dr.A.Poonguzhali 6.Savitha HS 7.K.P.Linija	5-1-2021	8-1-2021

### MOU initiatives

Organisation with which MoU is signed	Year of signing MoU	Duration	List the actual activities under each MOU year wise
M/S Ed GATE TECHNOLOGIES PVT Ltd.	Signed on 23/12/2015 Renewed on 10/01/2019	Active (No expiry)	Workshop on Embedded Systems Design using MSP430
GENED TECHNOLOGIES	Signed on 28/11/2019	Active (No expiry)	Workshop on Design Thinking

### Faculty Achievements

Name of the activity	Name of the Award/ recognition	Name of the Awarding government/ government recognised bodies	Year of award
All India students committee (AISC) & Hosur Local Center	Best Faculty Advisor Award (Dr. T.N.Prabakar)	The Institution of Engineers India	2021

### Students Papers Presentation

Name of the Student	Title of the Paper	Venue	Date
Tejaswini M Supriya K	Future of smart farming robotic technology	BIET, Davangere	10 <sup>th</sup> June 2021

## Placement

The Following list of companies recruited the students of ECE during the academic year 2021.

<b>Name of the company</b>	<b>No.of students selected</b>
Bright Champs	3
Capgemini	1
Byjus	4
Co-forg	6
Emtec	1
HashedIN	1
JUSPAY	2
Netcracker	2
Pinclick	3
Prodapt	1
TCI Tech	2

## Student Topper List

<b>Student Name</b>	<b>USN</b>	<b>Year</b>
Akshay S	1SB20EC002	II
RakshithaVenkatesh	1SB19EC040	III
Monisha S M	1SB18EC028	IV