

FACULTY COORDINATORS

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WHO SHALL ATTEND?

This course is intended for faculty members, industry personnel and research scholars. The motive is to enlighten them on start-of-the-art computer vision techniques and their implementation using Python.

REGISTRATION FEE

Registration is FREE. Participants are requested to register online (using the link given below) on or before 23rd July 2021.

https://docs.google.com/forms/d/e/1FAIpQLScTm_F1SEmw7AaRccl4nm1D2A6PhA1jqazufX4jzDJr0LhoPw/viewform?usp=pp_url

DURATION

There will be 15 sessions. Full schedule of the course is available at

<https://drive.google.com/file/d/1aP7Jpn1ZM8N6RpPKVP6mtSOWuhqgDSBJ/view?usp=sharing>

TOPICS TO BE COVERED

- Introduction to Python - Reading and understanding images
- Basic array operations on images using Python
- Spatial domain operations and image enhancement using Python
- Image segmentation and morphology using Python – Hands-on training
- Image classification using Python
- CNN for vision applications
- State-of-the-art Computer Vision Applications

RESOURCE PERSONS

Dr. Mohanraj Vengadachalam
Data Scientist
Renault-Nissan-Mitsubishi

Dr. John Sahaya Rani Alex
Associate Professor - Grade2, VIT - Chennai

Dr. Annis Fathima A.
Associate Professor - Grade2, VIT - Chennai

Dr. Sathiya Narayanan S.
Assistant Professor (Senior), VIT - Chennai



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(Deemed to be University under section 3 of UGC Act, 1956)

CHENNAI

**Centre for Healthcare Advancement,
Innovation and Research
&
School of Electronics Engineering**

Organizes

**Online FDP on
Python for Vision Techniques**

**26th – 30th July 2021
Venue: Online (Gmeet)**

REGISTRATION FORM

Name:
Designation:
Phone:
E-mail:
Institute:
Payment Details:
Amount:
Transaction Reference No:
Transaction Date:

Signature with Date



ABOUT CHAIR

The Centre for Healthcare Advancement, Innovation and Research aims in bringing a fresh perspective to the challenges of embedding health and social care innovations, and sustainability at large. The Centre actively succeeds to be at the forefront of cutting-edge advancements in teaching, training and research by setting an example in preserving lives and providing all technological solutions under one roof at an affordable cost. We bring together experts from a variety of disciplines across, including electronics engineers, bioengineers, computer scientists, chemists, healthcare professionals and clinicians.

ABOUT SENSE

The School of Electronics Engineering (SENSE) at VIT was established for imparting the state-of-the-art education, training and research in the field of Electronics and Communication Engineering and allied areas. It offers B.Tech. Programmes in Electronics and Communication Engineering and Electronics and Computer Engineering, M.Tech. Programmes in VLSI Design and Embedded Systems, and Ph.D. in the related domains of ECE. The expertise of the faculty

members includes VLSI Design, Communication Engineering, Embedded Systems, Nanoelectronics and Nano-technology, Photonics, Signal Processing, Machine Learning, Artificial Intelligence and Data Analytics.

ABOUT VIT CHENNAI

Founded in 1984, VIT has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application-oriented research. VIT was established with the aim to provide quality higher education on par with International Standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. VIT was established by well-known educationalist and former parliamentarian, Dr. G. Viswanathan, Founder and Chancellor, a visionary who transformed VIT into a centre of excellence in higher technical education. Govt. of India recognized VIT as an Institution of Eminence (IoE). VIT Chennai is ably spearheaded by Mr. Sankar Viswanathan, Vice President, Ms. Kadhambari S. Viswanathan, Assistant Vice President, Dr Rambabu Kodali, Vice Chancellor and Dr. V. S. Kanchana Bhaaskaran, Pro Vice Chancellor. They share in the mission to make VIT a global centre towards academic and research excellence. The focus is:

- To maximize the interactive Industrial Connectivity
- To create Centres of Excellence in niche areas
- To enrich Technological and Managerial Human Capital nurtured in a multicultural ambience
- To provide a common platform for the agglomeration of ideas of personnel from various walks of life for learning enrichment
- To create opportunities and exploit the available resources to benefit industry and society
- To encourage participation in the National Agenda of knowledge building
- To foster International collaborations for mutual benefits in areas of research.



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Organized by

Dr. John Sahaya Rani Alex

Dr. A. Annis Fathima

Vellore Institute of Technology (VIT), Chennai

***VIT – Recognised as Institution of Eminence (IoE) by
Government of India***

VIT – A place to learn; A chance to grow