

## WHO CAN ATTEND?

The course will be beneficial to:

- Faculty members from ECE, CSE, and IT
- Members from industry, R & D
- PG students & research scholars pursuing PhD.

**REGISTRATION: Rs.100**

(Payment is after selection only)

**Registration link:**

<https://forms.gle/RnEEGKsVPNAxNiJF7>

**Online session timings:**

**2.00 p.m. to 5.00 p.m.**

## IMPORTANT DATES

Last date of submission : 28.06.2021  
of registration form

Workshop dates : 05.07.2021  
to  
10.07.2021



## ORGANISING COMMITTEE

### CHIEF PATRONS

**Sri. P. Ram Mohan Rao**  
President, Vasavi Academy of Education

**Sri. M. Krishna Murthy**  
Secretary, Vasavi Academy of Education

### PATRON

**Sri. P. Balaji**  
CEO, Vasavi College of Engineering

### CHAIRMAN

**Dr. S.V. Ramana**  
Principal

### CO-CHAIRMAN

**Dr. E. Sreenivasa Rao**  
Professor & Head, Department of ECE

### PROGRAMME COORDINATOR

**Dr. K. Veera Swamy**  
Professor, Department of ECE

### COORDINATION COMMITTEE

**Mr. M. Prashanth**  
Assistant Professor, Department of ECE

**Ms. R. Leelavathi**  
Assistant Professor, Department of ECE

**Mrs. Sk. Afroz Begum**  
Assistant Professor, Department of ECE

**Mrs. Ch. Neetu**  
Assistant Professor, Department of ECE

**Mr. N. Abid Ali Khan**  
Assistant Professor, Department of ECE

**Mr. B. Uma Mahesh Babu**  
Assistant Professor, Department of ECE

# One Week National Workshop on “Image Processing Applications using Machine Learning”

**(Online)**

**05<sup>th</sup> – 10<sup>th</sup> July 2021**



**Organized by**

**Department of Electronics and  
Communication Engineering**

**VASAVI COLLEGE OF ENGINEERING**

**(Autonomous)**

**(Accredited by NAAC with ‘A++’ Grade)  
(Sponsored by Vasavi Academy of Education Regd.)**

**(Approved by AICTE)**

**(Affiliated to Osmania University)**

**9-5-81, Ibrahimbagh, Hyderabad-500031.**

**Phone: +91-40-23146041**

**Website: <http://www.vce.ac.in>**

## ABOUT THE INSTITUTION

Vasavi College of Engineering Established in the year 1981 by Vasavi Academy of Education under the stewardship of Late Sri Pendekanti Venkata Subbaiah, a veteran statesman of independent India and by a few eminent people from different walks of life. Vasavi College of Engineering represents a rich tradition of excellence in technology-based education in a stimulating environment and is permanently approved by AICTE. Institute is accredited with A++ grade by NAAC in 2021. The college is situated at Ibrahimbagh, Hyderabad, which is 9 KM from Mehdiapatnam, enroute to Gandipet. In its three decades of existence, it has now grown with excellent and well-developed infrastructural facilities, offering 6 undergraduate programs, viz., B.E. in Civil, Mech., EEE, ECE, CSE and IT, and also five Postgraduate Programmes in CSE, MECH, EEE and ECE. The institution is conferred autonomous status by UGC in the year 2014. The facilities in the campus include a central library, workshops, science and engineering laboratories, centralized computational facility and departmental computer centres. The high-speed campus network connects all the departments and full access is provided to the internet, through 100 Mbps leased line internet connectivity.

## ABOUT THE DEPARTMENT

ECE Department is one of the departments which is functioning since the establishment of Vasavi College of Engineering in the year 1981. ECE department is reaccredited by NBA in the year 2017 for a period of 3 years and given one year extension up to 30<sup>th</sup> June 2021. Department consists of well qualified and experienced faculty. The department has 13 labs out of which 4 are advanced. The laboratories include the Basic Circuits and Workshop Lab, Electronic Devices Lab, Analog Electronic Circuits Lab, Integrated Circuits Lab, Communication (Analog and Digital) Lab, Microwave Engineering Lab, Digital Signal Processing Lab, Microprocessor and Microcontrollers Lab. The

advanced labs include VLSI Design Labs (equipped with Mentor Graphics Tools and Cadence Tools), Advanced Data Communications & Computer Network Lab established under CISCO Local Academy Program, and Communication Systems Simulation Lab equipped with latest equipment. The under graduate program of the department has a sanctioned intake of 180. The department is also offering two M.E Programmes with specializations in “Embedded systems & VLSI Design” and “Communications Engineering and Signal Processing” with an intake of 18 each. The Department also has been undertaking sponsored research projects and consultancy.

## VISION OF THE DEPARTMENT

Striving for excellence in teaching, training and research in the areas of Electronics and Communication Engineering.

## MISSION OF THE DEPARTMENT

To inculcate a spirit of scientific temper and analytical thinking and train the students in contemporary technologies in Electronics and Communication Engineering to meet the needs of the industry and society with ethical values.

## OBJECTIVES OF THE WORKSHOP

1. To train academicians and working professionals in industry on machine learning applications.
2. To give hands-on experience on machine learning using MATLAB.

## **Address for Correspondence**

### **Dr. K. Veera Swamy**

Professor, Department of ECE  
Vasavi College of Engineering (Autonomous)  
Ibrahimbagh, Hyderabad-31, Telangana  
Mobile : 9441916190 / 8074685552  
Email: [k.veeraswamy@staff.vce.ac.in](mailto:k.veeraswamy@staff.vce.ac.in)

## TOPICS OF THE WORKSHOP

- + Image processing fundamentals
- + Features identification
- + Implementation of supervised machine learning
- + Implementation of unsupervised machine learning
- + Image segmentation using K-means algorithm
- + Face recognition using SVM
- + Image classification using neural networks

**PLATFORM: Matlab**

## **RESOURCE PERSONS**

### **Mr. J. Prem Kumar**

Product Manager,  
MathWorks Education Solutions,  
Capricot Technologies Pvt. Ltd.

### **Dr. Ch. Srinivasa Rao**

Professor, ECE Department,  
University College of Engineering,  
Vizianagaram, JNTUK.

### **Dr. D. Jayadevappa**

Professor & Head, EIE Department,  
JSS Academy of Technical Education, Bangalore.

### **Dr. K. Veera Swamy**

Professor, ECE Department,  
Vasavi College of Engineering, Hyderabad.