

IGNITE 2023



WEEKLY NEWSLETTER

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FACULTY ACHIEVEMENT

Clean Technologies and Environmental Policy
<https://doi.org/10.1007/s10098-023-02558-4>

ORIGINAL PAPER



Assessment of solar thermal monitoring of heat pump by using zeolite, silica gel, and alumina nanofluid

G. Antony Casmir Jayaseelan¹ · A. Surenderpaul² · T. Thandial Selvam² · A. Anderson³ · A. Senthilkumar¹ · Avinash Malladi⁴ · R. Venkatesh⁵ · V. N. Aneesh⁶ · R. Saravanan⁷

Received: 31 March 2023 / Accepted: 8 June 2023
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Abstract

Modern industries utilize solar thermal energy in heat pump applications due to its enhanced performance and improved plant efficiency. The investigation presents the effective utilization of solar thermal energy in heat pump applications using different fluid pairs like zeolite/water, silica gel/water and alumina nanofluid/water. The effect of fluid pairs on heat transfer rate, thermal adsorption and mass loss of heat pump is monitored by STA Netzsch 409 differential thermogravimetric apparatus with a temperature range of 15–200 °C. The heat transformation of a heat pump is estimated by various water absorbed amounts of 0/1, 0/15, 0/20, 0/25, 0/30, 0/35 and 0/4 g/g under 0.005, 0.01, 0.05, 0.1, 1, 10 and 100% relative humidity. The result revealed that the alumina nanofluid-operated heat pump found higher thermal adsorption behaviour of 41.28W/m °C. The heat transfer rate of the alumina/water fluid pair was 117 kJ/mol. Different adsorption temperature points predict the saturation point of alumina at 0–200 min.

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- ³ School of Mechanical Engineering, Sathyabama Institute of Science and Technology, Chennai, Tamil Nadu 600119, India
- ⁴ Department of Mechatronics Engineering, Faculty of Science and Technology, ICFAI Tech, ICFAI Foundation for Higher Education, Hyderabad, Telangana 501203, India
- ⁵ Department of Mechanical Engineering, Saveetha School of Engineering, SIMATS, Chennai, Tamil Nadu 602105, India
- ⁶ Department of Mechanical Engineering, UKF College of Engineering and Technology, Parippally, Kerala 691302, India

Published online: 27 June 2023

Springer



Mr. A. Surenderpaul and Mr. T. Thandial Selvam,
Assistant Professor, Department of Aerospace Engineering
published a paper in Clean Technologies and
Environmental Policy (Springer).

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FACULTY ACHIEVEMENT

You are requested to convene the First Doctoral Committee meeting with the following two experts, on or before 27th June 2023 at Sathyabama Research Park, Sathyabama Institute of Science and Technology, Chennai. You are asked to attend the Doctoral Committee meeting along with the prescribed course work, which will facilitate the candidate to undergo course work.

1. Dr. B Sheela Rani, Director (Research) Sathyabama Institute of Science and Technology, Chennai.
2. Dr.L Sharmila, Professor, Department of Computer Science & Engineering, Agni College of Technology, Chennai.

The scholar has to pay the first semester fee of Rs.25,000/- (Twenty five Thousand only) through

PAYMENT GATEWAY URL for payment is https://fees.sathyabama.ac.in/phdfees_home.php

A copy of fee receipt is to be maintained at your end and also a copy of the same is to be sent to below mail id of meeting.

After completion of the Doctoral Committee meeting, the following documents are to be submitted to the Research office on the same day of your meeting.

1. Minutes of DC Meeting
2. Claim form with account details of DC Members /Supervisor duly signed should be submitted.
3. Course work registration Form 2 (Sl.No.7) with fee transferred receipt for coursework Examination
4. Identity Card form (Sl.no.3)

The Registration Number of the research scholar is 2023791118. In all future correspondence please quote the Registration Number for reference. The Half yearly progress report in the prescribed format commencing from the date of provisional registration, should be obtained by the research scholar duly signed by supervisor at the end of each semester and should be submitted on the day of review meeting conducted in July / January by the candidate.

Yours

B. Sheela Rani
Director (Research) 23/6/2023.

Copy to

1. Dr. B Sheela Rani, Director Research Sathyabama Institute of Science and Technology, Chennai.
2. Dr.L Sharmila, Professor, Department of Computer Science & Engineering, Agni College of Technology, Chennai.
3. Head, Department of Computer Science & Engineering, Sathyabama Institute of Science & Technology, Jeppiaar Nagar, Chennai.



Dr.L.Sharmila, Professor and Head, Department of Computer Science and Engineering had received an intimation on 27th June from Sathyabama Institute of Science and Technology to act as a DC member for an internal research scholar.

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FACULTY ACHIEVEMENT

Measurement: Sensors

Available online 26 June 2023, 100853

In Press, Journal Pre-proof ? What's this? ↗

Enhancing human sight perceptions to optimize machine vision: Untangling object recognition using deep learning techniques

Sharika Krishnaveni S^a  ,
Kavitha Subramani^a , Sharmila L^b ,
Sathiya V^a , Maheswari M^a ,
Priyaadarshan B^c 

- ^a Department of Computer Science and Engineering, Panimalar Engineering College, Chennai, India
- ^b Department of Computer Science and Engineering, Agni College of Technology, Chennai, India
- ^c Department of Information Technology, Panimalar Institute of Technology, Chennai, India

Received 23 February 2023, Revised 18 May 2023, Accepted 25 June 2023, Available online 26 June 2023.

FEEDBACK 

Dr.L.Sharmila, Professor and Head, Department of Computer Science and Engineering has published a research paper titled "Enhancing human sight perceptions to optimize machine vision: Untangling object recognition using deep learning techniques" on 26th June in Measurements: Sensor journal (Scopus indexed Elsevier journal)

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AN EVENT IN ASSOCIATION WITH IIC 5.0



The Department of Computer Science and Engineering has conducted an event in association with IIC 5.0 on a topic "A Session on Innovation and Start-up Ecosystem Enablers" on 28th June 2023. Mr. Harish Kasi, Director & CEO and Mr. Gowri Shankar G shared their realistic thoughts on how to begin a start-up, 1st year CSE students attended the session and shared their start-up innovative ideas.

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FACULTY PARTICIPATION



Mrs. Vishnu Priya N.R ,Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

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FACULTY PARTICIPATION



WEEKLY NEWSLETTER

Mrs. Shimona.S, Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

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FACULTY PARTICIPATION



Mrs. Prinslin L, Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

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FACULTY DEVELOPMENT PROGRAM

Department of Electronics and communication Engineering organized a five days faculty development program associated with ICT academy titled **“Robotic Process Automation Associate”** on 19.06.2023 to 23.06.2023. 15 internal and 15 external participants have attended this FDP from VIT University, AVIT, Jeppiar, KCG, Hindustan University and PSB college.

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FDP INAUGURAL



Dr. Srinivasan Alavandar, Principal, Mr. Adham Basha, regional manager, ICT academy, Dr. N.V.S. Sree Rathna Lakshmi, Professor & Head, Electronics and Communication Engineering. Mr. Kumaraguru, the trainer of ICT academy addressed the participants and inaugurated the FDP.

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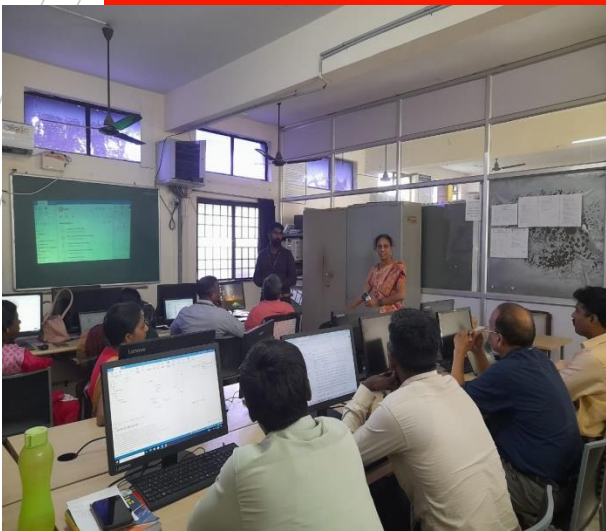
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FDP VALEDICTORY



The Faculty Development Program valedictory function held on 26.06.23, **Dr. N.V.S. Sree Rathna Lakshmi**, Professor & Head, Electronics and Communication Engineering, end up the program with vote of thanks and feedback from external participants .

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FACULTY ACHIEVEMENT



Dr. N.V.S Sree Rathana Lakshmi, Professor & Head, and **Dr. R. Ratheesh**, Assistant professor, Department of Electronics and Communication Engineering have attended a **five days FDP** on **“Robotic Process Automation Associate”** from 19.06.23 to 23.06.23 in Agni College of Technology

FACULTY ACHIEVEMENT



Dr. J. Rajeswari, and Ms. P. Chitra, Assistant professors, Department of Electronics and Communication Engineering have attended a five days FDP on “Robotic Process Automation Associate” from 19.06.23 to 23.06.23 in Agni College of Technology

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FACULTY ACHIEVEMENT



Mr. M. Mohamed Ismail, Assistant professor, Department of Electronics and Communication Engineering has attended a **five days FDP on** **“Robotic Process Automation Associate”** from 19.06.23 to 23.06.23 in Agni College of Technology

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RESEARCH CENTER ACTIVITY

Mr. Soundara Raja Pandian defended his Ph D public Viva-voce Exam titled **“Network Optimization and Security Enhancement for Cloud base E-learning Platforms”** in the presence of Dr. N.V.S Sree Rathna Lakshmi, Professor & Head, Electronics and Communication Engineering, Research coordinator, Dr. Christopher Colombus, Professor, VIT University, Dr. Surendiran B, Associate Professor, NIT Puducherry and Dr. P. Eswaran, Associate Professor, Alagappa University, in Agni College of Technology

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FACULTY ACHIEVEMENT

Citation: Ismail, K.H.M.; Arun Kumar, M.; Mahalingam, S.; Kim, J.; Aichudan, R. Recent Advances in Molybdenum Disulfide and Its Nanocomposites for Energy Applications: Challenges and Development. *Materials* **2023**, *16*, 4471. <https://doi.org/10.3390/ma16124471>

Academic Editors: Daniele Davino and Carmine Stefano Clemente

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Materials **2023**, *16*, 4471. <https://doi.org/10.3390/ma16124471>

www.mdpi.com/journal/materials

Mr. K. Mohamed Ismail, Assistant Professor, Department of Electronics and Communication Engineering has Published a manuscript titled **“Recent Advances in Molybdenum Disulfide and Its Nanocomposites for Energy Applications: Challenges and Development”** in materials journal, SCOPUS, SCIE Indexed, Impact Factor: 3.748.

FACULTY ACHIEVEMENT



Dr. N.V.S Sree Rathana Lakshmi, Professor & Head, Department of Electronics and Communication Engineering has participated in the World Record of **“Largest Attendance in Virtual Yoga Class”** organized by Habuild.

FACULTY ACHIEVEMENT





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is awarded to



AJAY KUMAR M
AGNI COLLEGE OF TECHNOLOGY
CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

ELECTRIC VEHICLES - PART 1
JAN - APR 2023



Mentees Enrolled	Mentees Present	Score (in %)					Toppers
		<40	40-59	60-74	75-89	>=90	
6	5	3	1	1	0	0	0



PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mr.Ajay Kumar M, Assistant Professor, Department of Electrical and Electronics Engineering was awarded with a **Certificate of Appreciation** in recognition of his role as mentor for the NPTEL Online Certification Course on **Electrical Vehicles – Part 1** during Jan – Apr 2023

FACULTY ACHIEVEMENT





CERTIFICATE
OF APPRECIATION
is awarded to



RADHIKA SOMAKUMAR
AGNI COLLEGE OF TECHNOLOGY
CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

ELECTRIC VEHICLES - PART 1
JAN - APR 2023



PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)					Toppers
		<40	40-59	60-74	75-89	>=90		
7	5	2	0	3	0	0	0	0

Ms Radhika Somakumar, Assistant Professor, Department of Electrical and Electronics Engineering was awarded with a **Certificate of Appreciation** in recognition of her role as mentor for the **NPTEL Online Certification Course** on **Electrical Vehicles – Part 1** during Jan – Apr 2023

FACULTY PARTICIPATION



Dr. S. Kuzhaloli, Associate Professor, Department of Mechatronics Engineering has participated in **5 days Faculty Development Program on Robotic Process automation Associate (UiPath)** conducted by ICT Academy from 19th to 23rd June 2023 at Agni College of Technology.

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FACULTY PARTICIPATION



Mrs. D. Selvamarilakshmi, Assistant Professor, Department of Mechatronics Engineering has participated in **5 days Faculty Development Program on Robotic Process Automation Associate (UiPath)** conducted by ICT Academy from 19th to 23rd June 2023 at Agni College of Technology.

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FACULTY PARTICIPATION



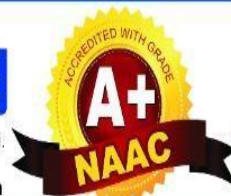
Dr. Deepak Sampathkumar, Assistant Professor, Department of Mechanical and Automation Engineering has participated in 5 days offline Bootcamp on Innovation, Design and Entrepreneurship (IDE) organized by Ministry of Educations Innovation Cell (MIC) & AICTE from 22nd to 26th June 2023 at National Institute of Technical Teachers Training and Research, Chennai .

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FACULTY PARTICIPATION



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RAGUPATHY K

AGNI COLLEGE OF TECHNOLOGY
CHENNAI, TAMIL NADU



in recognition of his/her role as mentor for the
NPTEL Online Certification course

COMPUTER INTEGRATED MANUFACTURING

JAN - APR 2023



Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
18	17	0	1	10	6	0	0

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

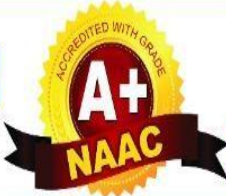
Dr. K. Ragupathy, Assistant Professor, Department of Mechanical & Automation Engineering has been awarded with a Certificate of Appreciation in recognition of his role as a mentor for the NPTEL Online Certification Course Computer Integrated Manufacturing during Jan-Apr 2023.

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ARUN M

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CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

MATERIALS SCIENCE AND ENGINEERING

JAN - APR 2023

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras



Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
14	11	11	0	0	0	0	0

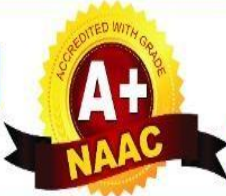
Mr. Arun M, Assistant Professor, Department of Mechanical & Automation Engineering has been awarded with a Certificate of Appreciation in recognition of his role as a mentor for the NPTEL Online Certification Course Materials Science and Engineering during Jan-Apr 2023.

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3 publications have cited your work since Jun 6th 2023.

Analysis of friction and wear of aluminium AA 5083/ WC composites for building applications using advanced machine learning models

Santhosh, N.; Praveena, B. A.; Jain, Reema; Abul Hasan, Mohd; Islam, Saiful; et al.
Ain Shams Engineering Journal

Dr. Arul Kulandaivel, Head – Science & Humanities has received **citation alert** for his publication from **Web of Science Clarivate**, Q1 Ranked Journal.

FACULTY ACHIEVEMENT

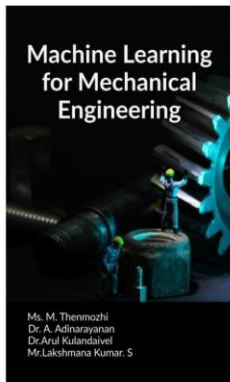
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Home / Books By Genre / Educational & Professional / Machine learning for mechanical engineering



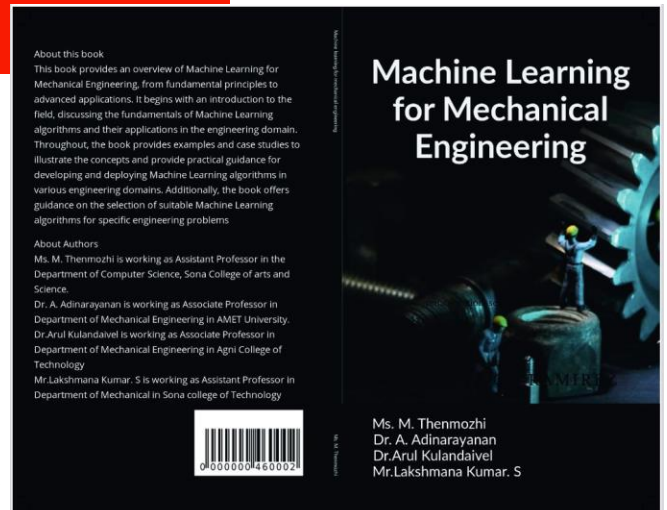
Machine learning for mechanical engineering

Author Name: Ms. M. Thenmozhi | Format: Paperback | Genre: Educational & Professional | Other Details

Machine learning is an emerging field of engineering that has revolutionized the way mechanical engineering is conducted. It is the practice of using algorithms to identify patterns, classify data, and make predictions from large datasets. By leveraging the power of machine learning, mechanical engineers can create more efficient, precise, and cost-effective solutions to everyday problems. This book will provide an overview of machine learning concepts and tec

[Read More...](#)

Paperback: ₹ 390



Dr. Arul Kulandaivel, Head – Science & Humanities has published the book *Machine Learning for Mechanical Engineering*.

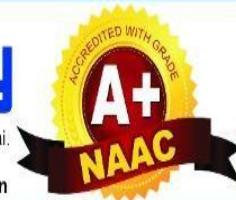
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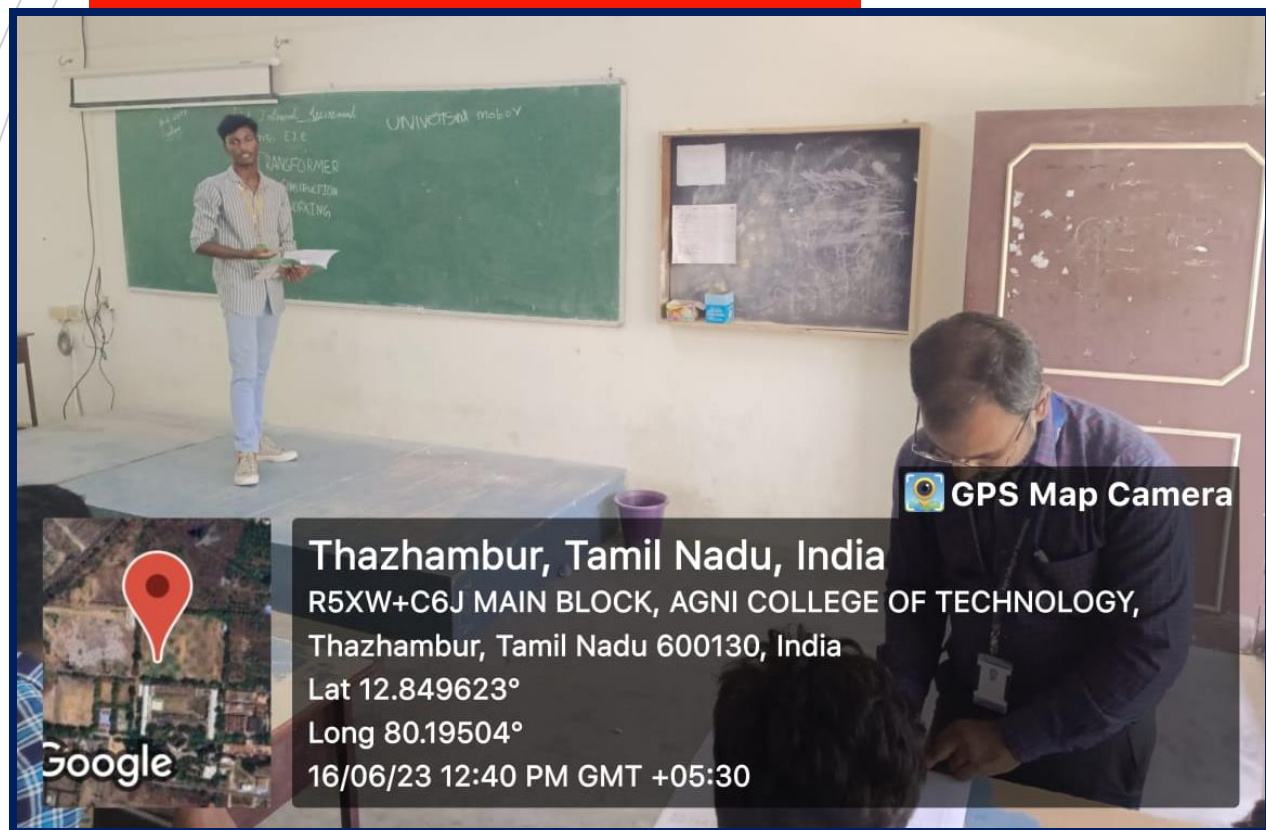
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STUDENT PARTICIPATION



Mathan kumar. S (ECE) first Year - Department of Science and Humanities as presented a **Seminar on Universal motor** regarding Internal assessment for the subject BE3254 - Electrical & Instrumentation Engineering on 16.06.2023 under the guidance subject incharge T. Feridinand, Assistant professor, Department of EEE

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STUDENT PARTICIPATION



S. Nandhini (IT) first Year - Department of Science and Humanities has attended the **One day Workshop on Artificial Intelligence** on 25.06.2023 conducted by Top Engineers – India at IIT Madras Research Park, Chennai

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ISO 9001:2015 Certified Institution: Estd.2001
OMR, Thalambur, Chennai - 600 130. Phone: 044 6740 9441 Mobile: 9445024081 www.act.edu.in



FACULTY PARTICIPATION



Mrs. Shimona.S, Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

FACULTY PARTICIPATION



Mrs.UmaDevi.G, Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

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FACULTY PARTICIPATION



Mrs. Prinslin L, Assistant Professor, Department of Computer Science and Engineering has participated in 5 day Faculty Development program on Robotic process Automation conducted by ICT Academy on 19th June 2023 to 23rd June 2023 at Agni college of technology

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FACULTY ACHIEVEMENT



Mr.V.Sabaresan (AP/IT Dept) has Awarded as an **Active SPOC** for Swayam-NPTEL local chapter during January - April 2023.

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FACULTY ACHIEVEMENT



CERTIFICATE
OF APPRECIATION
is awarded to

SABARESAN VENUGOPAL
AGNI COLLEGE OF TECHNOLOGY
CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course
THE JOY OF COMPUTING USING PYTHON



JAN - APR 2023


PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
46	21	0	5	15	1	0	0

Mr.V.Sabaresan(AP/IT) Awarded as a top performing mentor for Swayam - NPTEL local chapter JAN - APRIL 2023 for the subject The Joy of computing using python.

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CHENNAI, TAMIL NADU

in recognition of his/her role as mentor for the
NPTEL Online Certification course

DATA BASE MANAGEMENT SYSTEM

JAN - APR 2023

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras



Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
42	18	12	6	0	0	0	0

Mrs.Suganthi P Awarded as **Best Mentor** for Swayam - NPTEL local chapter JAN - APRIL 2023 for the subject Database management system.

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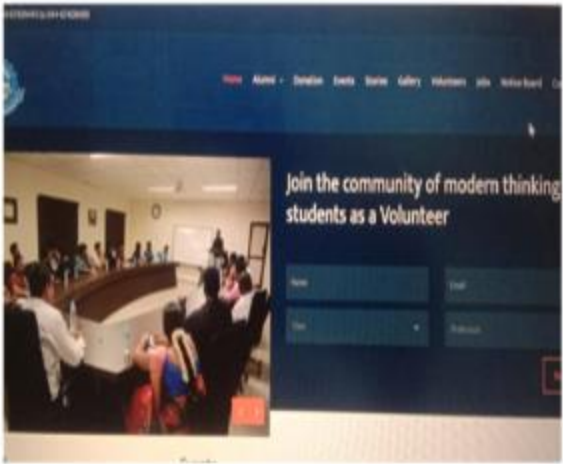


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ALUMNI ASSOCIATION MEET



Alumni association meeting was held at 24.6.2023 in board room, Discussion made about Agni alumni portal and website development for the growth of students, Finally **Mr Aakash and Mr Peter** have done a good efforts to link the Alumni portal in our college website sucessfully.

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WEBINAR



The Department of Biochemical Engineering organized and conducted a webinar on **ZIFO placement** tactics on 23rd June 2023 for the final year students.

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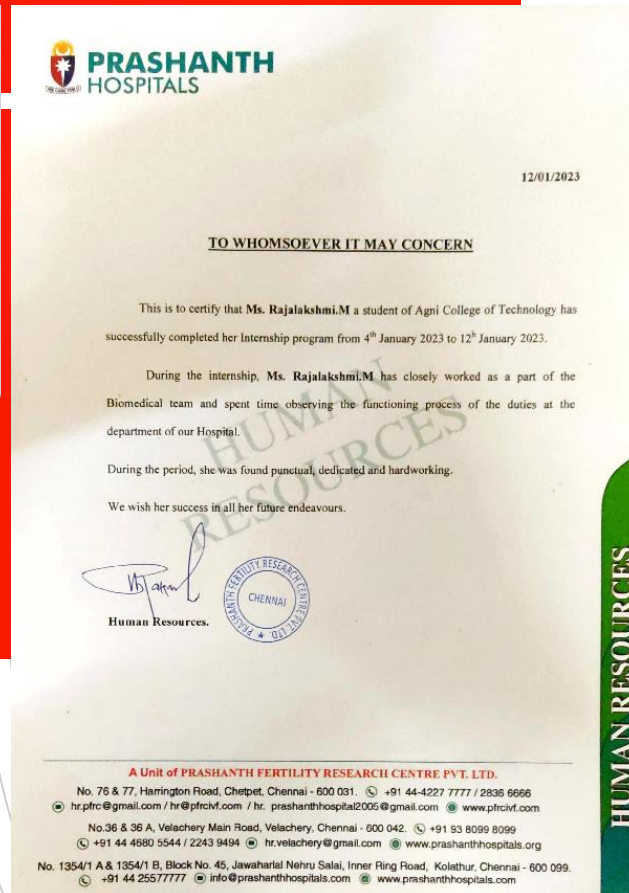
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STUDENT INTERNSHIP



Rajalakshmi. M, Final year, Biomedical Engineering Student was successfully completed her Internship program from 4th January to 12th January 2023 at Prashanth Hospital, Chennai.

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