

DEPARTMENT OF HUMANITIES AND APPLIED SCIENCES
Annual Report 2024-25

❖ **Academic Achievements**

Fist Year Engineering (FE) Semester I (2024-25 batch): 13 students secured score of SGPA 10 .

❖ **Departmental Initiatives:**

1. An Induction Program was conducted by the Humanities and Applied Sciences (H & AS) department from 16th to 21st September 2024. The program included various activities for FE students, such as an orientation session, a yoga session, a POSH seminar, a UHV session and a seminar on "Depression in Youth and Its Management". Additionally, students were introduced to the library and various college teams and units, including Sports, Cultural, NSS, Tech, Arena, WDC, IEEE, Media, and Literary.
2. The H&AS department organized the Matrix Event (inter college Olympiad competition exclusively for FE students) on 21st September as part of Engineering Week.
3. The H&AS department, in association with the National Coordination Committee for Induction Program (NCCIP), All India Council for Technical Education (AICTE), and ISTE Chapter, successfully organized the 'Face-to-Face 3-Day Introductory FDP on Universal Human Values' from August 21st to 23rd, 2024, in the Seminar Hall of SIES Graduate School of Technology, Navi Mumbai.
4. The Department of Humanities and Applied Sciences (H&AS) set up an admission cell and conducted multiple online webinars on "Guidance for Engineering Admission."

❖ **Faculty's Achievements:**

Papers:

1. **Dr. Sandhya Bharambe** published paper titled "Study of Gas Sensing Properties of Nanostructured Nickel Ferrite Thick Film Sensors In NH₃, H₂S, CO₂, And LPG Environments", J. Electrical Systems Vol-Issue (2024): 1-12.

Conference:

1. **Prof Pallavi Mane** presented a paper at 4th International Conference on contemporary Perspectives in English Language, Literature and Cultural Studies on the topic "Geographies of Loss and Hope: Exploring Spatial Narratives in Romesh Gunesequera's Heaven's Edge" from 13th to 14th September 2024 conducted by department of English, Chandigarh University.
2. **Prof Pallavi Mane** presented a paper at Two-Day Interdisciplinary International Conference on 'Culture, Values and Ethics on the topic "Landscapes of change: a Geocritical study in Sundara Ramaswamy's the Tamarind History" at Dr. Babasaheb Ambedkar College, Aundh, Pune from 14th to 15th October 2024.
3. **Dr Lakshmi Pavani D** presented paper at an international conference IEMDST-2024, NIT Warangal on 4th July 2024.
4. **Dr. Ramkishan Bhise** presented at the 18th International and 54th Annual Conference of ELTAI on Exploring Languages and Literatures for Evolving Pedagogical Practices which is being held from 23rd to 26th October 2024 hosted jointly by The Assam Royal Global

- University, Guwahati & Sonapur College, Sonapur, the paper entitled as “Harnessing the Power of AI Tools in the ELT Classroom”(Co-Presenter).
5. **Dr. Ramkishan Bhise** presented at the 18th International and 54th Annual Conference of ELTAI on Exploring Languages and Literatures for Evolving Pedagogical Practices which is being held from 23rd to 26th October 2024 hosted jointly by The Assam Royal Global University, Guwahati & Sonapur College, Sonapur, a paper entitled as “Innovative Assessment Practices in English Language and Literature: Balancing Tradition and Modern Pedagogy”. (Main-Presenter).
 6. **Dr. Ramkishan Bhise** paper is Presented at the 18th International and 54th Annual Conference of ELTAI on Exploring Languages and Literatures for Evolving Pedagogical Practices which is being held from 23rd to 26th October 2024 hosted jointly by The Assam Royal Global University, Guwahati & Sonapur College, Sonapur, paper entitled as “Deconstructing the Ecocritical Perspectives in Gieve Patel's “From Bombay Central”: Urbanization, Nature, and Environmental Consciousness”. (Co-Presenter).
 7. **Dr. Sandhya Bharambe** presented paper with students and **secured a consolation position** in state level research paper presentation competition in online mode entitled “Comparative Analysis of Regev’s and Shor’s Algorithms under Skewed Data Conditions in Quantum Computing” on the topic Emerging Trends in Science and Computer Science on 3rd and 4th sept 2024, organised by department of science and computer science at MIT, Pune
 8. **Prof. Pallavi Mahadik** presented a paper at International Conference on Special Functions and Applications on the topic “Mellin Transform of generalized k-Hypergeometric function” from 28th-30th November 2024 at Jaipur.
 9. **Prof. Pallavi Mahadik** presented a paper at annual Conference of the Indian Mathematical Society on the topic “Mellin Transform of M-series and K-function” from 23rd -26th December 2024 at Pune.

Patent:

Two patents were received by **Dr Lakshmi Pavani D** from H & AS department for the title “System and method for numerical simulation of magneto hydrodynamic phenomena” and “Functional Nanochannels Incorporating Bismuth Ferrite Nanoparticles for Enhanced Performance in Nano electronic Devices”.

Book Published:

1. **Dr. Ramkishan Bhise** published book on “Business Etiquettes and Corporate Grooming” (commerce VSC-I) (As per NEP2020 Syllabus (Mumbai university B.Com Sem-I) by Nirali Prakashan with ISBN-978-93-6109-641-9 (October 2024, Co-author).
2. **Dr. Ramkishan Bhise** published book on “Perspectives on Business Communication in the Digital Age” by author press with ISBN 978-93-6095-062-0 (2024) (Co-author).
3. **Dr. Sandhya Bharambe** Published a book of applied physics for KBI publisher in 2024 as per the revised syllabus of NEP2020 of Mumbai University.

Project Sanctioned:

Dr. Pooja Singh received approval from the Science & Engineering Research Board (SERB) for her project titled "Reliability Analysis of Safety-Critical Systems Using Artificial Intelligence." The project is funded for three years with a grant of INR 25,91,60 in the year 2023.

Member of Syllabus Committee:

Dr. Ashwin Chavan, Dr. Sandhya Bharambe, Dr, Ramkrishna Bhise are the syllabus committee team member of University of Mumbai and organized orientation programs for Syllabus Revision Rev-2024 ‘NEP-2020’ Scheme for subjects Applied Mathematics-I & II, Engineering Physics I& II, Indian Knowledge System and Professional communication and Ethics-I.

Special Honor:

1. **Dr. Ashwin Kumar Chavan** has been honored with the Maharashtra State Shiv Chhatrapati Sanghatana State Level Meritorious Professor Teacher Award for great contribution in the educational, cultural, social fields. The award distribution ceremony has been held at The Maharaja Royal Resort, Ambernath Thane on 04/01/2025 by the hands of Hon. Shri Ganeshji Naik Saheb, Forest Minister of Maharashtra State.
2. **Dr. Ramkishan Bhise** was Invited as resource Person at NEP Orientation & Sensitization from 14-10-2024 to 23-10-2024 under UGC-Malaviya Mission Teacher Training Center at Dr. Babasaheb Ambedkar Marathwada University. Academic Building, University Campus, Chhatrapati Sambhaji Nagar 431004(MS).
3. **Dr. Ramkishan Bhise** worked as Co-Convenor for National level Rusa Sponsored Symposium “Digihum: Digital Innovations in Humanities And Literature education” Dr BMN College Of Home Science, Matunga, Mumbai on 21st September 2024.
4. **Dr. Ramkishan Bhise** chaired session at the 18th International and 54th Annual Conference of ELTAI which is being held from 23rd to 26th October 2024 and hosted jointly by The Assam Royal Global University, Guwahati & Sonapur College, Sonapur, Assam.

❖ **Matrix Winners:**

| Event | Branch | Winner Name |
|--------------------------|--------|-----------------|
| MVP's | AIDS | Swayam Patil |
| | AIDS | Manthan Shetty |
| | AIDS | Siddhi Rane |
| | AIDS | Samiksha Ingole |
| Artistic Allies | ECS | Shreya Kanchan |
| | AIML | Arpita Mishra |
| | EXTC | Shrusti Shimpi |
| | EXTC | Pooja Ghogale |
| Very Demure Very Mindful | IOT | Shangini Mishra |
| | IOT | Ananya Acharya |
| | IOT | Madhura Jadhav |
| | IOT | Elavarasi |

❖ **Photographs:**



Matrix Event



FE Orientation Program



FDP on UHV