

IAF-AVADI, CHENNAI - 55

DEPARTMENT OF INFORMATION TECHNOLOGY

CIRCULAR

Date: 02-02-2021

Department of Information Technology plans to conduct a Value added Course certification on "Image Processing with MATLAB" by Mr. S. Senthilraj, Elbound Systems Pvt Ltd for the beneficiaries are our II, III and Final Year IT students.

This Course is Scheduled from February 08, 2021 to February 26, 2021. All students must attend all classes without fail. Students who complete the course successfully will get certificates.

HEAD/IT

Copy to:-

- 1. Principal.
- 2. IQAC
- 3. Resource Person
- 4. IT Faculty Members
- 5. II, III & IV year IT Whatsapp group
- 6. Hostel/Transport Supervisor
- 8. Campus Manager
- 9. Campus Engineer

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



JHAMMED SALEGH

Approved by AICTE and Affiliated to Anna University Chennai











TNEA Counselling CODE: 1101

Welcome to the Department of **Information Technology**

VALUE ADDED COURSE

"Image Processing with MATLAB"

FROM 08-02-2021 to 26-02-2021

> **RESOURCE PERSON** Mr. S. Senthilraj **Elbound Systems Pvt Ltd**



Prof.Dr.S.Sathish

Principal

Alhaj S Segu Jamaludeen

Secretary & Correspondent

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DEPARTMENT OF INFORMATION TECHNOLOGY VALUE-ADDED COURSE- SUMMARY REPORT



Date: 8-2-2021 to 26-02-2021

Time: 4 PM TO 7 PM

Mode of Conduction: Offline

Speaker: S. Senthilraj

Students Attended: 72

Objective of the Course:

- Understand the fundamentals of image processing techniques and their applications across various domains.
- Gain proficiency in using MATLAB for image manipulation, enhancement, segmentation, and classification.
- Develop practical skills in implementing key image processing tasks and algorithms using MATLAB's tools and functions.

Summary of the course: This course provides a comprehensive introduction to image processing using MATLAB, covering basic to advanced techniques and their practical applications. Participants will learn to utilize MATLAB's Image Processing Toolbox and deep learning capabilities for analyzing and manipulating images, preparing them to address complex challenges in image analysis and recognition.

Course Outcomes:

Upon successful completion of this course, students should be able to:

- Understand the principles and applications of image processing using MATLAB.
- Utilize MATLAB for various image processing tasks including enhancement, segmentation, and classification.
- Gain practical experience in implementing advanced image processing techniques and exploring emerging trends in the field.

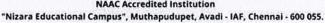


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Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai **NAAC Accredited Institution**

ANNA UNIVERSITY COUNSELLING CODE: 1101





Place: Chennai Date: 27-01-2021

From

Head of the Department Department of Information Technology Aalim Muhammed Salegh College of Engineering Avadi IAF, Muthapudupet Chennai - 600055

To

The Principal Aalim Muhammed Salegh College of Engineering Avadi IAF, Muthapudupet Chennai - 600055

Respected Sir,

Sub: Requisition for the approval to conduct Value Added course in our IT department – Reg.

Resource Person: Mr. S. Senthilraj, Elbound Systems Pvt Ltd.

We wish to conduct Value Added course in our IT department on the topic "Image Processing with MATLAB" an Alumni Guest Lecture Series from 08-02-2021 to 26-02-2021.

The objective of conducting this Value Added course will give the industry focus in developing skills required by using latest technology advancement in "Image Processing with MATLAB". This effort will benefit our Student's community and bring core strength in engineering field.

Thank you.

Yours truly,

PRINCIPAL **AALIM MUHAMMED SALEGH** COLLEGE OF ENGINEERING

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IAF-AVADI, CHENNAI - 55 DEPARTMENT OF INFORMATION TECHNOLOGY



Certificate Course Details

Course Name: IMAGE PROCESSING WITH MATLAB

Date: 8/2/2021 to 26/02/2021

Week	Content	Total Hours/Week
1	 Introduction to Image Processing and Basic Techniques Introduction to image processing: Concepts, challenges, and applications Overview of MATLAB for image processing: Key functions and capabilities Image representation in MATLAB: Handling image data, grayscale vs. color images Image enhancement techniques: Histogram equalization, contrast adjustment Filtering in image processing: Spatial vs. frequency domain filters Overview of MATLAB's Image Processing Toolbox 	15
2	 Advanced Image Processing Techniques and Applications Image segmentation methods: Thresholding, region-based segmentation Applications of image segmentation in object detection and medical imaging Feature extraction from images: Shape descriptors, texture features Image classification techniques: Supervised vs. unsupervised learning approaches Applications of image classification in pattern recognition and remote sensing Future trends in image processing: Deep learning advancements, image synthesis 	15
	Total Hours	30







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"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.
ANNA UNIVERSITY COUNSELLING CODE: 1101

Value Added Course Tentative Time Table And Schedule

Value Added Course Name: Image Processing with MATLAB

Date of Commencement: From 08-02-2021

Timing: 4 PM TO 7 PM

Tentative Date of Exam- 26-02-2021

Tentative Course Schedule - 08-02-2021 to 26-02-2021 (As per following)

No. of Weeks: 2 No. Of Days: 10

Course Hours: 30

Speaker: Mr. S. Senthilraj

- 1. Module -1: **Introduction to Image Processing and Basic Techniques** 08-02-2021 to 12-02-2021 (5 Days) 15 Hours
- 2. Module -2: Advanced Image Processing Techniques and Applications 22-02-2021 to 26-02-2021 (5 Days) 15 Hours



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PA PACIFICATION OF THE AD/IT



ECI-202121320

03.03.2021

COURSE CERTIFICATE

This is to certify that AADHISITHAN.R has done his course in Image Processing with MATLAB at Elbound Systems Pvt Ltd, Chennai, from 08.02.2021 to 26.02.2021. During his course he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

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We wish him all the best for his upcoming career.

DIRECTOR



PRINCIPAL
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COLLEGE OF ENGINEERING



ECI-202121321

03.03.2021

COURSE CERTIFICATE

This is to certify that AYEESHA KHATOON B has done his course in Image Processing with MATLAB at Elbound Systems Pvt Ltd, Chennai, from 08.02.2021 to 26.02.2021. During his course he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him all the best for his upcoming career.

DIRECTOR



PRINCIPAL AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING



ECI-202121322

03.03.2021

COURSE CERTIFICATE

This is to certify that **DHANISHA** R has done her course in **Image Processing** with **MATLAB** at Elbound Systems Pvt Ltd, Chennai, from 08.02.2021 to 26.02.2021. During her course she has demonstrated her skills with self-motivation to learn new skills. Her performance exceeded our expectations and he was able to complete the project on time.

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We wish her all the best for her upcoming career.

DIRECTOR



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AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING



ECI-202121323

03.03.2021

COURSE CERTIFICATE

This is to certify that JAFAR SHAREEF.U has done his course in Image Processing with MATLAB at Elbound Systems Pvt Ltd, Chennai, from 08.02.2021 to 26.02.2021. During his course he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him all the best for his upcoming career.

DIRECTOR

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