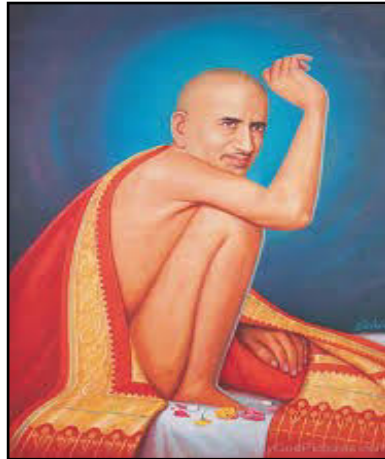


NEWS LETTER - JANUARY 2025



Vision

Empowerment through Knowledge

Mission

To educate the students to transform them as professionally competent and quality conscious engineers by providing conducive environment for teaching, learning, and overall personality development, culminating the Institute into an International seat of excellence.

NEWS LETTER - JANUARY 2024

College Team:

Dr. Mrs. P. Malathi, Principal

Dr. Sandeep S. Sarnobat, Vice Principal

Dr. Madhuri A. Potey , HOD, Computer Engineering

Dr. Preeti Patil, HOD, Information Technology

Dr. Bhausahab B. Musmade, HOD, Instrumentation & Control

Dr. Ashok More, HOD, Civil Engineering

Dr. Pravin T. Nitnaware , HOD, Mechanical Engineering

Dr. Vinayak G. Kottawar, HOD, Artificial Intelligence & Data Science

Dr. Nitin K. Kamble, HOD, Robotics & Automation

Dr. Rutuja Deshmukh, HOD, Electronics & Telecommunication

Dr. Manisha Tanwer ,HOD, F Y B Tech

Dr. Sanjay K. Babar, Dean First Year

Dr. Sandeep Shiyekar, R&D Co-ordinator

Dr. Vinay A. Kulkarni, OBE Co-ordinator

Dr. Manish Sharma, Innovation Cell Co-ordinator

Mrs. Trupti Wagh, Student Affairs Co-ordinator

Mr. Lalit Chaudhary, Training and Placement Officer

Mr. Prashant Bhalerao, Registrar



NEWS LETTER - JANUARY 2025

Newsletter Team:

Dr. Mrs. P. Malathi (Principal)

Mrs. Dipalee Divakar Rane , Assistant Professor, Computer Engineering

Mrs. Arti A. Utikar, Assistant Professor, Instrumentation & Control

Mrs. Swati S. Jadhav, Assistant Professor, First Year Engineering

Mr. Hiranman Jadhav, Assistant Professor, Information Technology

Ms. Dipalie Pujari, Assistant Professor, Electronics & Telecommunication

Mrs. Monika P. Ugale, Assistant Professor, Mechanical Engineering

Mrs. Trupti Lonkar, Assistant Professor, AI and DS

Mrs. Neha Bagdiya, Assistant Professor, Civil Engineering

Mrs. Tejas Jadhav, Assistant Professor, Robotics & Automation

Ms. Supriya Sathe , Assistant Professor , Computer Engineering

Mr. Ganesh Nimgire, Assistant Professor, First Year Engineering

NEWS LETTER - JANUARY 2025

Department Activities : FDP on “A Role of spirituality in transforming education and research”

1. First Year B Tech Department had organized one week offline FDP on “A Role of spirituality in transforming education and research” from 27-31 January 2025. On first day 27 January Ms. Ridhima Dua, New Code NLP Trainer inaugurated function as chief guest and had given guidance on topic oneness.
2. On same day from 11:30 Am-1:00 Pm Dr.Sudhindra Sarnobat, HR Chief of i-Source Info systems and Executive Founder & Director of the SMS Foundation Pune had given insightful and thought provoking talk on “Spiritual Leadership”. From 2:00-3:00 Pm Dr. Shrikant Kallurkar Founder-Level Up, Pune had given insightful and thought provoking talk on “Aligning Personal



FDP on “A Role of spirituality in transforming educa-

Name of Faculty Coordinator :

Mr.Ganesh Nimgire

Wellbeing with professional Growth”.

Dr.Manisha Tanwer

Head of F Y B Tech Department

NEWS LETTER - JANUARY 2025

Department Activities : FDP on “A Role of spirituality in transforming education and research”

1. On 28 January in first session from 10:30-12:00 Dr.Sudhindra Sarnobat, HR Chief of i-Source Info systems and Executive Founder & Director of the SMS Foundation Pune had given insightful and thought provoking talk on “Creating Sacred and Energetic Learning Spaces”.
2. On 28 January in second session from 1:00-2:30Pm Dr.Dattatraya Tapkir, Educationist had given insightful and thought provoking talk on “Teaching with Purpose”.



FDP on “A Role of spirituality in transforming education and research”

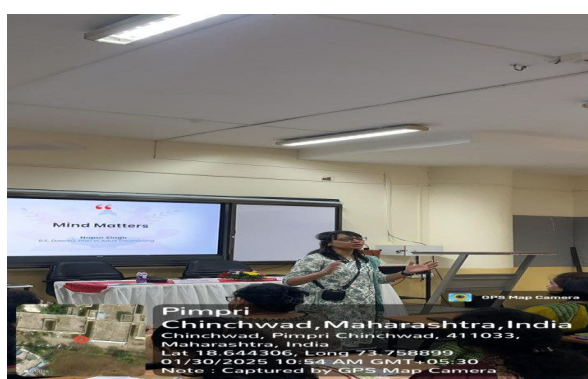
Name of Faculty Coordinator :

Mr.Ganesh Nimgire

Dr.Manisha Tanwer
Head of F Y B Tech Department

Department Activities : FDP on “A Role of spirituality in transforming education and research”

1. On 29 January in first session from 10:30-12:00 Dr. Deepak Ranade, Consultant, Neurosurgeon, Seeker-The Speaking Tree had given insightful and thought provoking talk on “Empowering students to embrace uncertainty and adaptability”.
2. On 30 January in first session from 10:30-12:00 Ms.Nupur Singh, Corporate Trainer & Facilitator had given insightful and thought provoking talk on “Movement and Meditation- engaging the whole self”.
3. On 30 January in second session from 1:00-2:30 Pm Dr. Surendra Herkal, Principal, MIT, Pune had given insightful and thought provoking talk on “Role of awareness and presence in Transformative education”.
4. On 31 January 2025 there had been an outdoor activity conducted at Bharti Resort for all



FDP on “A Role of spirituality in transforming education and research”

Name of Faculty Coordinator :

Mr.Ganesh Nimgire

FYB Tech Department faculties

Dr.Manisha Tanwer

Head of F Y B Tech Department

NEWS LETTER JANUARY 2025

Faculty Participation :

1. Mrs Savita Jatti had attended FDP on “Sustainable Smart Cities: Integrating Technology and Infrastructure” organized by Met’s Institute Of Engineering from 06-11 Jan 2025 .
2. Mr.Rameshwar Dhoke had attended FDP on “Carbon Footprint: Paving the Way to Sustainable Solution” organized by Department of Electrical Engineering in association with Polycab India Ltd and Climekare Sustainability Pvt Ltd from 14-18 Jan 2025 .
3. Mrs Madhuri Gurale Mrs.Komal Borate & Mr Rameshwar Dokhe had attended workshop on “NPTEL E-Awareness” on 21 Jan 2025.
4. Mr.Sunil Payghan had attended STTP on “Retrofitting and Rehabilitation of Building Structure” organized by NITTTR Bhopal from 20-24 Jan 2025.



Faculty Participations

Name of Faculty Coordinator :

Mr.Ganesh Nimgire

Dr.Manisha Tanwer
Head of F Y B Tech Department

NEWS LETTER - JANUARY 2025

Faculty Participation :

1. Dr.Aryani Gangadhara had attended FDP on “Mathematics Behind deep Learning” organized by Dr. Bapuji Salunkhe Institute of Engineering and Technology from 20-24 Jan 2025 .
2. All FYBTech Faculties had attended FDP on “A role of spirituality in transforming education and research” organized by Department of FYBTech D Y Patil College of Engineering, Pune from 27-31 Jan 2025 .
3. Mrs Savita Jatti, Dr.Vrushali Patil ,Ms. Neeta katariya ,Mrs. Sabrina Kazi ,Mrs.Rutuja Pokharkar & Mrs.Pramila Karalehad attended ATAL FDP on “Global Scenario of Sustainable Energy and Climate Change” from 27 Jan – 01 Feb 2025.



The collage displays four certificates of participation from the All India Council for Technical Education (AICTE) and Skill India. Each certificate is issued to a faculty member of D.Y. Patil College of Engineering, Akurdi, for attending a Faculty Development Program (FDP). The certificates include the following details:

- Top Left Certificate:** Issued to Dr. Aryani Gangadhara for attending an online FDP on "Mathematics Behind Deep Learning" from 20 Jan to 24 Jan 2025. Organized by Dr. Bapuji Salunkhe Institute of Engineering & Technology (BSIET). Co-ordinators: Mr. S. S. Khandekar, Ms. S. A. Patil, Mr. H. T. Shinde, Mr. S. A. Mujawar, Dr. S. G. Sapate, Prof. V. D. Bhirdi.
- Top Right Certificate:** Issued to Miss Rutuja Bala Pokharkar for attending an FDP on "Global Scenario of Sustainable Energy and Climate Change" from 27/01/2025 to 01/02/2025. Organized by PIMPRI CHINCHWAD EDUCATION TRUST'S PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH.
- Bottom Left Certificate:** Issued to Mrs. Pramila Guruprasad Wakhure, Assistant Professor of D. Y. Patil College of Engineering, Akurdi, Pune for attending an FDP on "Global Scenario of Sustainable Energy and Climate Change" from 27/01/2025 to 01/02/2025. Organized by PIMPRI CHINCHWAD EDUCATION TRUST'S PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH.
- Bottom Right Certificate:** Issued to Mrs. Savita Vinaykumar Jatti, Faculty member of the AICTE approved institutions of D.Y. Patil College of Engineering, Akurdi, Pune for attending an FDP on "Global Scenario of Sustainable Energy and Climate Change" from 27/01/2025 to 01/02/2025. Organized by PIMPRI CHINCHWAD EDUCATION TRUST'S PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH.

Faculty Participations

Name of Faculty Coordinator :

Mr.Ganesh Nimgire

Dr.Manisha Tanwer

Head of F Y B Tech Department



Faculty Achievements/ Participation :

1. Dr. Abhijit Patankar, Dr. Kalyan Bamane, Ms. Vaishali Kolhe, Mrs. Nilam Patil have published the paper on “ Design And Development Of Two Level Security For Data Using Integration Of Biometric Authentication And Bcrypt Algorithm” in African Journal of Biomedical Research.

2. Dr. Abhijit Patankar, Dr. Kalyan Bamane, Mrs. Nilam Patil, Dr. Shanthi Kumaraguru have published the paper on “Enhancement in Selection Process of Institute by CET Score using Cutoff Prediction and Recommendation System with Integrated Chatbot ” In African Journal of Biomedical Research.



<https://africanjournalofbiomedicalresearch.com/index.php/AJBR>
Afr. J. Biomed. Res. Vol. 27(4s) (December 2024); 5757-5767
Research Article

Enhancement in Selection Process of Institute by CET Score using Cutoff Prediction and Recommendation System with Integrated Chatbot

Mrs. Nilam Patil^{1*}, Dr. Shyam Deshmukh², Dr. Kalyan Bamane³, Dr. Shanthi Kumaraguru⁴, Dr. Abhijit Patankar⁵, Mrs. Archana Jadhav⁶, Dr. P. Malathi⁷

^{1*}Assistant Professor, Dept of Computer Engineering D Y Patil College of Engineering Akurdi, nspatil@dypcoeakurdi.ac.in

²Assistant Professor, Dept of Information Technology, PICT, SPPU, Pune, dshaym100@yahoo.com

³Associate Professor, Dept of Computer Engineering D Y Patil College of Engineering Akurdi, kdbamane@dypcoeakurdi.ac.in

⁴Assistant Professor, Dept of Computer Engineering D Y Patil College of Engineering Akurdi, skumarguru@dypcoeakurdi.ac.in

⁵Associate Professor, Dept of Computer Engineering D Y Patil College of Engineering Akurdi, ajpatankar@dypcoeakurdi.ac.in

⁶Assistant Professor, Dept of Information Technology, JSPM's Rajashri Shahu College of Engineering, Tathawade Pune, kadamarchana75@gmail.com

⁷Professor, Dept of Electronics & Telecommunication, D Y Patil College of Engineering Akurdi, pmalathi@dypcoeakurdi.ac.in



<https://africanjournalofbiomedicalresearch.com/index.php/AJBR>
Afr. J. Biomed. Res. Vol. 27(4s) (December 2024); 5740 - 5756
Research Article

Design And Development Of Two Level Security For Data Using Integration Of Biometric Authentication And Bcrypt Algorithm

Ms. Vaishali Kolhe^{1*}, Mrs. Nilam Patil², Dr. Kalyan Bamane³, Dr. Abhijit Patankar⁴, Mrs. Sulbha Yadav⁵, Mrs. Archana Jadhav⁶, Shweta Mandal⁷

^{1*}Assistant Professor, Department of Computer Engineering, D. Y. Patil College of Engineering, Akurdi, Pune, India, vkolhe@dypcoeakurdi.ac.in

²Assistant Professor, Department of Computer Engineering, D. Y. Patil College of Engineering, Akurdi, Pune, India, nspatil@dypcoeakurdi.ac.in

³Associate Professor, Department of Computer Engineering, D. Y. Patil College of Engineering, Akurdi, Pune, India, kdbamane@dypcoeakurdi.ac.in

⁴Associate Professor, Department of Computer Engineering, D. Y. Patil College of Engineering, Akurdi, Pune, India, ajpatankar@dypcoeakurdi.ac.in

⁵Assistant Professor, Lokmanya Tilak College of Engineering, Kopkhairane, Navi Mumbai, India, sulbha.yadav@gmail.com

⁶Assistant Professor, Department of Information Technology, JSPM's Rajashri Shahu College of Engineering, Tathawade, India, kadamarchana75@gmail.com

⁷shmandalbm@gmail.com, Department of Computer Engineering, D. Y. Patil College of Engineering,

Faculty Achievements/ Participation

Name of Faculty Coordinator :

Ms. Supriya Sathe

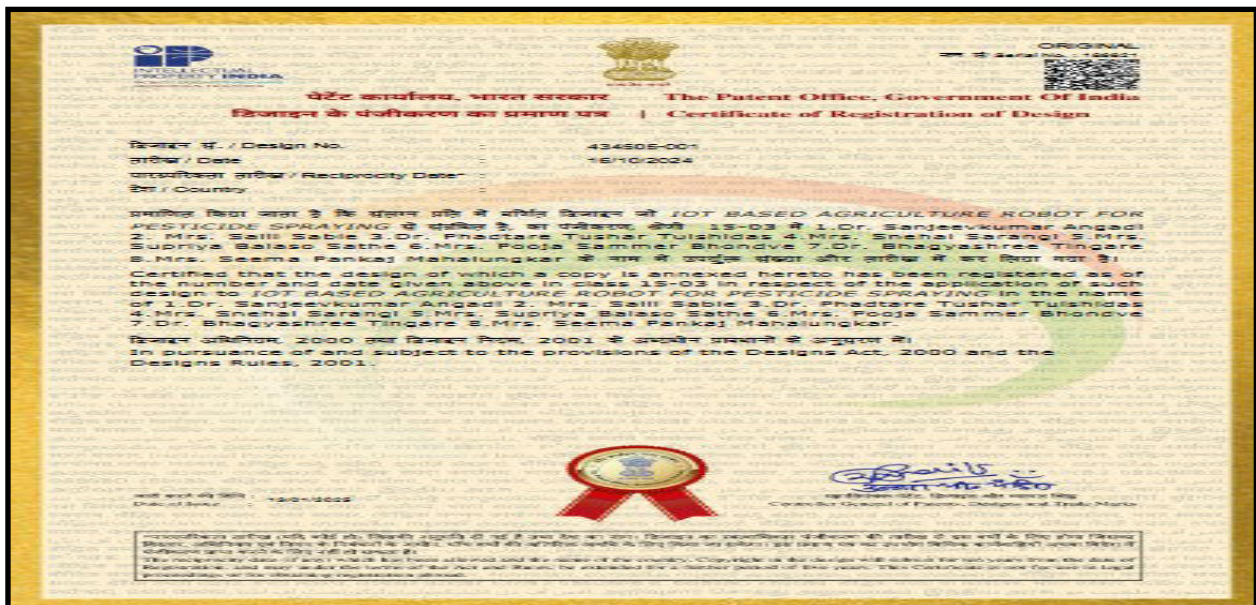
Dr Mrs. M. A. Potey

Head of Department

Faculty Achievements/ Participation :

3.Ms.Viashli Kolhe, Dr.D.D.Rane and Ms.Namrata Soni have successfully attended Three Day's National Level Online Faculty Development Program On "Biomaterials and it's applications in the field of Engineering" held from 09 Jan - 11 Jan 2025

4.Ms.Snehal Sarangi, Ms. Pooja Bhondve and Ms. Supriya Sathe have published the patent on “ OT BASED AGRICULTURE ROBOT FOR PESTICIDE SPRAYIN ”



Faculty Achievements/ Participation

Name of Faculty Coordinator :

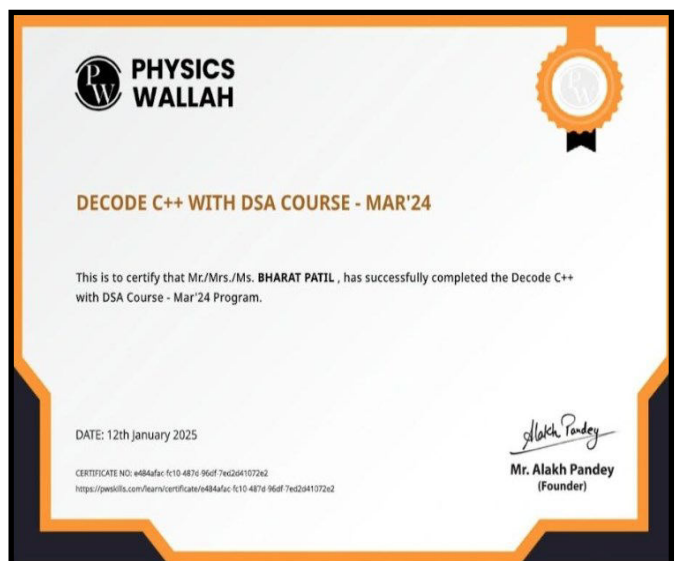
Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department



Students' Achievements/ Participation :

1. Atharva Swai has completed course on “ The Complete 2024 web Development Bootcamp” organized by UdeMy
2. Akshay Gadekar has completed course on “ Introduction to cyber security ” organized by simplilearn Skillup
3. Aishwarya Gujrathi has completed course on “ AWS Data engg” organized by AWS academy .
4. Bharat Patil has completed course on “ C++ with DSA ” organized by PHYSICS WALLAH.



Students' Achievements/ Participation

Name of Faculty Coordinator :

Ms. Supriya Sathe

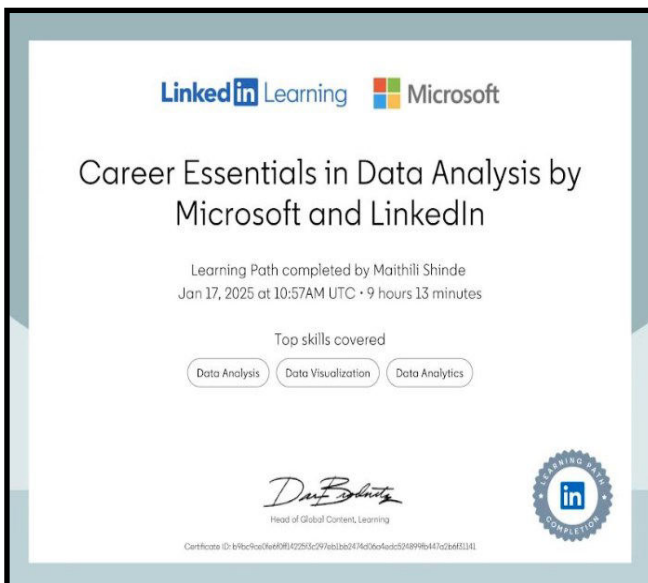
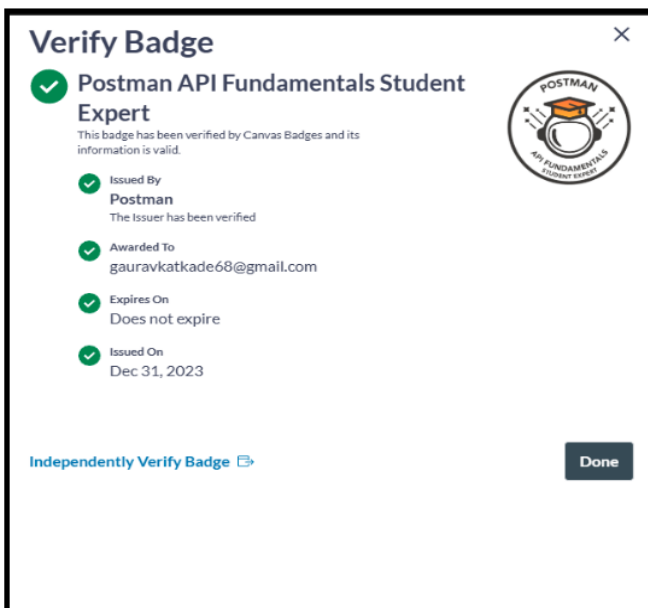
Dr Mrs. M. A. Potey

Head of Department



Students' Achievements/ Participation :

5. Gaurav Katkde has completed course on " POSTMEN API fundamental " organized by POSTMEN.
6. Gaurav Katkde has completed course on " Mastering Data Structure and Algorithms using C and C++ " organized by Udemy.
7. Maithali Shinde has completed course on " Career Essentials in Data Analysis " organized by Microsoft and LinkedIn
8. Roshna Adhav has completed course on " DSA with JAVA " organized by APNA college.



Students' Achievements/ Participation

Name of Faculty Coordinator :

Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department

Students' Achievements/ Participation :

9. Shivendraraje Khedekar has completed course on “ User Experience Design learn UI UX App Design with Figma “ organized by Udeemy.

10. Siddhant Pitlawar has participated in Chess competition organized by Kurukshetra event and won the game .

11..Pranav Rajesh Mali (SE- A), Prathmesh Shyam Athawale (SE-A) , Vivek Thakare (TE -B), Raj wagh (TE-B), Ishwari Gawande(SE-A), Tanishka Gandhi(SE-A), Dinki Chaudhari(SE-A), Sakshi Jagtap (BE-A) have participated in NSS camp organized by DYP COE, Akurdi at Mahagaon from 24/01/2025 to 30/01/2025



Students' Achievements/ Participation

Name of Faculty Coordinator :

Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department



Students' Achievements/ Participation :

- 12. Shivendraraje Khedekar has completed course on “ CSS and JavaScript Complete Course for Beginners ” organized by Udemy.
- 13. Sanket Kotkar has completed course on “ Python for data science ” organized by IBM.
- 14. Tejas Pawar has completed course on “ Full Stack Developer ” organized by APNA college.
- 15. Tanishka Gandhi has completed course on “ Power BI ” organized by simpli earn Skillup



Students' Achievements/ Participation

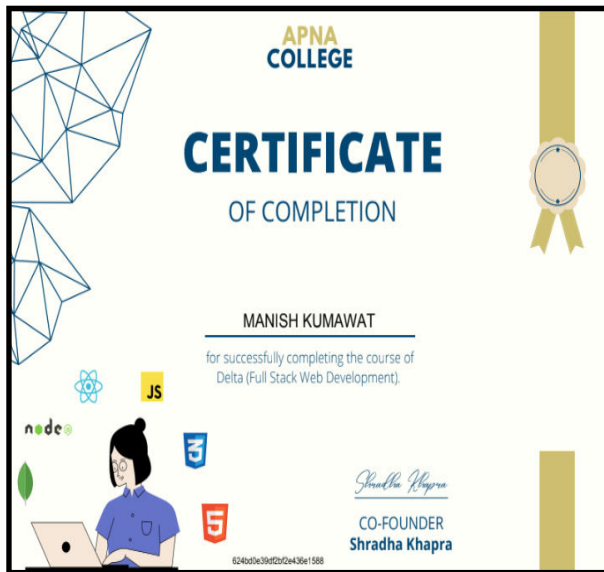
Name of Faculty Coordinator :

Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department

Students' Achievements/ Participation :

- 15. Aditya Meher has completed course on "Introduction to data analytics " organized by IBM.
- 16. Krishna Bavekar has completed course on " Career Essentials in Data Analysis" organized by Microsoft and LinkedIn
- 17. Manish Kumawat has completed course on " Full Stack Developer " organized by APNA college.
- 18. Mansi Mhase has completed course on " AWS Cloud Foundation " organized by AWS academy .



Students' Achievements/ Participation

Name of Faculty Coordinator :

Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department



Students' Achievements/ Participation :

19.Sangini Suskar has completed course on “ Connect and protect Networks and Network security ” organized by Google .

20.Aniket Gotale has participated in the workshop “AI Tools and ChatGpt ” organized by be10X



Students' Achievements/ Participation

Name of Faculty Coordinator :

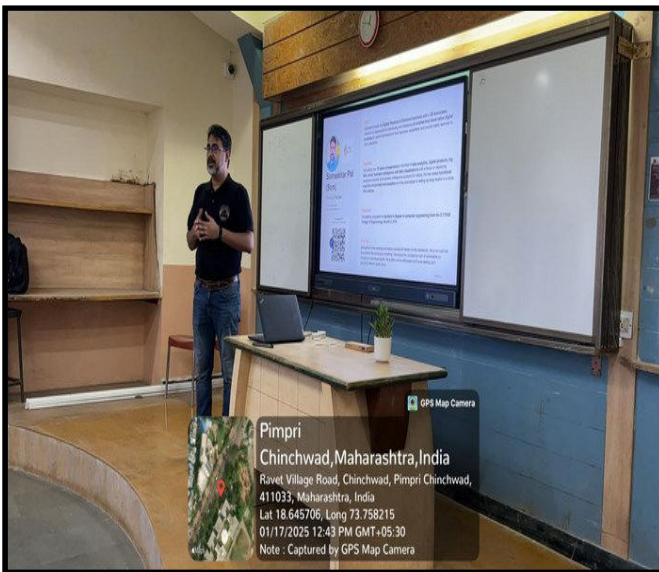
Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department

Department Activities:

1. Pradnyan ACM Student Chapter of Department of Computer Engineering, D Y Patil College of Engineering Akurdi Pune has organized Expert session on the topic, " Data Analytics from a Business Lens" for TE Computer Engineering students on 17/1/2025. The speaker of the session was Mr Somsekhar Pal, Principal/Partner, ZS Associates, Pune and Alumni(2005 batch) of the department.

2. Pradnyan ACM Student Chapter have organised expert session by Mr Mukesh Bhandarge, Excellent Cyber Forensics and Web Securities LLP Pune under MoU in classroom no 12 on, "Cyber security and Digital Forensics" total 48 students were present for the session.



Department Activities:

Name of Faculty Coordinator :

Ms. Supriya Sathe

Dr Mrs. M. A. Potey

Head of Department

Department Activities:

3. Pradnyan ACM Student Chapter of Department of Computer Engineering, D Y Patil College of Engineering Akurdi Pune has organized Extension activity on “Digital and social, media awareness as a social activity” for 8th and 9th std students of New English High School, Shikshan Prasarak Mandal, Bijlinagar, Akurdi on 24/01/2025.

4. ACES organized IKS activity : Santdarshan Hadashi on 28/01/2025 for T.E. students.



Department Activities:

Name of Faculty Coordinator :

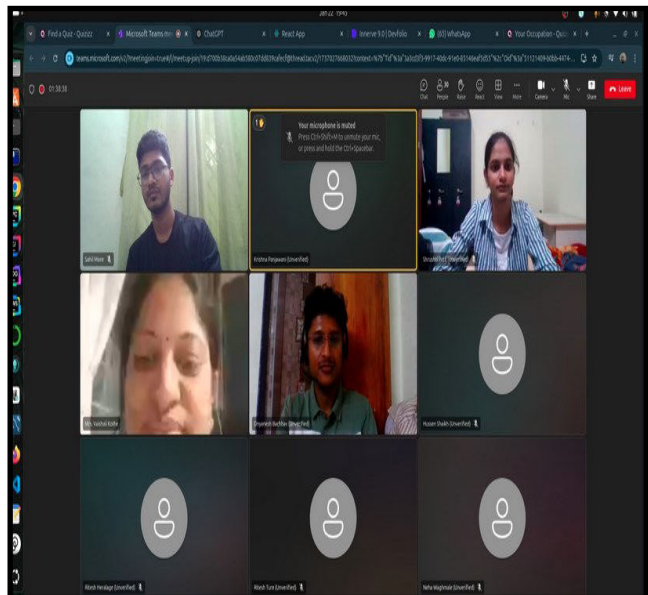
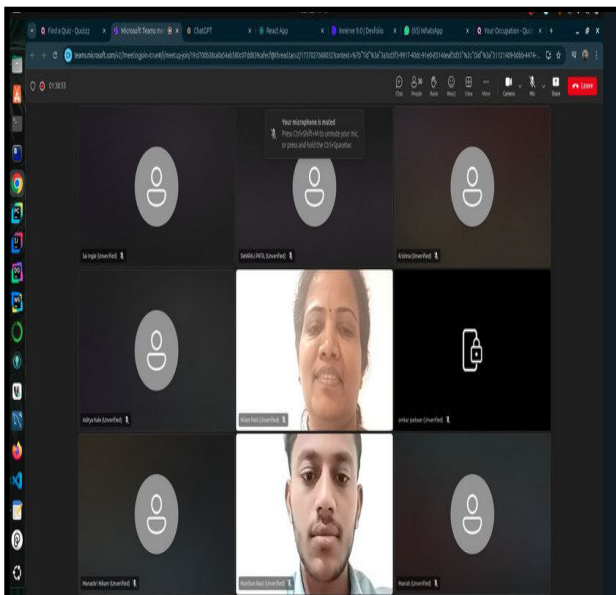
Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department

Department Activities:

5.Mr. Dnyanesh Bachchav (Alumni Batch 2024), Software Engineer at Rockwell conducted Workshop (online) on Industrials trends in Application development using JAVASCRIPT on 22/01/2025-24/01/2025 from 6.15pm -8.15pm for SE students.

6..Dr.M.A.Potey, Ms. S. T. Somvanshi and Ms. M. N. Patil faculty members visited to NSS camp organized by DYPCOE, Akurdi at Mahagaon on 28/01/2025



Department Activities:

Name of Faculty Coordinator :

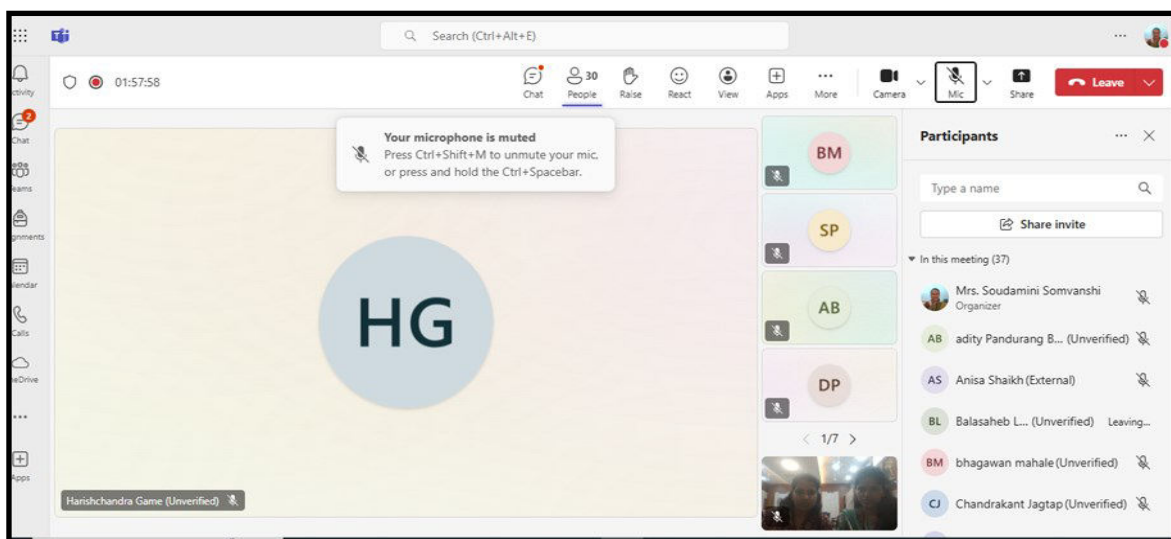
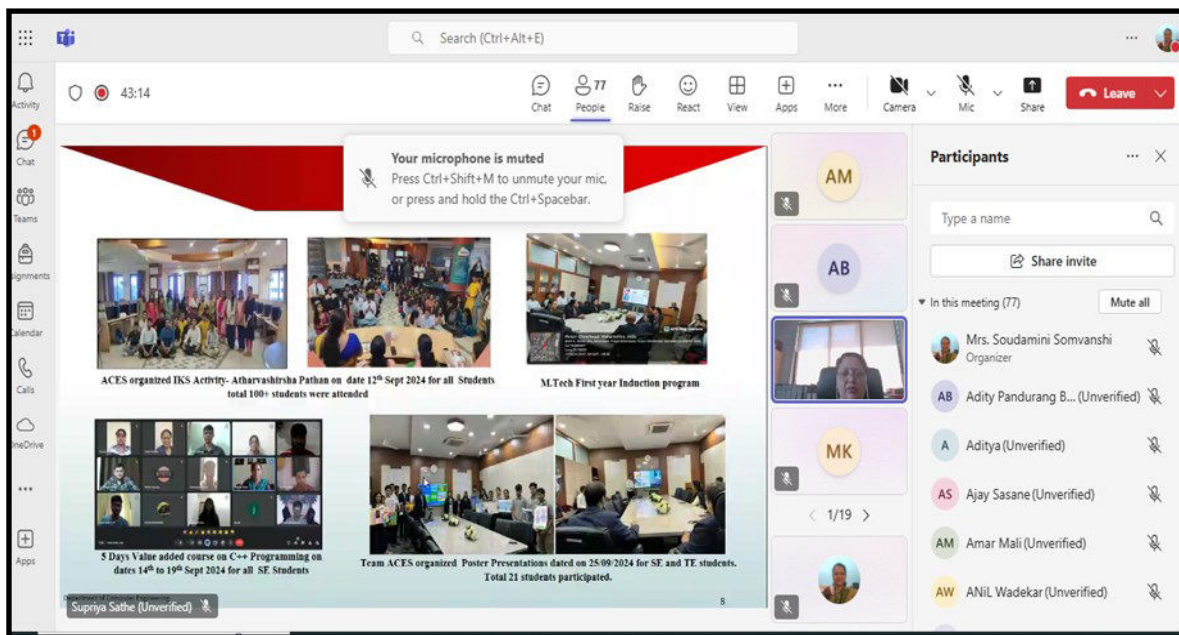
Ms. Supriya Sathe

Dr Mrs. M. A. Potey
Head of Department



Department Activities:

7. Parent Teacher Meet organized on 31/01/2025 for SE,TE and BE students parents, total 84 parents were present for the meet



Department Activities:

Name of Faculty Coordinator :

Dr Mrs. M. A. Potey
Head of Department



NEWS LETTER – JANUARY 2025

Faculty Achievements/Participations:

1. **Dr Mrs P Malathi** awarded with Bhartiya Vidya Bhavan National Award for the Best Engineering College Principal by ISTE.
2. **Dr Rutuja Deshmukh and Dr P Malathi** published a TextBook on “Machine Learning for Cyber Security” published by RK Publications.
3. **Dr Sarika Patil** published a paper on “Advancements in Crop Yield Improvement through Genetic Engineering” in Current Agriculture Research Journal published on 8th Jan 2025.
4. **Mrs.Aparna Shinde** has successfully participated & completed AICTE (ATAL) Faculty Development Program on AI-Driven Educational Technologies for Enhanced Teaching and Learning at K K Wagh Institute of Engineering Education & Research, Nashik
5. **Mr V B Shere, Dr Manish Sharma, Ramnika Jha, Shraddha Gaikwad** received a Consultancy work of Rs.50000 for the project Development of Driver and supporting circuits for IGBTs used for EV lab from Xtreme Engineering Equipment Pvt Ltd.
6. **Mrs Usha Jadhav, Mrs Shilpa Jagtap and Mrs Vasanti Vedpathak** attended the One week Workshop on AI-Assisted Research Paper Writing from 6th January 2025 to 11th January 2025 through online mode organized by Nuhianwali Education Society.
7. **Mrs. Trupti Wagh, and Mrs Manisha Rajput** attended AICTE ATAL FDP on mmWave Technologies at Vivekanand Education Society's Institute Of Technology from 13/01/2025 to 18/01/2025.
8. **Mrs V Bagal and Mrs Swati Aswale** attended AICTE ATAL FDP on AI & It's Applications in research at JSPM'S Rajarshi Shahu College Of Engineering from 20/01/2025 to 25/01/2025.
9. **Dr.Sarika Patil** contributed as a Reviewer at International Conference on Intelligent Systems and Computational Networks organized by Lingraj Appa College of Engineering Bidar on 24th –25th January 2025.
10. **Mrs Swati Aswale** filed a copyright on “Fruit quality and Disease detection using machine learning” with Diary Number: 3532/2025-CO/L.
11. **Mrs Swati Aswale** completed a for successfully attending one-week research workshop on “A Step-by-Step Approach to Writing Synopsis and Thesis” from 13/01/2025 to 18/01/2025 through online mode organized by Nuhianwali Education Society.
12. **Mrs Swati Aswale** participated in One week STTP on “Artificial Intelligence Techniques, Machine Learning, Data Science and Research Applications and Research Paper writing with AI tools” organized by RSP Science Hub TamilNadu.

Name of Faculty Coordinator :

Dipalje Pujari

Dr. Rutuja Deshmukh
Head of the Department

Machine Learning for Cybersecurity

A Text Book of **MACHINE LEARNING FOR CYBERSECURITY**

Dr. P. Malathi, Dr. Rutuja Abhishek Deshmukh, Dr. Anuraj S. Gaiwad

Dr. P. Malathi is an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. She has a B.Tech. in Electronics and Telecommunication Engineering from the University of Pune and an M.Tech. in VLSI Design from Anna University, Chennai. She has worked in the field of VLSI Design for over 10 years. She is currently working as an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. She has published several research papers in international journals and conferences. She is also a member of the IEEE and the Institution of Engineers (India).

Dr. Rutuja Abhishek Deshmukh is an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. She has a B.Tech. in Electronics and Telecommunication Engineering from the University of Pune and an M.Tech. in VLSI Design from Anna University, Chennai. She has worked in the field of VLSI Design for over 10 years. She is currently working as an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. She has published several research papers in international journals and conferences. She is also a member of the IEEE and the Institution of Engineers (India).

Dr. Anuraj S. Gaiwad is an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. He has a B.Tech. in Electronics and Telecommunication Engineering from the University of Pune and an M.Tech. in VLSI Design from Anna University, Chennai. He has worked in the field of VLSI Design for over 10 years. He is currently working as an Assistant Professor in the Department of Electronics and Telecommunication Engineering at D.Y. Patil College of Engineering, Akurdi, Pune. He has published several research papers in international journals and conferences. He is also a member of the IEEE and the Institution of Engineers (India).

ISSN: 2347-4668, Vol. 12, No. (3) 2024, pp.1030-1046

Current Agriculture Research Journal
 www.agriculturejournal.org

Advancements in Crop Yield Improvement through Genetic Engineering

LALIT NARENDRA PATIL*, ATUL ASHOK PATIL*, SARIKA ATUL PATIL*, SANTOSH D. SANCHETI* and VIKASH K. AGRAWAL*

*Department of Automation and Robotics, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, India.
 *Department of Mechanical Engineering, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, India.
 *Department of Electronics and Telecommunication Engineering, D.Y. Patil College of Engineering, Akurdi, Pune, India.

*S.N.J.'s Late Sau. K. B. Jain College of Engineering, Chandwad, Nashik, India.

Abstract
 While the global population continues to grow, it has heightened demand for better agricultural output. Traditional breeding techniques have played a great role in the improvement of crop yields, but they are not very efficient and not very excellent because they take quite a period of time and are not quite based on scope. Genetic engineering is a more precise, powerful approach with more direct influence on a plant genome; hence, the genetic engineering approach provides an alternative means of increasing the productivity of crops through the manipulation of the plant genome. This review describes the state-of-the-art genetic engineering technologies, like CRISPR, RNAi, and transgenic crops, to explain their capacity to enhance crop yield. It also reviews the problems, environmental implications, and future directions in GE crop biotechnology.

Introduction
 Agriculture has been the backbone of human civilization; it provides food, raw materials, and livelihood for millions. However, traditional agricultural practices of breeding stock over thousands of years have now reached their biological and practical limits in crop yield improvement. With the increasing effects of climate change, dwindling arable land resources, and the imperative for sustainable food production, genetic engineering has emerged as a dominant tool in mitigating these effects. This review highlights recent advances in crop yield improvement through genetic engineering and evaluates the possibility of this technology revolutionizing contemporary agriculture.

It is quite challenging to feed a rising population over time to nearly 10 billion by 2050 and hence critical to dramatically increase agricultural productivity. Two fundamental approaches have been used as the

Article History
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 Accepted: 09 January 2025

Keywords
 Agriculture; Biotechnology; Crop Yield; Genetic Engineering; Global Population.

CONTACT Lalit Narendra Patil | Email: lalitn@dyptil.ac.in | Department of Automation and Robotics, Dr. D. Y. Patil Institute of Technology, Pimpri, Pune, India.

Amstech
 Building Solutions December 05, 2024

To: Saravjit Sharma,
 D. Y. Patil College of Engineering,
 D. Y. Patil Education, Chhatrapati,
 Sector 29, Nishi Prasharan, Akurdi, Pune 411044

Subject: Work Order for All Project under Amstech

Dear Sir/Madam,

We are pleased to issue this formal work order for integration of project to test and live to search model with our reference for as per mutual agreement and discussion. The work order outlines the terms, scope, and responsibilities for the successful execution of the project. We also expect your team to join us for betterment of work.

Expected Team Members:
 1. Mr. Saravjit Sharma
 2. Mr. Vivekanand Shinde
 3. Mrs. Namrata Bha
 4. Mrs. Shrinika Gawaiwad
 Scope of Work

The project includes the following:
 1. Requirement Analysis: Understanding business objectives and collecting relevant data.
 2. Model Development: Designing and training machine learning or AI models tailored to project needs.
 3. System Integration: Integrating AI solutions with existing systems or platforms.
 4. Testing and Validation: Ensuring accuracy, performance, and reliability of the models.
 5. Deployment: Assisting in deploying the AI solution to production environments.

Timeline
 The project will commence on December 15, 2024, and is expected to be completed by July 31, 2025. Milestones will be reviewed periodically to ensure progress aligns with the project plan.

Payment Terms
 The agreed-upon cost for the project is INR 50,000/- (Fifty Thousand only) to be paid as per the current checked document.

We request you to confirm acceptance of this work order at your earliest convenience. Should you have any questions or require modifications, feel free to contact us. We look forward to a successful collaboration and delivering exceptional results.

Yours faithfully,
 Amstech Incorporation Private Limited

AMSTECH INCORPORATION PRIVATE LIMITED
 Regd. Office: 314-Third Floor, Veda Business Park, Near to Apple Hospital, Bhamburda Main Square, Indore, Madhya Pradesh (India)-452001, CIN: U72900MP2015PPC000464. Get the 22A/COPYRIGHT © 071-2592400, 071-2592388, 071-2592400. Email: info@amstech.com

Nuhianwali Education Society
 Nuhianwali, Sirsa (Haryana) India

Certificate of Participation

This certificate is presented to
Mrs. Usha Vinod Biradar
 Assistant Professor
 D Y Patil College of Engineering, Akurdi, Pune, Maharashtra
 for successfully attending a one-week research workshop on
AI-Assisted Research Paper Writing
 from 6th January 2025 to 11th January 2025 through online mode
 organized by Nuhianwali Education Society.

My Research Guide
 (Dr. Kulwadi Singh Kookna) Resource Person
 (Vaka Godara) President
 Nuhianwali Education Society

Nuhianwali Education Society
 Nuhianwali, Sirsa (Haryana) India

Certificate of Participation

This certificate is presented to
Mrs. Shilpa Swapnil Jagtap
 Assistant Professor
 D Y Patil College of Engineering, Akurdi, Pune, Maharashtra
 for successfully attending a one-week research workshop on
AI-Assisted Research Paper Writing
 from 6th January 2025 to 11th January 2025 through online mode
 organized by Nuhianwali Education Society.

My Research Guide
 (Dr. Kulwadi Singh Kookna) Resource Person
 (Vaka Godara) President
 Nuhianwali Education Society

Acknowledgement Slip
 (Date: 31/01/2025)

Diary Number: 3532/2025-26 Form Received: Online
 CO/... Title: Fruit quality and Disease detection using machine learning

Communication Address

Name	Address	Phone Number
SWATI ADWALE	E-301, NAUCHITRA PHASE 1, PURANANAGAR, CHINCHWAD-411019	

Financial Details

Payment ID	Amount	Bank Name	Payment Mode	Payment Date
353002	500			31/01/2025

* For future communication please mention this DIARY No.

INSTRUCTIONS

- 2 Copies of work
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- 2 DNDIPO of Rs (as applicable) per work favouring Registrar Copyright Office payable at New Delhi (Not applicable for online payments)
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- If the work is being used on goods or capable of being used on the goods
- Search Certificate from Trade Mark Office (TM-08) (Only in case of artistic work)
- Applicant must send a first print of the application, sign it and send along with the other documents

Kindly send the above documents within 30 Days from the date of online submission on the following address given by hereafter:

Office of the Registrar of Copyrights
 Copyright Office, Department for Promotion of Industry & Internal Trade
 Ministry of Commerce and Industry
 Building: Copyright Office, 5th Floor,
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 Telephone No. 011-23242448

APPLICANTS COPY
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ATAL/2025/1736689509

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
 AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. Usha Vinod Biradar, Assistant Professor of D.Y. Patil College of Engineering, Akurdi, Pune, has successfully participated & completed AICTE Training and Learning (ATAL) Academy Family Development Program on AI & IP Applications in research at PUNE'S RAJAWADE SHREE COLLEGE OF ENGINEERING from 18/10/2025 to 24/10/2025.

Rajani Bala Jain
 Professor Level (AICTE Institute), Coordinator
 VIVEKANAND EDUCATION SOCIETY'S
 INSTITUTE OF TECHNOLOGY

Dr. Smit Laxtra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

ATAL/2025/17379411

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
 AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. Shilpa Swapnil Jagtap, Assistant Professor of D.Y. Patil College of Engineering, Akurdi, Pune, has successfully participated & completed AICTE Training and Learning (ATAL) Academy Family Development Program on AI & IP Applications in research at PUNE'S RAJAWADE SHREE COLLEGE OF ENGINEERING from 18/10/2025 to 24/10/2025.

Smit A Bhargav
 Associate Professor Level (AICTE Institute), Coordinator
 PUNE'S RAJAWADE SHREE COLLEGE OF
 ENGINEERING

Dr. Smit Laxtra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

ATAL/2025/17379411

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
 AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. Swati Pravin Aswale, Assistant Professor of D.Y. Patil College of Engineering, Akurdi, Pune, has successfully participated & completed AICTE Training and Learning (ATAL) Academy Family Development Program on AI & IP Applications in research at PUNE'S RAJAWADE SHREE COLLEGE OF ENGINEERING from 18/10/2025 to 24/10/2025.

Smit A Bhargav
 Associate Professor Level (AICTE Institute), Coordinator
 PUNE'S RAJAWADE SHREE COLLEGE OF
 ENGINEERING

Dr. Smit Laxtra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

LINGRAJ APPA ENGINEERING COLLEGE, BIDAR
 Approved by AICTE and Affiliated to YU, Bidar.

Certificate of Appreciation

This is to recognise the contribution of
Dr. Sarika Atul Patil
 D.Y. Patil College of Engineering, Akurdi, Pune, Maharashtra
 as REVIEWER for International Conference on
 Intelligent Systems And Computational Networks (ICISCN- 2025)
 organized by Lingraj Appa Engineering College, Bidar, 24-25 January, 2025

Dr. VINOD PATIL
 President,
 Lingraj Appa Engineering College, Bidar

Dr. SARIKA ATUL PATIL
 Secretary, ShaheedBhamburda Veda Vardha Sangha, Kolhapur
 Member BSA, ShaheedBhamburda Veda Vardha Sangha, Kolhapur

Prerna Prasad Dr. SHARADACHANDRA APPAL
 President,
 ShaheedBhamburda Veda Vardha Sangha, Kolhapur

Nuhianwali Education Society
 Nuhianwali, Sirsa (Haryana) India

Certificate of Participation

This certificate is presented to
Ms. Swati Pravin Aswale
 Assistant Professor
 D.Y. Patil College of Engineering, Akurdi, Pune, Maharashtra
 for successfully attending one-week research workshop on
"A Step-by-Step Approach to Writing Synopsis and Thesis"
 from 13/01/2025 to 18/01/2025 through online mode
 organized by Nuhianwali Education Society.

My Research Guide
 (Dr. Kulwadi Singh Kookna) Resource Person
 (Vaka Godara) President
 Nuhianwali Education Society

Nuhianwali Education Society
 Nuhianwali, Sirsa (Haryana) India

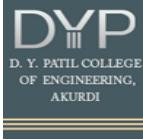
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My Research Guide
 (Dr. Kulwadi Singh Kookna) Resource Person
 (Vaka Godara) President
 Nuhianwali Education Society

Name of Faculty Coordinator : Dipalje Pujari

Dr. Rutuja Deshmukh
 Head of the Department



D Y PATIL COLLEGE OF ENGINEERING, AKURDI, PUNE 44
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
ENGINEERING

NEWS LETTER – JANUARY 2025

ATAL/2024/1735524721

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
 Nelson Mandela Marg, Vasant Kunj, New Delhi -110070
 AICTE Training and Learning (ATAL) Academy

Certificate

It is certified that Mrs. Aparna Shinde, Assistant Professor of D.Y. Patil college of Engineering has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on AI-Driven Educational Technologies for Enhanced Teaching and Learning at K. K. Wagh Institute of Engineering Education & Research, Nashik from 26/01/2025 to 28/01/2025.

Swati
 Vandana Chetani Bagal
 Associate Professor Level (AICTE Institute), Coordinator
 K K Wagh Institute of Engineering Education & Research, Nashik

S
 Dr. Sital Luthra
 Director & Bureau Head
 Training and Learning Bureau, AICTE

CERTIFICATE
of Participation

This is to certify that
JAYA SUNIL WAKODE
 D Y PATIL COLLEGE OF ENGINEERING AKURDI

has participated in the **NPTEL** E-Awareness workshop
 on Jan 21, 2025

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

CERTIFICATE
of Participation
 This Certificate is Presented to

Swati Aswale
 Assistant Professor, Department of Electronics and Telecommunication,
 D Y Patil College of engineering, Akurdi Pune Maharashtra

For Participating in the One-Week Short Term Training Program (STTP) on
 "Artificial Intelligence Techniques, Machine Learning, and Data Science with Research Applications
 and Research Paper Writing with AI Tools" - Organised by Department of Artificial Intelligence &
 Machine Learning, Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India & Event
 Organiser: RSP Science Hub, Coimbatore, Tamil Nadu, India During 20th - 25th January, 2025.

J. J. J.
 Dr. A. Jaisrini Fathima
 Head, STTP Convenor
 Francis Xavier Engineering College,
 Tirunelveli, Tamil Nadu, India
 ERXA & STTP2032

M. J.
 Dr. V. Velumurugan
 Principal,
 Francis Xavier Engineering College,
 Tirunelveli, Tamil Nadu, India

NPTEL

CERTIFICATE
OF APPRECIATION
 is awarded to

JAYA SUNIL WAKODE
 D Y PATIL COLLEGE OF ENGINEERING, AKURDI
 PUNE, MAHARASHTRA

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

JUL - DEC 2024

Months Enrolled	Months Present	Score (in %)	Certified (Score in %)	Support
28	2	<40	40-59	0
		60-74	75-89	1
		>=80	>=90	2
				0

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

CERTIFICATE
OF PARTICIPATION
 THIS IS TO CERTIFY THAT

Jaya Sunil Wakode
 of
 D.Y. Patil College Of Engineering

has participated in the Twelfth International Conference on Transformations in Engineering Education (ICTIE 2025)
 held at VIT Vellore, Hyderabad in association with
 Indo Universal Collaboration for Engineering Education (IUCEE) from January 8 to 10, 2025.

S. S.
 Dr. V. Padma Sai
 Convenor
 IUCEE

K. M.
 Prof. Krishna Vedula
 Executive Director
 IUCEE

IUCEE DELEGATE:080X0020

Shanti Education Society's
A. G. Patil Institute of Technology, Solapur
 NAAC ACCREDITED (II - Cycle)
 Department of Mechanical Engineering

Three Day's National Level Online Faculty Development Program
 Organized
 On
"Biomaterials And It's Applications in The Field of Engineering"
 In Collaboration with
The Institution of Engineer's (India)-Solapur Local Center

Certificate

This is to certify that
Ramnik Jha
 DYPCE akurdi pune

has successfully attended Three Day's National Level Online Faculty Development Program
 On "Biomaterials and it's applications in the field of Engineering" held from 09 Jan - 11 Jan 2025

S. S.
 Dr. S. B. Gadwal
 Convenor

P. S.
 Dr. V. V. Potdar
 Principal

E. M. S.
 Er. M. S. Deshpande
 Chairman-IEI (I) SLC

CERTIFICATE
of Participation

This is to certify that
RAMNIKA JHA
 D Y PATIL COLLEGE OF ENGINEERING AKURDI

has participated in the **NPTEL** E-Awareness workshop
 on Jan 21, 2025

Prof. Andrew Thangaraj
 NPTEL Coordinator
 IIT Madras

Name of Faculty Coordinator : Dipalie Pujari

Dr. Rutuja Deshmukh
 Head of the Department

NEWS LETTER - JANUARY 2025

Students Achievements:

1. Mr. Meet Bhattad won the FLAMES University inter-collegiate chess tournament.
2. Shreyash Vaidya won the Business Developer on Working collaboratively with startups organized by Winzera Pvt LTD.
3. Avishkar Gadge won prize at National art contest hosted on drawing competition cell of INDIAN ART FEST.



Name of Faculty Coordinator :

Dipalje Pujari

Dr. Rutuja Deshmukh
Head of the Department

NEWS LETTER - JANUARY 2025

Department Activities:

- 1.The department congratulated Principal Dr.Mrs P Malathi madam for receiving the Best Engineering College Principal Award by ISTE.
- 2.The department conducted the workshop on “Data Science” for SE students from 27th Jan to 31st Jan 2025.
- 3.Industrial visit of SE students was organized to at Mitsubishi, Talegaon
- 4.Industrial visit of TE students to Oneness Control Panel Pvt Ltd and Mapro Industries Pachgani.
- 5.PTM meet for SE/TE and BE students was conducted on 25th Jan 2025 in Online Mode.



Name of Faculty Coordinator :

Dipalje Pujari

Dr. Rutuja Deshmukh
Head of the Department

Faculty Achievements/Participations :

- 1.Mrs. Megha Rajesh Mehar has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Principles of Space Engineering and Space Vehicle Design at NEHRU INSTITUTE OF ENGINEERING AND TECHNOLOGY from 06/01/2025 to 11/01/2025.
- 2.Mrs.Megha Mehar for successfully completing the course Basics of Python on December 13, 2024.
- 3.Mrs. Priyanka Gupta has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Enhancing Network Performance with AI and Machine Learning- Through Use case approach at IILM University, Gurugram from 06/01/2025 to 11/01/2025.
- 4.Dr. Aarti Jadhav Patil has successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on AI-Driven Pedagogy: Enhancing Teaching and Learning Experiences at Chanderprahu Jain College of Higher studies from 02/12/2024 to 07/12/2024.



“ATAL Certificate”

“ATAL Certificate”

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements/Participations :

5. Mrs Abhilasha Sandeep Kore, Mrs Megha Mehar, Mrs Rajeshwari Kodulkar for successfully completing the course Artificial Intelligence for All on January 29, 2025
6. MS. MEGHA RAJESH MEHAR has successfully participated in IP Awareness/Training program under on December 13, 2024
7. Dr Latika Desai in recognition and appreciation of your knowledge sharing as session chair at the Ninth International Conference smart trends in computing and Communications on from 29th Jan 2025 to 31st Jan 2025.
8. Dr Latika Desai has participated in google Educator Summit at RMZ campus Bangalore on 23rd Jan 2025.



“Achievements Certificate”

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

Department Activity:

1. Department of Information Technology organized under IKS Activity Visit at Shivneri and Lenyandri fort on 17th Jan 2025
2. Department of Information Technology organized one week Workshop on Tech Quest— Explore new emerging technology for SE students from 27th Jan 2025 to 31st Jan 2025.
3. Department of Information Technology organized Parents Teacher Meet on Jan 2025.



IKS activity At Shivneri

Name of Faculty Coordinator :

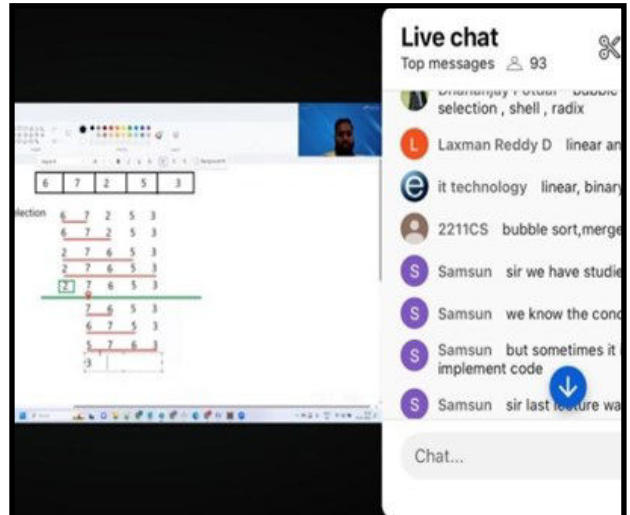
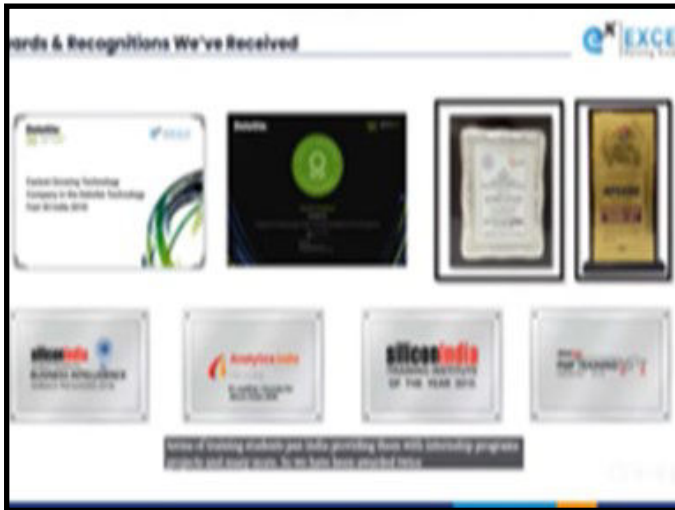
Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

NEWS LETTER - JANUARY 2025

Department Activity:

3. Department of Information Technology organized Workshop on Ace Coding Interviews – DSA Mastery With Java for SE ,TE BE students from 9th Jan 2025 to 31st Jan 2025 (15 days)



Workshop Activity

Name of Faculty Coordinator :

Mr Hiranman Jadhav

Dr Preeti Patil
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements/Participations :

- ◆ Dr B. B. Musmade worked as Reviewer for the 1st International Conference on AIML-Applications for Engineering and Technology to be held on 16th -17th January 2025 organized by MKSSSS's Cummins College of Engineering for Women, Pune.
- ◆ Dr B. B. Musmade worked as a reviewer for International Journal of ISA Transactions during 6th Jan to 11th Jan 2025.
- ◆ Dr. Yogesh H. Patil filed copyright on "Root Tracker:- A proactive network forensic tool to support cybercrime investigation and evidence collection " with registration no L-159668/2025.
- ◆ Mrs. Arti A. Utikar & Ms. Vinita V. Yerande have attended FDP on "Biomaterials & its Application in the Field of Engineering" from 9/01/2025 to 11/01/2025.
- ◆ Mrs. Garima Tiwari attended AICTE ATAL FDP on "Urban Development of Smart Cities and Mobility" from 30/12/2024 to 04/01/2025.
- ◆ Mrs. Arti A. Utikar has completed course "IOP peer review excellence" by IOP publishing on 25/01/2025.



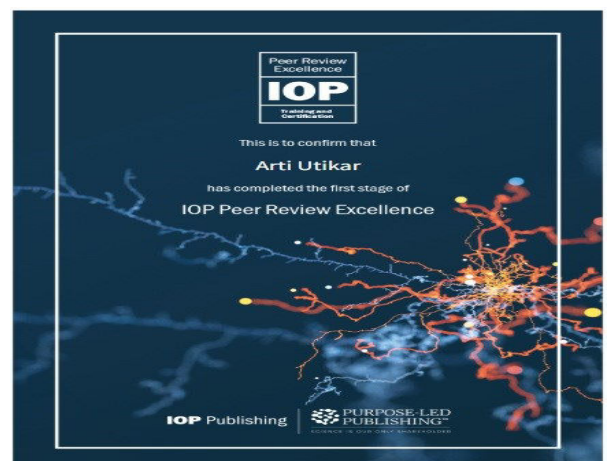
B. B. Musmade Reviewer Certificate



Arti Utikar FDP Certificate



Garima Tiwari ATAL Certificate



Arti Utikar course Certificate

Name of Faculty Coordinator : Mrs. Arti Ajay Utikar

Dr B. B. Musmade
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements/Participations :

- ◆ Mrs. Archana R. Kesti has attended “NPTEL E-Awareness workshop” on 22/01/2025
- ◆ Ms. Shital Patil Completed Course on Introduction to Data Science powered by IBM Developer Skill Network from 9/12/2024 to 20/12/2024.
- ◆ Viniat Yerande worked as a reviewer for an international journal of biomedical signal processing and control journal.
- ◆ Mrs. Garima Tiwari and Ms. Rachana R Sangitrao presented Paper on “Enhanced Security Through Honeywords and Video CAPTCHA: An Innovative Authentication and Tracking Mechanism” in the 2025 Fifth International Conference on Advances in Electrical, Computing, Communications and Sustainable Technologies (ICAECT 2025) held at Shankaracharya Technical Campus (SSTC), Bhilai, Chhattisgarh, India during 09 - 10, January 2025. The conference was organized in HYBRID MODE.
- ◆ Ms. Rachana R. Sangitrao, Mrs. Arti A. Utikar, Mrs. Archana R. Kesti, Dr. Yogesh H. Patil, Vinita Yerande, Garima Tiwari, has attended “NPTEL E-Awareness workshop” on 29/01/2025.



Rachana Sangitrao & Garima Tiwari Publication Certificate



Archana Kesti Certificate

Name of Faculty Coordinator : Mrs. Arti Ajay Utikar

Dr B. B. Musmade
Head of Department

NEWS LETTER - JANUARY 2025

Student Achievements/Participations :

SE students Participated in celebrating Savitribai Phule Jayanti at Central Library on 03/01/2025 and also participated in E- Library Awareness Program at Central Library on 6/01/2025. Ms. Shital Patil was faculty coordinator.



Central Library Activity

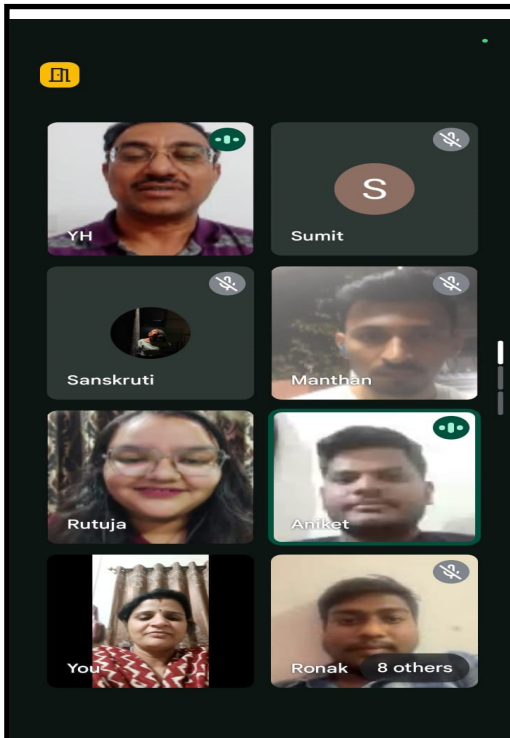
Name of Faculty Coordinator : Mrs. Arti Ajay Utikar

Dr B. B. Musmade
Head of Department

NEWS LETTER - JANUARY 2025

Department Activities :

- ◆ Department has organized a pre placement talk for BE students in the view of upcoming ICT solutions placements in online mode. The resource person was Ms. Rutuja Thorat, alumni 2021 batch & Project Engineer at ICT Solutions, Pune. Total 14 students attended this talk. Mrs. Arti Utikar & Dr. Yogesh Patil organized the talk on 07/01/2025 in online mode.
- ◆ Department has organized a visit for SE students to India Meteorological Department (IMD), Pune on occasion of their Foundation Day. Total 52 students & 3 faculty members attended the visit. The visit was organized by Ms. R. R. Sangitrao, Mrs. A. A. Utikar & Ms. V. V. Yerande on 15/01/2025.



Preplacement talk by Rutuja Thorat



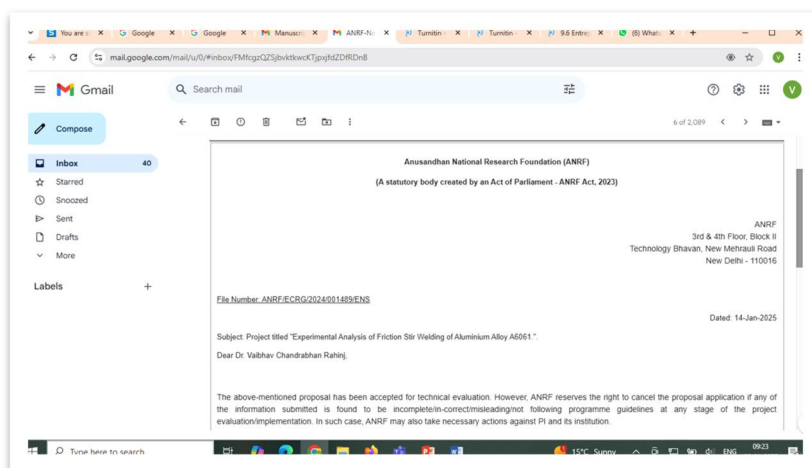
Visit To IMD, Pune

Name of Faculty Coordinator : Mrs. Arti Ajay Utikar

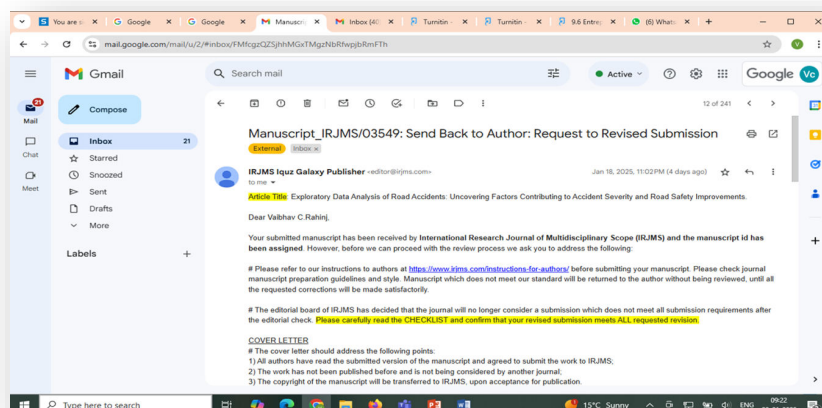
Dr B. B. Musmade
Head of Department

Faculty Achievements:

- Dr. Vaibhav C. Rahinj's proposal entitled "Experimental Analysis of Friction Stir Welding of Aluminium Alloy A6061" has been accepted by the Anusandhan National Research Foundation (ANRF) on 14-01-2025.
- Dr. Vaibhav C. Rahinj's research paper is entitled "Exploratory Data Analysis of Road Accidents: Uncovering Factors Contributing to Accident Severity and Road Safety Improvements." Accepted in the International Research Journal of Multidisciplinary Scope (IRJMS) on 18-01-2025.



Research Proposal



Research Paper Publication

Name of Faculty Coordinator :

Mrs. Monica P. Ugale

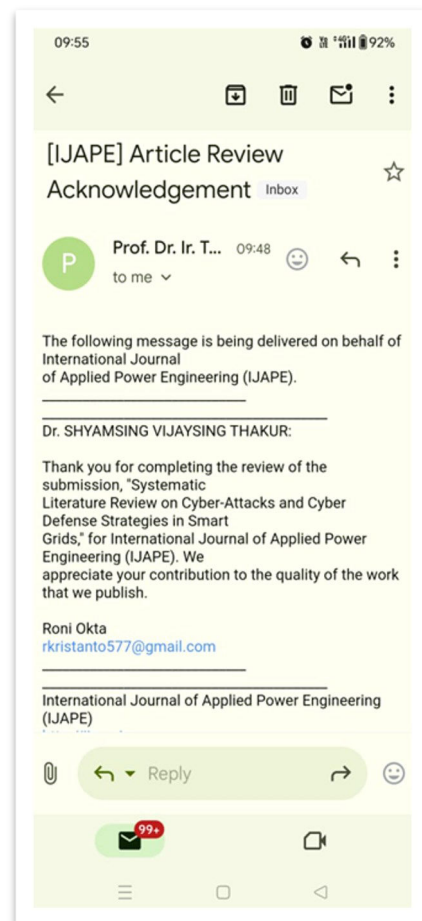
Dr.P.T.Nitnaware
Head of Department

Faculty Achievements:

- Dr. S.V.Thakur Participated And Presenting a Research Paper entitled , “Research, Entrepreneurship, Collaboration and Administration on "in International Conference at VJIM Hyderabad on 8-01-25
- Dr. S. V. Thakur completing the review of the submission, "Systematic Literature Review on Cyber-Attacks and Cyber Defense Strategies in Grids," for International Journal of Applied Power Engineering (IJAPE).



Research Paper Publication



Paper Review

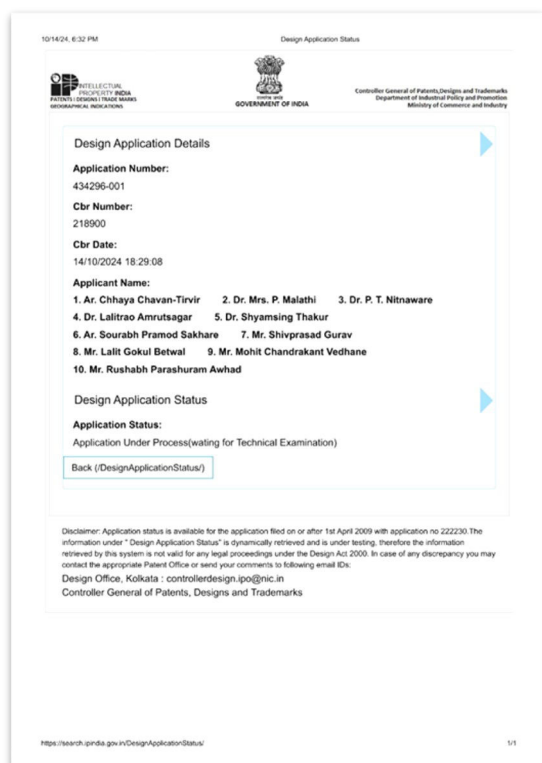
Name of Faculty Coordinator :

Mrs. Monica P. Ugale

Dr.P.T.Nitnaware
Head of Department

Faculty Achievements:

- Design Application Patent Number:434296-001, Cbr Number:218900Cbr filed by Applicant Name:1. Ar. Chhaya Chavan-Tirvir 2. Dr. Mrs. P. Malathi 3. Dr. P. T. Nitnaware 4. Dr. Lalitrao Amrutsagar6. Ar. Sourabh Pramod Sakhare8. Mr. Lalit Gokul Betwal10. Mr. Rushabh Parashuram Awhad5. Dr. Shyamsing Thakur7. Mr. Shivprasa Gurav9. Mr. Mohit Chandrakant VedhaneDesign Application StatusApplication Status:Application Under Process(wating for Technical Examination)Back (/DesignApplicationStatus/) on Date:14/10/2024 18:29:08
- Dr Vinay Kulkarni has participated and presented a paper titled, “Sustainable Experiential Learning: An Effective Tool for Enhancing Student’s Competency and Employability ” in the Twelfth International Conference on Transformations in Engineering Education (ICTIEE 2025) held at VNR VJIET, Hyderabad in association with Indo Universal Collaboration for Engineering Education (IUCEE) from January 8 to 10, 2025.



Research Patent Publication



Research Paper Publication

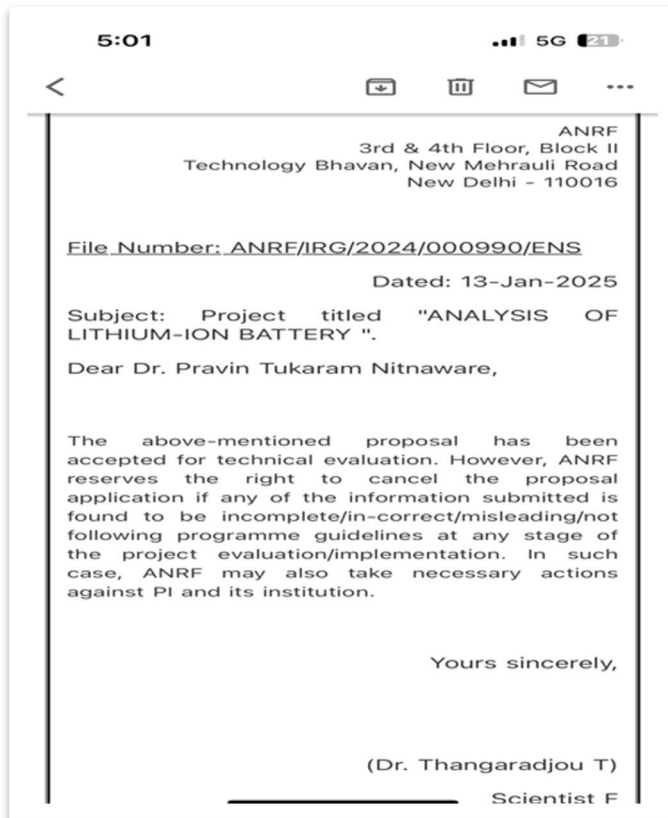
Name of Faculty Coordinator :

Mrs. Monica P. Ugale

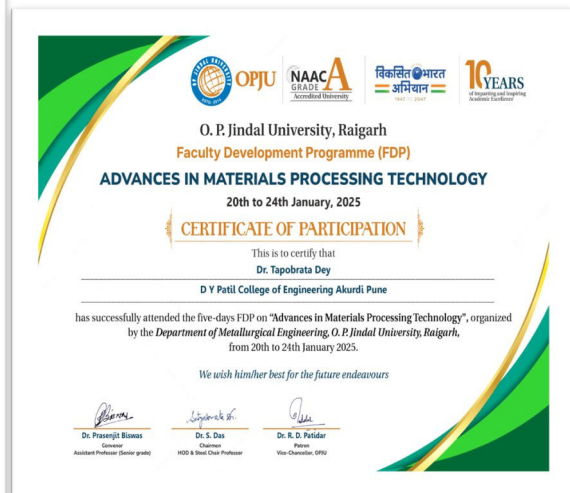
Dr.P.T.Nitnaware
Head of Department

Faculty Achievements:

- Dr. Pravin Nitnaware and Dr. Shyamsingh Thakur published a paper entitled “Comparative Analysis of Sequential Port Fuel Injection and Conventional Manifold Fuel Injection Using 10% HCNG Blends” in the Journal of Thermal Engineering on 27-01-25.
- Dr. Pravin Tukaram Nitnaware's proposal titled "ANALYSIS OF LITHIUM-ION BATTERY “ has been accepted for technical evaluation by ANRF on 13-01-2025.
- Dr. T. Dey, Mrs. S.K. Dhamale, Dr. T. Dey, Mrs. M.P. Ugale, Mrs. B.P. Bhor, Mrs. P.A. Gaikwad, and Mrs. U.T. Kharade attended the Faculty Development Program on "Advances in Materials Processing Technology" from 20th January to 24th January 2025.



Research Paper Publication



FDP Participation

Name of Faculty Coordinator :

Mrs. Monica P. Ugale

Dr.P.T.Nitnaware
Head of Department

Faculty Achievements:

- Dr. Tapobrata Dey has participated in Five Days Faculty Development Programme (FDP) on Next Generation Engineering Practices: Materials, Design and Manufacturing organized by Department of Mechanical Engineering, MMCOE, Karvenagar, Pune from 27 to 31" January, 2025.
- In recognition of the excellent contribution to Evergreen with the review, this certificate is awarded to dr. Tapobrata dey as a award category recognized reviewer (silver) in jan 2025 by Kyushu University
- Dr. S.V. Thakur visited company, “Xwatt Energy Pvt Ltd”, “Scorp Energy Pvt Ltd” , “Evolve Energy Groups” , “Mx Power Solar Pvt Ltd- Small Setup 300 KV” , “ Multi power earthing solution”, “Bhasu energy systems llp” , “Aatmanirbhar solar pvt ltd- solar pv module”, “ Devotion energy- solar cleaning material and solar structure material”, “Solstr Innovation Llp- Rooftop, Car Port Leading Mfg” In “Raymagic” Maha Solar Expo arranged from 31 Jan. to 1st Feb 2024.



FDP Participation



Maha Solar Expo Participation

Name of Faculty Coordinator :

Mrs. Monica P. Ugale

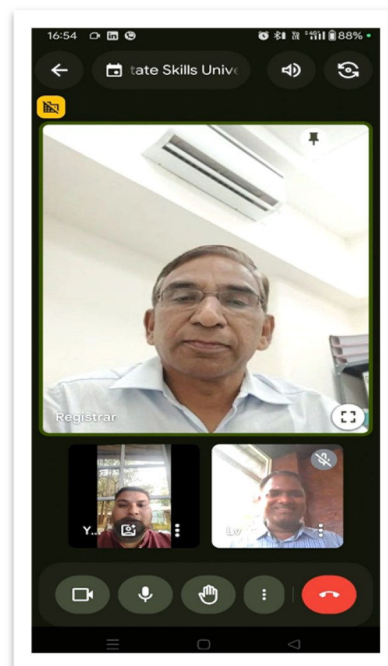
Dr.P.T.Nitnaware
Head of Department

Faculty Achievements:

- Mr. Nitesh Hirulkar organized an expert lecture on the topic "How to do low-cost education in Germany. The keynote speaker is Akshay Pawar from SKYE Overseas Consultant on 21/01/25. Ninety-five students attended a lecture.
- An online meeting with Dr. Rajendra Talware, Director of Assessment and Evaluation and Registrar of Maharashtra State Skill University (MSSU), was conducted by Dr. S. V. Thakur and Dr. Lalitrao Amrutsagar on 10-01-25. The discussion revolved around forging a partnership that aims to enhance education, skill development, and innovation through a proposed MoU.



Guest Lecture



Online Meeting for proposed MoU.

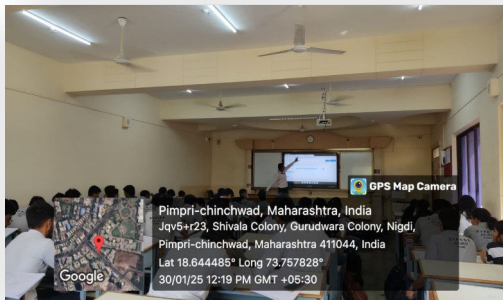
Name of Faculty Coordinator :

Mrs. Monica P. Ugale

Dr.P.T.Nitnaware
Head of Department

Departmental Activities:

- S.E. Mechanical Department conducted Vlab on Following Subject
- Simulation of Fused Deposition Modelling (FDM) Process
- Simulation of Selective Laser Sintering (Non-Metal) Process
- Simulation of Selective Laser Sintering (Metal) Process
- Simulation of Laminated object manufacturing Process
- Simulation of Powder Binding/Jetting Process



Vlab Session for SE Mechanical

Name of Faculty Coordinator :

Mrs. Monica P. Ugale

•Tensile Test on Mild Steel

Dr.P.T.Nitware
Head of Department

Student Achievements:

- Mr. Harshvardhan R. Mhaske has successfully completed the online, non-credit specialization Battery Technologies course from Coursera on 19-01-25.
- Mr. Harshvardhan R Mhaske has successfully completed the online, non-credit Specialization AI for Mechanical Engineers course from Coursera on 19-01-25



Course completion from Coursera

Name of Faculty Coordinator :

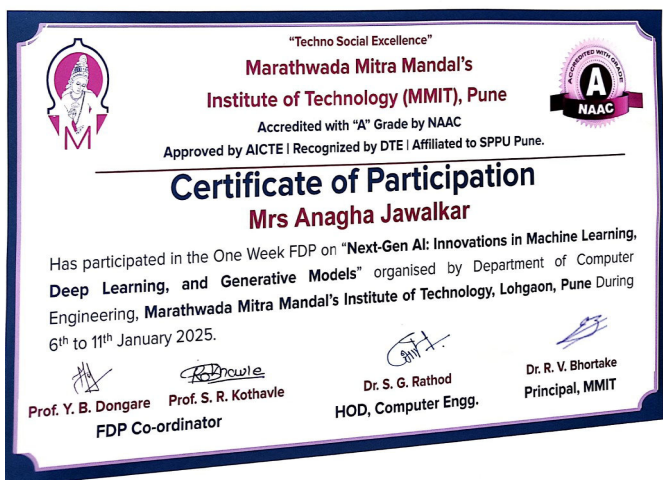
Mrs. Monica P. Ugale

Dr.P.T.Nitware
Head of Department

NEWS LETTER – JANUARY 2025

Faculty Achievements and Participation:

- Mrs. Manasi Karajgar, Assistant Professor of AIDS, has Paper presented in SmartCom 2025 conference titled “Integrating Machine Learning for precision for type 2 diabetes onset: insights from life-style and genetic data” from 29th to 31st January 2025.
- Mrs. Pallavi Shingade and Mrs. Anagha, Assistant Professor of AIDS, has attended one week FDP on “Next-Gen AI: Innovations in Machine Learning, Deep Learning, and Generative Models” from 6th to 11th January 2025.



Faculty Achievements and Participation Certificates

Name of Faculty

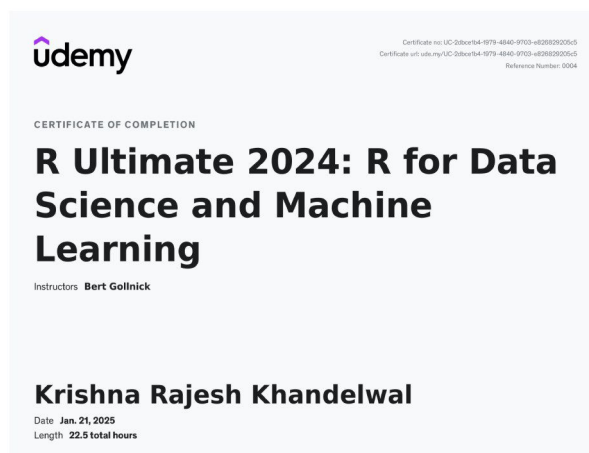
Mrs. Trupti G. Lonkar

Dr Vinayak Kottawar
Head of Department

NEWS LETTER – JANUARY 2025

Students Achievements and Participation:

- Mr. RAHUL KASHINATH BHOIR and Mr. Arjun Vijay Chavanke from SE B div, has participated in expert session on “AI Ethics” on 21st January 2025.
- Mr. Krishna Rajesh Khandelwal from BE A div, has Successfully completed NPTL (Elite) course “Python & Django Rest API Bootcamp” and “ R for Data Science & Machine Learning” 15th and 21st January 2025.



Student Achievements Certificates

Name of Faculty Coordinator :

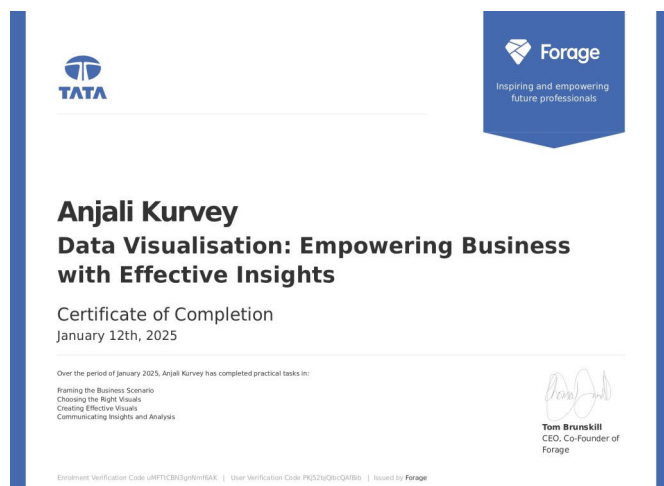
Mrs. Trupti G. Lonkar

Dr Vinayak Kottawar
Head of Department

NEWS LETTER – JANUARY 2025

Students Achievements and Participation:

- Ms. ANJALI SHAILENDRA KURVEY SE B div, has successfully completed course “Data Visualization: Empowering Business with Effective Insights” on 12th January 2025.
- Mr. Jashn Wahi from SE A Div, has successfully passing the exam Certified AppSec Practitioner on 28th January 2025.
- Mr. Aryan Rajendra Shete SE A , has Participated in workshop “AI for Students: Build Your Own Generative AI Model” on November 2025.



Student Achievements certificate

Name of Faculty Coordinator :

Mrs. Trupti G. Lonkar

Dr Vinayak Kottawar
Head of Department

NEWS LETTER – JANUARY 2025

Students Achievements and Participation:

- Ms. Charvi Humane TE B div, has successfully completed 10 week AI -ML virtual internship from October to December 2024.
- Ms. Sampada Waghode SE B div, has successfully completed course “Data Visualization: Empowering Business with Effective Insights” on 3rd January 2025.
- Mr. Shrishailya Nilkanth Patil from SE B div, has participated in expert session on “AI Ethics” on 21st January 2025.



Student Achievements certificate and Glimpse

Name of Faculty

Mrs

Dr Vinayak Kottawar
Head of Department

NEWS LETTER – JANUARY 2025

Department activities:

- Department of Artificial Intelligence and Data Science Engineering Organized hands on Workshop on “Fundamentals of deep learning with NVIDIA” for students on 30th January 2025. Dr. Minakshi Atre, NVIDIA DLI AMBASSADOR .HOD AI&DS, Dean R&D of PVG COE, was the speaker for the session. Mrs. Manasi Karajgar coordinated the workshop. Around 200+ participants attended the workshop.
- Department of Artificial Intelligence and Data Science Engineering Organized DSA BootCamp for students on 17th January 2025. Dr. Minakshi Atre, NVIDIA DLI AMBASSADOR .HOD AI&DS, Dean R&D of PVG COE, was the speaker for the session. Mrs. Manasi Karajgar coordinated the event.



Some Glimpses of the Workshop

Name of Faculty Coordinator :

Mrs. Trupti G. Lonkar

Dr Vinayak Kottawar
Head of Department

NEWS LETTER – JANUARY 2025

Department activities:

- Department of Artificial Intelligence and Data Science Engineering Organized Alumni meet for 2024 pass out Batch on 30th January 2025. Mrs. Snehal Malpani coordinated the event. Around 20 alumni attended the event.



Some Glimpses of the Alumni Meet

Name of Faculty Coordinator :

Mrs. Trupti G. Lonkar

Dr Vinayak Kottawar
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements and Participation:

1. Dr. Y. G. Kamble, Dr. R. P. Jadhav, Mr. N. M. Mahajan, Mr. V. P. Rathod published a paper on Comparative Analysis of Circumferential stress in horizontal Pressure Vessels using finite element analysis .
2. Mr. V. P. Rathode published a paper on A review on impact of micro tools on micro milling outcomes for aluminium alloy .
3. Mr. N. M. Mahajan & Dr. R. P. Jadhav attended FDP on Biomaterials and its application in the field of engineering.



Name of Faculty Coordinator :

Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements and Participation:

- Dr. R. P. Jadhav, Dr. Y. G. Kamble attended FDP on Research and reality : Exploring methodology and IPR .
- Mrs. T. A. Jadhav & Mrs. S. A. Bugade attended FDP on Importance of Artificial Intelligence in Robotics .



Name of Faculty Coordinator :

Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Faculty Achievements and Participation:

1. Mr. N. M. Mahajan & Dr. R. P. Jadhav attended FDP on From Ideas to Innovation: A Patent Landscape Approach to Science and Technology Correlations



Name of Faculty Coordinator :

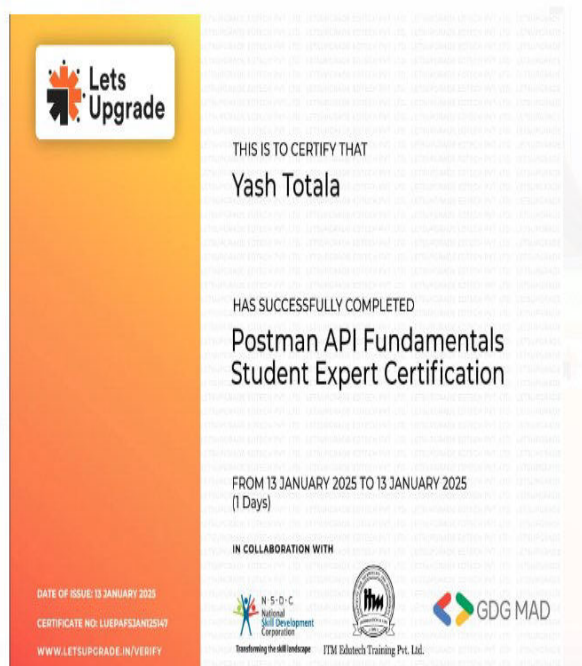
Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Student Achievements and Participation:

- Mr. Aditya Chavan , student of final year has completed Course certification on—Certification course on "Data Visualisation using Python" .
- Yash Totala Certification course on Postman API fundamentals Student expert certification , Certification course on Master class on game design , Certification course on Master class on game design .



Name of Faculty Coordinator :

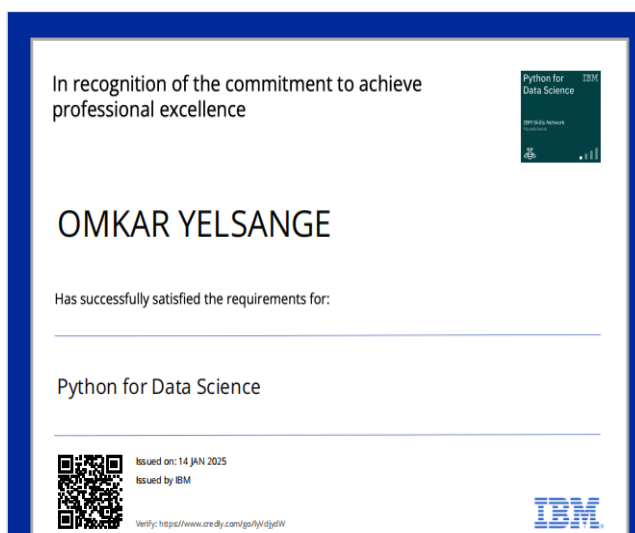
Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Student Achievements and Participation:

- OMKAR YELSANGE student of third year has certified as a Python 101 for Data Science .
- Smita Jagtap , Riya Shinde , Atharva Dinde ,Jabibullah Yamakanamardi & Girija kedari Secured 2nd Rank in "YANTRAUTSAV" at 'ROBORASTRA-2025' hosted at PCCOER Representing DYP COE TE students of RnA Team "NO-BOT"



Name of Faculty Coordinator :

Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Student Achievements and Participation:

- Maha Vaayu Innovations, a startup been incubated at the DYPEC Dnyansagar Incubation Hub by Mansi Prashant Ghodekar (SE Robotics & Automation, DYPCOE), has secured 3rd place in the Elephant Tank Startup Pitching Competition and has been selected for further support and Incubation among 21 startups (out of 115 teams participated).



Name of Faculty Coordinator :

Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department

NEWS LETTER - JANUARY 2025

Student Achievements and Participation:

- Mr. Samyak and team from B.E. ,secure second place in RoBo Rashtra 25 event



Name of Faculty Coordinator :

Mrs. Tejas A. Jadhav

Dr N. K. Kamble
Head of Department



Dr. Mrs. P. Malathi
Principal



Dr. S. S. Sarnobat
Vice Principal



Mrs. Dipalee D. Rane
Coordinator



Mrs. Arti A. Utikar
Coordinator



Mrs Swati S. Jadhav
Coordinator



Mr. Hiraman Jadhav



Ms. Dipalie Pujari



Mrs. Trupti Lonkar



Mrs. Neha Bagdiya



Mrs. Monika P Ugale



Ms. Supriya Sathe



Mr. Ganesh Nimgire



Mrs. Tejas Jadhav

NEWS LETTER - JANUARY 2025



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D. Y. Patil College of Engineering, Dr. D. Y. Patil Educational Complex, Sector 29, Nigdi Pradhikaran, Akurdi Pune 411044

<https://www.dypcoeakurdi.ac.in>

For enquiry or information : info@dypcoeakurdi.ac.in

For any other queries contact (College reception): +91-20-27653058