



NEWS LETTER –MARCH 2025

Faculty Achievements/Participations:

1. **Dr Rutuja Deshmukh and Dr Sarika Patil** was Reviewer – Track Image and Signal Processing in 7th IEEE International Conference on Emerging Smart Computing and Informatics (IEEE ESCI-2025) during 5th – 7th March 2025.
2. **Dr Rutuja Deshmukh** and team submitted a patent application with application number 453313-001 .
3. **Dr. Mrs Sarika Patil** published a paper on “Analysis and prediction of thermo-physical properties in water-based MWCNT-ZnO hybrid Nano fluids using ANN and ANFIS models” in International Journal of Thermofluids 27 (2025) 101159 Science direct .
4. **Mrs. Manisha Ranjitsing Rajput and Mrs. Vasanti Vivek Vedpathak** attended a one-week research workshop on Selecting The Right Research Topic & Writing a Strong Research Proposal.
5. **Dr Prashant S. Titare** worked as the reviewer for Scopus, SCI indexed Journal of Wiley publication named as "The International Journal of Communication Systems"
6. **Mrs Swati Aswale** working as a Member of Local Advisory Committee of International Conference on Innovative Multidisciplinary Perspective and Collaborative Transformation in Science and Technology (IMPACT-2025) held on 27th March 2025 at Rajarshee Shahu Science College, Chandur Railway, Dist. Amravati.
7. **Mrs Swati Aswale** submitted a paper to International Conference on Innovative Multidisciplinary Perspective and Collaborative Transformation in Science and Technology(IMPACT-2025).
8. **Mrs Swati Aswale** submitted a paper to International Conference on Multidisciplinary Innovations for Global Sustainability and Development (MIGS-2025)
9. **Mrs Shilpa Jagtap** submitted one research article is submitted in Journal- Journal of Signal Processing Systems in month of March.
10. **Mrs Vasti Vedpathk** submitted a paper 4th International Conference on Distributed Computing and Electrical-Electronic Circuits (ICDCECE-2025).

Name of Faculty Coordinator :

Dipalie Pujari

Dr. Rutuja Deshmukh
Head of the Department



D Y PATIL COLLEGE OF ENGINEERING, AKURDI, PUNE 44

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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7th IEEE INTERNATIONAL CONFERENCE ON 'Emerging Smart Computing & Informatics 2025'
5th - 7th March 2025
Technically Co-Sponsored by IEEE

This certificate is proudly presented to **Dr. Rutuja Deshmukh**, Affiliation **D.Y. Patil College of Engineering, Akurdi, Pune** for role of **Reviewer - Thesis Image and Signal Processing in 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2025)** during 5th - 7th March 2025. Our reviews have been very helpful to authors for improving the quality of their papers.

Dr. N.A. Thakur, Technical Program Chair
Dr. K.S. Wagh, Organizing Chair
Dr. P.G. Mase, General Chair

Design Application Details

Application Number: **453313.00**
CBR Number: 206984
CBR Date: 28/03/2025 10:57:48
Applicant Name:
1. Dr. Mrs. Rutuja Deshmukh
2. Mrs. Swati P. Aswale
3. Mrs. Vishwata Bagal
4. Mrs. Shalaja Yadav
5. Mrs. Jaya Wakode
6. Dr. Mrs. P. Malathi

Design Application Status

Application Status: Application Under Process (awaiting for Technical Examination)

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7th IEEE INTERNATIONAL CONFERENCE ON 'Emerging Smart Computing & Informatics (ESCI-2025)'
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This certificate is proudly presented to **Dr. Sanjay Desai**, Affiliation **D.Y. Patil College of Engineering, Akurdi, Pune** for role of **Reviewer - Thesis Image and Signal Processing in 7th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2025)** during 5th - 7th March 2025. Our reviews have been very helpful to authors for improving the quality of their papers.

Dr. N.A. Thakur, Technical Program Chair
Dr. K.S. Wagh, Organizing Chair
Dr. P.G. Mase, General Chair

Nuhianwali Education Society
Sirsa (Haryana) India

Certificate of Participation

This certificate is presented to **Mrs. Manisha Ranjitsing Rajput**, Assistant Professor, D.Y. Patil College of Engineering, Akurdi, Pune, Maharashtra for successfully attending a one-week research workshop on **Selecting The Right Research Topic & Writing a Strong Research Proposal** from 10/03/2025 to 15/03/2025 through online mode organized by **Nuhianwali Education Society**.

My Research Guide

Dr. Kulwant Singh Kookna, Resource Person
(Vaka Godara), President
Nuhianwali Education Society

Nuhianwali Education Society
Sirsa (Haryana) India

Certificate of Participation

This certificate is presented to **Mrs. Vasanti Vivek Vedpathak**, Assistant Professor, D.Y. Patil College of Engineering, Akurdi, Pune, Maharashtra for successfully attending a one-week research workshop on **Selecting The Right Research Topic & Writing a Strong Research Proposal** from 10/03/2025 to 15/03/2025 through online mode organized by **Nuhianwali Education Society**.

My Research Guide

Dr. Kulwant Singh Kookna, Resource Person
(Vaka Godara), President
Nuhianwali Education Society

International Journal of Thermofluids

Analysis and prediction of thermo-physical properties in water-based MWCNT-ZnO hybrid nanofluids using ANN and ANFIS models

Surendra D. Bavevra¹, Prithvi G. Kalot², Balaji Bhatthavatchaloo³, Mahesh Joshi⁴, Sankar Patil⁵, Mahesh Gondekar⁶

ABSTRACT

In this study, the thermal conductivity and viscosity of water-based nanofluids containing water-based hybrid nanofluid (MWCNT-ZnO) prepared by the researcher. Three mathematical models such as mathematical regression, artificial neural network, and adaptive-network-based inference were employed for the prediction of the thermal conductivity of the water-based hybrid nanofluid. The study found that the thermal conductivity of the water-based hybrid nanofluid increases with the increase in the concentration of the nanofluid. The study also found that the thermal conductivity of the water-based hybrid nanofluid increases with the increase in the concentration of the nanofluid. The study also found that the thermal conductivity of the water-based hybrid nanofluid increases with the increase in the concentration of the nanofluid.

WILEY

Reviewer Certificate

This certificate is awarded to **PRASHANT TITARE** for serving as a reviewer for **International Journal of Communication Systems**

Thank you for reviewing 1 manuscript in 2024

25 March 2025
Professor Mohammad S. Obaidat
Editor-in-Chief

Name of Faculty Coordinator :

Dipalje Pujari

Dr. Rutuja Deshmukh
Head of the Department

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Department Activities:

- 1.The department organized the Parent Teacher Meet on 22/3/2025 in Offline mode.
- 2.Industrial visit of BE was conducted at Catch Industries Kullu Himachal Pradesh .



Name of Faculty Coordinator :

Dipalie Pujari

Dr. Rutuja Deshmukh
Head of the Department

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Students Achievements:

- 1.Sarthak Manish Ambhore scored 29.79 marks in GATE 2025 exam.
- 2.Omkar Sominath Mote scored 21.33 marks in GATE 2025 exam.
- 3.Pratik Valse received a certificate of appreciation form IQAC DYPCOE for excellent presentation.
- 4.Sarthak Ambhore was runner up in the sports event Rotarena .
- 5.Shravani Deshmane Successfully completed the internship program at CODTECH IT SOLUTIONS in “EMBEDDED SYSTEMS.” from January 25th, 2025 to March 10th, 2025.with unwavering dedication.
- 6.Aditi Agarawal completed the internship program at CODTECH IT SOLUTION in “Python Programming from February 10h, 2025 to March 10th,2025.



Name of Faculty Coordinator :

Dipalje Pujari

Dr. Rutuja Deshmukh
 Head of the Department