



BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, NAVI MUMBAI

Department of Computer Engineering • Academic Year 2024-25
(Odd Sem)

NEWS LETTER

Bharati Vidyapeeth is an organization established in the year 1964 by our respected founder Dr. Patangraoji Kadam. It has today created history by establishing 187 educational institutes imparting education from the pre-primary stage to post graduate stage within a short span of 44 years. Our commitment and dedication has been towards catering to needs of Corporate India by providing quality education and to bring about an all-round development of a wider cross section of population including women, tribal and rural people.



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Academic Year 2024-25
Odd Semester

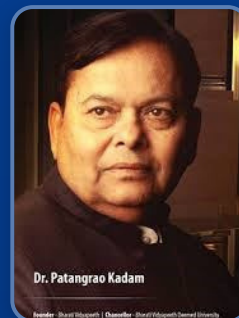
Late Dr. Patangrao Kadam, Founder Of Bharati Vidyapeeth

Our mission at Bharati Vidyapeeth is to identify and prepare leaders for the new millennium and also to cope up with the increasing demand for leaders in the modern society. Institute of Management is a workshop where today's youths are shaped up as effective managers of tomorrow. Apart from the study of their regular syllabi, the students should get fair and proper opportunities to express their views and ideas, especially in the field of Management, which plays a vital role in the modern era.

The youth should be moulded and equipped with courage, self-determination, and dedication and must be in a position to overcome any sort of difficulty with introspection. "Hard work brings surprising results" and we are second to none in this sphere.

Dr. Vishwajeet Kadam, Secretary, Bharati Vidyapeeth

Welcome to Bharati Vidyapeeth Deemed University—India's largest multi-faculty, multi-campus university. Only education empowers society to grow in a real sense by overcoming poverty, ignorance, and lack of esteem. This thought led us to pursue BVDU's mission to bring social transformation through dynamic education. Barring all barriers, education should be spread to every stream of society and individual.



Dr. Patangrao Kadam

Founder, Bharati Vidyapeeth



Dr. Vishwajeet Kadam

Secretary, Bharati Vidyapeeth

Sustainable Growth

We have been taking every possible measure to bring the youth under one roof that can provide them with modern education to counter challenges ahead.

Dr. V.J. Kadam, Director, Bharati Vidyapeeth Navi Mumbai Campus

It gives me immense pleasure to introduce our Bharati Vidyapeeth's College and to welcome you to our campus. Our college is an important link in the chain of the prestigious Bharati Vidyapeeth institutions. With a common objective to bring about 'Transformation through Dynamic Education', we will strive for excellence by adopting and implementing a system that ensures a perpetual improvement in educational quality.

Dr. Sandhya Jadhav, Principal Of BVCOE, Navi Mumbai

The college has developed excellent infrastructure, well-equipped laboratories, and a regularly enriched library. The library has also subscribed to several scientific journals, which helps students understand the recent engineering and technology trends. The College provides technical education to students and conducts many co-curricular and extra-curricular programs, which ensure the multifaceted development of students.



Dr. V.J. Kadam

Director, Navi Mumbai Campus



Dr. Sandhya Jadhav

Principal, BVCOE

OUR MOTTO

***“Social
Transformation
Through Dynamic
Education”***

The Department Of Computer Engineering

Dr. D.R. Ingle, Head Of Computer
Engineering Department



The Department Of Computer Engineering offers B.E in Computer Engineering and M.E in Computer Engineering with a combined intake of 138 (120+18). The main goal of our department is to provide students with the right environment to hone their skills not only in academics but in all aspects of life. Knowledge is power and providing the students with the right guidance has been our motive since the very beginning. With the help of our superior infrastructure and faculty members with profound technical knowledge, we ensure we do justice to every single student that has been a part of this department.

Vision

To be a Centre of Excellence in Computer Engineering domain and work with industry on cutting edge technology to meet current and emerging challenges in global perspective for the development of society and nation.

Mission

To provide solid technical foundation theoretically as well as practically in the discipline of computing enabling students to adapt to rapidly changing technology and betterment of society.

138

TOTAL INTAKE

120

B.E. SEATS

18

M.E. SEATS

Expert Lecture Report

IEEE Digital Resources by IEEE Xplore

DEPARTMENT

Computer Engineering

DATE

19th July 2024

SPEAKER

Gaurav Date (IEEE)

COORDINATOR

Prof. Rahul Patil

Objective:

- Introduce students to the IEEE Xplore Digital Library, its structure, functionality, and resources.
- Highlight the significance of using reputable digital resources for academic research and project development.
- Teach students to effectively navigate the platform, use advanced search filters, and access full-text documents.
- Encourage students to find inspiration for research ideas and collaborate with the academic community.

Summary:

The guest lecture on “IEEE Digital Resources by IEEE Xplore for Computer Engineering Students” aimed to introduce students to the extensive range of scholarly content available through IEEE Xplore. The speaker demonstrated how to effectively navigate the platform, search for relevant research papers, journals, conference proceedings, and technical standards. The session concluded by highlighting how IEEE Xplore can serve as a tool for continuous learning and professional development.

Outcomes:

Students gained valuable skills in navigating and utilizing IEEE Xplore for academic research. They learned to identify high-quality research papers, use citation tools, and stay updated with the latest advancements in computer engineering.



EVENT DETAILS

For BE CM & TE CM class

Training Specialist – West India,
IEEE

Faculty Publications

1.

Dr. D.R. Ingle, "Transforming Checkpoints Experiences Efficient Check-in and Check-points with Automatic Number Plate Recognition and Mobile App Integration", 4th International Conference on Sustainable Expert Systems (ICSES 2024) IEEE, 15–17 October 2024, Pokharan University, Nepal.

Dr. D.R. Ingle

2.

Kanchan K. Doke, Dr. D. R. Ingle, "Mathematical Modelling for Neural Network-Based Textural Feature Extraction from Normalized Ocular Images for Improved Biometric Authentication", Advances in Nonlinear Variational Inequalities, Vol 27 No. 2 (2024), pp 453–466.

Prof. Kanchan K. Doke

3.

Mukil, S. B. Mane, R. Abdulla, and S. Sivanesan, "Fall Detection System for Labor Safety," AIP Conference Proceedings, vol. 3161, AIP Publishing, p. 020146, 2024.

Dr. Sulakshana Mane

4.

C. R. Bhat, S. B. Mane, C. Bhatt, G. Verma, S. J. Naser, and Muhsin Jweeg, "Enhancement of Level of Security using Wireshark Through Continuous Monitoring and Detection System," 2024 4th ICACITE, IEEE, pp. 342–344, 2024.

Dr. Sulakshana Mane

5.

S. B. Mane, S. Thangalakshmi, R. Umamageswari, C. Praveenkumar, A. R. Sarhan, and O. Muhsin, "The use of SVM and AR Methods for allotment of Load Scheduling and Energy Management in SPS," 2024 ICACITE, IEEE, pp. 16–20, 2024.

Dr. Sulakshana Mane

6.

M. Balasubramanian, K. S. Kakade, S. B. Mane, and S. J. Anand, "Deep Learning for Smart Home Security Systems: CNN-based Home Security," International Journal of Electronic Security and Digital Forensics, vol. 16, no. 4, pp. 451–463, 2024.

Dr. Sulakshana Mane

7.

K. S. Kakade, S. B. Mane, and N. Halgare, "SQL Injection Authentication Security Threat," International Journal of Electronic Security and Digital Forensics, vol. 1, no. 1, Inderscience Publishers, 2024.

Dr. Sulakshana Mane

8.

Shweta B. Barshe, Aruna S. Kamble, Ponmalar Ramanathan, Monali V. Deshmukh, Nilima R. Patil, Sandhya D. Jadhav, "Comprehensive Analysis of Artificial Intelligence based Crop Recommendation and Soil Analysis."

Prof. Shweta Barshe

Faculty Achievement

FDP Attended

SN	Faculty	Title	Duration	Organized By
1	Dr. D.R. Ingle	Advances in Renewable Energy Technologies for Sustainable Development	29 Jul–2 Aug 2024	BVCOE, Navi Mumbai
2	Prof. Rahul Patil	Augmented Reality & Virtual Reality	8–12 Jul 2024	K.J. College, Pune
3	Prof. Sandip B. Chavan	A Deep Dive into AI & Its Applications	15–19 Jul 2024	Dept. of E&TC, BVDU
4	Dr. Sulakshana Mane	Data Science	13–20 Jul 2024	Govt. Polytechnic, Pune

Certified Course by Faculty

SN	Title	Institute	Duration	Faculty
1	Good Citation Behaviors	Research Brains	13–24 Jul 2024	Dr. Sulakshana Mane

Students Participation in Competition

SN	Student	Event	Level	Date	Prize
1	Gaurav Salunke	SIH	Internal	3 Sep 2024	Participated
2	Gaurav Salunke	Eureka	Zonal	3 Nov 2024	Participated
3	Gaurav Salunke	Ideathon	LI	10 Nov 2024	Participated
4	Atharva Shelar	SIH	Internal	3 Sep 2024	Participated
5	Atharva Shelar	Eureka	Zonal	3 Nov 2024	Participated
6	Atharva Shelar	Ideathon	LI	10 Nov 2024	Participated
7	Pratik Ugalmugale	SIH	Internal	3 Sep 2024	Participated
8	Pratik Ugalmugale	Eureka	Zonal	3 Nov 2024	Participated
9	Pratik Ugalmugale	Ideathon	LI	10 Nov 2024	Participated
10	Vighnesh Thakur	SIH	Internal	3 Sep 2024	Participated
11	Angad Shinde	SIH	Internal	3 Sep 2024	Participated
12	Abhishek Shedge	SIH	Internal	3 Sep 2024	Participated
13	Vinay Surnar	SIH	Internal	3 Sep 2024	Participated
14	Sarvesh Natulkar	SIH	Internal	3 Sep 2024	Participated
15	Digvijay Kadam	SIH	Internal	3 Sep 2024	Participated

PATENT PUBLISHED

“Ecocriticism in Literature: Examining Nature & the Environment”

Patent No: 202431061616

Date: 24/8/2024

Dr. Sulakshana Mane

BOOK CHAPTERS PUBLISHED

1. “Revamping Internal Customer Experience (ICX) with AI” — CRC Taylor & Francis, ISBN: 9781774917213 (2024)

2. “Monitoring COVID-19 Outbreak at Airport” — IIP Publisher, e-ISBN: 978-93-6252-447-8

Dr. Sulakshana Mane

RESEARCH GRANT RECEIVED

₹ 3,50,000

“Advanced Technology in Agriculture”

Funded by AICTE

5–14 Dec 2024

Dr. Sulakshana Mane (Co-coordinator)

KEY STATS

4

FDPS

1

PATENT

2

BOOK CH.

Certified Courses & Student Events

Certified Courses Completed by Students

SN	Title	Institute	Duration	Student	Class
1	Java Programming	NPTEL	22 Jul–11 Oct	Soham Patil	SE
2	Java Programming	NPTEL	22 Jul–11 Oct	Mayur Pawar	SE
3	Java Programming	NPTEL	22 Jul–11 Oct	Kamal Singh	SE
4	C, C++	MKCL	May–Aug 2023	Gaurav Salunke	SE
5	Java Programming	NPTEL	22 Jul–11 Oct	Gaurav Salunke	SE

A Student's Participation in Technical Events

SN	Student Name	Event	Organized By	Date	Class
1	Gaurav Salunke	SIH	AICTE	Nov 2024	SE
2	Gaurav Salunke	Eureka (Zonal Round)	IIT Bombay	Nov 2024	SE
3	Gaurav Salunke	Ideathon	Mumbai University	Nov 2024	SE
4	Atharva Shelar	SIH	AICTE	Nov 2024	SE

CERTIFIED COURSES SUMMARY

5 **4**

COURSES STUDENTS

COURSE PLATFORMS

NPTEL

4 students completed Java Programming certification

MKCL

1 student completed C, C++ certification

TECHNICAL EVENTS HIGHLIGHT

Students demonstrated initiative by participating in national-level technical events organized by AICTE, IIT Bombay, and Mumbai University.

TOP PERFORMER

Gaurav Salunke

3 competitions + 2 certified courses

Industrial Visit

Visit to Centre for Development of Advanced Computing (C-DAC)

VENUE & DATE

C-DAC, Kharghar, Navi Mumbai • 16 Oct 2024

DEPARTMENTS

Mechanical Engineering & Computer Engineering



Objectives:

- To observe and understand various learning processes offered by C-DAC.
- To gain insights into online campus-to-industry integration.
- To connect theoretical knowledge with practical applications.
- To explore mentorship opportunities for lab development.
- To discuss funding opportunities from Ministry of Electronics & IT, DST, AICTE.
- To discuss projects involving drones, humanoid robots, and internships.

Key Outcomes

Enhanced understanding of industry needs and academic expectations. Identification of collaboration opportunities such as internships, research, and skill development programs. Follow-up meetings to be scheduled to explore robotics-specific collaboration initiatives.

IIT Bombay Visit

The Industry-Institute Interaction conducted between Bharati Vidyapeeth College of Engineering and IIT Bombay aimed to foster collaboration and strengthen academic ties. Faculty visited CITARA and gained insights into Rural Development and Agriculture problem statements with technological advancements.

Conclusion: The interaction was productive and marked the beginning of a collaborative journey aimed at bridging the gap between academia and cutting-edge research.



Pre-Placement Training

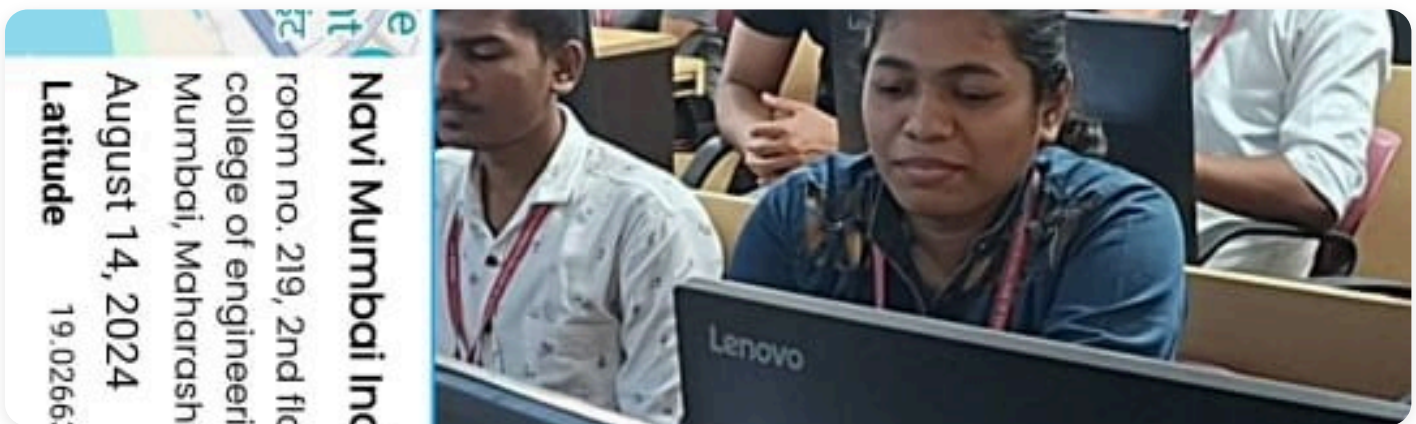
COLLEGE BVCOE, Navi Mumbai	DEPARTMENT Computer Engineering	DATE 14th August 2024
TITLE "Innovation Industry Horizons"	SPEAKER Radhakrishnan Rajan	COORDINATOR Prof. Shweta Barshe

Objective:

Bharati Vidyapeeth College of Engineering, Navi Mumbai, in association with Institution Innovation Council has organized an interactive session on "Innovation Industry Horizons". This seminar focused on bridging the gap between academic learning and industry expectations, equipping students with the knowledge to navigate the evolving tech landscape.

Outcomes:

- Students became aware of the importance of different Technologies (AI & ML, Quantum Computing, IOT etc.)
- Industry Practices through Case Studies and Real-World Examples were discussed.
- Students gained insights into current industry expectations and skill requirements.



Parents Teacher Meet

The Parents Teacher meeting for Odd Semester 2024-25 was held on 31st August 2024 under the guidance of HOD Dr. D.R. Ingle and Principal Dr. Sandhya Jadhav. Parents of students from all three classes SE, TE, and BE visited the department.

Objectives:

- **Academic Progress Review:** Discuss student's academic performance, grades, project work, and class participation.
- **Feedback and Communication:** Provide a platform for parents to share concerns about curriculum and teaching methods.
- **Attendance and Discipline:** Review attendance, punctuality, and behavior; address disciplinary issues.
- **Parental Involvement:** Encourage parents to be involved in their child's educational journey.

HOD Dr. D.R. Ingle spoke about department achievements, student placements, and research initiatives. Parents suggested giving topics for presentation to help students improve communication skills. One parent, Mr. Jaykumar from BARC, briefed about avenues and opportunities in BARC for students after graduation.

Outcomes:

- Parents interacted with Mentors, Class Advisors and discussed various student issues.
- Syllabus completion, Defaulter system, and Academic planning were communicated to parents.
- Both Dept and Parents shared thoughts on Industry Interaction and Institutes of Eminence – BARC.



Alumni Activity

Guest Lecture: "Education Abroad"

DATE

30th July 2024

SPEAKER

Urjit Mojumder (2021 Passout)

COORDINATOR

Prof. Rahul Patil

The "Guest Lecture on Education Abroad" aimed to enlighten students about opportunities for studying in foreign countries. Topics covered included academic programs, scholarships, application processes, and cultural experiences. Students gained a comprehensive understanding of international study options and were empowered to make informed decisions about studying abroad.



Guest Lecture: "Opportunities in Software Industries"

DATE

1st October 2024

SPEAKER

Mr. Prabhat Vanmore, Web Developer

COORDINATOR

Prof. Rahul Patil

The lecture provided an insightful overview of various career paths and job roles available in the software industry. Students were introduced to current trends such as automation, agile methodologies, and the increasing importance of cybersecurity. Practical guidance was offered on enhancing employability through internships, certifications, and open-source projects.

The lecture also covered opportunities for entrepreneurship in the tech space, encouraging students to consider starting their own ventures in app development, SaaS, and digital solutions.



NOTE OF THANKS

Our Principal, Dr. Sandhya Jadhav, has always been an inspiration to all the students. She makes sure every idea gets a platform and no talent goes unnoticed. We thank her on behalf of the entire department for being an inspiration to all of us.

We would like to thank the Head of the Computer Department, Dr. D. R. Ingle, who has encouraged us to think out of the box and guided us since the very first day we joined this institute. He has been the backbone of our department and we would like to thank him on behalf of the whole department for his sincere efforts.

Prof. Rahul Patil has been the one to coordinate the editing and printing. He was there all along making sure all the content was available to the editors and encouraged us to be as creative as possible.

Last, but not the least, a special thanks to our readers. This wouldn't have been possible without your support.

WITH GRATITUDE

Thank You