

## K. J. SOMAIYA INSTITUTE OF TECHNOLOGY, SION, MUMBAI









# DEPARTMENT OF BASIC SCIENCES & HUMANITES BS&H BYTES BIANNUAL NEWSLETTER JULY - DECEMBER 2023

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# Campus Prayer



ॐ पूर्णमदः पूर्णमिदं पूर्णात् पूर्णमृदच्यते । पूर्णस्य पूर्णमादाय पूर्णमेवावशिष्यते ।।१।। ॐ ईशावास्यमिदं सर्वं यत् किं च जगत्यां\_जगत् । तेन त्यक्तेन भुञ्जीथा मा गृधः कस्य स्विद्धनम् ।।२।। मुकं करोति वाचालं पङ्गुं लङ्गयते गिरिम् । यत्कृपा तमहं वन्दे परमानन्द माधवम् ।।३।। ॐ प्रणो देवी सरस्वती वाजेभिवाजिनीवती धीनामवित्र्यवत् । ॐ चोद्यित्री सुनुतानां चेतन्ती सुमतीनाम् । यज्ञम् दधे सरस्वती ।।४।। ॐ असतो मा सद्गमय । तमसो मा ज्योतिर्गमय । मृत्योर्मामृतं गमय ।।५।। ॐ सहनाववत् सहनौ भूनक्त् सहवीर्यं करवावहै। तेजस्विनावधीतमस्त्, मा विद्विषावहै ।।६।। सर्वे त्र सुखिनः सन्तु सर्वे सन्तु निरामयाः । सर्वे भद्राणि पश्यन्तु मा कश्चिद् दुःखमाप्रयात् ।।७।। ॐ शांतिः, शांतिः, शांतिः॥

# Somaiya Vidyavihar Vision

Our Founder, Padma Bhushan Shri. K. J. Somaiya founded Somaiya Vidyavihar on the 9th of September 1959. He later founded the Girivanvasi Pragati Mandal, The K. J. Somaiya Medical Trust, Girivanvasi Education Trust and sister institutions to make great citizens of India and the World. In the words of Swami Vivekananda, "We want that education by which character is formed, strength of mind is increased, the intellect expanded, and by which one can stand on one's own feet." We have now grown into a multi-disciplinary and multi-campus education institution with over 1500 faculty, and 38,000 students.

Our motto is: ज्ञानादेव तु कैवल्यम् । Knowledge alone liberates. Liberates from poverty, from hunger. Also to liberate one from the attachments that bind us to small-mindedness. Knowledge also provides opportunity. To make the life lived more meaningful. In the service of one's family, one's community, one's समाज, country, and indeed the world. Bearing in mind that there is no religion other than the life lived in the service of humanity, न मानुषात् परो धर्मः। We will strive to provide access and opportunity to build a more inclusive society.

Our education in any subject will reflect its timeless fundamentals, its current context, and applications. There is so much scientific discovery taking place, at the intersection of fields, of biology, computing, medicine, the social sciences and everywhere else. We will provide students and faculty with an environment to engage this world, to discover new truths, make new applications to create and share knowledge.

Our education will also be experiential. With projects that are 'real' and those that complement the learning inside the classroom. Our students and faculty will be at the cutting edge of change, to incubate companies, to create NGOs, and pursue any field of their passion.

Our education will also be holistic. Sports and physical exercise must be a firm part of the curriculum. For students to develop a love for sports, for recreation, for health, for teamwork, for competition. Our education will also instill an appreciation for art and culture.

In the Bhagavad Gita, Arjun asks Krishna how is one to control one's mind that is as fleeting as the wind. Krishna responds that it can only be done through practice and discipline. वैराग्येण तु कौन्तेय अभ्यासेन च गृहाते । We will strive to teach our students to learn to stay calm in our turbulent world.

And our education will also include the ancient Indian tradition, its culture, its depth, and its knowledge. We must keep the connection with our mother tongue and our languages. Languages are storehouses of culture, and the loss of a language takes with it much learning, stored through it over the ages.

Finally, our education will help students lead a full life, to fall in love with life.

Our dream, is to build a world class research and teaching institution, that is global in the reach of its ideas, and universal in its service. Welcome to our community.



### Vision

To emerge as a synonym of quality, excellence, and commitment in the field of engineering education by unlocking potential, nurturing talent and transforming young minds to create future-ready engineers.

### Mission

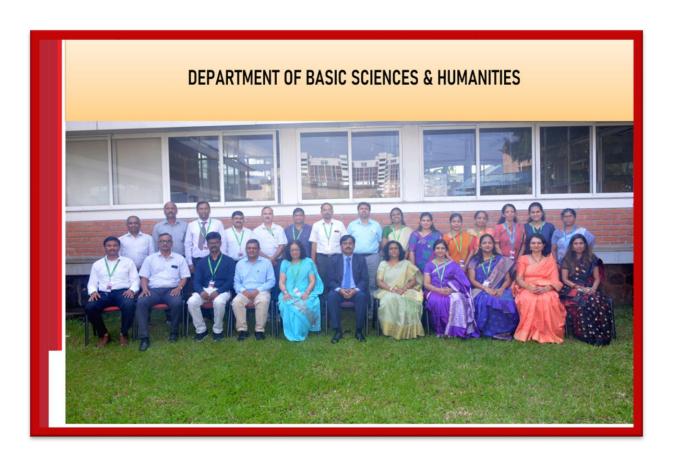
- To provide students with a thorough knowledge of engineering to refine their professional skills.
- To nurture creativity and innovation while encouraging multidisciplinary interaction.
- To train students to be industry ready and capable of working effectively as an individual and in teams.
- To inculcate ethical behaviour, responsibility, and commitment among students.

### Quality Policy

- To conform to the requirements of regulatory authorities viz; All India Council for Technical Education (AICTE), Directorate of Technical Education (DTE) and UoM.
- To maintain transparency and fair practices in admission and recruitment processes.
- To ensure continuous evaluation and examination process.
- To ensure best academic ambience by providing high-end equipments in the laboratories, computers, learning resources and smart classrooms.
- To ensure a safe and secure environment for all stakeholders.
- To promote industry Institute interaction, research and development, placements, technical, co-curricular and extracurricular activities.

# Objectives of the Institute

- To focus on persistent improvement in processes related to teaching, learning, and evaluation and to promote a culture of research and development among staff and students.
- To develop technical and interpersonal skills so that the students translate knowledge into action contributing to the benefit of the society.
- To enhance the learning experience of students by honing versatility through diverse activities.



### Basic Science & Humanities

### Vision

Department of Basic Sciences & Humanities tries to inculcate the knowledge of dynamic combination of science, technology and humanities by nurturing the basic technical skill-sets and honing professional decorum

### **Mission**

- To promote ethical values and social responsibility through novel learning techniques in basic sciences and humanities.
- To improve logical thinking of students for knowing scientific truth, solving problems, and making good decisions.
  - . To develop ethical sensibilities through value based education



The Department of Basic Sciences & Humanities (BS) of KJ Somaiya Institute of Technology, with the Board of Studies Members, as a freshly conferred 'Autonomous' Institute are committed for the all-inclusive careerist goals of at the First-Year students. The autonomous status has accorded the BS department the academic freedom to float its own syllabus and customize it as per the cutting-edge global technical trends. With credit-based scheme, we embark on a fresher vision to be competent with prime focus on 'employment-centric' syllabus with dynamic reformations in the syllabus. The core engineering undergraduate branches encompass—Computer Technology (CE), Information Technology (IT), Artificial Intelligence and Data Science (AI-DS) & Electronics and Telecommunication (ET).

The major shift in the First-Year syllabus has been set on the quality benchmark—a solid foundation on the core fundaments—the pre-requisite engineering holistic skills viz. the Applied Math, Sciences and Humanities curriculum with multiple prospects as per the industry requirements.





### **BS&H SIGNIFICANT ACHIEVEMENTS**

### Orientation Day Organized on 21st August, 2023

K J Somaiya Institute of Technology's (KJSIT) department of Basic Sciences and Humanities (BS&H) organized "Orientation Day" as gesture to welcome the First Year newly admits on 21st August, 2023 (Monday) from 11.00 AM- 4.00 PM in the Institute auditorium. The First Year students as well as their parents were officially greeted by the authorities—Dr. Harsha Mishra—Head of BS&H dept., Dr. Suresh Ukarande, Principal, Dr. Sunita Patil-Vice-Principal amidst the presence of all the HoDs, deans and faculty members. Dr. Raghunath Shevgaonkar—Provost, Somaiya Vidyavihar was the esteemed chief guest for the occasion.

Audience: Approx. 480 F.Y.B.Tech admits in presence of parents/guardians

Venue: Institute auditorium.

### Objectives:

- To officially greet the F.Y. B. Tech students and apprise on crucial conduct of academic curriculum
- To brief the students on the examination, academic parameters as well as rules, regulations of the Institute.

### **Key Points:**

The event commenced with observance of the SVV protocol of illumination of the lamp, campus prayer, and rendition of *Maharashtra Rajya Geet*.

Session I: BS&H—Dr. Harsha Mishra embarked upon the s guidance session that encompassed vital factors of BS&H department. She stressed upon crucial paradigms—evaluation patterns, credit system, SAT courses, NEP 2020 course-additions as freshly supplemented features in the curriculum.

Dr. Vrushali Deole briefly introduced the HoDs, deans and section heads to the audience.

*Dr.Sunita Patil* briefed on various facilities, professional chapters, administrative approaches, disciplinary norms, etc. She provided a succinct overview of the roles and responsibilities the first year students are supposed to execute with professional decorum in the Institute. Principal—

**Dr. Suresh Ukarande** put forward inspiring views and encouraged the newly admits to utilize the campus avenues. The Principal emphasized the fundamental role of students who will adhere to the norms and professional decorum in the campus as a part of futuristic industry-oriented grooming. The Principal highlighted the role of 'Somaiya' as a brand to shape the career roles. The Principal also stressed upon the 9 prerequisites of engineering curriculum to attain holistic growth.

**Dr. Raghunath Shevgaonkar**—Provost, Somaiya Vidyavihar, inspired the young audience by providing paramount tools for career enhancement—application-oriented approach, augmented language & soft skills, imbibed values & focused career objective. In addition, the Provost accentuated on the supremely crucial life-skills—high integrity, adaptability, involvement in job profile, ethical values & efficient time management.

The first session concluded with the national anthem

### Session II:

The post lunch session witnessed presentation by *Dr. Vaishali Ghadyalji*—Controller of examination. The presentation incorporated examination related definitive nomenclatures, credit allotment details, rules, procedures, protocols etc. Additionally, she also highlighted on the autonomous related schemes—majors, minor programs, curriculum related information in addition to the significant parameters within the ambit of exam processes.

Dr. Suresh Ukarande apprised the audience on the evolutionary background of the NEP 2020 that comes into effect from the current session of AY 2023-2024. Since 1986, the educational reforms have been modified with dynamism so as to cater to the broader educational outreach. Commenting it as a 'drastic leap' by the educationists, the new policy will witness chief reforms –multiple entry, multiple exits, specific credit system for each course, flexibility of medium of instruction etc. The principal provided a comprehensive overview of the newly adopted system with its components that will be incorporated into the existing curriculum,

A query session was successfully answered by the Principal. The event came to a close with a 'thank you' note by Dr. Vrushali Deole

### Outcomes:

- The First Year B. Tech students gained vital insights of the protocol, the roles & responsibilities to be abided for the AY 2023-2024 (with effect from 22<sup>nd</sup> August, 2023)
- The learners gained gist exam related parameters, significant in-house activities, the importance of academics for the overall career enhancement.

### Image Glimpses:



















Image Glimpses of the Orientation Day on 21st August, 2023

K J Somaiya Institute of Technology's (KJSIT) –Software Development Cell (SDC) in association with Department of Basic Sciences & Humanities (BS&H) organized an F.Y. B Tech Induction program on "Software Development Cell-Opportunities & Initiatives" from 12.00 -2.00 PM in virtual mode. Dr. Shyamal Virnodkar, Faculty Coordinator, SDC, Prof. Kavita Bathe, Co-coordinator, SDC & Prof Mrunali Desai, Member, SDC were esteemed speakers for the event.

### **Speaker Details:**

- Dr. Shyamal Virnodkar, is Associate Professor, Computer Department, & Faculty Coordinator, SDC, KJSIT
- Prof. Kavitha Bathe is Assistant Professor, Computer Department, & Faculty Cocoordinator, SDC, KJSIT
- Prof. Mrunali Desai is Assistant Professor, Computer Department & Member, SDC, KJSIT

### **Details of Organizers:**

The event was organized by the Department of BS&H. Dr, Vrushali Deole (Dean, Alumni Relations), & Prof. Prahelika Pai (Faculty in BSH Department) coordinated the event. In addition, Mrs. Minal Deshpande (Lab Assistant, BSH Dept) provided technical support for the execution.

**Participants**: F.Y.B.Tech Students **Mode/Venue:** MS Teams Online **Time**: 12.00 AM-2.00 PM

### **Objectives:**

- To discern importance of working on real time projects under SDC
- To recognize role of SDC in honing technical skills
- To understand SDC framework & its activities
- To be cognizant of Internship opportunities available at SDC

### **Key Points:**

**Dr. Shymal Virnodkar,** Prof. Kavita Bathe and Prof. Mrunali Desai delivered a comprehensive informative session on plethora of initiatives of Software Development Cell. The students were made aware of several SDC Consultancy and Institute level projects. The presenters spoke extensively on several real time, social, industries based and institute level projects. This includes Kisan Khazana (Healthy Earthy Wealthy Farmer) Mobile Application., Admission Data Process management application, Examination Process Management Software, Feedback Software and many more. Additionally, the intricacies of applications, websites and softwares were highlighted via live demonstration giving students

a tangible understanding. The hands-on experience allowed attendees to witness the practicality and impact of these initiatives first-hand. Furthermore, the attendees were informed about the internship opportunities as provided by SDC.

Following the presentations and live demonstrations, a lively Q & A session ensued. Providing an opportunity for attendees to seek clarification and delve deeper into the intricacies of the project presented. The session came to a close with a heartfelt vote of thanks

### Outcomes:

- The participants gained significant insight into the wider dimensions of the SDC
- Students gained knowledge on project-based learning through SDC.
- Students were provided with definitive action plan vis-a-vis activity of SDC so as to grab opportunity to work on real time project and learn new technologies with ethical environmental sustainability.

. Feedback link: <a href="https://forms.gle/iUDZpkGTyRCYAte16">https://forms.gle/iUDZpkGTyRCYAte16</a>













Image Glimpses: F.Y. Btech Induction on "Software Development Cell- Opportunities & Initiatives" organized on 9th September, 2023

# F.Y. B Tech Induction on "Society for Data Science" Organized by KJSIT-S4DS on 16<sup>th</sup> September, 2023

K J Somaiya Institute of Technology's (KJSIT) -S4DS KJSIT organized an event on "Society for Data Science" to give insight on the committee and KNOWHOW community" by Prof. Sheetal Jagtap and Student Bhavormi Somaiya, TY AI-DS on 16<sup>th</sup> September, 2023. As an introductory session to S4DS, the cell was established in January 2023 with around 20 official student members and 3 faculty members with the constant support and help received from the Institute's end.

The student body has also established its own Knowhow community which has students from all over the college and the community comprises mainly 8 tech domains namely AIML, DS, web3 & Blockchain, ARVR, App & Web Dev, IOT, Cyber Security and Cloud Native.

### **Speaker Details:**

Prof Sheetal Jagtap is the esteemed Faculty Coordinator of the S4DS Committee, a dedicated professional with a passion for nurturing data science talent. With a wealth of experience and expertise, they play a pivotal role in guiding and shaping the future of aspiring engineers. Their commitment to excellence, innovative teaching methods, and unwavering support make them an invaluable asset to the program, inspiring students and fostering a vibrant learning environment.

Miss Bhavormi Somaiya is the Joint PRO of the S4DS Committee who led the introductory session about the S4DS Committee. Her insightful and engaging presentation illuminated the committee's mission, goals, and the countless opportunities it offers.

### **Details of Organizers:**

The event was organized by Department of B S & H. Dr. Thulasi G Pillai, Research Co-coordinator (Faculty in BSH Dept) coordinated the event. Prof Sheetal Jagtap is the esteemed Faculty Coordinator of the S4DS Committee helped in coordinating the event.

Participants: F.Y.B.Tech Students

Mode/Venue: MS Teams Online/Auditorium, KJSIT

Time: 9.00 AM-11.00 AM

### Objectives:

- Empowering people in the field of Data Science through spread of knowledge and wisdom in an intelligent environment.
- Society for Data Science core purpose is to foster Data Science innovation and excellence for the benefit of humanity.
- S4DS has its mission to connect academia, industry and society in a diverse Data Science and AI ecosystem where collaboration, innovation and engagement are key to the network.
- Innovation is key to S4DS being a nationally and internationally recognized leader in

Data Science and AI.

### **Key Points:**

Key insights on S4DS committee, its working, functioning, mission, vision, aim, benefits and membership. Brief about projects under S4DS and future plans was provided.

Knowhow is a pioneering learning community at K J Somaiya Institute of Technology. At knowhow we aim at imparting resources to learn and explore different technical avenues. The focus of the community is to upskill and thrive in a setting that serves as a tech pool for people to collaborate on projects and challenges. Turn your ideas into deployable products, we got your back.

### **Outcomes:**

- Enhanced Understanding: One of the primary outcomes of the induction program is an improved understanding of the committee's objectives, mission, and activities among its new members.
- Through informative sessions and interactions with senior members, newcomers gain insight into the committee's role in promoting data science education and research. This improved understanding helps align members with the committee's goals and fosters a sense of belonging, ensuring a more effective and motivated team.

There was a question-and-answer session followed by a 'thank you' note by the presenter.

Feedback link: https://forms.gle/XgdPu4k5amGzfNUs7



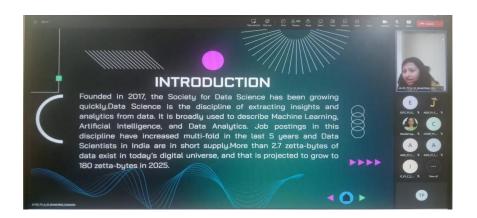


Image Glimpses: Induction on Society for Data Science (S4DS) on 16th September, 2023

# F.Y. B Tech Induction on "CodeAI" –Organized by KJSIT-CodeAI Club on 16th September 2023

K J Somaiya Institute of Technology's (KJSIT) -KJSIT-CodeAI club in association with the Department of Basic Sciences & Humanities (BS&H) organized a session on "Induction program of CodeAI" from 10.00 am to 11.00 am in the online mode. Sahil Deshmukh, Jay Oza, and Krish Doshi, students from Last Year Computer Department were the presenters and speakers during the session. In addition, Prof. Pradnya Patil and Prof. Aarti Sahitya, the faculty convenors of CodeAI were also present during the session.

All three speakers and presenters are from Last Year Computer Science Department and founders of the CodeAI club. They are ML experts and have conducted multiple sessions in the domains of Artificial Intelligence and Machine Learning. They created the CodeAI club with the sole motive of raising awareness about AI among the students of K.J. Somaiya Institute of Technology. Along with that, they are also the founders of an AI community working all across Mumbai in different colleges. They are student Ambassadors for Microsoft Azure as well.

### **Details of Organizers:**

The event was organized by Department of B S & H. Dr. Thulasi G Pillai, Research Cocordinator (Faculty in BSH Dept) coordinated the event. Prof. Pradnya Patil and Prof. Aarti Sahitya, the faculty convenors of CodeAI helped in Coordinating the event.

Participants: F.Y.B.Tech Students

Mode/Venue: MS Teams Online

**Time**: 10.00 AM-11.00 AM

### **Objectives:**

- Ensure that new members have a clear understanding of what CodeAI is, its mission, and its role within the larger community.
- Provide an overview of the club's regular activities, including meetings, workshops, events, and community outreach initiatives.

The CodeAI club founders initiated the session by providing a comprehensive introduction to the field of Artificial Intelligence (AI) and shed light on the current booming trends in the industry. They passionately articulated the club's mission and purpose, delving into the motivating factors behind its establishment. Furthermore, they meticulously outlined the club's objectives and the tangible benefits that students could derive from becoming part of the CodeAI community.

Equally important, the founders elucidated a roadmap for students to kickstart their careers in AI and elucidated how CodeAI would serve as a guiding beacon along this path. Attendees

gained insights into the diverse array of activities hosted by CodeAI and were presented with a tantalizing glimpse of the club's upcoming plans and initiatives.

A particular focus was dedicated to the "Coconut Tree Project," a flagship endeavor spearheaded by CodeAI, with attendees receiving a detailed exposition of its objectives and impact. Concluding the session, the attendees were introduced to the CodeAI team and its core members, fostering a sense of connection and familiarity. The founders also elucidated the club's plans and activities designed to support new members and first-year students, wrapping up the session with a clear vision of how CodeAI aims to execute its mission.

The subsequent query session served as a valuable platform for strategic guidance and mentoring, channeling the energy and potential of the youth towards contributing to the attainment of national goals, aligning perfectly with CodeAI's mission.

### Outcomes:

- New members should leave the induction program with a clear understanding of CodeAI's purpose, values, and structure.
- Equip new members with knowledge of available resources and opportunities for personal and professional development in the field of AI and coding.

There was a question-and-answer session and a 'thank you' note by the presenter.

Feedback link: https://forms.gle/tNuGVVmcwgPyshgB6







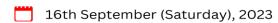
### **Department of Computer Engineering**

### **CodeAI Club Induction Programme**

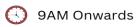
- CodeAl A community working for the development of Al
- CodeAl aims to create awareness and build foundational concepts about Al and ML. Our focus includes Deep Learning, Feature Engineering, Computer Vision, Neural Networks, Big Data, and Data Scraping. We organize Kaggle competitions to engage members and promote learning.

Number of Students Enrolled: 80 Number of activities conducted in 2022-23: 6





♥ codeAi



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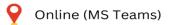






Image Glimpses: Session on "Induction program of CodeAI" on 16th September, 2023

K J Somaiya Institute of Technology's (KJSIT) - KJSIT-ROBOCON committee in association with Department of Basic Sciences & Humanities (BS&H) organized an orientation program on 30<sup>th</sup> September, 2023 from 10.30 am-1.15 PM in online mode. Prof. Prashant Upadahyay was the resource person for the event. He is an experienced and dynamic faculty in the department of Electronics and Telecommunication. As coordinator, he has more than ten years' experience in mentoring and training the students in Robocon.

### **Speaker Details:**

Under the guidance of Prof. Prashant Upadahyay, K J Somaiya Institute of Technology received 3<sup>rd</sup>, 5<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 12<sup>th</sup> all India ranking in Asia pacific Broadcasting Union (ABU), National Robotics Contest (Robocon) for the year 2020, 2019, 2018, 2017 and 2015 respectively. Under e-Yantra more than 1500 students are trained in the field of embedded system and robotics since 2016.

### **Details of Organizers:**

The event was organized by the Department of BS&H. Dr. Rajesh K. Meshram (Faculty in BSH Dept.) assisted in the execution of the event.

Participants: F.Y.B.Tech Students

Mode/Venue: MS Teams Online/Auditorium, KJSIT

**Time**: 10.30 AM-1.15 PM

### **Objectives:**

- 1. To acquaint undergraduates about Robotics and research opportunities
- 2. To provide exposure in developing robots from scratch in an interdisciplinary team of students.

### **Key Points:**

Prof. Prashant Upadahyay vivaciously interacted with the young audience. As a versatile enthusiast in many traits, he shared his knowledge and wisdom to inspire the youth in developing technical skills. He started the presentation with the meaning of robots, classification and showing the images of different types of robot to inculcate the meaning of robots. He explained the internal and external components required in the making of robots. An example of Bot was given to explain the sensors, actuators and software working with an example.

He explained the expertise requirement from interdisciplinary engineer's team to make a robot. Demonstrated the Arduino board simple connections working through <u>wokwi.com</u>.

### **Outcomes:**

- Students are acquainted with the Robotics and the components requirement.
- Students developed understanding of the simple connection working on the Arduino board through simulation software.

There was a question-and-answer session followed by a 'thank you' note by the presenter.

### Feedback link: https://forms.gle/bG7FuVZD2HDxHwuG6







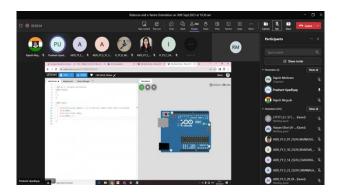




Image Glimpses: Induction program on "Robocon "on 30th September, 2023

K J Somaiya Institute of Technology's (KJSIT) - KJSIT- E-YANTRA committee in association with Department of Basic Sciences & Humanities (BS&H) organized an orientation program on 30<sup>th</sup> September, 2023 from 10.30 am-1.15 PM in online mode. Prof. Prashant Upadahyay was the resource person for the event. He is an experienced and dynamic faculty in the department of Electronics and Telecommunication. As coordinator, he has more than ten years' experience in mentoring and training the students in Robocon.

### **Speaker Details:**

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### **Details of Organizers:**

The event was organized by the Department of BS&H. Dr. Rajesh K. Meshram (Faculty in BSH Dept.) assisted in the execution of the event.

Participants: F.Y.B.Tech Students

Mode/Venue: MS Teams Online/Auditorium, KJSIT

**Time**: 10.30 AM-1.15 PM

### **Objectives:**

- 1. To acquaint undergraduates about E-yantra and its research opportunities
- 2. To provide exposure in E-yantra in an interdisciplinary team of students.

### **Key Points:**

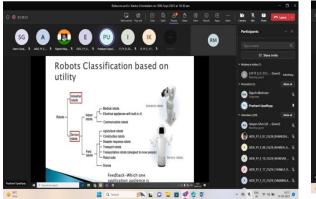
Prof. Prashant Upadahyay vivaciously interacted with the young audience. As a versatile enthusiast in many traits, he shared his knowledge and wisdom to inspire the youth in developing technical skills. He started the presentation with the meaning of E-yantra laboratories. He explained the strategic importance of the usage of the labs for research purposes.

### **Outcomes:**

- Students are acquainted with the E-yantra as the interdisciplinary innovative venture.
- Students developed understanding on the diversified usage of E-Yantra.

There was a question-and-answer session followed by a 'thank you' note by the presenter.

### Feedback link: https://forms.gle/bG7FuVZD2HDxHwuG6







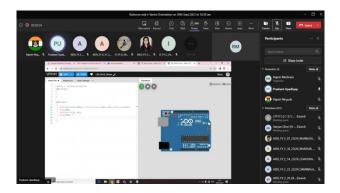


Image Glimpses: Induction program on "E-Yantra Orientation "on 30th September, 2023

K J Somaiya Institute of Technology's (KJSIT) - Department of Basic Sciences Humanities (BS&H) organized 'Proctor-Student Meet' −1<sup>st</sup> meeting, in the month of October, 2023. As a part of the Student Induction Program, the mentor engages with the new students as soon as they come into the institution; and the incumbents learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Then the different activities start, including those which are daily.

**Mentoring** takes place in the context and setting of Universal Human Values. It gets the student to explore oneself and experience the joy of learning, prepares one to stand up to peer pressure and take decisions with courage, be aware of relationships and be sensitive to others, understand the role of money in life and experience the feeling of prosperity. Need for character building has been underlined by many thinkers, universal human values provide the base. Mentoring with proactive interaction has facilitated guidance and giving exposure, guiding thoughts, and realizing values among the students.

As a specimen, the following are the minutes of the meeting of Students of First Year E 2 (E 23- E 44) Batch for the AY 2023-2024 held on 3<sup>rd</sup> October, 2023 at 2.40 PM in Room No 802. The following points were discussed:

- 1. There was a self-introduction round of mentors, mentees at the onset
- 2. Dr. Vrushali guided students briefly on core areas of computer department
- 3. She interacted on the highlights of department and college
- 4. Dr. Vrushali apprised on the importance of participation in co-curriculars—the technical festival Renaissance, significance of research, NPTEL online learning, Coursera etc to enhance career prospects.
- 5. Dr. Vrushali also emphasized on the importance of certifications to augment career prospects
- 6. Attendance issue was also discussed. It was recommended to increase the attendance percentage.
- 7. There was an informal interaction between the proctor & the mentor.







Event Glimpses: F.Y. B Tech Induction on "Proctor-Student Meet' in October 2023

### Seminar on "Personality Development and Menstrual Hygiene" on 18th October, 2023

K J Somaiya Institute of Technology's (KJSIT) Department of Basic Sciences and Humanities, College Women Development Cell (CWDC) and Vishakha Cell organized a seminar on "*Personality Development and Menstrual Hygiene*" on 18<sup>th</sup> October, 2023 from 3.00 PM - 4.00 PM. The program was an initiative of M/S Proctor & Gamble & Ms. Avani Somaiya was the guest speaker for the seminar.

The occasion was graced by Dr. Harsha Mishra (Chairperson of Vishakha Cell), Mrs. Gauri Gothivrekar (Secretary, Vishakha Cell) & presence of female faculty, staff & girl-students graced the occasion.

**Participants: 100 female** students & faculty/ staff members

Venue: Auditorium

### Objectives:

- The create awareness about menstrual hygiene
- To help for Individual confidence building
- To guide the students for Interview preparation

**Details of Speaker:** Ms. Avani Somaiya holds 5 years of work experience as she has worked at Chemical Industries including at Cheryl laboratories for 1+ year. Her education is in M.Sc in Nutraceuticals, B.Sc in Chemistry. **Email**: somaiyaavani4@gmail.com and Contact: 9594652395

### Key Points:

The presenter—Ms. Avani Somaiya interaction focused on crucial issues involved in female hygiene, confidence building & suggestions to overcome the stressful situations. Vital points covered, awareness on menstruation cycle, menstrual hygiene, tips about periods, different products available in market, tips for becoming successful during interviews.

### Outcomes:

- The event generated significant awareness about menstrual hygiene
- It enabled the female students strategies of confidence enhancement and techniques to crack interviews











Seminar on Personality Development and Menstrual Hygiene on 18th October, 2023

Parent Teacher Meet on 21st October, 2023 Organized by BS&H Department

K. J. Somaiya Institute of Technology's (KJSIT)- Department of Basic Sciences and

Humanities (BS&H) organized the Parent-Teacher Meet (PTM) on 21st October, 2023

(Saturday) at 10.00 AM -11.00 AM. The BS&H Head, Dr. Harsha Mishra conducted an

interactive session to discuss the academic and allied topics with regards to the first-year

academic session.

As a part of Induction Program, the PTM serves to fulfil the 'Familiarization with College,

Department/Branch' objectives as the incoming students are guided about the credit and

grading system, and about the examinations. They are informed about how study in college

differs from study in school. They are guided on the tour of the college and shown important

points such as library, canteen, and other facilities with significant holistic approaches.

*Participants*: 280 parents/guardians of the first-year students.

Venue: Online Mode (zoom)

Objectives:

To discuss on the issue of attendance and compliance of academic rules

> To apprise parents about the crucial aspects of academics & co-curricular to the

parents & guardians of the first-year students.

> To provide a brief review on the SIMS demonstration with assistance of Dr. Harsh

Bhor (Faculty, IT Dept.).

Points Discussed by Dr. Harsha Mishra

1. An overview of attendance regulations & criteria as per the 'autonomous' rules.

2. First Year, Semester II Timeline: Including the internal term test, exam conduction,

submission, last instructional day etc

3. Demonstration and queries related to the 'Students Information Management System"

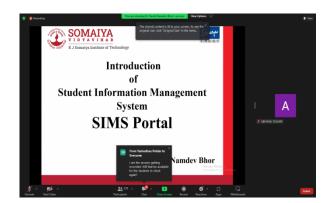
(SIMS) software was resolved by Dr. Harsh Bhor (Faculty, IT Department)

4. Addressed query session of the parents especially—placements scenario

Feedback Link: https://forms.gle/8dgaeZqE466NiFFT6







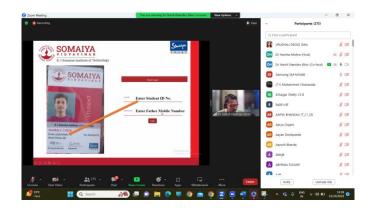


Image Glimpses: Parent Teacher Meet on 21st October, 2023 Organized by BS&H Department

# Expert Talk on "Green club certification and Introduction to Department of Lifelong Learning and Extension, University of Mumbai on 28th Oct (Saturday), 2023

K J Somaiya Institute of Technology's (KJSIT) Department of Basic Sciences & Humanities (BS&H) organized webinar on "Green club certification and Introduction to Department of Lifelong Learning and Extension, University of Mumbai" by Dr. Sandhya Kadam on 28th Oct (Saturday), 2023.

### **Speaker Details:**

### Dr. Sandhya D. Kadam

She has done her Ph.D. in Electronics and Communication Engineering in the year 2019. She has worked as Cultural Coordinator, Green Club Coordinator and DLLE (Department of Lifelong Learning and Extension, University of Mumbai), Extension teacher at KJSIEIT, Sion Mumbai-22. She has published more than twenty papers at International/ National conferences/ journals and has complete patent publication on Cluster-based Big Data Storage. She is a life member of ISTE, MIET and has worked as member of professional body, IEI (Institution of Engineers).

### **Details of Organizers:**

The event was organized by the Department of BS&H. Prof. Jitendra Shelar (Faculty in BSH Dept), Prof. Kirtikumar Patel (Faculty in BSH Dept), Ms. Chaitali Purao (Technical assistant) & Mr. Anil Mirgal (Technical assistant)

Mode/Venue: MS Teams Online, KJSIT

**Time**: 10.00 AM-2.00 PM

### Objectives:

- To develop a sense of social responsibility and prepare students for greater social commitments.
- To enhance employability skills as personality development, team building, presentation skills, writing abilities, time management skills, organizing skills, entrepreneurship and leadership skills of the students.

### Key Points:

**Dr. Sandhya Kadam** interacted with the young audience. She explained how green club strives to develop love for nature and to instill awareness of the environment to the college community. The activities like tree plantation, cleanliness drives both within and outside the college campus were highlighted. Students were empowered to participate and take up meaningful environmental activities and projects. Dr Kadam then highlighted about the importance of DLLE (Department of Lifelong Learning and Extension, University of Mumbai) she explained how lifelong learning is the "ongoing, voluntary, and self-motivated" pursuit of knowledge for either personal or professional reasons. She emphasized its importance of it

from individual's competitiveness and employability point of view.

The query session was in the form strategic guidance and in the direction of mentoring the students with contributory parameters for attainment of national goals

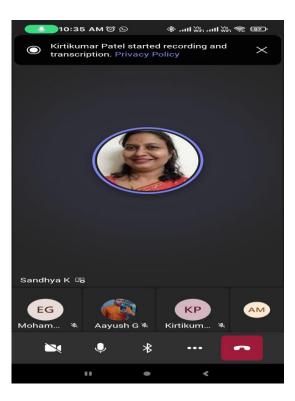
### **Outcomes:**

- The expert talk resulted in an increased awareness of the roles and responsibilities of today's youth as nation builders
- Enhanced awareness on the deployment of projects that are for the betterment of the society at large

There was a question-and-answer session followed by a 'thank you' note by the presenter.

Feedback link: https://forms.gle/va7ZshKpfayYj4eV7





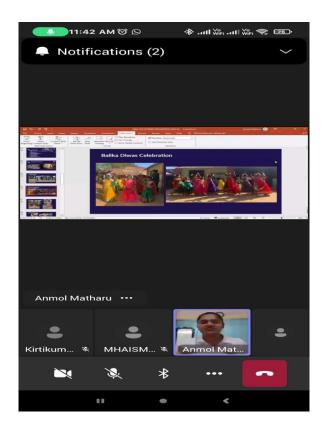


Image Glimpses: Expert Talk on "Green club certification and Introduction to Department of Lifelong Learning and Extension, University of Mumbai on 28th Oct (Saturday), 2023

# F.Y. B. Tech Induction of "KJSIT-NSS Unit —Roles & Functions" on 28th October (Saturday), 2023

K J Somaiya Institute of Technology's (KJSIT) Department of Basic Sciences & Humanities (BS&H) organized an event on "KJSIT-NSS Unit —Roles & Functions" on 28th October (Saturday), 2023. Ms. Anmol Matharu of T.Y.B. Tech under the guidance of Prof. Pankaj Deshmukh—NSS Program Officer & student team—was the resource speaker for the event.

### **Speaker Details**:

### Ms. Anmol Matharu

She is currently studying in 3rd year. Been a volunteer at NSS unit since she was in the second year. Completed the first year of her NSS tenure with 140+ hours.

As an NSS volunteer and the Chairperson of NSS of 2023-24 she has dedicated her time and efforts to serving our community. Through the team's collective work, the team has initiated and participated in numerous social and community service projects that have made a positive impact on the lives around us. Her role as chairperson has involved leadership, organization, and inspiring fellow volunteers to engage in various activities, including education, healthcare, and environmental initiatives.

### **Details of Organizers:**

The event was organized by the Department of BS&H. Prof. Jitendra Shelar (Faculty in BSH Dept), Prof. Kirtikumar Patel (Faculty in BSH Dept), Ms. Chaitali Purao (Technical assistant) & Mr. Anil Mirgal (Technical assistant)

Mode/Venue: MS Teams Online, KJSIT

**Time**: 10.00 AM-2.00 PM

**Participants**: F.Y. B. Tech Students

Venue/Mode: Online: MS Teams

### Objectives:

- 1. To brief students on the vital role of National Service Scheme (NSS) on the social initiatives undertaken at various levels
- 2. To promote awareness on NSS endeavors for societal purposes—blood donations, cleanliness drives, tribal upliftment initiatives etc

### Key Points:

The KJSIT-NSS unit organized an awareness session on the crucial role of NSS as a social unit with various social initiatives. **Ms. Anmol Matharu** & student team stressed on the significant role of engaging the youth in social initiatives. Highlighting the societal initiatives undertaken by NSS unit-- blood donations, cleanliness drives, pet adoption, tribal upliftment initiatives, women empowerment, medical camps to name a few. The event created a

motivational ambience as the first-year students realized the important part they can play to make the society a better community to live in.

Ms Anmol Matharu shared her journey as a student from first year to third year through NSS (National Sector Scheme). She mentioned it as a central sector scheme of government of India, ministry of youth affair and sports. She added how NSS helps the students to grow individually and also as a group. Also, she emphasized on, how volunteering for various tasks under NSS activities allows students to become confident, develop leadership skills, and learn about different people from different walk of life.

### **Outcomes:**

- The event motivated the first-year student to partake in the social missions & role of imbibing social moral-ethical values
- The role of NSS as a contributory factor for the betterment of community

There was a question-and-answer session followed by a 'thank you' note by the presenter

K J Somaiya Institute of Technology's (KJSIT) Department of Basic Sciences & Humanities (BS&H), organized an expert talk on "Training and Placement" from 11.00 am-12.00 noon on MS TEAM. Prof. Ghanashyam Phadke, placement officer KJSIT, has been invited as a resource speaker for educating F.Y.B. Tech students about future planning.

### **Speaker Details:**

**Prof. Ghanashyam Phadke** is a motivated academician with a strong desire to see students succeed. He has been a vital member of the KJSIT team since 2001, working tirelessly to nurture and guide the next generation of leaders. Prof. Phadke holds a bachelor's degree in electrical engineering from SPCE, a diploma from VJTI, and a master's degree in electronics engineering from the University of Mumbai. He also possesses a post-graduate diploma in financial management from NMIMS, as well as various certificate courses and training programs.

Prof. Phadke has taught electrical and electronic engineering, as well as management-related disciplines. As the institute's placement officer since 2008, he has developed creative initiatives such as a dedicated T&P lecture slot in the timetable, mock placements, and more to assure students' employability. He works hard to expand his network of contacts in business and academia, and he has successfully organized a business Institute Interaction meet and various skill development workshops.

### **Details of Organizers:**

The event was organized by the Department of BS&H. Prof. Ghanashyam Phadke (Faculty in AI-DS Dept), Dr. Rekha Rajput (Faculty in BSH Dept) & Mrs. Chaitali Purao (Lab assistant-BSH Dept) assisted in the execution of the event.

**Participants**: F.Y.B.Tech Students **Mode/Venue:** MS Teams Online, KJSIT

**Time**: 11.00 am -1.00 pm

### **Objectives:**

- To provide Training & Placement process awareness to first year students.
- To impart career guidance regarding opportunities that arises after graduation. i.e., further education, employment, or entrepreneurship.

### **Key Points:**

Prof. Ghanashyam Phadke talked enthusiastically with the F. Y. B. Tech students. He discussed how placement and training cell helps students to shape their career aspirations. This includes assisting students in developing the market relevant technical and soft skills.

Furthermore, to be established in an industry and lay foundation for strong professional background, he advised learners to have backup plans ready alongside primary goal. Prof. Ghanashyam Phadke also gave an overview about the varied organizations that visit KJSIT for internship and campus placement.

### **Outcomes:**

- The expert talk resulted in an increased awareness of the Training and Placement Cell.
- Students were encouraged to improve their technical knowledge as well as their soft skills in terms of career planning and goal setting.

There was a lively question-and-answer session followed by a vote of thanks.

### Feedback link:

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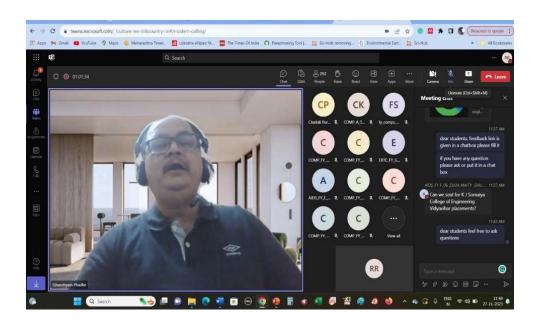


Image Glimpses: Expert Talk on "Training and Placement" on 27th November, 2023

# F.Y. B Tech Induction on "IEEE & WIE" organized by Basic Sciences and Humanities Department on 2nd December, 2023

K J Somaiya Institute of Technology's (KJSIT) – IEEE & WIE in association with Department of Basic Sciences & Humanities (BS&H) organized an F.Y. B Tech Induction program on "IEEE- Its Importance for Engineering Students and the Role of Women Engineers" from 9:30-10:30 a.m.- in virtual mode. The session was organized under the guidance of Convener Prof. Sandeep Mishra, Faculty, Dept Of EXTC, KJSIT and Prof. Ms. Pranali Hatode (Faculty, KJSIT) presented the event.

### Speaker Details:

IEEE committee members were involved in delivery and execution of the event. The names are as followed:

- Master Kevin M, IEEE Representative
- Master Saraswat Sapkal, IEEE Representative
- Miss Arya Chandanshive, IEEE Representative

The committee was guided by the Convener Prof. Sandeep Mishra, (Faculty, Department of EXTC) and Prof. Mrs. Pranali Hatode (Faculty, Department of EXTC) who highlighted the importance and role of women in Engineering.

### **Details of Organizers:**

The event was organized by the Department of BS&H. Prof. Rama Kulkarni (Faculty in BSH Department) coordinated the event. In addition, Mrs. Minal Deshpande (Lab Assistant, BSH Dept) who provided technical support for the execution.

Participants: F.Y.B. Tech Students

Mode/Venue: MS Teams Online

Time: 09:30 AM-10:30 AM

### Objectives:

- To acclimatize learners about the university-based community group IEEE & WIE that provides plethora of opportunities in honing developers' skillsets
- To emphasize on the crucial paradigms of work and participation in the IEEE & WIE and its learning techniques

### **Key Points:**

Master Kevin M and Miss Arya Chandanshive, provided a detailed overview of the vital role of IEEE & its peer-to-peer learning environment. They highlighted the pivotal role of IEEE and its existence in our college, and that it provides networking opportunities and a

platform to build skill sets that will create avenues of growth in the lives of students. They presented the mission, vision and futuristic scope of IEEE.

The event was taken over by the GDSC student-team who provided a brief overview of the functioning and roles of GDSC as a global organization.

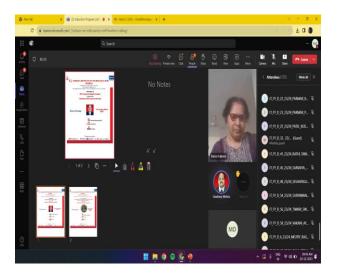
Following the presentation, a lively Q & A session ensued. Providing an opportunity for attendees to seek clarification and delve deeper into the intricacies of the project presented. The session came to a close with a heartfelt vote of thanks.

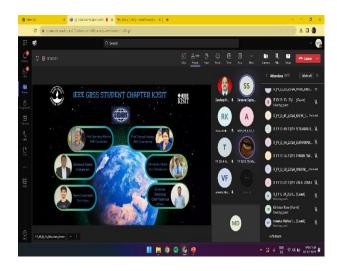
### **Outcomes:**

- The Induction session provided a definitive guideline on the crucial component of IEEE and WIE as a tool for modern engineers
- The futuristic scope of IEEE and its sister branch WIE, with activities turned out to be motivational one

### Feedbacklink:

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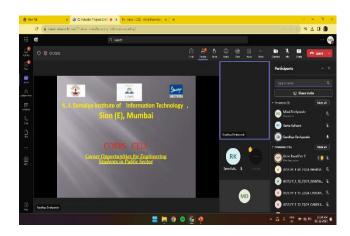


Image Glimpses: F.Y. B.Tech Induction on "IEEE & WIE" organized on 2nd December, 2023

K J Somaiya Institute of Technology's (KJSIT) - Department of Basic Sciences Humanities (BS&H) organized 'Proctor-Student Meet' -2<sup>nd</sup> meeting, in the week of 11<sup>th</sup>-15<sup>th</sup> December, 2023. As a part of the Student Induction Program, the mentor engages with the new students as soon as they come into the institution; and the incumbents learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Then the different activities start, including those which are daily.

**Mentoring** takes place in the context and setting of Universal Human Values. It gets the student to explore oneself and experience the joy of learning, prepares one to stand up to peer pressure and take decisions with courage, be aware of relationships and be sensitive to others, understand the role of money in life and experience the feeling of prosperity. Need for character building has been underlined by many thinkers, universal human values provide the base. Mentoring with proactive interaction has facilitated guidance and giving exposure, guiding thoughts, and realizing values among the students.

*As a specimen*, the following are the minutes of the meeting of Students of First Year E 2 (E 23- E 44) Batch for the AY 2023-2024 held on *12<sup>th</sup> December*, *2023* at 3.00 PM in Room No 802. The following points were discussed:

- 1. It was discussed that all the students must maintain a mandatory attendance of 75%
- 2. There was a discussion on Students academic performance in Term Test-I and II.
- 3. Dr. Vrushali instructed on the schedule of End Semester Exam. (ESE) from 22<sup>nd</sup> Dec, 2023 to 2<sup>nd</sup> January, 2024. Also motivate/guide on academic studies for ESE.
- 4. The students were instructed to follow strictly the deadline of submission of assignments, tutorials and practical's/experiments.
- 5. Dr. Vrushali stressed upon discipline and sincerity in induction events/seminars.
- 6. It was instructed to submit certificates on SIMS portal.
- 7. There was a discussion on their health issues / Medical problem (if any).
- 8. Suggestions and feedback/comments of Students (If any).
- 9. The students were warned not to indulge in malpractice during the end semester exam





Image Glimpses: As a part of Induction Program, proctor meeting II conducted on 12<sup>th</sup> December, 2023

# F.Y. B Tech Induction on Credit based SAT-III "Universal Human Values" during 21st August-December 2023

K J Somaiya Institute of Technology's Department of Basic Sciences & Humanities organized the First Year Online Induction Training on SAT-III 'Induction Program" of 50 marks, 2 credits under the umbrella of "Universal Human Values" from 21st August, 2023 to 10th December, 2023. Dr. Vaishali K Ghadyalji & Dr. Vrushali Deole, Dr. Anita Padhye, Ms. Prahelika Pai, and Mrs. Rama Kulkarni —BS&H Faculties were In-charges of the varied activities.

Participants: FY. B. Tech students

Objectives:

- The case studies were curated to impart the —Universal Human Values—to get the student to explore oneself and experience the joy of learning, to prepare one to stand up to peer pressure and take decisions with courage as well as be aware of relationships and be sensitive to others.
- The cases studies encompassed the ethical role in life and experience the value-based system in life.

### **Key Points:**

The varied activities vviz-- (a) Debates, (b) Group Discussions, (c) Panel Discussion & (d) Presentations (e) case studies—these diverse activities emphasized on endeavor to build a moralistic character with fundamental universal human values that aims to provide the base in technical education. The feedback mechanism from the faculty ensured that the students were encouraged to explore researches and present themselves in a meaningful dialogue. With relevant guidance, the students were assigned 14 varied present day case studies and were expected to follow a systematic research-based approach. The relevant research-based topics with a scientific methodology and referencing made them aware of the contemporary issues with ethical solutions.

For learners, it was a pre-requisite to apprise on problems at the national, global, societal and environmental levels as well as identification of allied problems in form of survey & amp; case studies-based approach was a crucial parameter for its execution. The learners gained an enhanced understating on the varied areas of problems by adopting basic research tools. By applying dynamic approaches viz surveys and case studies, the group proposed productive solutions. The course had to be curated methodically by providing 'real-time' problems. The challenge was to incorporate an innovative—survey and case-study-based structured approach with frugal research knowledge of learners at a fresher level. It resulted in creation of structured content with diversified survey topics and unique case studies. The real time problems offered ethical as well as technologically driven paradigms with value addition to the curriculum.

### Outcomes:

- The final outcome was documented in a submission and presentation of the project work that enhanced a professional experience.
- The unique approach of surveys & studies with structured parameters equipped the learners to gain an in-depth analysis towards complex problems to carry out the activity.
- By addressing social, ethical, environmental and legal issues, the learners attempted to suggest sustainable solutions with a feasible outcome.









Image Glimpses: F.Y. B Tech Induction Program' summative part of Credit based SAT-III "Universal Human Values" during 21st August-December 2023

