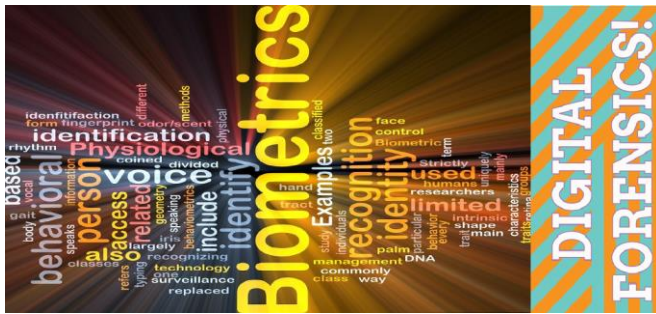




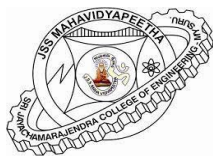
AICTE Training and Learning (ATAL)  
Academy Sponsored Five-Day Online FDP  
on

## An Insight into Biometrics for Digital Forensics

20<sup>th</sup> – 24<sup>th</sup> September, 2021



Organized by



Department of Computer Applications  
Sri Jayachamarajendra College of Engineering  
JSS Science and Technology University  
JSS Technical Institutions Campus,  
Mysuru - 570006, INDIA

### Chief Patron

His Holiness Jagadguru  
**Sri Shivarathri Deshikendra Mahaswamiji**  
President, JSS Mahavidyapeetha, Mysuru

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**Dr. S.B. Kivade**  
Principal, Sri Jayachamarajendra College of  
Engineering

**Dr. V.N. Manjunath Aradhya**  
Head, Dept. of Computer Applications

### Course Objectives:

The main objective of this 5-day workshop is to give an insight into biometrics for digital forensic applications to the participants. This workshop provides a platform to showcase the role of Biometrics in Digital Forensics considering real time applications and helps to build awareness towards various architectures in implementing the algorithms and to resolve the challenges in Digital Forensics. The main aim is to build technical capacity in the area of Computer Vision, Image Processing and specific to biometrics and digital forensic.

### Learning Outcomes

- This program has been designed to give participants an insight into multimodal biometrics and its application in digital forensic investigation process.
- The participants will also have a wider perspective to biometrics and digital forensics from both technology and legal point of view.
- This program intended to educate participants on existing modern biometric and digital forensic tools.
- This program will create a platform to the participants to propose ideas for improving biometrics (soft & hard) and forensic technology for future.
- Presents some applications where the principles of biometrics are being successfully leveraged into forensics in order to solve critical problems in the law enforcement domain.

### Who can Register?

Faculty members, Industry personnel, PG Students, and Researchers who are interested in the areas of Biometrics and Digital Forensics.

**FREE REGISTRATION**

## Online Registration Link:

<https://atalacademy.aicte-india.org/login>

## Important Dates

September 16<sup>th</sup>, 2021: Last Date for receipt of application through Online.

September 18<sup>th</sup>, 2021: Intimation of selection (by e-mail)

## Why do you need to attend this Programme?

Biometrics is a fundamental verification mechanism that identifies individuals on the basis of their physiological and behavioral features. These biometric expansions are easily observable in different forensic identification areas, e.g. face, fingerprint, iris, voice, handwriting, gait, DNA etc. Multimodal biometrics allows the integration of two or more than two biometric recognition and verification systems in order to enhance performance requirements of identification. The emergence of forensic biometrics covers a wide range of applications for physical and cybercrime detection. Hence, both biometrics and forensics are considered to be future technologies due to their direct impact on solving many societal problems and to be the most active areas of research.

The proposed five day course comprises lectures followed by demonstrations and hands-on sessions. The course also covers essentials of machine learning, deep neural networks as well as the other models that can be applied to solve practical problems in digital forensics using biometrics.

## Sri Jayachamarajendra College of Engineering(SJCE)

Sri Jayachamarajendra College of Engineering (SJCE), conceived in 1963, is the dream child of Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamigalavaru, the 23rd pontiff of Sri Suttur Mutt. It comes under the aegis of JSSMVP. As one of the leading institutes in India, SJCE has been recognized under the TEQIP and also accredited by National Board of Accreditation (NBA). The institution also has the reputation of academic, excellence in professionally oriented programs and equal proficiency in extra-curricular activities, which makes it a lucrative option for students from all over the country.

## Dept. of Computer Applications

Department of Computer Applications has been established to design and offer courses (MCA and BCA) with the objectives of producing the best computer professionals to keep swiftness with the R & D activities in this fast-emerging field of computer applications. Ever since its inception in 1986, the department strives to meet the computing needs of different sectors and offering

specially designed courses to their students. The department always strives to provide an updated curriculum as per the changing requirements of the industry by its highly effective and qualified board of studies committee which involves qualified members from industry, research institutes, and academia. With having more than 70 percent placements in reputed companies the department has also witnessed students in promoting start-ups and higher studies.

## General Instructions

- This FDP emphasizes learning online with hands-on experience.
- The certificates shall be issued to those participants who have attended the program with minimum 80% of attendance. Digital certificate will be issued from AICTE, Government of India.
- Participants will be selected based on first come first serve basis due to the limit in number of participants.

## Programme Co-ordinator

**Dr. H.R. Chennamma**

Associate Professor

Dept. of Computer Applications

Sri Jayachamarajendra College of Engineering

JSS Science and Technology University

Mysuru-6, India

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**JSS Science and Technology University**  
**Sri Jayachamarajendra College of Engineering**  
**DEPARTMENT OF COMPUTER APPLICATIONS**  
**An Insight into Biometrics for Digital Forensics**



20<sup>th</sup> - 24<sup>th</sup> September 2021

**Program Schedule**

Date and Day	10.00 AM to 11.30 AM	Refreshment Break (11.30 AM to 12.00 PM)	12.00 PM to 1.30 PM	Lunch Break (1.30 PM to 2.30 PM)	2.30 PM to 4.00 PM
20/09/2021 Monday	<p style="text-align: center;"><b>Inauguration</b>            Keynote Address  <b>Dr. Gaurav Gupta</b>            Additional Director &amp; Scientist 'E'            Ministry of Electronics &amp; IT,            Govt. of India, Delhi</p>		<p style="text-align: center;"><b>Digital Forensics and Biometrics in Cyber Security</b>  <b>Mrs. Shubhamangala Sunil</b>            CEO &amp; Founder            GCSRT Pvt. Ltd., Bengaluru</p>		<p style="text-align: center;"><b>Biometric Traits and their Challenges from Forensic Perspective</b>  <b>Dr. B.S. Harish</b>            Professor            JSS STU, Mysuru</p>
21/09/2021 Tuesday	<p style="text-align: center;"><b>Signature Biometric: Verification and Recognition</b>  <b>Dr. D.S. Guru</b>            Professor &amp; Chairman            University of Mysore, Mysuru</p>		<p style="text-align: center;"><b>Biometrics in Cyberspace</b>  <b>Dr. K.M. Anil Kumar</b>            Assoc. Professor &amp; Assoc. Dean (RAA)            JSS STU, Mysuru</p>		<p style="text-align: center;"><b>Personality Development Perspectives</b>  <b>Col. Prof. Dr. Jyotirmaya Satpathy</b>            Neuro Management Researcher,            Bhubaneswar</p>
22/09/2021 Wednesday	<p style="text-align: center;"><b>Digital Security, Forensics and Fake Biometrics</b>  <b>Dr. H.R. Chennamma</b>            Associate Professor            JSS STU, Mysuru</p>		<p style="text-align: center;"><b>Biometric Security and Network Forensics</b>  <b>Dr. Priyanka Sharma</b>            Professor &amp; Dean (Res. &amp; Pub.)            Rashtriya Raksha University,            Gujarat</p>		<p style="text-align: center;"><b>Forged Text Detection in Video, Scene and Document Images</b>  <b>Dr. Shivakumara P.</b>            Associate Professor            University of Malaya,            Malaysia</p>
23/09/2021 Thursday	<p style="text-align: center;"><b>Handwritten Signature Verification: Research Avenues</b>  <b>Dr. R.K. Bharathi</b>            Associate Professor            JSS STU, Mysuru</p>		<p style="text-align: center;"><b>Deep Learning for 3D Biometrics</b>  <b>Dr. Surya Prakash</b>            Associate Professor            IIT Indore,            Madhya Pradesh</p>		<p style="text-align: center;"><b>Voice Forensics</b>  <b>Dr. M.A. Anusuya</b>            Associate Professor            JSS STU, Mysuru</p>
24/09/2021 Friday	<p style="text-align: center;"><b>Few Shot Learning: A Perspective on Handwritten Recognition</b>  <b>Dr. V.N. Manjunath Aradhya</b>            Associate Professor &amp; HoD            JSS STU, Mysuru</p>		<p style="text-align: center;"><b>Few Shot Learning: A Practical Approach</b>  <b>Dr. V.N. Manjunath Aradhya</b>            Associate Professor &amp; HoD            JSS STU, Mysuru</p>		<p style="text-align: center;"><b>Valedictory Ceremony</b></p>