



### 6.3.5 Institutions Performance Appraisal System for teaching and non-teaching staff

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S.No	Description	Page Number
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**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**Mohamed Sathak AJ College of Engineering, Chennai - 603 103**

**Faculty Appraisal Form**

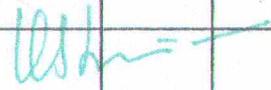
Name					
Father / Husband Name :				Occupation:	
DOB :	AGE :	Gender : Male / Female			
Present Address :	Permanent Address :				
Contact No:			Mail Id:		
Department					
Designation					
Date of Joining in this Institution:					

**Academic Qualifications**

Name of the Degree	College & University	Specialization	Month & Year of Passing	(%) Marks & Class	Mode*
Ph.D					
M.Phil					
PG					
UG					
Diploma					

**Professional Experience**

Name of the Institution / Industry	Period	Designation	Years	Total Years



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Publication						
Total No.of Papers Published in Current AY		National :		International:		
Total No.of Papers Presented in Conference		National :		International:		
No.of Books Published :		Patents / IPR :				
I. Academic Achievements (25%)						
(a) Theory Subjects Handled (10%)						
Semester / Yr / Branch	Subjects Handled	Registered	Pass	Absent / Fail	% of Pass	Students Feedback
(b) Student's Projects guided (10%)						
Title of the Project		Outcome if any		Publication if any		
II Self Growth (15%) (STTP / Conf / Workshop / Guest Lecture / Seminar / Projects / NSS / YRC) Organised /Attended						
Title of the Programme	Organized By		Duration	Sponsored By		
III Department Development Activities (15%)						
Responsibilities Undertaken in department level	Learned / Achieved			Remarks		

  
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1.2.9

IV Institutional Development (15%)			
Responsibilities Undertaken in College level	Learned / Achieved		Remarks
V Professional Memberships (05 %)			
Name of the Professional Society - Enrolled	Activity Conducted / Attended	Period	Outcome
VI Industry – Institute Interaction Activities (10%)			
Type of Activities	Name of the Industry	Outcome	Contact Person
Industrial Visit / Internship / Training Organised & Attended			
Industrial Project Undertaken if any			
MOU signed & Other Relationship			
Guest lecture , Seminar , Workshop & Conference Organized & Attended			
VII Research & Development (10%)			
Name of the University, RegisterNo, File No & Date of Registration ( Ph.D)	Name of the Guide	Name of the Faculty / Dept	Status of the Progress
Title of the Project, File No, Period, Amount Sanctioned	Investigator Details	Sponsoring Authority	Status of the Project
VIII. Publication of Conference/Research Papers/Articles (10%) (Attach a copy of Publication)			
Title of the Paper	Authors	Type of Journal	Year, Volume & Issue No

*Wsh*

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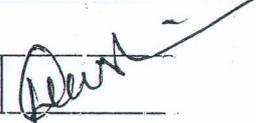
Consolidated Report			
Sl.No	Category	Marks Awarded	Marks Obtained
I	Academic Achievements	20	
II	Self Growth	15	
III	Department Development	15	
IV	Institutional Development	15	
V	Professional Membership	5	
VI	Industry Institute Interaction Activity	10	
VII	Research & Development	10	
VIII	Publications	10	
	Total	100	
Supporting Documents Required		1. Relevent Documents to support all claims as annexure 2. Copy of all publication	
Signature of the Faculty		Signature of Review Committee	

Format No :247

  
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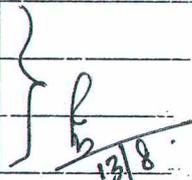
## Faculty 360° Feedback

Name of the Faculty	Dr. D. Weslin		
Designation / Dept	Associate Professor/IT		
Academic Year	2023-24	Signature of the Faculty	

### Academics - Results (Max Points 20)

S. No.	Semester	Course Code / Name (Theory Courses only)	Total no of Students			Points Secured	Verified by
			Registered	Pass	% of Pass		
1	III	AD3491/ Fundamentals of Data Science and Analytics	19	16	84	16	
2	VII	CS8079/ Human Computer Interaction	53	41	77	12	
3	VI	CS8091/ Big Data Analytics	55	30	54.55	4	
4							
<b>Average</b>						<b>10.67</b>	

### Students' feedback (Max Points 10)

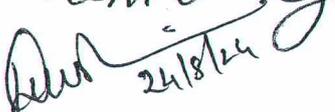
S. No.	Semester	Course Code/ Name	Feedback score out of 5 Marks	Feedback on the scale of 10 marks	Verified by
1	III	AD3491/ Fundamentals of Data Science and Analytics	3.69	8	 12/8
2	VII	CS8079/ Human Computer Interaction	4.31	10	
3	VI	AD3491/ Fundamentals of Data Science and Analytics	3.56	8	
4					
<b>Avg</b>				<b>8.67</b>	

### Departmental Activities (Max Points 20)

S. No.	Semester	Activity	Credit Point			Criteria	Enclosure no.
			Odd	Even	Avg		
1	1	FDP Organized	3	0	1.5		1
2	2	FDP Attended	0	2	1		2
3	1 & 2	Professional Society Activity	3	3	3		3
4		Online Course Completion (IIC-IA)	3	3	3		4,5
5		Mentor for Hackathan/Conference	3	3	3		
<b>Total:</b>					<b>11.5</b>		

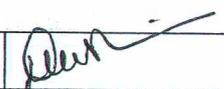
  
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 Mohamed Sathak A.J. College of Engineering  
 No. 31, Rajiv Gandhi Salai (OMR)  
 Sector - IT Highway Egattur,  
 Chennai - 603 103.

Feedback :  
 Good, Need more involvement in mentoring junior faculties.

24/8/24  
  
 24/8/24

## Mohamed Sathak AJ College of Engineering, Chennai - 603 103

### Faculty 360° Feedback

Name of the Faculty	Dr. D. Weslin		
Designation / Dept	Associate Professor/IT		
Academic Year	2023-24	Signature of the Faculty	

#### Academics - Results (Max Points 20)

S. No.	Semester	Course Code / Name (Theory Courses only)	Total no of Students			Points Secured	Verifica
			Registered	Pass	% of Pass		
1	III	AD3491/ Fundamentals of Data Science and Analytics	19	16	84 ✓	16	} 31/7
2	VII	CS8079/ Human Computer Interaction	53	41	77 ✓	12	
3	VI	CS8091/ Big Data Analytics	55	30	54.55 ✓	4	
4							
<b>Average</b>						10.67	

#### Students' feedback (Max Points 10)

S. No.	Semester	Course Code/ Name	Feedback score out of 5 Marks	Feedback on the scale of 10 marks	Verified b.
1	III	AD3491/ Fundamentals of Data Science and Analytics	3.69 ✓	8	} 31/7
2	VII	CS8079/ Human Computer Interaction	4.31 ✓	10	
3	VI	AD3491/ Fundamentals of Data Science and Analytics	3.56 ✓	8	
4					
<b>Avg</b>				3.67 ✓	

#### Departmental Activities (Max Points 20)

S. No.	Semester	Activity	Credit Point			Criteria	Ench nc
			Odd	Even	Avg		
1	1	FDP Organized ✓	3	0	1.5		1
2	2	FDP Attended ✓	0	2	1		2
3	1 & 2	Professional Society Activity ✓	3	3	3		3
4		IIC Online Course Completion - IA ✓	3	3	3 ✓		4.5
5		Mentor for Hackathan/Conference ✓	3	3	3		
<b>Total</b>					11.5		

  
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 Chennai - 603103.



**MOHAMED SATHAK**  
**A.J. COLLEGE OF ENGINEERING**  
 34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



REPORT ON EVENT

<b>Department:</b>	CSE & IT	
<b>Type of Event:</b>	FDP	
<b>Event Title:</b>	Cloud Solutions and Architect-AWS	
<b>Date &amp; Time:</b>	27-11-23 To 1-12-23	
<b>Venue / Mode (Platform):</b>	RPA LAB	
<b>Organizer:</b>	Dr.D. Weslin	
<b>Coordinator(s):</b>	Mr.Hamer Shield JM, AP/IT	
<b>Details of Participants</b>	34 (Thirty Four ) Internal : 19 External :15	
	Name of the Guest	Mr. T.Srinivasan, ICT Academy trainer
	Organization	MSAJCE
	Designation	ICT Trainer
<b>Write-up on program</b>	<p>The Interactive Session on FDP was conducted cordially by AN Department.</p> <p>The Event was started with welcome address and introduction of chief guest Mr. T. Srinivasan, ICT Academy trainer, Chennai. Head Dr. Weslin, During the session he explained various topics related to AWS . In the discussion time with the participants, he give idea about the value of the certification About AWS. LAB Exercise and ten modules with Knowledge check Exam have been done during the FDP period on Completion of exam We Receive a Certificate from AWS.</p>	

*[Handwritten Signature]*  
**PRINCIPAL**



Photographs



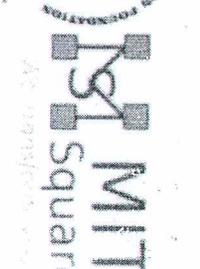
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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**ICT Academy**  
Coordinator  
Dr - D. Hestia



# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

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Recognized by UGC 12B & 2f Act, An ISO: 9001-2015 Certified Institution  
Accredited by NBA, NAAC with "A" grade



in Collaboration with

## RAISE

Centre of Excellence

Powered by MIT Square, London

## CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

**Dr.D.Weslin**

Associate Professor/IT

Mohamed Sathak AJ College of Engineering

has participated in 5 days Faculty Development Programme on

“CRYPTOGRAPHY AND ITS APPLICATION”

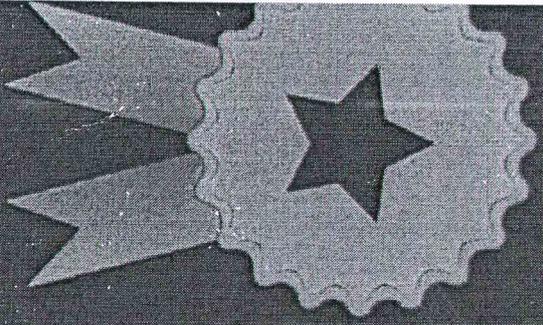
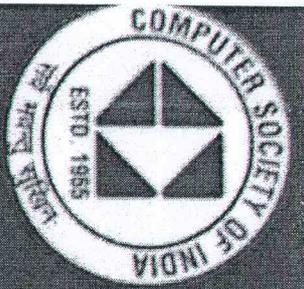
held on 26.02.2024 to 01.03.2024 organized by the RAISE Centre of Excellence,  
of our institution in association with MIT SQUARE, London.

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**Dr. S. Neelakanta**

**Dr. P. Sathiyamoorthy**

**Dr. K.S. Srinivasan**



ACTIVE PARTICIPATION  
WARD (SBC)

# COMPUTER SOCIETY OF INDIA

## KANCHEEPURAM CHAPTER

### CERTIFICATE OF ACHIEVEMENT

#### DR.D.WESLIN

MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING

IS RECOGNIZED FOR

ACTIVE PARTICIPATION (SBC) IN

CSI ACTIVITIES

2023-24

PRINCIPAL

Mohamed Sathak A. College of Engineering  
No.34, P. O. S. Balai (OMR)  
Highway, Egattur,  
Chennai - 600 030

3

S.K. S...

DR. S. K. SARAVANAN

SECRETARY

DR. I. FRANK VIJAY

CHAIRMAN

DR. M. MURUGAN

CHAIRMAN



This is to certify that

Dr.D.WESLIN

of

Mohamed Sathak A.J. College of Engineering, Tamil Nadu

has undergone Innovation Ambassador (IA) training 'Advanced Level' (Total 16 Sessions of 30 contact hours) conducted in online mode by MoE's Innovation Cell & AICTE during the IIC calendar year

2022-23

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**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Handwritten signature]*

Dr. Abhoy Jere  
Chief Innovation Officer  
MoE's Innovation Cell

Date: 30-05-2024

*[Handwritten signature]*

Mr. Dipan Sahu  
Assistant Innovation Director  
MoE's Innovation Cell

E-certification No.:

IIC ID: IC201912912

12

51



This is to certify that

**DR.D.WESLIN**

of

**Mohamed Sathak A.J. College of Engineering , Tamil Nadu**

has undergone Innovation Ambassador (IA) training 'Foundation Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's innovation Cell & AICTE during the IIC calendar year 2022-23.

*Abbey Jere*

Dr. Abbey Jere  
Chief Innovation Officer  
MoE's Innovation Cell

*Dipran Selhu*

Mr. Dipran Selhu  
Assistant Innovation Director  
MoE's Innovation Cell

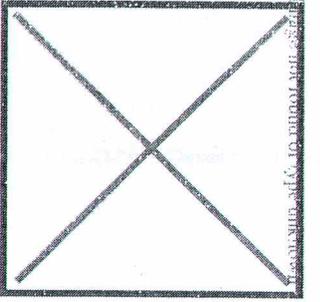
Date of Issue: 30-01-2024

E-certificate No.: IA/Foundation/1031322

IIC In: F0201912912

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Chennai - 603103.



# IIC Report Details

Mohamed Sathak A.J. College of Engineering, Tamil Nadu, CHENNAI

Activity Report submitted for the academic year 2023-24

S.NO.	ACTIVITY	TOTAL SUBMISSION	STATUS
1	Celebration	8	Submitted - 8
2	IIC Calender Activity	13	Submitted - 13
3	MIC Driven	2	Submitted - 2
4	Self Driven	1	Submitted - 1

This report is electronically generated against report submitted on Institution's Innovation Council Portal.

*Dr. D. Merlin*  
IIC - President  
Head - Research & IPR  
MSACE

*[Signature]*  
**PRINCIPAL**  
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No.34, Rajiv Gandhi Salai (OMR),  
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Chennai - 603103.

*[Signature]*  
Principal



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## REPORT ON EVENT

<b>Department:</b>	Research and IPR	
<b>Type of Event:</b>	International Conference	
<b>Event Title:</b>	Research and Development in Engineering, Science and Technology (RADEST-24)	
<b>Date &amp; Time:</b>	24.05.2024 & 9.30 am	
<b>Venue / Mode(Platform):</b>	Online	
<b>Organizer:</b>	Dr. D. Weslin, Head- Research and IPR MSAJCE	
<b>Coordinator(s):</b>	Dr. I. Manju, Dr. A. Balakrishnan, Dr. S. Amudha, Dr.S. Devikala, Dr.J. Paramesh, Dr. R. Someswaran, Mr.M. Ashokkumar, Mr. K. Sunilkumar, Mr. S. Vimalathithan	
<b>Details of Participants:</b>	Around 92 Papers presented by Various Institutions	
<b>Profile of the Chief Guest(s)</b>	<b>Name of the Guest Speaker</b>	<b>Guest</b>
	Dr. G. Gnanakumar Prof & Head, Dept of Physical Chemistry, Madurai Kamaraj University	Mr. Shaikh Azharuddin (Alumni)  IT Operations, NRFSI, Chennai
<b>Write-up on Event</b>	<p>The International Conference commenced with an introduction by Kiran, setting the stage for an insightful and engaging event. The online gathering was formally welcomed by Dr. D. Weslin, Head of Research &amp; Intellectual Property Rights (IPR), set a positive tone for the day's proceedings, highlighting the importance of research and innovation in academic and professional circles.</p> <p>Following the welcome address, the conference was officially inaugurated by our esteemed Principal, Dr. K. S. Srinivasan. In his inaugural speech, Dr. Srinivasan emphasized the significance of such conferences in fostering academic collaboration and knowledge exchange. He expressed his excitement about the diverse topics to be discussed and the potential impact these discussions could have on future research directions.</p> <p>The keynote address was delivered by the Chief Guest, Dr. G. Gnanakumar, a distinguished scholar known for his contributions to research and education. Dr. Gnanakumar determined passionately about the crucial role of research in shaping society and driving progress. He encouraged the participants to actively engage in interdisciplinary</p>	



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research, recognizing that breakthroughs often occur at the intersection of different fields. Dr. Gnanakumar also made a thought-provoking comparison between our current research efforts and those of China, urging us to strive for continuous improvement and excellence in various domains.

Adding to the discussion, Mr. Shaikh Azharuddin offered a pragmatic perspective on the purpose of research. He emphasized that research should not only be academically rigorous but also practical and solution-oriented. Mr. Azharuddin stressed the importance of aligning research activities with real-life challenges and industry needs, ensuring that the outcomes of research contribute meaningfully to society and the economy. Together, the speakers provided a comprehensive overview of the importance of research in today's world, encouraging participants to pursue innovative solutions and collaborative approaches to address the pressing challenges of our time.

Following the inaugural addresses, all participants were invited to present their research work. The presentations were organized into six distinct tracks, each corresponding to a specific domain: Computer Science and Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Civil Engineering, Mechanical Engineering (MECH), and Science and Humanities (S&H). This track-based arrangement ensured that each participant could present their research within their specialized field, fostering focused discussions and meaningful feedback from peers and experts alike.

<b>Dept</b>	<b>Chair Person</b>	<b>No of Papers Presented</b>
CSE	Dr. C. Ashok Kumar, SRM	18
CIVIL	Dr. A. Sankaran, AUC	22
ECE	Dr. Mehaboob Basha, SIMTAS	15
EEE	Dr. N. Booma, JCE	10
MECH	Dr. R. Kamalakannan, NKCE	11
S & H	Dr. J. Senbhaga Malar, Veltech	16
<b>Total</b>		<b>92</b>

## PRINCIPAL

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An Autonomous Institution



*The Management, Principal, Staff and Students Cordially invite you for the*

**International Conference on  
Research and Development in  
Engineering, Science and Technology  
(RADEST 2024)**

**Speakers**



**Dr. G. Gnana Kumar**  
Head, Department of Physical Chemistry  
Madurai Kamaraj University



**Mr. Sheikh Azharuddin**  
IT Operations Head  
NRFSS

DATE: 24/05/2024  
TIME: 9.30 AM

**Conference Chair**

**Dr. D. Weslin**  
Head-Research & IPR

VENUE: MSAJCE

**Conveners**

**Dr. A. Balakrishnan, Prof/S&H**  
**Dr. R. Someswaran, AP/CIVIL**  
**Dr. S. Amudha, AP/S&H**

**Dr. S. Devikala, Prof/EEE**  
**Dr. J. Paramesh, Prof/CSE**  
**Mr. M. Ashokkumar, AP/ECE**

**Mr. K. Sunil Kumar, AP/MECH**

**In the presence of**

**Alhaj. S.M. Mohamed Yousuf**  
Chairman  
Mohamed Sathak Trust

**Hajiyani. S.M.H. Shiramita**  
Secretary  
Mohamed Sathak Trust

**Janab. P.R.L. Hamid Ibrahim**  
Executive Director  
Mohamed Sathak Trust

**Janab. Mohamed Sathak**  
Campus Director  
MSAJCE

**Dr. K.S. Srinivasan ME., Ph.D**  
Principal

Poster

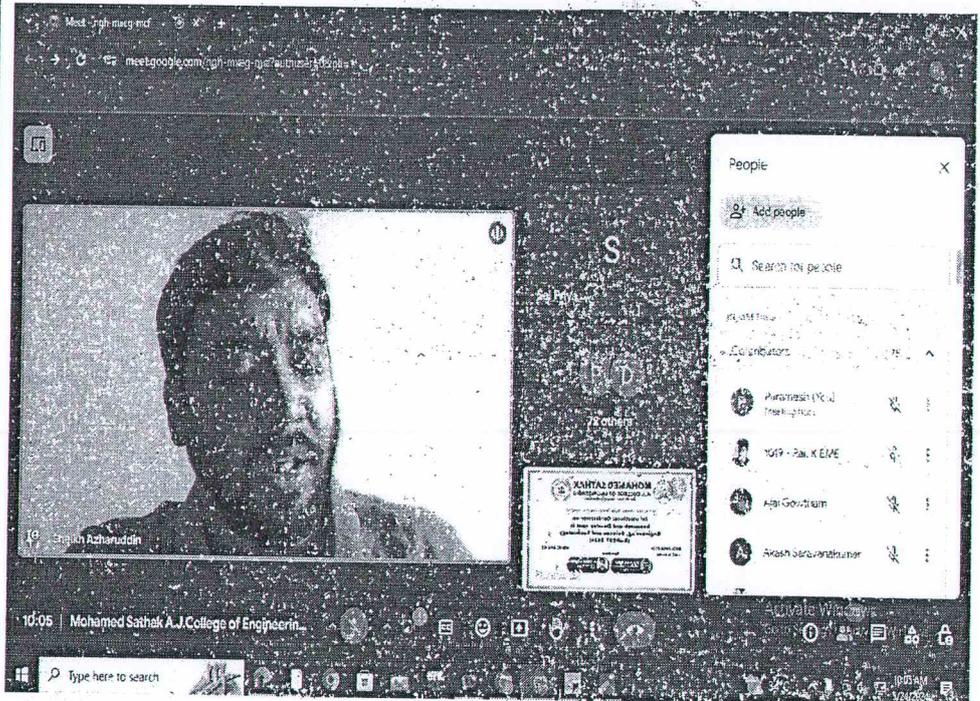
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**Inauguration Photo**



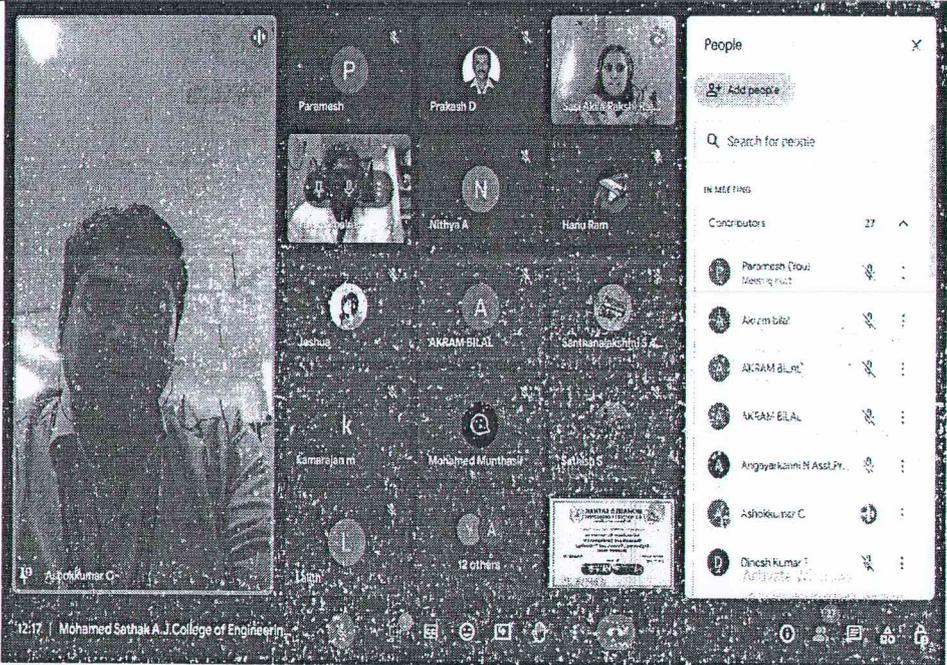
**Inauguration Photo**

*Mohamed Sathak A.J.*

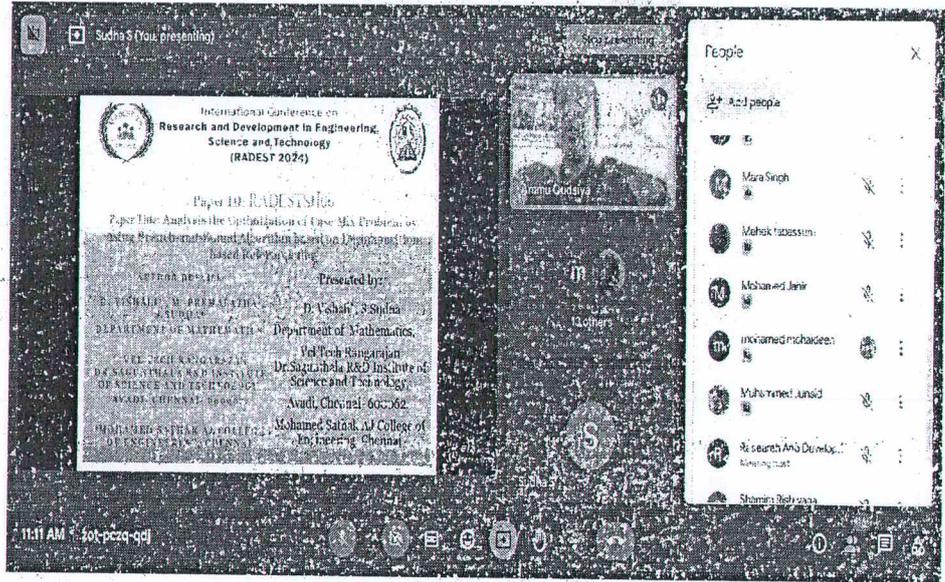
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**Presentation Photo**



**Presentation Photo**

*Dr. D. Nestin*  
 Head-Research & IPR  
 Dr. D. Nestin

*[Handwritten Signature]*

*[Handwritten Signature]*  
 26/5/24  
 Principal

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 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

# *In vitro* Anti-cancer Activity of Methanol Extracts of Kiwi Fruit, *Actinidia deliciosa* in HCT-119 Cells

Geetha N B <sup>1</sup>, Priya R <sup>1</sup>, Weslin D <sup>1</sup>, Ashmi Christus A T <sup>2</sup>

## Abstract

This study determined the potential of kiwi fruit (*Actinidia deliciosa*) to inhibit cancer cell growth on HCT-119 cells. We used MTT and COMET assays to assess its biological activity. The kiwi extract exhibited cytotoxicity against these cells, with an IC50 value of 30.038 mg/ml. Microscopic examination revealed damage to cell membranes, reduced adhesion, and inhibited cell growth. Fluorescence staining indicated changes in cell nuclei, suggesting apoptosis. Moreover, the extract appeared to halt HCT-119 cell growth by activating specific cell death pathways. These findings imply that kiwi extract holds promise as a treatment for colon cancer due to its beneficial compounds. We advocate for further clinical studies on kiwi fruit extract to explore its potential in cancer therapy.

**Keywords:** *Actinidia deliciosa*, HCT-119 cells, MTT assay, COMET assay, kiwi fruit extract.

## Introduction

Cancer is a major cause of death globally, with colorectal (CC) cancer being prominent. It ranks third in men and second in women for cancer diagnoses annually, with over 1.4 million new cases per year (Wu et al., 2002; Kuttan et al., 1985; Solowey et al., 2014; Yin et al., 2004; Devi et al., 2012; Kajani et al., 2014). While more than half of CC cases occur in developing countries (Yusefi et al., 2020), mortality rates are higher due to limited resources (Rehana et al., 2017; Gomathi et al., 2020; Naya et al., 2015). Conversely, mortality rates have decreased in Western countries with improved early diagnosis and CC care (Dadashpour et al., 2018; Kosanić et al., 2012). Cancer cell survival involves decreased apoptosis, making it a target for chemotherapy (Solowey et al., 2014; Rehana et al., 2017; Lichota & Gwozdziński, 2018; Al-Rimawi et al., 2016; Colic & Pavelic., 2000). Apoptosis induction is a key aspect of traditional cancer treatments, including chemotherapy, radiation, and hormonal therapies (Fouché et al., 2008; Lakshmanan et al., 2018; Chanda & Nagani, 2013). It's crucial to urgently evaluate the reasons behind the low survival rates of colorectal cancer (CC) patients. Conducting a benchmark analysis is essential for formulating effective policies to address the disease in India, allowing for an assessment of the demographic and clinical profiles of CC patients (Chanda & Nagani, 2013; Nguyen et al., 2020; Shoemaker et al., 2005). Oncologists in India observe that CC predominantly affects younger generations, often presenting with advanced-stage diseases, signet ring morphologies, and a higher prevalence of anorectal sites compared to global trends (Patil & Kim, 2017; Kiran et al., 2018; Yusefi et al., 2020).

**Significance** | The study of anti-cancer properties of *Actinidia deliciosa* methanol extract in Colorectal cancer as effective treatments.

\*Correspondence: Geetha N B, Mohamed Sathak AJ College of Engineering, Chennai 603103  
E-mail: headprojects@msajce-edu.in

## Author Affiliation.

<sup>1</sup> Mohamed Sathak AJ College of Engineering, Chennai 603103  
<sup>2</sup> Dhaanish Ahmed College of Engineering, Chennai 601301

## Please cite this article.

Geetha N B, Priya R, Weslin D, Ashmi Christus A T et al., (2024). *In vitro* Anti-cancer Activity of Methanol Extracts of Kiwi Fruit, *Actinidia deliciosa* in HCT-119 Cells, *Journal of Angiotherapy*, 8(2), 1-6, 9462

Editor Mohamed Khadeer Ahamed Basheer And accepted by the Editorial Board Feb 18, 2024 (received for review Dec 11, 2023)

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<https://publishing.emanresearch.com>



## Enhancing Parkinson's disease identification using ensemble classifier and data augmentation techniques in machine learning

Mohammed Muzaffar Hussain<sup>a</sup>, D. Weslin<sup>b</sup>, S. Kumari<sup>c</sup>, S. Umamaheswari<sup>d</sup>, K. Kamalakannan<sup>e,\*</sup>

<sup>a</sup> Department of Computer Science and Engineering, C.Abdul Hakeem College of Engineering & Technology, Melvisharam 632509, India

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### ARTICLE INFO

#### Article history:

Received 14 February 2023

Revised 9 October 2023

Accepted 16 November 2023

Available online 20 November 2023

#### Keywords:

Parkinson's disease  
Ensemble classifier  
Machine learning  
Data augmentation  
Diagnosis

### ABSTRACT

Parkinson's disease (PD) is a devastating neurological syndrome that affects millions of people worldwide. For the successful treatment and control of PD, it is essential to detect it early and diagnose it accurately. Machine learning (ML) algorithms have shown promising results in identifying PD based on various clinical and non-invasive measures. This paper proposes an ensemble classifier-based method to identify PD using ML algorithms. We consider two classes of PD, namely, healthy controls and PD patients. Our approach involves the use of feature selection, feature extraction, and classification techniques to develop a robust and accurate model. We use a dataset that includes clinical measures and necessary features from patients with PD and healthy controls. Our outcomes demonstrate the effectiveness of the proposed method in accurately identifying PD and highlight the importance of ML algorithms in assisting with early detection and diagnosis of PD.

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### Introduction

Parkinson's disease (PD) is a complex and progressive neurological disorder that affects millions of individuals worldwide.<sup>1–2</sup> It is characterized by a range of motor and non-motor symptoms, primarily resulting from the degeneration of dopaminergic neurons in the substantia nigra region of the brain. Clinically, PD is defined by its cardinal motor symptoms, including resting tremors, bradykinesia (slowness of movement), rigidity, and postural instability.<sup>3</sup> However, it is important to note that PD encompasses a spectrum of symptoms that extend beyond these motor impairments.

The non-motor symptoms of PD are equally significant and can include cognitive deficits, mood disturbances, sleep disturbances, autonomic dysfunction, and more. The complexity of PD lies in its heterogeneity, as patients may experience a wide range of symptom severity and progression rates.

One of the challenges in managing PD is its late-stage diagnosis, often occurring after significant neurodegeneration has already

taken place. An early and accurate diagnosis is of paramount importance as it can lead to improved patient outcomes and more effective management strategies. Early intervention can help alleviate symptoms, enhance the quality of life for individuals with PD, and provide an opportunity for timely therapeutic interventions.

Clinical data plays a central role in the diagnosis and ongoing management of Parkinson's disease. Neurologists and clinicians rely on a comprehensive assessment of a patient's medical history, physical examination, and a battery of clinical tests to establish a diagnosis and tailor treatment plans. These clinical evaluations take into account the wide array of motor and non-motor symptoms that characterize the disease.

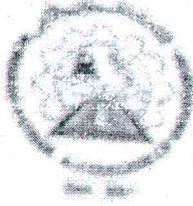
However, advancements in machine learning and data analysis have opened up new possibilities for enhancing the diagnostic process. By leveraging computational techniques and data-driven approaches, researchers aim to complement traditional clinical assessments. These methods have the potential to provide objective and quantitative measures that may aid in early detection and monitoring of PD.

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<https://doi.org/10.1016/j.ceh.2023.11.002>

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# MOHAMED SATHAK A J COLLEGE OF ENGINEERING



Approved by AICTE, New Delhi, Affiliated to Anna University,  
34 Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103

## International Conference on Research and Development in Engineering, Science and Technology (RADEST 2024)

### *Certificate of Appreciation*

This is to certify that Dr. D. WESLIN

  
**PRINCIPAL**

Associate Professor / IIT - MSATRE

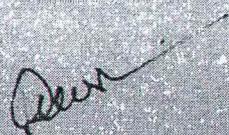
Mohamed Sathak A.J. College of Engineering  
No.34 Rajiv Gandhi Salai (OMR)  
Siruseri IT Highway Egattur,  
Chennai - 603103

has presented a paper on Enhancing Data Security

Through Secure Enhanced AES Encryption:  
A Comprehensive Analysis and Implementation

in International Conference on Research and Development in  
Engineering, Science and Technology (RADEST) organised by

Department of Computer Science and Engineering and  
held on 24<sup>th</sup> May 2024. Information Technology.



Dr. D. Weslin  
Conference Chair





Dr. K.S. Srinivasan  
Principal



Mr. Weslin <it.weslin@msajce-edu.in>

## Fwd: Registration Confirmation from ICAIT- 2024

Weslin D <weslin16@gmail.com>

To: it.weslin@msajce-edu.in

Thu, Jun 27, 2024 at 11:56 AM

----- Forwarded message -----

From: **Dr. Pushpa Ravikumar** <pushparavikumar@aitckm.edu.in>

Date: Wed, Jun 12, 2024, 11:09 AM

Subject: Registration Confirmation from ICAIT- 2024

To: senthil ks <mailto:senthil.ks@gmail.com>, Hannah Lalitha <hannahlalitha@gmail.com>, Weslin D <weslin16@gmail.com>, Dr.K.Sathish Kumar <ksathish1980@gmail.com>

Dear Author

**Congratulations on Completing Conference Requirements and Important Updates. Your Registration process has been completed successfully!!!!**

We would like to extend our heartfelt congratulations to you for successfully completing all the necessary conference requirements. Your promptness in filling out the Google form, submitting the copyright form, and processing the registration fees is truly commendable.

We are excited to inform you that the conference is scheduled to take place from **July 24th to July 27th, 2024**. A detailed schedule of the conference, including paper presentation timings, will be shared with you in the **early weeks of July**.

The organizing committee deeply appreciates your active support throughout this process. Your dedication and cooperation have contributed immensely to the success of the event. We are eagerly looking forward to welcoming you personally at our campus and engaging with you during the conference. Once again, congratulations on your achievements, and we eagerly anticipate your participation in the upcoming conference.

Best regards,

**Dr. Pushpa Ravikumar**

**Professor & Head, Department of CS&E,**

**Organizing Chair, ICAIT-2024**

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

27-06-2024

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### List of the Selected Institutes for the Impact Lecture Scheme

S.No	IIC ID	Name of the IIC Institutes	City	State	Zone
191	IC201911978	Techno India NJR Institute of Technology	UDAIPUR	Rajasthan	North-West/NWRO
192	IC202219588	THAPAR POLYTECHNIC	Patiala	Punjab	North-West/NWRO
193	IC202216221	Trinity College, Church Nagar, G.G.S.Avenue,	Jalandhar	Punjab	North-West/NWRO
194	IC202324047	Xavier Institute of Management & Informatics	Jaipur	Rajasthan	North-West/NWRO
195	IC202014399	A.V. College of Arts Science & Commerce	Hyderabad	Telangana	South-Central/SCRO
196	IC202217077	Aristotle P.G.College	Rangareddi	Telangana	South-Central/SCRO
197	IC201912783	Balaji Institute of Pharmaceutical Sciences, Laknepally (V), Narsampet (M), Warangal	Warangal (District)	Telangana	South-Central/SCRO
198	IC201912853	BAPATLA COLLEGE OF PHARMACY	BAPATLA	Andhra Pradesh	South-Central/SCRO
199	IC202014389	Chebrolu Hanumaiah Institute of Pharmaceutical Sciences	Guntur	Andhra Pradesh	South-Central/SCRO
200	IC202220300	Daita Madhusudana Sastry Sri	Krishna	Andhra Pradesh	South-Central/SCRO
201	IC202218407	Gokaraju Rangaraju College of Pharmacy	Hyderabad	Telangana	South-Central/SCRO
202	IC201811938	GUNTUR ENGINEERING COLLEGE	GUNTUR	Andhra Pradesh	South-Central/SCRO
203	IC201912814	Holy Mary Institute of Technology & Science	hyderabad	Telangana	South-Central/SCRO
204	IC201810146	K.S.R.M. College of Engineering	KADAPA	Andhra Pradesh	South-Central/SCRO
205	IC201810907	Kandula Lakshamma College of Egg. for Women	KADAPA	Andhra Pradesh	South-Central/SCRO
206	IC201810060	Nirmala College of Pharmacy	ATMAKURU	Andhra Pradesh	South-Central/SCRO
207	IC201810257	Raghavendra Institute of Pharmaceutical Education & Research	ANANTAPUR	Andhra Pradesh	South-Central/SCRO
208	IC202115699	Ramireddy Subbarami Reddy Engineering College	Sprr Nellore	Andhra Pradesh	South-Central/SCRO
209	IC202324672	S.C.I.M Govt. College	West Godavari	Andhra Pradesh	South-Central/SCRO
210	IC202216736	Sai Spurthy Institute of Technology	Khammam	Telangana	South-Central/SCRO
211	IC202219606	Sanketika Vidya Parishad Engineering	Visakhapatnam	Andhra Pradesh	South-Central/SCRO
212	IC201810042	Sri Rama College of Engineering College	TIRUPATI	Andhra Pradesh	South-Central/SCRO
213	IC202221817	St. Ann's P.G. College for Women	Rangareddi	Telangana	South-Central/SCRO
214	IC202216218	St.Joseph's Degree College	Kurnool	Andhra Pradesh	South-Central/SCRO
215	IC202218505	TELANGANA TRIBAL WELFARE RESIDENTIAL DEGREE COLLEGE FOR WOMEN THANGALLAPALLY	Rajanna	Telangana	South-Central/SCRO
216	IC202015237	Usha Rama College of Engineering & Technology	Krishna	Andhra Pradesh	South-Central/SCRO
217	IC201912246	VIKAS INSTITUTE OF PHARMACEUTICAL SCIENCES	Rajahmundry	Andhra Pradesh	South-Central/SCRO
218	IC202015340	A.D.M. College for Women	Nagapattinam	Tamil Nadu	Southern/SRO
219	IC202219042	ADITHYA COLLEGE OF ARTS AND SCIENCE	Coimbatore	Tamil Nadu	Southern/SRO
220	IC201811630	Akshaya College of Engineering and Technology	COIMBATORE	Tamil Nadu	Southern/SRO
221	IC202216655	ALPHA ARTS AND SCIENCE COLLEGE	Chennai	Tamil Nadu	Southern/SRO
222	IC202321957	ANNAI MIRA COLLEGE OF ENGINEERING	Vellore	Tamil Nadu	Southern/SRO
223	IC202014234	ANNAI VIOLET ARTS AND SCIENCE COLLEGE	CHENNAI	Tamil Nadu	Southern/SRO
224	IC202115780	ANNAMALAI POLYTECHNIC COLLEGE	Sivaganga	Tamil Nadu	Southern/SRO
225	IC202014020	ARIFA INSTITUTE OF TECHNOLOGY	NAGAPATTINAM	Tamil Nadu	Southern/SRO
226	IC202218077	Auxilium College of Arts and Science for Women	Pudukkottai	Tamil Nadu	Southern/SRO
227	IC202216901	AVS COLLEGE OF TECHNOLOGY	Salem	Tamil Nadu	Southern/SRO
228	IC202115528	AVS Engineering College	Salem	Tamil Nadu	Southern/SRO
229	IC202015152	Christ College of Engineering and Technology	PUDUCHERRY	Puducherry	Southern/SRO
230	IC202116124	Christ The King Engineering	Coimbatore	Tamil Nadu	Southern/SRO
231	IC202220228	CHRIST THE KING INSTI. OF TECHNOLOGY	Coimbatore	Tamil Nadu	Southern/SRO
232	IC201810831	Coimbatore Institute of Engineering and Technology	COIMBATORE	Tamil Nadu	Southern/SRO
233	IC202220779	CSI College of Engineering	The Nilgiris	Tamil Nadu	Southern/SRO
234	IC201810132	D.K.M. College for Women	Vellore	Tamil Nadu	Southern/SRO
235	IC202014010	Dhaanish Ahmed College of Engineering	padappai	Tamil Nadu	Southern/SRO
236	IC202116074	E S COLLEGE OF NURSING	Villupuram	Tamil Nadu	Southern/SRO
237	IC202220343	ER PERUMAL MANIMEKALAI POLYTECHNIC	Krishnagiri	Tamil Nadu	Southern/SRO
238	IC202217129	Ganadipathy Tulsis Jain Engineering	Vellore	Tamil Nadu	Southern/SRO
239	IC202221439	GOVERNMENT POLYTECHNIC COLLEGE	Ariyalur	Tamil Nadu	Southern/SRO
240	IC202323533	GOVERNMENT POLYTECHNIC COLLEGE,	Vellore	Tamil Nadu	Southern/SRO
241	IC201912200	Government Polytechnic College, Mohanur	NAMAKKAL	Tamil Nadu	Southern/SRO
242	IC202217887	Imayam College of Engineering	Tiruchirappalli	Tamil Nadu	Southern/SRO
243	IC202221548	Institute of Road and Transport	Erode	Tamil Nadu	Southern/SRO
244	IC202321940	J.J. College of Engineering and Technology	Tiruchirappalli	Tamil Nadu	Southern/SRO
245	IC202221108	J.J. POLYTECHNIC COLLEGE	Tiruchirappalli	Tamil Nadu	Southern/SRO
246	IC201810121	Jamal Mohamed College (Autonomous)	TIRUCHIRAPPALLI	Tamil Nadu	Southern/SRO
247	IC202221332	Jeppiaar College of Arts & Science	OMR Padur	Tamil Nadu	Southern/SRO
248	IC201912194	K.S.R Arts & Science College Autonomous	Tiruchengode	Tamil Nadu	Southern/SRO
249	IC202115570	Kamban college of Arts and Science for	Tiruvannamalai	Tamil Nadu	Southern/SRO
250	IC202216857	KASTHOORIBHA GANDHI PHARMACY	Namakkal	Tamil Nadu	Southern/SRO
251	IC201810951	Kings College of Engineering	PUNALKULAM	Tamil Nadu	Southern/SRO
252	IC202014955	Kumaraguru College of Liberal Arts and Science	Coimbatore	Tamil Nadu	Southern/SRO
253	IC202218732	M.A.M. College of Engineering and	Tiruchirappalli	Tamil Nadu	Southern/SRO
254	IC202217829	M.R.K. Institute of Technology	Cuddalore	Tamil Nadu	Southern/SRO
255	IC201811102	Mahendra Institute of Technology	NAMAKKAL	Tamil Nadu	Southern/SRO
256	IC202218298	MAR GREGORIOS COLLEGE	Chennai	Tamil Nadu	Southern/SRO
257	IC201912912	Mohamed Sathak A.J. College of Engineering	CHENNAI	Tamil Nadu	Southern/SRO
258	IC201912064	MOTILAL NEHRU GOVERNMENT POLYTECHNIC COLLEGE	Pondicherry	Puducherry	Southern/SRO

**Mohamed Sathak A.J. College of Engineering**  
**No. 24, Raj Gandhi Salai (OMR)**  
**Southern/SRO - 603103, Egattur,**

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**INNOVATION CELL**

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI-110070, INNOVATION CELL (2023-24),  
Contact : 01126131576-78,80, E-Mail : finance@aicte-india.org

Date : 19-Mar-2024

Vch. No. : 1845

**MOHAMED SATHAK A.J. CO. OF ENGG.**

NO-34 RAJIV GANDHI RD. EGATTUR  
District : CHENNAI

PIN Code : 603103

Sir / Madam,

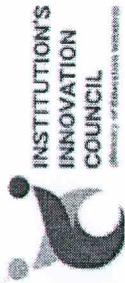
This is in reference to your bill No. :- 1 Dated 10-Mar-2024 , an amount of ₹ 20,000.00 ( Rs Twenty Thousand only ) towards payment of IMPACT LECTURE SCHEME,2023-24(PHASE-I) , we wish to inform you that the payment of the said bill has been made through RTGS / NEFT on 19-Mar-2024 , into your Account as per details provided by you. ( INDIAN BANK , IRUSERI , A/c 6769150834. ).

Sr. No.	Particulars	Amount
1	<b>IMPACT LECTURE SCHEME,2023-24(PHASE-I)</b> TA DA HON. MISC INCOME	20,000.00
	<b>Deductions</b>	
2	1. Advance Adjusted 2. Tax Deducted at Source ( AAATM0652J ) 3. Other Tax ( G.S.T. etc. ) 4. Other Deductions	
3	<b>Net amount</b>	20,000.00

Advisor (Finance)

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

\* It is system generated payment advise, does not require signature or seal



# Institution Innovation Council and Entrepreneurship Cell



## Jointly Organize Impact Lecture Series

**Lecture 1**  
**Entrepreneurship- The Way Forward**

Date: 26/03/2024 Time: 09:00 am to 10:30 am  
Venue: Ground Floor Auditorium



Resource Person  
**K Shree Jayaram Startup Ecosystem Expert**

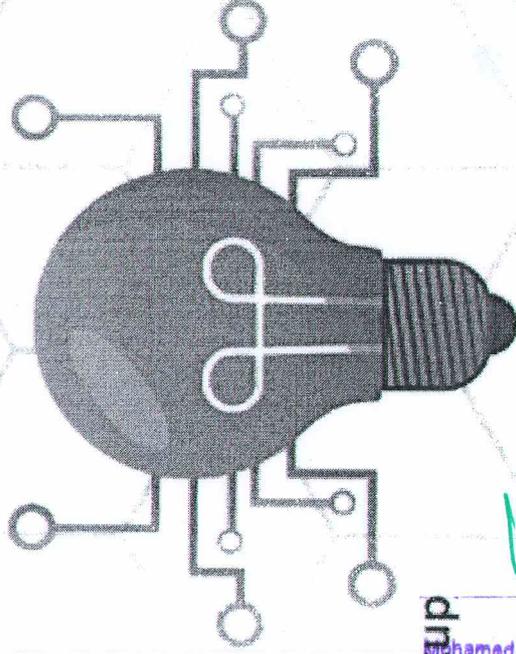
**Lecture 2**

**Intellectual property rights in the incubation Ecosystem**

Date: 26/03/2024 Time: 11:00 am to 12:30 pm  
Venue: Ground Floor Auditorium



Resource Person  
**Mr. M. Sriraaman**  
Social Innovator,



**PRINCIPAL**  
Shame Sathak A.J. College of Engineering  
No. 34, Rajiv Gandhi Salai (OMR)  
Egattur - IT Highway Egattur,  
Chennai - 603103.

Convenor

**Dr. D Weslin,**

Head - Research & IIC in Charge

Biotechnology Industry Research Assistance Council,  
Department of Biotechnology, India

Coordinator

**Mr. V. Vigneshwaran, Head - Training**

**Mr. Tharenikumar L, Head- EDC & HS**

**Mohamed Sathak AJ College of Engineering**  
**Funded Projects**

S. No	Faculty Name / Dept	Title	Funded by	Status
1	Dr. D. Weslin/IT & Mr. Mohideen Abdul Kadar	Enhancing Data Security using Blockchain and IPFS	MeitY	Applied
2	Dr. K. S. Srinivasan and Dr. D. Weslin	AI-Powered Data Mining and Image Processing: Techniques and Applications (FDP)	AICTE-ATAL	Applied

  
Head-Research & IPR



## Mohamed Sathak AJ College of Engineering, Chennai - 603 103

### Faculty 360° Feedback

Name of the Faculty	Dr.I.Manju		
Designation / Dept	Prof/ECE		
Academic Year	2023-24	Signature of the Faculty	

#### Academics - Results (Max Points 20)

S. No.	Semester	Course Code / Name (Theory Courses only)	Total no of Students			Points Secured	Verified by
			Registered	Pass	% of Pass		
1	Even 2022-23	Digital Signal Processing	33	32	97%	20	
2	Odd 2023-24	Low Power IC Design	33	31	94%	20	
Average						20	

#### Students' feedback (Max Points 10)

S. No.	Semester	Course Code/ Name	Feedback score out of 5 Marks	Feedback on the scale	Verified by
1	Odd 2023-24	Low Power IC Design	4.32	10	
2	Even 2023-24	Digital Signal Processing	4.2	10	
Avg				10	

#### Departmental Activities (Max Points 20)

S. No.	Year	Activity	Credit Point			Criteria	Enclosure no.
			Odd	Even	Avg		
1	2023-24	FDP/Workshop Organized	3		1.5	3 Point/semester	1
2	2023-24	FDP/Workshop Attended	2	2	2	2 Point/semester	2
3	2023-24	Online Course Completion -Python	3		1.5	3 Point/semester	3
4	2023-24	Mentor for Competition - Niral Thiruvizha		3	1.5	3 Point/semester	4
Total					6.5		

#### Institute Activities (Max Points 20)

S. No.	Semester	Activity	Credit Point	Criteria	Verified by
1	Odd 2023-24	Head IQAC - NBA, Autonomous, NIRF, MIS report, MRM, Statutory Body Meetings, Online Feedback	5	5 Point/activity	
2	Even 2023-24	Head IQAC - AQAR, ISO, MIS report, MRM, Autonomous, Statutory Body Meetings, Online Feedback	5	5 Point/activity	
3	Odd 2023-24	Coordinator appointed by Head of Institute- SPOC - Naan Mudhalvan	5	5 Point/activity	
4	Even 2023-24	Coordinator appointed by Head of Institute-SPOC - Naan Mudhalvan	5	5 Point/activity	
Total			50		

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipeet - IT Highway Egattur,  
Chennai - 603103.

Feedback:

→ Need to mentor other faculties.

M. Manju  
24/3/24

P  
24/3/24

Research & Development Activities (Maximum Points 20)					
S.No.	Year	Activity	Credit Point	Criteria	Verified by
1	2023-24	SCI/SCI-Extended - 1 No	3	3 point /paper	
2	2023-24	Scopus - 3 Nos	6	2 point /paper	
3	2023-24	Conference	1	1point /paper	
4	2023-24	Research - Funding Applied - IBIP	3	Applied - 3	
	2023-24	Research - Funding Applied - ATAL FDP	3	Applied - 3	
Total			16		

Faculty Attendance (Maximum Points 10)							
S.No.	Year	Total no of Working Days	No of Days Absent	Percentage of Attendance	Credit Point	Criteria	Enclosure no.
1	2023-24	243	CL-12, LOP-7	89.9%	8		
Total					8		

**Summary**

S.No	Summary	AY -1	AY -2	AY -3
1	Teaching Process (Max Points 20)	20		
2	Students' feedback (Max Points 10)	10		
3	Departmental Activities (Max Points 20)	6.5		
4	Institute Activities (Max Points 20)	20		
5	Research & Development (Max Points 20)	16		
6	Faculty Attendance (Max Points 10)	8		
7	Total (Max Points 100)	80.5	80	84
8	No of Memo Received	0		
9	Final Marks Max Points 100)	80.5		
10	Final Marks on 10 Point scale	8.05		

Note : For every memo 3 marks will be deducted from total points

*S. M. ...*  
24/8/24

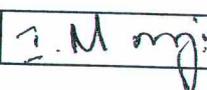
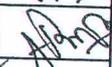
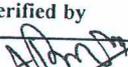
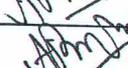
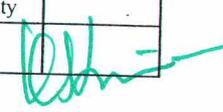
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**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

## Mohamed Sathak AJ College of Engineering, Chennai - 603 103

### Faculty 360° Feedback

Name of the Faculty		Dr.I.Manju					
Designation / Dept		Prof/ECE					
Academic Year		2023-24		Signature of the Faculty			
<b>Academics - Results (Max Points 20)</b>							
S. No.	Semester	Course Code / Name (Theory Courses only)	Total no of Students			Points Secured	Verified by
			Registered	Pass	% of Pass		
1	Even 2022-23	Digital Signal Processing	33	32	97% ✓	20	
2	Odd 2023-24	Low Power IC Design	33	31	94% ✓	20	
Average						20	
<b>Students' feedback (Max Points 10)</b>							
S. No.	Semester	Course Code/ Name	Feedback score out of 5 Marks	Feedback on the scale	Verified by		
1	Odd 2023-24	Low Power IC Design	4.32 ✓	10			
2	Even 2023-24	Digital Signal Processing	4.2 ✓	10			
Avg				10			
<b>Departmental Activities (Max Points 20)</b>							
S. No.	Year	Activity	Credit Point			Criteria	Enclosure no.
			Odd	Even	Avg		
1	2023-24	FDP/Workshop Organized	3		1.5 ✓	3 Point/ semester	1
2	2023-24	FDP/Workshop Attended	2	2	2 ✓	2 Point/ semester	2
3	2023-24	Online Course Completion -Python	3		1.5 ✓	3 Point/ semester	3
4	2023-24	Mentor for Competition - Niral Thiruvizha		3	1.5 ✓	3 Point/ semester	
Total					6.5 ✓		
<b>Institute Activities (Max Points 20)</b>							
S. No.	Semester	Activity	Credit Point	Criteria	Verified by		
1	Odd 2023-24	Head IQAC - NBA, Autonomous, NIRF, MIS report, MRM, Statutory Body Meetings, Online Feedback	20 ✓	5 Point/ activity			
2	Even 2023-24	Head IQAC - AQAR, ISO, MIS report, MRM, Autonomous, Statutory Body Meetings, Online Feedback	20 ✓	5 Point/ activity			
3	Odd 2023-24	Coordinator appointed by Head of Institute- SPOC - Naan Mudhalvan	5 ✓	5 Point/ activity			
4	Even 2023-24	Coordinator appointed by Head of Institute-SPOC - Naan Mudhalvan	5 ✓	5 Point/ activity			
Total			50				

20

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Research & Development Activities (Maximum Points 20)					
S. No.	Year	Activity	Credit Point	Criteria	Verified by
1	2023-24	SCI/SCI-Extended - 1 No	3	3 point /paper	
2	2023-24	Scopus/WOS/UGC Care - 2 Nos	4	2 point /paper	
3	2023-24	Research - Funding Applied - IBIP	3	Applied - 3	
4	2023-24	Research - Funding Applied - ATAL FDP	3	Applied - 3	
Total			13		

Faculty Attendance (Maximum Points 10)							
S. No.	Year	Total no of Working Days	No of Days Absent	Percentage of Attendance	Credit Point	Criteria	Enclosure no.
1	2023-24	243	CL-12, LOP-7	92% 89.9	10		
Total					10		

**Summary**

S.No	Summary	AY -1	AY -2	AY -3
1	Teaching Process (Max Points 20)	20		
2	Students' feedback (Max Points 10)	10		
3	Departmental Activities (Max Points 20)	6.5		
4	Institute Activities (Max Points 20)	20		
5	Research & Development (Max Points 20)	13		
6	Faculty Attendance (Max Points 10)	10		
7	Total (Max Points 100)	79.5	80	84
8	No of Memo Received	0		
9	Final Marks Max Points 100)	79.5		
10	Final Marks on 10 Point scale	7.95		

Note : For every memo 3 marks will be deducted from total points

*(Handwritten Signature)*

**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

### About the College:

The Mohamed Sathak A.J. College of Engineering (MSAJCE) established in 2001 under the aegis of Mohamed Sathak Trust, is affiliated to Anna University & approved by AICTE. The college is accredited by NAAC with A Grade. The Mohamed Sathak Trust has 46 years of excellence presence in the education sector, offering Technical, Arts and Science, Medical and Management Education. The MSAJCE was established with an objective of imparting quality education, developing ethical values and personality traits thereby molding the budding engineers into dynamic and deployable engineers. The college campus sprawling over 70 acres of the lush green environment is adjacent to SIPCOT IT Park, Siruseri Chennai and is surrounded by multinational IT industries such as TCS, CTS, Infosys, HCL, Aspire, Steria, Polaris, Hexaware Technologies, Intellect, LF Smidth etc.

Mohamed Sathak A.J. College of Engineering offers 8 UG Courses, and 2 PG Courses, viz B.E. in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical Engineering, B. Tech in Information Technology, Computer Science and Business System, Artificial Intelligence and Data Science, M.E. in Computer Science and Engineering & Structural Engineering.

The college provides a conducive environment for intellectual development, free-thinking, and personal growth through Self learning; Competitive based learning and Innovative learning. To support these activities 16 Technology centers with cutting edge technologies in collaboration with various industries have been established for dynamic learning opportunities and equipping them with the skills, insights, attitudes and practical experiences that are necessary to take up responsibilities in the industry and society.

### About the Department:

Electronics and Communication Engineering as the name implies deals with the use of electronics concepts and principles transfer the information from one place to other. Electronics and Communication engineering utilizes science and mathematical concepts applied to the practical problems opening new avenues to create new product to make the human lead a comfortable life. The development of ICT and its penetration has row revolutionized the new area such as health care, automation, remote sensing, advanced communication etc. This program prepares the student for both hardware and software industries such as system engineers, research and development, academicians, software Engineers, network engineers, maintenance engineers, etc.

### ORGANIZING COMMITTEE

#### CONVENOR

**Dr. I. Manju**

Head of the Dept & IQAC  
MSAJCE, Chennai.

#### CO-ORDINATOR

**Mr. K. Ramesh**, Assistant Professor  
Department of ECE,  
MSAJCE, Chennai.

#### VENUE

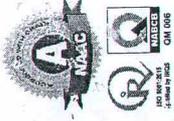
Online Platform

### IMPORTANT DATES

Last Date for receiving application (by online)	:	3 <sup>rd</sup> July 2023
Intimation of Selection	:	5 <sup>th</sup> July 2023
Confirmation by participants	:	7 <sup>th</sup> July 2023



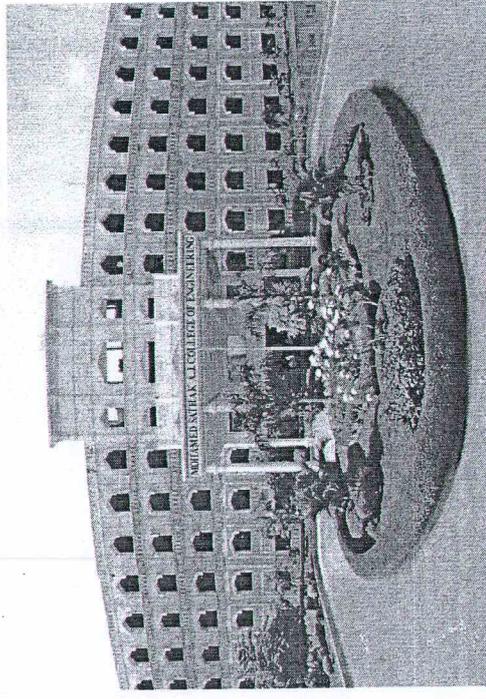
**FIVE DAYS  
ONLINE FDP  
ON**



“VLSI AND CHIP DESIGN”  
10.07.2023 to 14.07.2023

Department of Electronics and Communication  
Engineering

IN ASSOCIATION WITH IETE



ORGANIZED BY

Department of ECE,

**MOHAMED SATHAK**

**A J COLLEGE OF ENGINEERING**

(Accredited with grade 'A' by NAAC)

#34, Rajiv Gandhi Salai (OMR),

Siruseri IT Park, Siruseri,

Chennai - 603103.

DA-1

1



**MOHAMED SATHAK  
A.J. COLLEGE OF ENGINEERING**  
34, Rajiv Gandhi Salai (OMR), Siruseri IT Park, Chennai - 603 103.



**FIVE DAYS ONLINE FDP ON**

**“VLSI AND CHIP DESIGN”**

**(10.07.2023 to 14.07.2023)**

*Organised by*



**Department of Electronics and  
Communication Engineering  
IN ASSOCIATION WITH IETE**

SESSION

**01**

10.07.2023  
(10am to 12pm)

**“MOS Transistor Principles”**

**Dr.D.Meganathan,**  
Professor/Dept. of ECE,  
MIT Campus - Chennai

SESSION

**02**

10.07.2023  
(2pm to 4pm)

**“Chip Making at 0 ₹”**

**Mr. T. Baburaj,**  
ASIC Design Manager, MaxLinear  
Technologies Pvt Ltd, Chennai.

SESSION

**03**

11.07.2023  
(10am to 12pm)

**“Advanced Transistors”**

**Dr. S R. Sriram,**  
Assistant Professor/Dept of ECE,  
CEG Campus - Chennai

SESSION

**04**

11.07.2023  
(2pm to 4pm)

**“Introduction to Analog  
IC Design”**

**Mr. J. Karthik Gopal,** Manager,  
Sykatiya Technologies Pvt Ltd,  
Bangalore

SESSION

**05**

12.07.2023  
(10am to 12pm)

**“Combinational and  
Sequential Logic Circuits”**

**Dr.K.Mariammal,**  
Associate Professor/Dept. of ECE,  
MIT Campus - Chennai

SESSION

**06**

12.07.2023  
(2pm to 4pm)

**“Analog IC tool workshop”**

**Mr. J. Karthik Gopal,** Manager,  
Sykatiya Technologies Pvt Ltd,  
Bangalore

SESSION

**07**

13.07.2023  
(10am to 12pm)

**“ VLSI Memory Design”**

**Dr. E. Konguvel,** Assistant Prof.  
(Sr.Gr. 2), School of Electronics  
Engineering, Vellore Institute  
of Technology, Vellore

SESSION

**08**

13.07.2023  
(2pm to 4pm)

**“VLSI & Chip Design”**

**Mr. Velkumar G N,**  
Lead Engineer,  
Qualcomm, Bangalore

SESSION

**09**

14.07.2023  
(10am to 12pm)

**“ASIC Design and**

**Dr.S.P.Joy Vasantha Rani,**  
Professor / Dept. of ECE,  
CEG Campus - Chennai

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR),  
Siruseri - IT Park, Chennai - 603 103.

**REGISTRATION LINK :**

<https://forms.gle/rwkkYijcGmfDR9EJ9>

**Convenor :**

**Dr. I. Manju,**  
Head of the Dept. & IQAC  
MSAJCE, Chennai

**SCAN &  
PAY  
NOW**



**FOR ONLINE  
REGISTRATION  
SCAN THIS QR**



**Co-ordinators :**

**Mr. K. Ramesh,** AP / ECE  
**Mr. M. Ashokkumar,** AP / ECE



SI.No. : 9969/2024

# CERTIFICATE

→ OF PARTICIPATION →

Institute for Academic Excellence's  
5<sup>th</sup> National Level Workshop

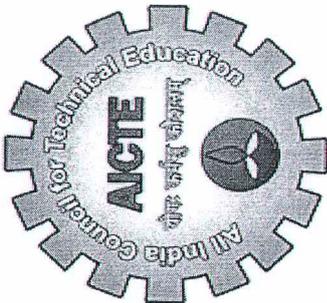
## NIRF INDIA RANKINGS 2024

This is to certify that Prof./Dr./Mr./Ms. Dr.I.Manju, Professor & Head - IQAC, ECE, Mohamed Sathak A J College of Engineering has participated in the two day "5th National Level Workshop on NIRF India Rankings 2024" for Higher Educational Institutions held on 13th & 14th December, 2023 through Online, conducted by Institute for Academic Excellence (IAE), Hyderabad.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

**DIRECTOR**  
Institute for Academic Excellence,  
Hyderabad

DA - 2 2



# ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

## *Certificate of Participation*

This is to certify that Dr. Manju I from Mohamed Sathak A. J. College of Engineering, Chennai has participated and successfully completed the 5-day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 18th December to 22nd December 2023.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (E.M.R)  
Sipcot - IT Highway Egmore,  
Chennai - 600103.

Dr. Rajneesh Arora  
Chairman  
National Coordination Committee for Induction Program

Prof. Rajive Kumar  
Member Secretary, AICTE



CENTRE FOR FACULTY & PROFESSIONAL DEVELOPMENT

ANNA UNIVERSITY :: CHENNAI - 600 025

Certificate

Dr. I. Manju, Professor .....  
Mohammed Sathak A.J. College of Engineering .....  
took part in the six-day Faculty Development Training Programme on  
CEC 331 - A9/59 Communication Networks ..... conducted in  
Physical Mode by the Department of Electronics & Communication Engineering  
at Loyola-JeAM College of Engineering & Technology, Chennai.....

from 29.01.2024 to 02.02.2024.....

*[Signature]*

PRINCIPAL  
Mohammed Sathak A.J. College of Engineering  
No.34 Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

*[Signature]*  
DIRECTOR  
CFPD

*[Signature]*  
REGISTRAR  
ANNA UNIVERSITY

# MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai  
Recognized by UGC 12B & 2f Act, An ISO: 9001-2015 Certified Institution  
Accredited by NBA, NAAC with "A" grade



in Collaboration with

## RAISE

**Centre of Excellence**  
Powered by MIT Square, London

# CERTIFICATE OF PARTICIPATION

THIS IS TO CERTIFY THAT

**Dr.I.Manju**

**Prof ECE & Head IQAC**

Mohamed Sathak A J College of Engineering, Chennai

has participated in 5 days Faculty Development Programme on

**"CRYPTOGRAPHY AND ITS APPLICATION"**

held on 26.02.2024 to 01.03.2024 organized by the RAISE Centre of Excellence,  
of our institution in association with MIT SQUARE, London.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Sathak (OMR)  
Sipcot - IT Highway Egattur  
Chennai - 603104

**Dr. S. Devikala**  
Head Student Affairs  
Convener, MSAJCE

**Dr. Mithileysh Sathiyarayanan**  
MIT Square  
Founder & CEO

**Dr. K.S. Srinivasan**  
Principal  
MSAJCE

1A-2



# CERTIFICATE

OF PARTICIPATION

Sl.No. : 10741/2024

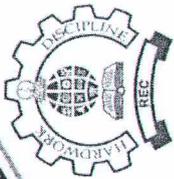
## Quality, Ranking and Accreditation of Higher Educational Institutions, and Universities National level workshop for IQAC coordinators

This is to certify that Prof./Dr./Mr./Ms. Dr.I.Manju, Professor & Head - IQAC, Electronics and Communication Engineering, Mohamed Sathak A J College of Engineering has participated in "Strategies to strengthen the Institutional Capacities for Quality, Ranking, and Accreditation" a two-day national level workshop for IQAC Coordinators of Higher Educational Institutions held on 4th & 5th April, 2024 through Online, conducted by Institute for Academic Excellence (IAE), Hyderabad.

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Sala (OMR)  
Sipcot - IT Highway Egattur,  
Chennai- 603103

**DIRECTOR**  
Institute for Academic Excellence,

DA - 2



**RAJALAKSHMI**  
**ENGINEERING COLLEGE**  
An AUTONOMOUS Institution  
Affiliated to ANNA UNIVERSITY, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
Technically Sponsored by IEEE Madras Section



**IEEE**  
Madras Section

**2024 INTERNATIONAL CONFERENCE ON**  
**COMPUTING AND DATA SCIENCE**  
**(ICCCDS-2024)**

26.04.2024 & 27.04.2024

# CERTIFICATE OF APPRECIATION

This is to certify that Dr./Mr./Ms.

**Manju I**

of

**Mohamed Sathak A J College of Engineering**

\_\_\_\_\_ has participated as Reviewer in the International Conference  
on Computing and Data Science (ICCCDS-2024) held on 26th and 27th April 2024 organized by  
Department of Computer Science and Engineering.

**Dr. K. Ananthajothi**  
Coordinator

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No. 34, Rajiv Gandhi Salai (OMR)  
Sipcot, T. Highway Egattur,  
Chennai - 603103.

**Dr. P. Kumar**  
Convener

**Dr. S. N. Murugesan**  
Principal



Certificate Number : DSA06142660



# CERTIFICATE of Completion

## DR.I.MANJU

Completed Python Course on Multiple Languages  
from Aug 2023 to Aug 2023  
through GUVI & IITM Pravartak Technologies Foundations

**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot, IT Highway Egattur,  
Chennai 603116.

M. Arunprakash  
Mr. M. Arunprakash  
Founder & CEO  
GUVI Geek Network

Deveningulihal  
Prof. Devendra Jalihal  
Project Director, IITM Pravartak  
Technologies Foundations

Dr. M J Shankar Raman  
CEO, IITM Pravartak  
Technologies Foundations

Certificate Number : DSA06142660



IT - ITes SSC  
NASSCOM

IITM  
**PRAVARTAK**  
CATALYSING INNOVATION  
Technology innovation Hub of  
IIT Madras



# CERTIFICATE

of Completion

## DR.I.MANJU

Completed Python Course on Multiple Languages  
from Aug 2023 to Aug 2023  
through GUVI & IITM Pravartak Technologies Foundations

**PRINCIPAL**  
Mohamed Sathak A. J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - I Highway Egmore,  
Chennai - 683103.

*M. Arunprakash*  
Mr. M. Arunprakash  
Founder & CEO  
GUVI Geek Networks

*Devendra Jalihal*  
Prof. Devendra Jalihal  
Project Director, IITM Pravartak  
Technologies Foundations

Dr. M. J. Shankar Raman  
CEO, IITM Pravartak  
Technologies Foundations

DA - 3

3

### College SPOC Registration

College SPOC Name  
**Srinivasan K S**

College SPOC Mobile Number  
**9150575066**

College Code  
**3118**

College District  
**CHENGALPATTU**

College SPOC Email Address  
**principal@msajce-edu.in**

College SPOC Designation  
**Principal**

College Name  
**MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING**



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Cancel

### Faculty Registration

Faculty Name	Designation	Department Name	Email Address	Mobile
<input checked="" type="checkbox"/> Ms. Ajeetha Thasneem J	Assistant Professor	Electronics and Communicat...	ece.ajeetha@msajce-edu.in	9500
<input type="checkbox"/> Ms. Kartheeswari K R	Assistan professor	Electrical and Electronics En...	eee.kartheeswari@msajce-e...	9962
<input type="checkbox"/> Ms. Gayathri A	Assistant Professor	Electrical and Electronics En...	eee.gayathri@msajce-edu.in	9789

Mr. Vimalathithan S	Associate Professor	Computer Science and Engi...	cse.vimalathithan@msajce-e...	9842
Dr. Prakash D	Associate Professor	Information Technology	it.prakash@msajce-edu.in	9842
Dr. Weslin D	Associate Professor	Information Technology	it.weslin@msajce-edu.in	9715
Dr. Someswaran R	Associate Professor	Civil Engineering	civil.someswaran@msajce-e...	9706
Dr. Devikala S	Associate Professor	Electrical and Electronics En...	eee.devikala@msajce-edu.in	9789
Dr. Manju I	Professor	Electronics and Communicat...	ece.manju@msajce-edu.in	9940
Dr. Elliss Yogesh R	Associate Professor	Civil Engineering	rellissyogesh@gmail.com	8122
Mr. Vignesh R	Assistant Professor	Civil Engineering	civil.vignesh@msajce-edu.in	8508
Dr. Shunmugasundaram M	Professor	Mechanical Engineering	mech.shanmugasundaram@...	9942



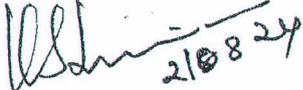
**PRINCIPAL**  
 Mohamed Sathak A.J. College of Engineering  
 No.34, Rajiv Gandhi Salai (OMR)  
 Sipcot - IT Highway Egattur,  
 Chennai - 603103.

# Mohamed Sathak A J College of Engineering, Siruseri IT Park, Chennai

(An Autonomous Institution)

## IQAC Activity for AY 2023-2024

S.No	Sem	Date/Month	Activity Details	Status
1	Odd	June 2023	Autonomous Application Submitted	Approved and Order Received from UGC and AU
2		28.07.2023	Management Report Meeting	MoM Circulated to Members
3		09.12.2023	Academic Advisory Committee - Meeting	MoM Circulated to Members
4		16.02.2023	Planning and Monitoring Committee	MoM Circulated to Members
5		06.01.2024	Governing Council Meeting	MoM Circulated to Members
6		28.02.2024	NIRF Ranking	List in Participants College
7	Even	30.04.2024	AQAR Submission	Approved
8		30.04.2024	ISO Surveillance Audit	Approved
9		08.06.2024	IQAC Meeting	MoM Circulated to Members
10		06.07.2024	Academic Council Meeting	MoM Circulated to Members
11		06.07.2024	Planning and Monitoring Meeting	MoM Circulated to Members
12		27.07.2024	Governing Council Meeting	MoM Prepared
13		Every Month	MIS Report Submitted	-

  
21/08/24



**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



विश्वविद्यालय अनुदान आयोग  
University Grants Commission  
( शिक्षा मंत्रालय, भारत सरकार )  
(Ministry of Education, Govt. of India)  
बहादुर शाह जफर मार्ग, नई दिल्ली-110 002  
Bahadur Shah Zaffar Marg,  
New Delhi – 110002

**No.F. 2-10/2023(AC-Policy)**

**January 2024**

**The Registrar,  
Anna University, Chennai**

**19 JAN 2024**

Sub: - Conferment of Autonomous Status to Mohamed Sathak AJ College of Engineering, No:34, Rajiv Gandhi Road (Omr), It Highway, Egattur, Chennai 603103, Tamilnadu affiliated to Anna University.

Sir/Madam,

This has reference to the proposal submitted by Mohamed Sathak AJ College of Engineering, No:34, Rajiv Gandhi Road (Omr), It Highway, Egattur, Chennai 603103, Tamilnadu affiliated to Anna University for conferment of autonomous status.

The Commission at its meeting held on 16.01.2024 has approved the recommendation of the Standing Committee on Autonomous Colleges to confer the autonomous status to **Mohamed Sathak AJ College of Engineering, No:34, Rajiv Gandhi Road (Omr), It Highway, Egattur, Chennai 603103, Tamilnadu affiliated to Anna University** for a period of 10 years from the academic year **2024-2025 to 2033-2034** as per clause 7.5 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023.

The University, is therefore, requested to issue necessary notification within 30 days regarding the grant of autonomous status to the College as per UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023.

The autonomous college is required to abide by all the provisions of the UGC Regulations for Autonomous Colleges. The Regulations are available on the UGC website, [www.ugc.gov.in](http://www.ugc.gov.in). Noncompliance of the requirements and conditions prescribed in the said Regulations shall attract action as per Clause -13 of the UGC (Conferment of Autonomous Status Upon Colleges and Measures for Maintenance of Standards in Autonomous Colleges) Regulations, 2023. The college should apply to University Grants Commission for extension of autonomous status at least three months before the completion of autonomy period.

Yours faithfully,

  
(Dr. Gopi Chand Merugu)  
Deputy Secretary

  
**PRINCIPAL**  
Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103. Cont..



REGISTRAR

# ANNA UNIVERSITY

CHENNAI – 600 025

Phone: + 91 44 2235 7004

Email: registrar@annauniv.edu

Letter No. 2057 / AU / CAC / Autonomous / 2023 – 24

Date: 18.03.2024

To,

**The Principal,**

Mohamed Sathak AJ College of Engineering,  
Chennai – 603 103.

Sir / Madam,

Sub: AU – CAC – Conferment of Autonomous Status – **Mohamed Sathak AJ College of Engineering, Chennai – Reg.**

Ref: 1. F. No. 2-10/2023(AC-Policy), received from UGC, dated: 19.01.2024.  
2. Minutes of the 270<sup>th</sup> Syndicate Meeting, dated: 09.02.2024.

\*\*\*\*\*

I am directed to inform you that, as per the decision of the University Syndicate (Resolution No. 270.19), '**Mohamed Sathak AJ College of Engineering, Chennai**', is conferred with 'Autonomous Status' for a period of 2 years with effect from 09.02.2024. The Syndicate further directed the following to the colleges, whose proposals had not been recommended by Anna University to the University Grants Commission (UGC) for the conferment of Autonomous status.

- i. Enactment of Statutes on Academic Matters 2023 & the norms prescribed in the statute for retaining the autonomous status.
- ii. A time period of 'TWO YEARS' shall be provided to the college for meeting the norms as prescribed in the Statutes and satisfying the student admission (minimum average of 70%) and performance of students in the University examinations (minimum pass percentage of 70%) prospectively from the date of conferment of Autonomous Status, i.e., 09.02.2024.

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
SIPCOT - IT Highway Egattur,  
Chennai - 603103.

**AQAR Review Message**

1 message

Admin-Naac <noreply.onlineassessment@gmail.com>  
To: MOHAMEDSATHAKAJCOLLEGEENGINEERING <principal@msajce-edu.in>  
Cc: onlineassessment@naac.gov.in

Wed, Jun 12, 2024 at 2:31 PM

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**

Dear User,

Institution name : MOHAMEDSATHAKAJCOLLEGEENGINEERING

Your AQAR of the year (2022-2023) has been approved successfully.

**THIS IS AN AUTO GENERATED MAIL, PLEASE DO NOT REPLY TO THIS MAIL.**

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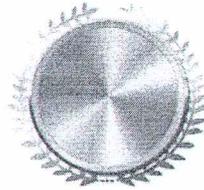
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No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.



Vetri Padhaiyil



# CERTIFICATE OF APPRECIATION



This Certificate Is Presented To

## Dr.I.Manju

**PRINCIPAL**

Mohamed Sathak A.J. College of Engineering  
No.34, Rajiv Gandhi Salai (OMR)  
Sipcot - IT Highway Egattur,  
Chennai - 603103.

Naan Mudhalvan  
Co-ordinator

from

MOHAMMED SATHAK A.J.COLLEGE OF ENGINEERING,  
CHENGALPATTU

for their continued and relentless support in the successful implementation of the Naan Mudhalvan Programme. You have been a pillar of support in carrying out this visionary programme.

**J Innocent Divya**

Managing Director,  
Tamilnadu Skill Development Corporation

Naam Mudhalvan (2023-2024) Odd and Even Semester course details				
S.No	Department	Year & Sem	Course details	NM Student count
1	Civil	I Yr/ 2nd Sem	English Language skills for Employability	2
2		II Yr/ 3rd sem	Microsoft Essentials	4
3		II Yr/ 4th sem	Employability Skills	4
4		III Yr/ 5th sem	Employability Skills	5
5		III Yr/ 6th sem	Energy Efficient Buildings	5
6		IV Yr/ 7th sem	Concrete Building System design	16
7	CSE	I Yr/ 2nd Sem	English Language skills for Employability	54
8		II Yr/ 3rd sem	Microsoft Essentials	61
9		II Yr/ 4th sem	Experience based Project Learning	61
10		III Yr/ 5th sem	IBM Skillbuild	63
11		III Yr/ 6th sem	Cloud service Management	64
12		IV Yr/ 7th sem	Full Stack Python Programing	51
13	ECE	I Yr/ 2nd Sem	English Language skills for Employability	53
14		II Yr/ 3rd sem	Microsoft Essentials	45
15		II Yr/ 4th sem	Experience based Project Learning	46
16		III Yr/ 5th sem	Nalayathiran IBM Skillbuild	33
17		III Yr/ 6th sem	Industry IOT and Industry 4.0	33
18		IV Yr/ 7th sem	Digital Marketing	25
19	EEE	I Yr/ 2nd Sem	English Language skills for Employability	5
20		II Yr/ 3rd sem	Microsoft Essentials	8
21		II Yr/ 4th sem	Employability Skills	9
22		III Yr/ 5th sem	Employability Skills	17
23		III Yr/ 6th sem	Drone Basics design assembly test	17
24		IV Yr/ 7th sem	PLC using SIMATICs	16
25	IT	I Yr/ 2nd Sem	English Language skills for Employability	49
26		II Yr/ 3rd sem	Microsoft Essentials	60
27		II Yr/ 4th sem	Experience based Project Learning	60
28		III Yr/ 5th sem	IBM Skillbuild	64
29		III Yr/ 6th sem	Cloud service Management	64
30		IV Yr/ 7th sem	Full Stack Python Programing	55
31	MECH	I Yr/ 2nd Sem	English Language skills for Employability	7
32		II Yr/ 3rd sem	Microsoft Essentials	13
33		II Yr/ 4th sem	Employability Skills	13
34		III Yr/ 5th sem	Employability Skills	24
35		III Yr/ 6th sem	Product design Engg and modelling	24
36		IV Yr/ 7th sem	Industry IOT and Industry 4.0	38
37	CSBS	I Yr/ 2nd Sem	English Language skills for Employability	18
38		II Yr/ 3rd sem	Microsoft Essentials	19
39		II Yr/ 4th sem	Experience based Project Learning	19
40	AIDS	I Yr/ 2nd Sem	English Language skills for Employability	31
41		II Yr/ 3rd sem	Microsoft Essentials	29
42		II Yr/ 4th sem	Experience based Project Learning	29





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Chennai - 603103.

# Optimizing Harmonic Mitigation for Smooth Integration of Renewable Energy: a Novel Approach Using Atomic Orbital Search and Feedback Artificial Tree Control

B. Kiruthiga, R. Karthick, I. Manju, and Krishnaveni Kondreddi

**Abstract**—This paper proposes an intelligent hybrid method for reducing harmonics to enhance power quality in a distribution system based on renewable energy sources. The proposed intelligent method, namely, the AOS-FAT technique, consolidates atomic orbital search (AOS) and a feedback artificial tree (FAT). The main objective of the proposed approach is to improve the quality of power by mitigating the harmonics. The AOS method is used to find the best values for basic and harmonic loop settings, like the shunt active power filter's direct current, voltage and the voltage at the terminals. Based on the change in load and PV parameters, a dataset variation is generated based on the objective function for minimum error. The optimal control signals are then generated using the FAT approach, which predicts the optimal parameters from the accomplished datasets. The proposed approach mitigates the overall harmonic distortion through the switching control pulses to enhance power quality. The control method concentrates on improving the maximum PV power when there is harmonic distortion by inserting the exact compensation current via the hybrid shunt active power filter. The proposed approach is implemented in MATLAB, and its performance is examined by comparing to existing methods. From the simulation outcome, the maximum PV power is 12 kW, and the THD is 1.1%.

**Index Terms**—Shunt active power filters (SAPF), nonlinear load, maximum PV power, power quality (PQ), harmonics.

Received: September 20, 2023

Accepted: December 15, 2023

Published Online: July 1, 2024

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DOI: 10.23919/PCMP.2023.000577

## I. INTRODUCTION

Harmonic mitigation is important for renewable energy systems connected to distribution systems [1]. Some of the more important power quality (PQ) issues in the distribution systems include power blackout, flicker, harmonics, notching transients, sags, and swells [2], [3]. System voltage variation is primarily caused by over-loading [4], [5], while non-sinusoidal current is caused by non-linear loads that produce harmonics in the voltage and current [6], [7]. These harmonics can cause detrimental effects on gear types of distribution systems (DSs), malfunction of defensive devices, overheating of transformers and rotating machines, capacitor bank damage, non-linear loading of sandwiched bus bars, etc. [8]–[10]. Many techniques have been introduced to mitigate such issues caused by harmonics [11], [12], e.g., a harmonic filtration system is used in industrial power systems to minimize harmonic distortion [13].

Examples of the harmonics produced in the load include those in static volt-ampere reactive compensators, switch-mode power supplies, inverters, DC converters, lightning strikes, AC or DC motor drives, and capacitor switching, and electric arc furnaces [14]. These disruptions lead to malfunction, reduced lifespan, and blocking of electrical components [15]. Various approaches have been used for harmonic reduction, e.g., differential evolution algorithms, recursive least squares, etc. [16]. The error value is analyzed by recursive least squares among the filter output and preferred signal in [17], though the recursive least squares has some drawbacks, such as its multifaceted and unstable nature [18]. Various evaluations are used for continuous functional improvement but they involve a large processing time [19]. To mitigate harmonics there are various choices, e.g., line reactors, harmonic traps, rectifiers, and low pass filters as presented in [20]–[23].

The harmonic mitigation component ensures the suppression of harmonics without causing negative effect on the electrical system [24]–[26]. However,

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# *Elytrigia Repens* Extracts Control Urban Mosquito Vectors with a Larvicidal Potential

Prakash D<sup>1</sup>, Mohideen Abdulkader M<sup>1</sup>, Sakthivel D, Manju I<sup>1</sup>, Sreenivasan K S<sup>1</sup>, Manikandan S<sup>2</sup>

## Abstract

There is over 17% of global illnesses due to Vector-borne diseases and more than a million fatalities annually found as a significant public health challenge globally. Traditional methods of mosquito control are relied heavily on chemical insecticides, and led to ecological disruptions, pesticide resistance, and adverse effects on human health and the environment. Consequently, there is a persistent need for alternative and eco-friendly strategies mosquito control. Method: In this study, we investigated the efficacy of extracts from *Eragrostis repens* (*E. repens*) against the larvae of *Aedes aegypti*, *Anopheles stephensi*, and *Culex quinquefasciatus*. Plant extracts were prepared using different solvents, and their phytochemical profiles were analyzed. The larvicidal activity of these extracts was evaluated through susceptibility tests over a 24-hour period. Results: Methanol extracts exhibited significant larvicidal activity against *Aedes aegypti*, *Anopheles stephensi*, and *Culex quinquefasciatus*, with LC50 values ranging from 43,173 ppm to 58,234 ppm. GC-MS analysis identified 11 bioactive compounds in methanol extracts, highlighting their potential insecticidal activity. Conclusion: Our findings suggest that *E. repens* holds promise as a natural

larvicide against mosquito vectors. The study highlights the importance of exploring botanical alternatives for mosquito control, offering a sustainable and environmentally friendly approach to combatting mosquito-borne diseases.

**Keywords:** *Elytrigia repens*, phytochemical screening, *Anopheles stephensi*, *Culex quinquefasciatus*.

## Introduction

More than 17% of illnesses are attributed to vector-borne pathogens, resulting in over 1 million fatalities annually (Rueda, 2008). Diseases such as dengue fever, malaria, Japanese encephalitis, and filariasis are predominantly transferred by the three genera: *Aedes*, *Anopheles*, and *Culex* (Rueda, 2008). While there are over 3000 mosquito species across 34 genera worldwide, only approximately 300 species are capable of spreading diseases to humans and other vertebrates (Rueda, 2008). In India alone, approximately 40 million people are affected annually by mosquito-borne diseases (Benelli, 2015a).

The global burden of illness, mortality, hunger, and social vulnerability, particularly in tropical countries, is largely attributable to mosquito-borne diseases (Mittal, 2003). Water disruption and chemical insecticide application targeting adult mosquitoes have been primary strategies for combating these illnesses (Tolle, 2009). Control measures involving organophosphate compounds such as chlorpyrifos, temephos, and fenthion, as well as insect growth regulators like diflubenzuron and methoprene, heavily rely on larval mosquito control (Tolle, 2009).

**Significance** | This study demonstrated larvicidal activity to prevent mosquito disease and its spread, which might be due to insecticidal phytochemicals in the extract.

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E-mail: prakashmsaj09@gmail.com

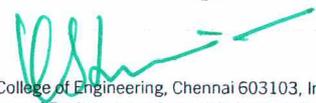
## Author Affiliation.

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## Please cite this article.

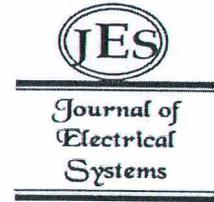
Prakash D, Mohideen Abdulkader M, Sakthivel D, Manju I et al. (2024). *Elytrigia Repens* Extracts Control Urban Mosquito Vectors with a Larvicidal Potential, *Journal of Angiotherapy*, 8(3), 1-8, 9593

  
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Editor Mohamed Khadeer Ahamed Basheer And accepted by the Editorial Board Mar 8, 2024 (received for review Jan 2, 2024)

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Krishna<sup>2</sup> N. Praveena<sup>3</sup> I. Manju<sup>4</sup> N. Malathi<sup>5</sup> K. Balakrishnan<sup>6</sup> M. Preetha

## IoT-Enabled Wireless Sensor Networks and Geospatial Technology for Urban Infrastructure Management



**Abstract:** - This study is the first to evaluate how effectively urban infrastructure may improve using an innovative approach that combines IoT-enabled wireless sensors, geospatial technology, and machine learning. Smart healthcare monitoring and management is a particular focus. We conducted a series of experiments and evaluations to prove the effectiveness of this approach in actual urban environments. In this research, a series of sensor networks is developed and deployed to collect real-time health data from patients. It is sent to a central controller, and then on up to the cloud for analysis. Various machine learning algorithms are used - such as ANN, LR, DT, and SVM - to predict patient health status on the basis of sensor readings. The results of our experiments show that the ANN model achieved an accuracy rate surpassing all others at 98.65%. Geospatial technology is also looked at in the research as a way to visualize and analyze urban health data. This is necessary for informed decision-making by healthcare providers and urban planners. This research paves the way for smarter, more resilient, and sustainable urban environments by using the latest technology and data-driven methods to advance urban infrastructure Management.

**Keywords:** IoT-enabled wireless sensor networks, geospatial technology, machine learning, urban infrastructure management, smart healthcare monitoring.

### I. INTRODUCTION

In today's modern world, rapid urbanisation has brought huge challenges for urban infrastructure. Looking at the frenzied growth of cities, urban life has complex needs of a (and the urgent need for innovation to satisfy those needs). Simply put, sustainability, resilience, and efficiency must now be strategic imperatives. In this context, ITs such as the Internet of Things (IoT), wireless sensor networks (WSNs), geospatial technology, and machine learning have emerged as a new force in urban infrastructure management that holds great promise. This kind of technology can make it possible to gather information on a scale never before dreamed and use it

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Coordinator

ece.manju@msajce-edu.in



Coordinator

Submitted Applications

Edit Resource Person

Profile

FDPs

FDPs Schedule

Applied Participants

Approved Participants

Test Marks

Feedbacks

Feedbacks Form

Attendance

Certificate

Important Documents

Industrial Visit Section

Payment Detail

Status

Coordinator Details :

ATAL Application Number: 1716007870

Title :	Dr.	Name :	I Manju
Phone :	9940055026	Gender :	Female
Email :	ece.manju@msajce-edu.in	Date of birth :	1975-05-28
Designation :	Professor Level (AICTE Institute)	Allocated Designation at Host institute :	Professor
Employee ID(If any) :	13149	Total Teaching Experience :	27
Department :	Electronics and Communication Engineering	Coordinator Age:	49
Father's Name :	Iruthayanathan C	Alternative Number :	9500325106
Alternate Email :		Coordinator Research Publication Published :	21
Scholar Profile website URL :	<a href="https://scholar.google.com/citations?user=NC0nDKsAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=NC0nDKsAAAAJ&amp;hl=en</a>	Address :	34, Rajiv Gandhi Salai, Siruseri, Chennai
State :	TAMIL NADU	District :	Kancheepuram
Pincode :	603103	Signature :	

Co-coordinator Details :

Co-Coordinator Name :	Dr Mohideen AbdulKader M	Co-Coordinator Email :	Dr Mohideen AbdulKader M@msajce-edu.in
Co-Coordinator Age :	33	Co-coordinator Gender :	Male
Co-coordinator Institute Status :	Host Institute	Co-coordinator Institute :	Mohamed Sathak A J College of Engineering
Designation of Co-coordinator :	Assistant Professor Level (AICTE Institute)	Other Co-coordinator Designation :	Assistant Professor
Experience of Teaching :	8	Co-coordinator Department :	Computer Science and Engineering
Co-coordinator Phone Number :	9831254636	Co-coordinator Employee ID :	11201

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Sipco - IT Highway Egattur,  
Chennai - 603103.

**Mohamed Sathak AJ College of Engineering, Chennai - 603 103****Faculty Appraisal Form-Non teaching**

Name					
Father / Husband Name :				Occupation:	
DOB :	AGE :	Gender : Male / Female			
Present Address :	Permanent Address :				
Contact No:		Mail Id:			
Department					
Designation					
Date of Joining in this Institution:					
<b>Academic Qualifications</b>					
Name of the Degree	College & University	Specialization	Month & Year of Passing	(%) Marks & Class	Mode*
Degree					
Diploma					
12th					
10th					
<b>Professional Experience</b>					
Name of the Institution / Industry	Period	Designation	Years	Total Years	
<b>II Self Growth (20%)</b>					
( Workshop / Training / Courses ) Attended					
Title of the Programme	Organized By	Duration	Sponsored By		

PRINCIPAL

MOHAMED SATHAK A.J.COLLEGE OF ENGINEERING  
Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

<b>III Department Development Activities (30%)</b>			
Responsibilities Assigned in department level		Outcome	Remarks
<b>IV Institutional Development (35%)</b>			
Responsibilities Assigned in College level		Outcome	Remarks
<b>Consolidated Report</b>			
Sl.No	Category	Marks Awarded	Marks Obtained
I	HoD Recommendation	30	
II	Self Growth	20	
III	Department Development	30	
IV	Institutional Development	20	
	Total	100	
Supporting Documents Required		1. Relevent Documents to support all claims as annexure	
<b>Signature of the Faculty</b>		<b>Signature of Reviewe Committee</b>	

Format No :247

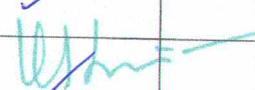


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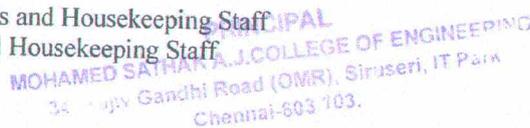


## MOHAMED SATHAK AJ COLLEGE OF ENGINEERING

(Approved by All India Council for Technical Education,  
New Delhi and affiliated to Anna University, Chennai)  
Siruseri IT Park, Egattur, Chennai - 603 103.  
Ph: 27470021, 23, 24 & 25 Fax: 27470022

NAME	S. Saraswathi			
DESIGNATION	Lab Instructor			
DEPARTMENT/SECTION	ECE			
APPRAISAL CATEGORY	EXCELLENT	GOOD	SATISFACTORY	POOR
	4	3	2	1
<b>1. PROFESSIONAL COMPETENCE</b>				
**Knowledge of rules, regulation and procedure		✓		
Ability to organize work and carry it out		✓		
Ability and willingness to take up additional load in times of exigencies	✓			
Ability to learn new duties	✓			
**Capacity to supervise		✓		
*Response to instructions and guidance of supervisor			✓	
*Response to feedback of supervisor			✓	
<b>2. QUALITY OF WORK</b>				
**Ability to maintain Files /Records		✓		
Accuracy & Speed of work	✓			
Neatness and tidiness of work		✓		
Completion of work on schedule		✓		
*Execution of work with team spirit			✓	
<b>3. PERSONAL CHARACTERISTICS</b>				
Regularity			✓	
Punctuality		✓		
Interaction with colleagues and students				

\*\*Not applicable for Attenders and Housekeeping Staff  
\*Applicable for Attenders and Housekeeping Staff

  
 MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING  
 24 - 1st Gandhi Road (OMR), Siruseri, IT Park  
 Chennai-603 103.

HOD SIGN

**Mohamed Sathak AJ College of Engineering, Chennai - 603 103**

**Faculty Appraisal Form-Non teaching**

Name	S. Saraswathi		
Father / Husband Name :	G. Sowrirajan	Occupation:	Lab Assistant
DOB :	30/07/1971	AGE :	53
Gender :	Male / Female		
Present Address :	F14 Staff quarters, SSN College Eng		
Permanent Address :			
Contact No:	9789066188	Mail Id:	examcell.saraswathi@msajce-educ.in
Department	ECE		
Designation	DECE, DCS		
Date of Joining in this Institution:	03/03/2022		

**Academic Qualifications**

Name of the Degree	College & University	Specialization	Month & Year of Passing	(%) Marks & Class	Mode*
Degree					
Diploma ✓	Sri Sowdambika Polytechnic		1990	1st class	
12th					
10th					

**Professional Experience**

Name of the Institution / Industry	Period	Designation	Years	Total Years
East Coast Enterprises	1998 02/09/1993 to	System work DECE, DCS	5	
Sri Annai Instruments	05/05/2004 to	Technical Staff	3	20 yr
BKM School, Kolabakkam	01/06/2007 to	Teacher	2	
SMK Omra college of Engines	06/06/2012/22	Lab Assistant	10	

**II Self Growth (20%)**

( Workshop / Training /Courses ) Attended

Title of the Programme	Organized By	Duration	Sponsored By
Bulk Sms Training		10 Days	

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Gandhi Road (OMR), Siruseri, IT Park  
Chennai-603 103.

III Department Development Activities (30%)			
Responsibilities Assigned in department level		Outcome	Remarks
Stock invoice Maintenance		Maintained Stock invoice in props Manu.	
IV Institutional Development (35%)			
Responsibilities Assigned in College level		Outcome	Remarks
Exam Cell.			
Admission activity		Lab. Counselling	
Consolidated Report			
Sl.No	Category	Marks Awarded	Marks Obtained
I	HoD Recommendation	30	
II	Self Growth	20	
III	Department Development	30	
IV	Institutional Development	20	
	Total	100	
Supporting Documents Required		1. Relevent Documents to support all claims as annexure	
Signature of the Faculty		Signature of Reviewe Committee	

Format No :247



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