



ENGINEERING SCIENCE NEWSLETTER

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Vision:

Engineering science department of MVPS's KBT College of Engineering determines to become a centre of learning in the field of "sciences-in-engineering" and the development of human values to develop engineers those can apply basic knowledge in engineering field to serve society.

Mission:

- 1.To produce graduates with strong knowledge of engineering sciences who are anchored on the principles of hard work and integrity.
- 2.To cultivate scientific culture with mathematical approach.
- 3.To solve the problems in engineering and improve it.



Maratha Vidya Prasarak Samaj's
Karmaveer Adv. Baburao Ganpatrao Thakare
College of Engineering, Nashik

NAAC "A++" Grade Accredited Institute

Permanently Affiliated to Savitribai Phule Pune University

Approved by AICTE, New Delhi. <http://www.kbtcoe.org>

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FE Students Induction Program (Phase 2)

From 19/01/2024 to 20/01/2024

Day 1: 19/01/2024

Session I

Session: “Time Management”

Speaker: Shri. Krushn Dhan Dasji

Session 1 was conducted by Shri. Krushn Dhan Dasji who is the president of ISKCON, Nashik and looks after youth preaching activities in Nashik. He also delivered about the importance about time as Increased productivity, reduced stress, improve decision making.

And also delivered talk about key principles of time management like prioritization, goal setting, planning, adaptability. In his talk to all FE students he guided about various technics to become successful in all aspects. We are very much thankful to Shri. Krushn Dhan Dasji amazing talk on ‘Time management’



Session II
Session: “Start-up Story”
Speaker: Ms. Kalyani Shinde

Ms. Kalyani Shinde, she is Founder and Managing director of **Godaam Innovations**. She delivered all about her start-up story, how she became an entrepreneur and also about from where she got an idea to start the Godaam innovations..she also conducted the Q and A session. In this Q and A session, students asked lot of questions related to how to achieve success in life, from where we can earn the fund for start up, how we can build the team for the start up.



Session III
Session: “Stress Management”
Speaker: Mr. Sachin Jadhav

On the 1st day of induction program Mr. Sachin Jadhav, Director of Ramanujan Academy and Executive Chairman PCCDA, guided our students on stress management. The session was interactive and engaging, with Mr. Jadhav conducting activities to help our students apply the techniques they learned. Students are thrilled having this valuable learning experiences and help them develop skills that will serve them well in their academic and personal lives.



Day 2: 20/01/2024
Session I
Session: “Goal Setting”
Speaker: Dr. Prafulla Hatte

Dr. Prafulla Hatte is a Dean R&D, career counselor (NLP coach) at MITAOE Academy Pune. In his session he guided students about career planning and future scope. Some of the points from his speech elaborated about clarity, motivation, priotitization etc.

1. Clarity: Goal setting provides a clear direction by defining specific objectives, helping individuals or organizations understand what they aim to achieve.
2. Motivation: Setting goals creates a sense of purpose and motivation, driving individuals to work towards their aspirations with increased focus and dedication.
3. Measurability: Well-defined goals are measurable, allowing progress tracking and assessment, which aids in identifying achievements and areas for improvement.
4. Prioritization: Goals assist in prioritizing tasks and activities, guiding efforts toward the most important and impactful actions to achieve desired outcomes.
5. Accountability: Setting goals establishes accountability as individuals take ownership of their objectives, fostering a sense of responsibility and commitment to the desired results.



Session II
Session: “Communication skill”
Speaker: Ms. Neena Ramani

During the session Ms. Neena Ramani firstly introduced about importance of communication skills like team collaboration, conflict resolution and strategies for improvement the skill. While delivering talk she also delivered continuous commitment to improving communication skills is vital for personal and professional growth. By understanding the components and implementing effective strategies, individuals can contribute positively to their workplace and foster better relationships.



Department of Engineering Science
Two days workshop on “Robotics”
By
Mr. Sagar Patil
(Founder – Raybot Automation, Nashik)
In Association with AARAMBH
(Students Association for First Year)
11/02/2024

First Year Engineering Students Association (AARAMBH) in association with Raybot Automation has organized two days hands-on workshop on "Robotics and IOT" for first year engineering students. This workshop is conducted by Mr. Sagar Patil along with his team members. Mr. Sagar has completed his education in Bachelor of Science with specialization as Physics from MVPS's KTHM College Nashik. He is currently working as Founder for Ray Robotics at Nashik.

Mr. Sagar Patil started the workshop by introducing participants about the basic Electronics components and then he introduced students about microcontroller and Arduino circuit. He stated that Arduino Uno is an [open-source microcontroller board](#) based on the [Microchip ATmega328P](#) microcontroller and developed by [Arduino.cc](#). The board is equipped with sets of digital and analog [input/output \(I/O\) pins](#) that may be interfaced to various [expansion boards](#) and different sensors. Later Mr. Sagar Patil and his team guided students about how to interface all elements with Arduino circuit and students have run various hands on practicals like led blinking, Ultrasonic sensor interfacing for distance measurement, DC motor interface, Obstacle avoiding robots etc.

The workshop is conducted at Electrical lab C508 on 7th and 9th March 2024 from 10:00 am to 5.00 pm. Total number of participants for this workshop is 17.



Department of Engineering Science
Session on “Know your food to master your health” by
Dr. Shreya Agrawal (Ph.D. Bioscience, IIT Bombay)
21/02/2024

First year engineering students association (AARAMBH) has organized a session on “Know you food to master your health” for first year students. For delivering the session Dr. Shreya Agrawal have been invited. Dr. Shreya has a PhD in Biomedical engineering and Herbal technology from IIT Bombay, She is verified yoga, naturopathy and chief scientific adviser for Aadar – a wellness brand. She is a nature and wellness enthusiastic speaker and founder of the Sattvaj – a unique initiative for providing health and harmony.

In the session she begins with the explanation about working of our human body and digestive system with detail function of various organs along with their microscopic images. Later on she guided about the harmful contains which are present in various fast food that we eat and cold drinks. She also suggest that the benefits of eating different fruits and vegetables for getting better health. The session becomes very interactive as students actively participate and motivated by the talk delivered by the speakers. Around 240 students have attended the session.



Department of Engineering Science
Session on “Introduction to AI & ML for Budding Engineers”
By
Mr. Sagar Patil
(Founder – Ray Robotics, Nashik)
23/02/2024

First Year Engineering Students Association (AARAMBH) has organized the session on "Introduction to AI & ML for Budding Engineers" for first year engineering students. For delivering the session, Ms. Sagar Patil was invited to our college. He has completed his education in Bachelor of Science with specialization as Physics from MVPS's KTHM College. He is currently working as Founder for Ray Robotics at Nashik.

Mr. Sagar Patil started the session by introducing brief about his journey and some projects he made on Automation and Robotics. Later on he described the basics of Artificial Intelligent and Machine Learning i.e. how it works. While explaining about AI and ML he has given live demo of how AI ML works by using system software, some students volunteer called upon stage and he demonstrated how Virtual reality works and stored in terms of data can be utilized later on. We search lots of things over internet and whatever we search that stores in the cloud, the AI uses that data works on it and provide related stuff for us this is AI and ML explained by him. The session was conducted at C Building seminar hall. Around 250 first year students are benefited with this session.



Department of Engineering Science
Session on “Mind Matters” by
Mr. Saurabh Toche, Mr. Rajas Nikumbh, Er. Advait Rao. Ar. Jatin Jagtap
(Volunteers – Art of Living)
15/02/2024

First Year Engineering Students Association (AARAMBH) has organized an Expert session on "Mind Matters". For delivering the session about Mind Matters, A team of volunteers of Art of Living was invited to our college. The team members includes Mr. Saurabh Toche, Mr. Rajas Nikumbh, Er. Advait Rao. Ar. Jatin Jagtap. The session was conducted by visiting individual classroom of all first year divisions.

Volunteers have guided students of first year engineering about the awareness of being positive and controlling our mind through Pranayam and Meditation. In the session they explained about how to change confused mind towards focused mind and the quality of life is depends on set of mind, how to stop worrying and start living life, also explained about various benefits of Pranayam and Meditation. They have conducted live Pranayam and Meditation in the session. Students participated very actively in the session.



Department of Engineering Science
Parent – Teacher Meet (Sem II)
16/03/2024

F.E. Parent - Teachers meet is organized on 16/03/2024. For this meet Dr. S. J. Kokate (HOD Engineering science), All Class coordinators, Mentors and all FE faculty members were present to guide and facilitate all parents.

Parents meet is organized for all first year branches separately at C building FE classrooms during 10 am to 12 noon. Respective branch class coordinator along with mentors has guided all parents about their wards attendance, ENDSEM marks and other queries raised by parents.

Later on Dr. S. J. Kokate (HOD of Engineering science) addressed parents about ongoing academic activities, college level achievements and syllabus coverage in their explanation by visiting all classrooms where parents meet is conducted. College counselor Ms. Rupa Shinde also guided parents about different techniques for the improvement of students performance. Many parents also asked their questions regarding academic and non-academics. Around 150 parents were present for the parent-teacher meet.

The FE Parents meets took place under the guidance of Dr. S. R. Devane (Principal, MVPS KBTCOE), Dr. V. M. Birari (Vice principal) and it is managed by First year engineering students association (AARAMBH) team members.



Department of Engineering Science
3 Days FDP on “Problem and Project Based Learning” by
Dr. Vikas Vitthal Shinde

(Director, PBLCOE, Vishwaniketan iMEET, Khalapur)

13/06/2024

In a bid to enhance teaching-learning methodologies, the Department of Engineering Science at KBTCOE, in collaboration with the Internal Quality Assurance Cell (IQAC), organized a comprehensive workshop titled "Problem and Project-Based Learning: A Comprehensive Workshop." The workshop conducted from June 10th to June 12th, 2024, and drew participation from faculty members across various departments. Dr. Vikas Vitthal Shinde, a distinguished academician currently serving as a Professor in the Mechanical Engineering Department at Vishwaniketan iMEET, Khalapur, affiliated with Mumbai University, spearheaded the workshop as the resource person. Dr. Shinde brings a wealth of expertise, having earned his Ph.D. in Project-Based Learning (PBL) from Aalborg University,

The workshop aimed to equip participants with insights and tools to enhance their teaching practices, particularly focusing on Problem and Project-Based Learning (P2BL), Design Thinking, and Business Model (BM) in the Indian context. The agenda covered a spectrum of topics including P2BL Principles, Biggs Constructive Alignment, ProblemBased Curriculum Design, Learning Outcome Assessment Design (LOAD), among others. Throughout the three-day session, attendees delved into theoretical frameworks and practical applications, culminating in the creation of final model designs and submissions. Interactive sessions, question-and-answer segments, and feedback mechanisms ensured active engagement and knowledge transfer. The initiative reflects KBTCOE's commitment to fostering pedagogical excellence and staying abreast of innovative methodologies in engineering education. With a focus on equipping faculty members with contemporary teaching tools, the workshop heralds a step forward in advancing educational standards within the institution



Department of Engineering Science
Workshop on “School Connect NEP-2020” by
Dr. Bapu Sonu Jagdale

(Principal, LVH Arts Commerce and Science college, Panchvati, Nashik)

15/06/2024

Engineering Science Department in association with SPPU has organized a seminar on “NEP connect 2020” for 12th passed students. For delivering the session Dr. B. S. Jagdale have been invited. Dr. B. S. Jagdale has a PhD in Chemistry, He has published many research papers in national and international research journals. For this program Hon. Adv. Nitin Thakare (Sarchitnis MVP Samaj Nashik), FE HOD Dr. S. J. Kokate and all FE teaching and non teaching staff was present.

Dr. B. S. Jagdale has introduced the Vision of School Connect (NEP Connect) and also then discussed the Chronology of Implementation, Salient features, various objectives, benefits, Academic Bank of Credits, Multiple Entry Multiple Exit, Indian Knowledge System of NEP 2020. Dr. B.S. Jagdale highlighted salient features of NEP 2020, which will bring about revolutionary changes in the conventional Education system. The scheme has to be implemented effectively by organizing various student centric activities & their holistic development. Dr. B.S. Jagdale appealed that the students should be made aware of the positive and beneficial effects of implementation of NEP 2020. The workshop is designed to equip students with a deep understanding of NEP 2020, its foundational pillars, and its practical implications for both school and higher education. By achieving these outcomes, students will be better prepared to navigate the evolving educational landscape and contribute positively to society. Around 250 students and parent were present for the session.

