

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**Dr. Hadimani HC**, Professor and HOD, department of ECE, Principal Investigator (PI) & **Dr. Praveen J**, Professor, department of ECE as Co-Principal Investigator (Co-PI) submitted **Proposal to VGST-FDP for 2 lakhs on 20/2/2021** to conduct 4-Days **“Faculty Development Program in Recent Trends in Nano MEMS/NEMS Technology”** at GM Institute of Technology, Davangere in association with **NanoSniff Technologies Pvt. Ltd.** F-14, 1st Floor, IITB Research Park, Old CSE Building, IIT Bombay, Powai, Mumbai – 76



**Dr. Praveen J**, Professor, department of ECE being the Institute level **National Institutional Ranking Framework (NIRF)** Coordinator, **Mr. Harisha GC**, Assistant Professor, department of ECE & **Mr. Chetan BV**, Assistant Professor, department of ECE are the Co-coordinators have successfully submitted NIRF ranking for the academic year 2020-21 on 29<sup>th</sup> January 2021 with the permission of the Head of the Institute.

**Dr. Praveen J**, Professor, department of ECE, guided student **Mr. Pavankumar YM**, 3<sup>rd</sup> year, department of ECE got selected in MAGIC’s **Atmanirbhar Bharat** Innovation Challenge 2021 for the first round, conducted by **Government of India**. From India 93 colleges got selected in the first round, from Karnataka 12 Colleges, in which 10 colleges from Bangalore and 2 from GM Institute of Technology, Davangere.

**Dr. Praveen J**, Professor, department of ECE, Principal Investigator (PI) & **Dr. Hadimani HC**, Professor and HOD as Co-Principal Investigator (Co-PI), submitted **Proposal to VGST-FDP for 2 lakhs on 20/2/2021** to conduct 4-Days **“Faculty Development Program in Entrepreneurship and Start-Up Promotion”** at GM Institute of Technology, Davangere in association with **Atal Incubation Centre**, JITF, JITF Campus, Off Kanakapura Main Road, Thataguni, Bengaluru, Karnataka-560082.

**Dr. Praveen J**, Professor, department of ECE as Principal Investigator (PI) & **Mr. Rajashekhara Kunabeva**, Assistant Professor, department of ECE as Co-Principal Investigator (Co-PI), submitted a **Proposal to VGST-CISEE for 30 lakhs on 20/2/2021** for the title **“Development and Implementation of Sensor-based remote water valve and fertilizer dosage control system for agricultural applications”** in association with **Mobitech Wireless Solution Private Limited**, # 1/4 Vengamedu, Erode Road, Perundurai – 638052.



Slrshyln Educational Trust (R)

**GM INSTITUTE OF TECHNOLOGY**

Approved by AICTE | Affiliated to V.T.U.Belgaum | Recognized by Govt. of Karnataka



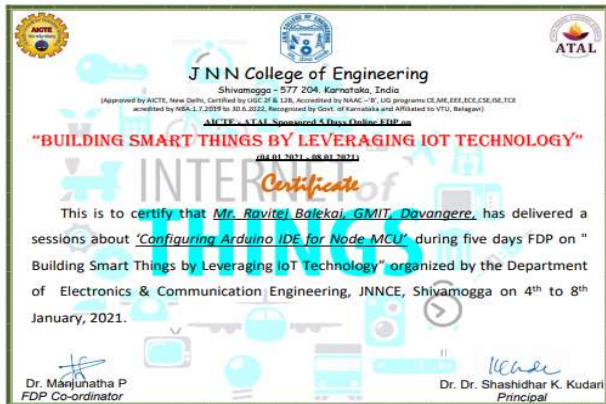
## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**Dr. Praveen J**, Professor, department of ECE as Principal Investigator (PI) & **Mr. Rajashekhara Kunabeva**, Assistant Professor, department of ECE as Co-Principal Investigator (Co-PI), submitted a **Proposal to VGST-FDP for 2 lakhs on 20/2/2021** to conduct 4-Days **"Faculty Development Programme on VLSI-IP Design Approach to SRAM compiler design"** at GM Institute of Technology, Davangere in association with **Semiconductor Design**, #49, Gedeelahalli, Sanhay Nagar, Bangalore.



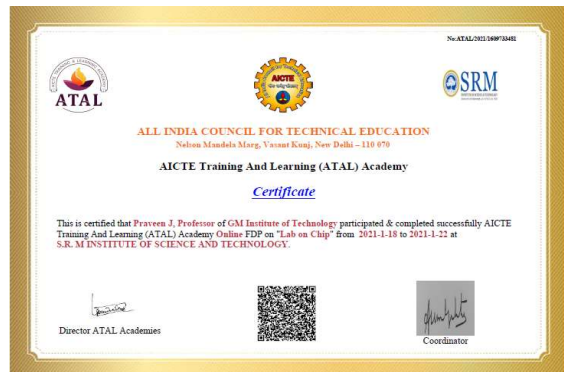
**Mr. Sampath Kumar B**, Assistant Professor, department of ECE, guided student **Aishwarya I G, Ashwini M K, Abhilasha M, Avinash Y**, final year, department of ECE got selected in MAGIC's **Atmanirbhar Bharat Innovation Challenge 2021** for the first round, conducted by **Government of India**. From India 93 colleges got selected in the first round, from Karnataka 12 College, in which 10 colleges from Bangalore and 2 from GM Institute of Technology, Davangere.

### FDPs



**Mr. Raviteja Balekai** had delivered a session about **"Configuring Arduino IDE for Node MCU"** during AICTE - ATAL Sponsored 5 Days Online on **"Building Smart Things by Leveraging IoT Technology"** organized by the Department of Electronics & Communication Engineering, JNNCE, Shivamogga on 4th to 8th January 2021

**Dr. Praveen J**, Professor, department of Electronics and Communication Engineering **Attended One-week AICTE Training And Learning (ATAL) Academy FDP on "Robotics"** conducted by Rajeev Gandhi Memorial College of Engineering and Technology, Andhra Pradesh from 5th to 9th January 2021. Cleared all the training assignments and test exams and received certificates.

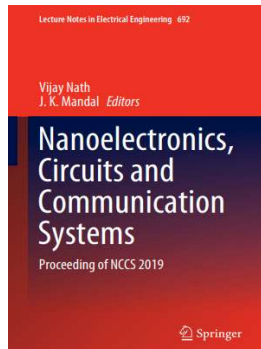




**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**PUBLICATIONS**

Mr.Santosh M. Herur and Dr. Hadimani H.C have published their article “Machine learning-Based Implementation of Image Corner detection using SVM algorithm for Biomedical Applications “as a book chapter in Springer book.



**Machine Learning-Based Implementation of Image Corner Detection Using SVM Algorithm for Biomedical Applications**

Santosh M. Herur, S. S. Kerur, and H. C. Hadimani

**Abstract** Support vector machine approach in machine vision with the help of OpenCV simulation tool is used for corner detection. Path of the maximum gray-level changes meant for every edge-pixel is calculated in the picture, this edge-pixel is represented by four-dimensional feature vectors. It is made up of count of the edge pixels in window center and has four directions since their maximum gray-level direction change. This feature vector and support vector are used for designing of support vector machine. For corner detection, it represents critical points in a classification. This algorithm is straight forward with less computational complexity. It has machine learning capability which gives good results.

**Keywords** Machine learning · Corner detection · SVM algorithm · Biomedical application

**PATENTS**

Table 1: Details of Patents filed by the faculty

Sl. No.	Applicant Name	Title	Application Number	Published Date
1.	Mr. Chetan B V Mr. Gururaj E	Mathematical Modeling of Parameters of Electrical Vehicles Using Matlab	202141002130	22-01-2021
2.	Dr. Praveen J Mr. Sampath Kumar Dr. Murugendrappa N	AI Based Crop yield prediction with efficient use of fertilizers using IoT	202141007297	22-02-2021