Maratha Vidya Prasarak Samaj's

Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering

Udoji Maratha Boarding Campus, Near Pumping Station, Gangapur Road, Nashik

Permanently Affiliated to Savitribai Phule Pune University

KBTCOE

NBA
NATIONAL BOARD OF ACCREDITATION

ACCREDITED BY
- MECHANICAL ENGINEERING
- COMPUTER ENGINEERING
- INSTRUMENTATION AND CONTROL ENGINEERING
- CIVIL ENGINEERING
- INFORMATION TECHNOLOGY (IT)

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KBTCOE NEWS LETTER

DEPARTMENT OF COMPUTER ENGINEERING

News letter 2022-23

VOL-V * ISSUE-2

Welcome to the vibrant world of K.B.T. College of Engineering, Nashik, where innovation meets excellence! Since its inception in 1999, our institution has been a beacon of knowledge, fostering growth and development in the hearts and minds of our students and the broader community.

At K.B.T. COE, we offer a diverse array of four-year undergraduate programs, ranging from Mechanical Engineering to Information Technology, ensuring that our students are equipped with the skills and knowledge needed to thrive in today's dynamic world. Additionally, our postgraduate offerings, including MBA, MCA, and specialized ME programs, provide further opportunities for academic and professional advancement.

With the launch of our newsletter in January 2017, we embarked on a journey to keep our student and staff community, as well as society at large, informed and engaged. Through this platform, we not only share important updates and announcements but also celebrate the achievements and milestones of our K.B.T. COE family.

As you explore our latest issue, available on our college website, www.kbtcoe.org, you'll discover a treasure trove of stories that highlight our collective successes, foster unity, and inspire a spirit of camaraderie and motivation. Join us as we continue to push the boundaries of excellence and shape the future together at K.B.T. College of Engineering, Nashik.

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VISION, MISSION AND OBJECTIVES OF THE DEPARTMENT :

VISION

TO BE THE CENTER FOR EXCELLENCE FOR TRAINING THE WORLD-CLASS ENGINEERS TO WORK WITH MULTIDISCIPLINARY DOMAIN BASED ON THE STATE- OF-THE-ART OF TECHNOLOGY ENABLED ACADEMIC SYSTEM BLENDED WITH INDUSTRIAL AND BUSINESS PRACTICES.

MISSION

TO EDUCATE AND TRAIN UNDERGRADUATE STUDENTS IN COMPUTER ENGINEERING BY INSTILLING EXCELLENCE TO FULFILL PROFESSIONAL AND SOCIAL REQUIREMENTS IN BUSINESS AND INDUSTRY ON THE PLATFORM OF SCIENTIFICALLY DESIGNED ACADEMIC PROCESSES..

PROGRAM EDUCATIONAL OBJECTIVES

TO INCULCATE COMPUTATIONAL AND PROGRAMMING SKILLS IN THE FIELD OF COMPUTER ENGINEERING.TO PREPARE THE GRADUATES TO FULFILL PROFESSIONAL REQUIREMENTS IN INDUSTRY.TO DEVELOP THE GRADUATES TO SOLVE PROBLEMS RELATED TO THE SOCIETY

Editorial Team

Dr. Vaishali Tidake
Editor-in-chief

Mr. Rudram Patil
Editor

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T.I.M.E Career Guidance Session

The Department of Computer Engineering, in collaboration with the Association of Computer Engineering Students (ACES), organized a Career Guidance Session aimed at providing valuable insights to undergraduate students pursuing Computer Engineering at KBTCOE, Nashik. The session, facilitated by Mr. Vishal Jategaonkar from T.I.M.E Nashik, was conducted on Thursday, 27th April 2023, at the Civil Seminar Hall.

The objective of the session was to equip students with knowledge and resources necessary for making informed decisions about their future careers in the field of Computer Engineering. With a duration of one hour, the session delved into various aspects such as career paths, opportunities, skill sets in demand, and strategies for career advancement.

Nashik, Maharashtra, India
2Q77+RFQ, Gangapur Rd, Patil Colony, Canada Corner, Nashik, Maharashtra 422005, India
Lat 20.014213°
Long 73.763788°

Aligned with the institution's mission to educate and train undergraduate students in Computer Engineering (Mission Tag: M1), the session catered to students from Second Year (SE), Third Year (TE), and Final Year (BE). A total of 250 students actively participated, demonstrating their enthusiasm and eagerness to learn about potential career trajectories.

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Covering Program Outcomes (PO) 1 and 6, as well as Program Specific Outcome (PSO) 1, the session focused on enhancing students' understanding of industry requirements and aligning their academic pursuits with real-world applications.

Ms. P.P. Boraste, Assistant Professor at KBTCOE, Nashik, efficiently coordinated the event, ensuring its smooth execution and maximum benefit to the attendees.

Overall, the Career Guidance Session served as a platform for students to gain valuable insights, clarify their career goals, and embark on a path towards a successful and fulfilling professional journey in Computer Engineering. Such initiatives play a crucial role in bridging the gap between academia and industry, ultimately contributing to the holistic development of students and the advancement of the field.

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Alumini Activities

Sr. No.	Programmes (special lectures / workshops / seminar)	Name of Expert	Date
1	Cloud Applications & Career Opportunities	Mr. Malhar Kulkarni, Senior Solution Owner, SAP Lab, Pune	01/09/2022
2	Version Control Systems	Mrs. Yogita Tarle, Senior Developer, Soft Corner, Pune	02/09/2022
3	Jobs at Startups and Career Impact	Mr. Roshan Maind, Platform Engineer, Hopstack Inc. Bengaluru, Karnataka	05/09/2022
4	Profile Building	Mr. Kunal Bhusare, Product Manager, Tex. Inc. Sydney, Australia	16/09/2022
5	Cyber Offenses, Tools and Methods used in Cybercrime	Mr. Santosh Mundhe, Cyber Security Trainer, Nashik	15/10/2022
6	System Programming: Concurrent Systems	Mr. Abhinav Bhagwat, Sr. Staff Engineer at Highway9 Networks Inc., Pune	20/10/2022
7	Software Testing and Agile Methodologies	Mr. Chinmay Pawar, Senior SDET, WebMD, Mumbai	29/04/2023

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Activities & Events

Sr. No.	Title	Name of Expert	Date	Class	No of Students present
1	Expert talk on "Blockchain Technology"	Mr.Kushal Mahajan, Winjit Technology, Nashik	5/11/2022	BE	45
2	Two days workshop on Industry 4.0: Opportunities and Challenges	Mrs. Premlata Mishra,Nashik, Mr. Ramashish Bhutada	17/10/2022 ,18/10/2022	SE, TE,BE	97
3	Expert talk on"Need of Human-Computer-Interaction studies"	Dr. Yogesh Deshpande,Director,Vishwakarma University, Pune.	05/11/2022	TE	32
4	Expert talk on"Systems Programming: Concurrent system"	Mr. Abhinav Bhagwat, Sr. Staff Engineer at Highway9 Networks Inc. Pune	20/10/2022	TE	45
5	Expert talk on " Lex and Yacc"	Dr. V. S. Tidake, Associate Professor, MVPS's KBTCOE,Nashik	26/09/2022	TE	50

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Activities & Events

6	Expert talk on " Logistic Regression & Its Real Life Application"	Mr. T.B. Kute, MITUSkillologies Pune	18/102022	BE	57
7	Expert talk on " Recommendation Systems"	Ms. Anagha Choudhari, PCCOE, Pune	9/11/2022	BE	55
8	Expert Talk on "UML Diagrams"	Dr. D. V. Medhane, HOD Department of Computer Engineering, MVPS's KBT COE, Nashik	11/11/2022	BE	75
9	Expert talk on"Cyber Security Awareness"	1. Shri. Sandip Borade,PSI, Cyber Police Nashik 2. Shri. Bhushan Deshmukh, Police, Cyber Police , Nashik	18/10/2022	SE	40
				TE	54
10	Expert Talk on Cyber Laws	Dr. S. A. Talekar	12/11/2022	BE	33
11	Exploring OpenGL: Hands on Session and Practical	Ms. Madhuri Shinde, Assistant Professor, Dept. of Computer Engg., MET's IOE, Nashik	5/12/2022	SE	68
12	Profile Building	Mr. Kunal Bhusare, Product Manager, Tex.inc, Sydney, Australia	16/09/2022	SE, TE	70

Activities & Events

13	Expert session on Time Complexity & MST using Prims, Kruskal Algorithm	Dr. Aarti A. Agarkar, MMMCOE, Pune	13/10/2022	BE	46
14	Jobs at Startups & Career Impact	Mr. Roshan Maind, Platform Engineer, Hopstack Inc., Bengaluru,Karnataka, India.	SE,TE,BE	83	83
15	Expert Session on Audit Course[Cyber Security]Cyber offenses, tools and methods used for cybercrime	Mr. Santosh Mundhe	15/10/2022	TE	71
16	Expert session and hands on for 3D printing	Mr. Nitin V. Lokare, MVPS's KBTCOE, Nashik	17/10/2022	BE	69
17	Version Control System	Mrs. Yogita Tarle	02/09/2022	BE	71
18	Expert talk on Logic Families	Mr. A.P. Meshram	8/12/2022	SE	75

AWARDS AND PRIZES RECEIVED BY STUDENTS

Sr. No.	Name of the student	Rank	Awards; Level(University, state, national and international local)
1	Kush PatelUmesh PatilKasturi Patil	2nd prize along with 5 thousand cash prize	National Level Talent Search Competition organized on the occasion of Engineers day
2	Kshitija KurhadeRutuja DhavaleAnurag Wagh Nikita Wani	1st price	EQUINOX 2023 Project War held at KKW COE Nashik
3	Bhagyashree WaghKasturi WaghNeha Wagh	2nd price	IDEAHON Bhagyashree Wagh held at PVG COE ,Nashik
4	Yash RingePratik SonarSanket A. ShindeSankel B Shinde	3rd price	Impetus and Concepts 23 Technical Symposium held at PICTPune
5	Khushi PatilSayba ShaikhKiran BedkoliDivya Patil	2nd price	IDEATHON Furious Hunter held at PVG COE ,Nashik
6	Gayatri ChaudhariSakshi AhireSharyu Garde	3rd price	Sports: SPPU Intercollege BasketBall Women's Competition "VadnerBhairav,Chandwad"

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Memorandum of Understanding

Computer Enginnering department has signed an MOU for the purpose of strengthening the industry institute interaction . Under this MOU training courses can be conducted on various technologies . Recently , a training course on Deep Learning and NLP was conducted .

This MOU will benefit the students for industrial projects and will provide guidance to the students to perceive their career in the IT field . Head Of Computer Department Dr. D. V. Medhane and Dr. V .S . Tidake took efforts for the MOU

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Short Term Training Programme on Bioinspired Computing and Deep Learning

Organized by: First Impression Technologies, Nagpur

Dates: Tuesday, 09/05/2023 to Saturday, 13/05/2023

1. Introduction:

The One-Week Short Term Training Programme on Bioinspired Computing and Deep Learning was conducted by First Impression Technologies, Nagpur, under the leadership of Mr. Ashwinikumar Balani, CEO. The program aimed to provide participants with comprehensive knowledge and practical skills in the fields of bioinspired computing and deep learning.

2. Objectives:

- Introducing participants to the concepts and principles of bioinspired computing.
- Exploring the fundamentals and applications of deep learning techniques.
- Providing hands-on experience through practical sessions and workshops.
- Fostering collaboration and networking among participants and industry experts.
-

3. Program Structure:

The training program was meticulously structured over five days, covering a range of topics:

- Day 1: Introduction to Bioinspired Computing
- Day 2: Deep Learning Fundamentals
- Day 3: Advanced Deep Learning Techniques
- Day 4: Practical Workshops and Hands-On Sessions
- Day 5: Applications of Bioinspired Computing and Deep Learning

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Session by Mr.Ashwin Balani

4. Resource Person:

Mr. Ashwinikumar Balani, CEO of First Impression Technologies, Nagpur, led the training sessions, leveraging his expertise and experience in the field of deep learning and bioinspired computing. He delivered insightful lectures and facilitated interactive discussions throughout the program.
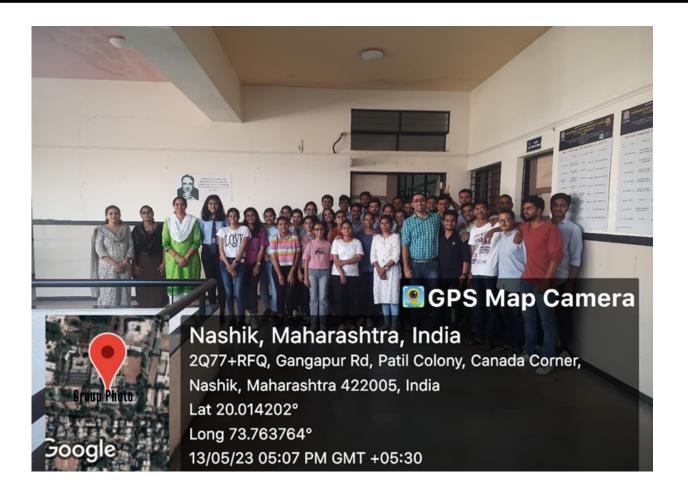
5. Participant Engagement:

Participants actively engaged in theoretical sessions, practical workshops, and hands-on exercises. They were provided with learning materials and resources to aid their understanding and implementation of concepts discussed during the training.

6. Guest Lectures:

Distinguished guest speakers from academia and industry shared their insights and experiences, enriching the learning experience of participants. Topics ranged from real-world applications of deep learning to the ethical considerations in bioinspired computing.

Group Photo

7. Conclusion:

The One-Week Short Term Training Programme on Bioinspired Computing and Deep Learning provided participants with a comprehensive understanding of cutting-edge technologies in the field. The hands-on approach and interactive sessions ensured active participation and knowledge retention among attendees.

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MVP Kshitij-2022-23

Introduction:

MVP Samaj's KBT College of Engineering, Nashik, renowned for its excellence in technical education and accredited by NBA and NAAC with A++ grade, proudly hosted MVP Kshitij-2023, a national-level technical event. The event aimed to provide a platform for budding engineers to showcase their talents, exchange ideas, and compete in various technical competitions. MVP Kshitij-2023 featured a range of competitions including Project Competition, Technical Quiz, Logo Designing, and UI/UX Design.

Sponsorships:

The success of MVP Kshitij-2023 was greatly supported by generous sponsorships from various organizations. The following sponsors contributed to the event:

- Akshay Study Abroad: Contributed 3000/- towards the event.
- TIME (Triumphant Institute of Management Education): Contributed 5000/- towards the event.
- Raj Computers: Contributed 5000/- towards the event.
- All That's Coffee: Contributed 5000/- towards the event.
- GATE Forum: Provided 3 vouchers for the winners of the competitions.

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Event Highlights:

MVP Kshitij-2023 witnessed enthusiastic participation from students across the country. The event commenced with an inauguration ceremony, followed by various competitions conducted throughout the day. Here are the highlights:

- Project Competition: Teams presented innovative projects spanning diverse fields of engineering, demonstrating their technical prowess and problem-solving skills.
- Technical Quiz: Participants engaged in a battle of wits, testing their knowledge across different domains of science and technology.
- Logo Designing: Creativity flourished as participants showcased their artistic abilities by designing captivating logos relevant to the theme of the event.
- UI/UX Design: This competition challenged participants to craft user-friendly interfaces and engaging user experiences for digital platforms.

Conclusion:

MVP Kshitij-2023 concluded successfully, leaving a lasting impact on all participants and attendees. The event not only provided a platform for showcasing technical acumen but also fostered collaboration and learning among aspiring engineers. We extend our heartfelt gratitude to all sponsors, participants, faculty members, and volunteers whose contributions made MVP Kshitij-2023 a grand success.

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Farewell-2022-23

The Department of Computer Engineering & ACES (Association of Computer Engineering Students) at Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering organized a heartfelt farewell party on 20th May 2023 to bid adieu to the graduating batch of BE A.Y 2022-23. The event aimed to celebrate the achievements and cherish the memories of the departing students as they embarked on a new journey beyond academia.

Organizing Committee:

The farewell party was meticulously organized by a dedicated team comprising:

- Dr. D.V. Medhane: HOD Computer Department
- Ms. P.P. Boraste: ACES Coordinator
- Shantanu Pawar: President
- Kasturi Patil: Event Coordinator

Event Highlights:

The farewell party commenced with a warm welcome extended to the outgoing batch of students, accompanied by nostalgic reflections on their academic journey. The event featured a series of memorable activities and moments, including:

- Speeches and Felicitations: Dignitaries, faculty members, and peers delivered heartfelt speeches, reminiscing about the students' journey, acknowledging their accomplishments, and offering best wishes for their future endeavors.
- Entertainment: Various cultural performances, including songs, dances, skits, and poetry recitations, added vibrancy and joy to the atmosphere, evoking laughter and nostalgia among the attendees.
- Interactive Sessions: Interactive sessions provided an opportunity for students to share their experiences, express gratitude towards faculty and peers, and impart words of wisdom to their juniors.
- Mementos and Tokens of Appreciation: The graduating students were presented with personalized mementos and tokens of appreciation as symbols of remembrance and gratitude for their contributions to the college community.

Conclusion:

The farewell party concluded on a poignant note, with a mix of emotions ranging from joyous anticipation of future prospects to bittersweet farewells. It served as a fitting tribute to the graduating batch, encapsulating the camaraderie, achievements, and memories shared during their time at Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering.

Field Visit

1. Introduction:

The Department of Computer Engineering organized an Industry Visit to the Nilgiri Baug Water Treatment Plant in Nashik on April 19th, 2023. The purpose of the visit was to provide students with practical insights into water resources and management processes, as well as to explore research and development areas crucial for efficient utilization and management of water resources.

2. Objectives:

- The primary objectives of the visit were:
- To analyze the process for water resources and management.
- To study the research and development areas necessary for efficient utilization and management of water resources.

3. Itinerary:

The visit commenced at 10:00 AM and lasted for approximately 2 hours. Participants were guided through various sections of the water treatment plant, where they observed firsthand the processes involved in water purification and management.

4. Key Learnings:

- During the visit, students gained valuable insights into the following areas:
- Understanding the various stages of water treatment and purification.
- Identifying challenges and opportunities in water resource management.
- Exploring technological advancements and innovations in water treatment processes.
- Recognizing the significance of research and development in addressing water resource sustainability.

5. Conclusion:

The Industry Visit to Nilgiri Baug Water Treatment Plant provided SE students with a practical understanding of water resource management processes and the importance of research and development in this field. The visit enhanced their knowledge and awareness of environmental sustainability and professional ethics, aligning with the department's mission to produce socially responsible engineers.

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STAFF PUBLICATIONS

Sr. No	Authors & CoAuthor	Title of ResearchPaper	Name of the Journal	Volume, Issue &Page Nos.	Month	DOI
1	Balasaheb Tarle	Crime Spot Detection Using the Eclat Algorithm	METSZET (ISSN:2061-2710) V	METSZET (ISSN:2061-2710) Vol: 7(12) pages: 10-18	2022	10.27896/METSZET7.12/02
2	Sopan Talekar	An Efficient Clustering Technique for Big Data Mining.	International Journal of Next-Generation Computing	International Journal of Next-Generation Computing Oct2022, Vol. 13 Issue 3, p702-717. 16p.	2022	https://doi.org/10.47164/ijngc.v13i3.842
3	Sopan Talekar	Applications of Cognitive Radio Networks: A Review	Journal of IoT in Social, Mobile, Analytics, and Cloud, D	Journal of IoT in Social, Mobile, Analytics, and Cloud, December 2022, Volume 4, Issue 4, Pages 272-283	2022	https://doi.org/10.36548/jismac.2022.4.004
4	Sopan Talekar	THE ROLE OF MATHEMATICS IN MACHINE LEARNING	Journal of Data Acquisition and Processing	Journal of Data Acquisition and Processing Vol. 38 (1) 2023	2023	DOI: 10.5281/zenodo.7702430
5	Sopan Talekar	Improved Q-Reinforcement Learning based Optimal Channel Selection in Cognitive Radio Networks	International Journal of Computer Networks and Communications	International Journal of Computer Networks and Communications	2023	DOI: 10.5121/ijcnc.2023.15301
6	Anuja bachhav, sharayu patil, manisha yadav, liju kunjumon, mr. S.t.datir	Telecom churn prediction	International journal of scientific research in engineering and management (ijsrem)	International journal of scientific research in engineering and management (ijsrem) volume-06 issue-09	2022	DOI: 10.55041/ijsrem16350
7	Madhuri Malode	Integrated HDFS for secure traceability with BlockChain	Spvryan's International Journal of Engineering Sciences & Technology (SEST) ISSN : 2394-0905	Spvryan's International Journal of Engineering Sciences & Technology (SEST) ISSN : 2394-0905	2022	
8	Balasaheb Tarle and Vaishali Tidake	Rotation Forest Algorithm With The Help Of Artificial Bee Colony For Medical Data Classification	Neuroquantolog	Neuroquantology, December 2022, volume 20, issue 22, page 3894-3901	2022	DOI: 10.48047/nq.2022.20.22.nq10388