



PUNE INSTITUTE OF COMPUTER TECHNOLOGY

CE NEWSLETTER ISSUE JULY-DEC '22



DEPARTMENT OF COMPUTER ENGINEERING

TABLE OF CONTENTS

Training & Placements

Internships

Activities Conducted

Staff Achievements

Student Achievements

Alumni Interaction & Visit

EDITORIAL TEAM

- 1) Prof. K Gangrade
- 2) Apurwa Kanitkar
- 3) Manav Parmar
- 4) B Shrinidhi
- 5) Nilay Tayade



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ABOUT CE DEPARTMENT

THE DEPARTMENT OF COMPUTER ENGINEERING WAS ESTABLISHED IN 1983 WITH THE INTENT TO PROVIDE QUALITY EDUCATION TO THE YOUNG ASPIRANTS. THE CURRENT STUDENT INTAKE FOR THE UG PROGRAM IS 240. THE PG PROGRAM WAS STARTED IN 2000 WITH A STUDENT INTAKE OF 25 AND IN ADDITION DATA SCIENCE PG PROGRAM WITH AN INTAKE OF 24 FROM 2020. THE DEPARTMENT HAS A PH.D. RESEARCH CENTER AFFILIATED TO SPPU SINCE 2012. OUR STUDENTS GRAB PLACEMENT OPPORTUNITIES IN TOP MNC'S. CURRENT AVERAGE PACKAGE IS OF 12 LPA WITH THE HIGHEST PACKAGE OF 112 LPA. STUDENTS ARE GETTING INTERNSHIPS IN LEADING COMPANIES WITH PRE-PLACEMENT OFFERS. OUR STUDENTS ARE PURSUING HIGHER EDUCATION IN PREMIER UNIVERSITIES (INDIAN AS WELL AS FOREIGN). STUDENTS ARE PARTICIPATING IN AND WINNING VARIOUS NATIONAL AND INTERNATIONAL LEVEL COMPETITIONS, HACKATHONS ETC. DEPARTMENT OFFERS VARIOUS CERTIFICATE AND PROFESSIONAL COURSES IN THRUST AREAS ALIGNED TO COMPUTER ENGINEERING. UST AREAS ALIGNED TO COMPUTER ENGINEERING.

MESSAGE FROM DEPARTMENT CHAIR

" I am delighted to present newsletter a collection of amazing contributions from the faculties and students of computer engineering department. I feel it is a chance to thank all the contributors who directly or indirectly helped in the publication. "

MESSAGE FROM EDITOR'S DESK

" Presenting to the readers and making the work of faculties and students reflect in the newsletter was really a wonderful task and on behalf of our team we present to you this wonderful ride of talent, achievements and joy "

OUR VISION

Achieve academic excellence by imparting education in computing and research to create intellectual professionals and explore global opportunities.

OUR MISSION

To impart learning by educating students with conceptual knowledge, hands-on practices using Free and Open-Source Software and tools, competency skills, social awareness, thereby igniting young minds for innovative thinking, professional expertise, and multidisciplinary research.

01

TRAINING & PLACEMENTS



KIRTI PALVE



33.14 LPA



AJINKYA KHAROSEKAR



VED PATWARDHAN



ATHARVA PURANIK



SHUBHAM MORE

ARISTA

28 LPA

"PICT HAS HAD A TERRIFIC YEAR WITH A STAGGERING 245 STUDENTS PLACED (AS ON 23RD DECEMBER 2022) WITH AN AVERAGE SALARY OF 13.42 LPA."

02 INTERNSHIPS



Adobe has provided an internship to a student with a stipend of rupees 1 lakh Ms. Rajlaxmi Patil.

8 students were given internship offers under CDIO Summer internship (UBS) with a stipend of 40000



UBS



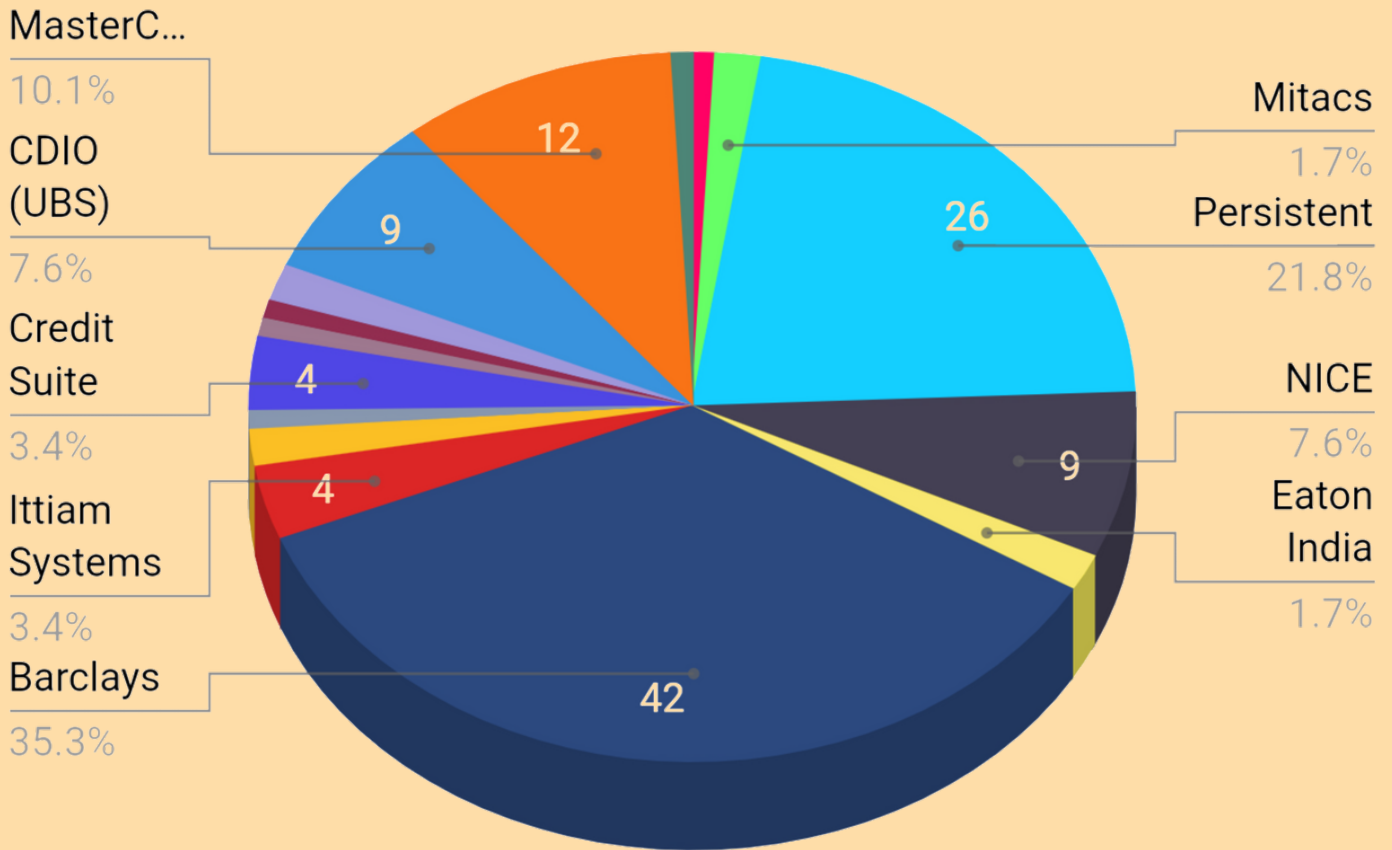
Barclays has provided internships to 38 students with stipend extending up to rupees 75000

Mastercard has provided internships to 11 students with stipend extending up to 40000



"OVER 120 INTERNSHIP OFFERS HAVE BEEN PROVIDED TO STUDENTS BY VARIOUS REPUTED COMPANIES."

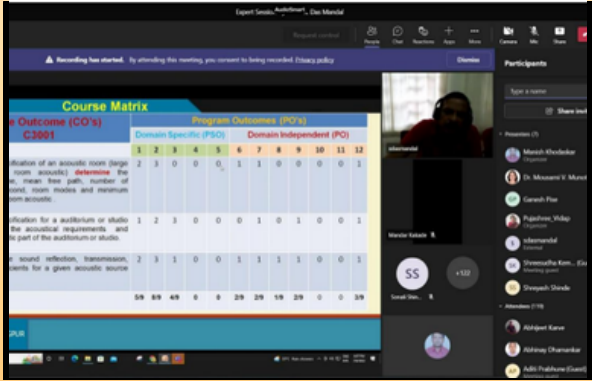
INTERNSHIP OFFERS



FOR COMPLETE STATISTICS PLEASE SCAN THIS

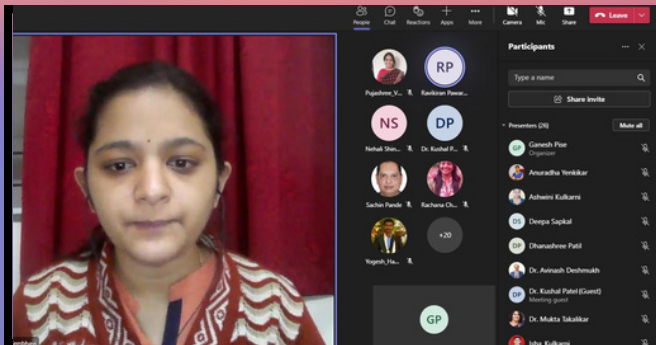
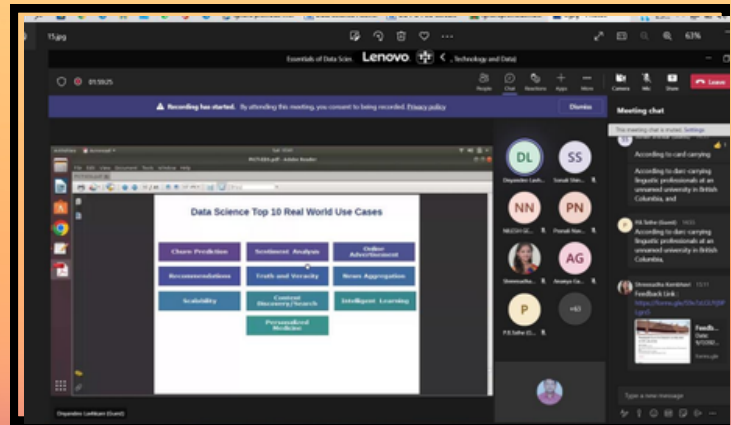
03

ACTIVITIES CONDUCTED



A seminar on 'Course objectives, course outcomes, articulating matrix and evaluating attainment of COs, POs and PSOs' was conducted by Dr Shyamal Kumar Das Mandal (Ph.D) on 8th July with 127 participants and was coordinated by Prof. P. S. Vidap.

A seminar on 'Essentials of data science in industry : rethinking business, technology and data' was conducted by Mr. D. S. Lavkare (Sr. Software Developer, C-Edge) on 9th July 2022 with 90 participants and was coordinated by Prof. P. S. Vidap.



A seminar on 'Patenting: How to start' was conducted by Dr. Kushal Patel (Ph.D, IBM master inventor, Test lead) on 13th July with 84 participants and was coordinated by Prof. P. S. Vidap.

A seminar on 'Scientific Paper writing' was conducted by Dr. R Venkateswaran (Senior Vice President, Persistent systems) on 7th July with 94 participants and was coordinated by Prof. G. V. Kale and Prof. P. S. Vidap.





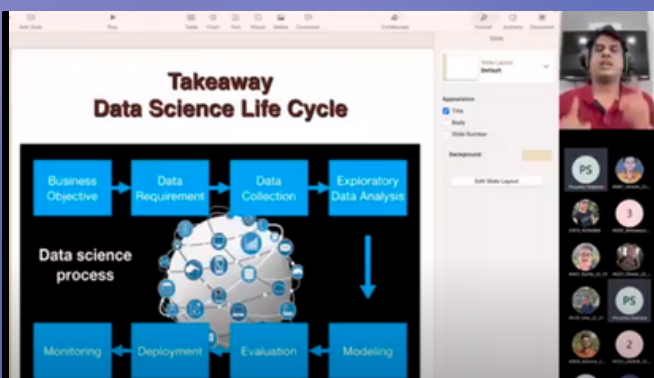
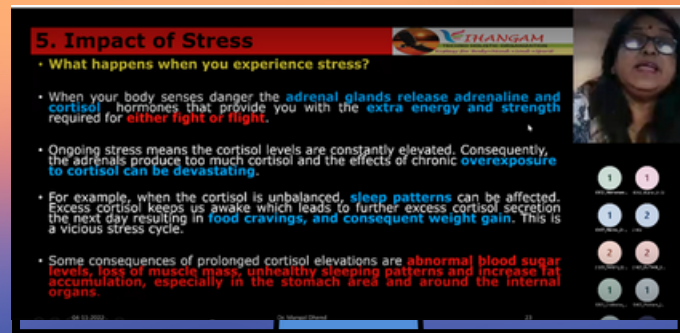
A seminar on 'Stress Management' was conducted for the faculty by Dr Anand V Kulkarni (Consulting geologist and trainer) on 11th July with 76 participants and was coordinated by Prof. P. S. Vidap.

A national level conference on 'Organising Committee Member - developed website of CTiS 2022' was conducted by ACM India on 8th and 9th July 2022 and was coordinated by Prof. P. A. Khadkikar.

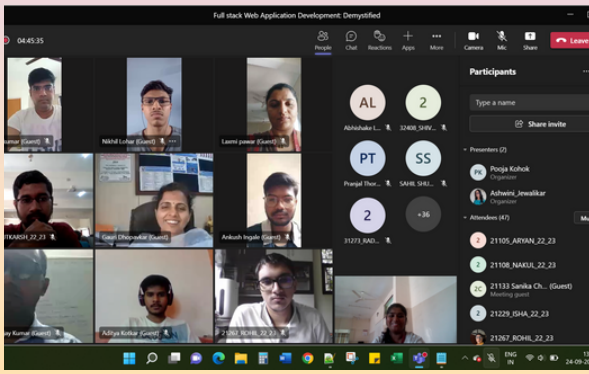


A webinar on 'introduction to angular js' was conducted by Prof. L.A. Pawar on 31st August with 50 participants

On 4th November, A session on "Meditation & relaxation techniques" & "Stress management techniques" was conducted by Dr. Mangal H. Dhend (An educator, founder and secretary of Vihangam Techno Holistic Organization) on 4th November with 200 participants and was coordinated by Prof. Y.S. Sarnar, Prof. P.S. Shahane, Prof D.D. Bhaiyya and Prof N.Y. Kapadnis.

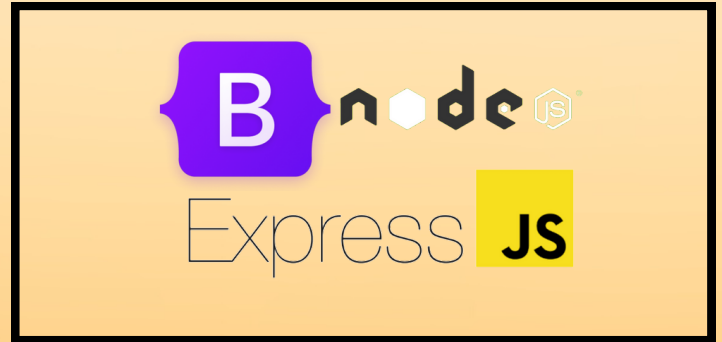


An expert session on "Machine Learning: A boon to industries" was organised on 5th November for 208 BE Computer students by Mr. Arpit Yadav (A Sr. Data Scientist at INSOFE, Bangalore) and was coordinated by Prof. P.S. Shahana.



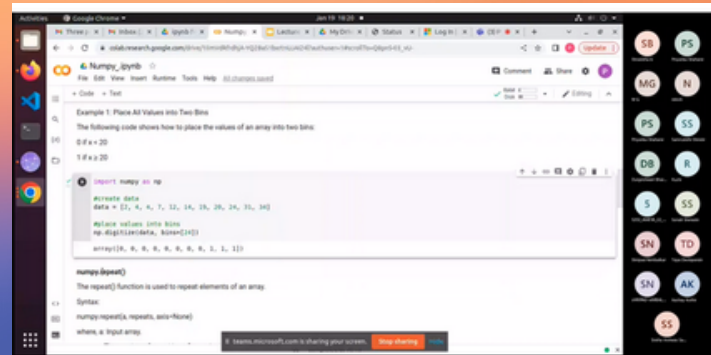
A national level 50 hrs certificate course on - "Full Stack Web Application Development" was successfully completed during the period from 17th September to 12th November by 137 participants and was coordinated by Prof. A.A. Jewalikar and Prof. L.A. Pawar

A 12 hrs session on the topic - "Bootstrap, Javascript, Node js, Express js" with 150 participants was conducted by Prof. P.T. Kohok.



On 4th November, An industrial Visit to CDAC to make students familiar with 'Supercomputer Architectural details' was conducted on 4th November for 60 students and was coordinated by Prof. A.A. Jewalikar and Prof. R.R. Jadhav

A national level certificate course on - "Python for AIML from Scratch " sponsored by Magicflare Software Services & Findability Sciences was successfully completed during the period from 18th December to 20th December with 59 participants and was coordinated by Prof M.S. Wakode, Prof. P.A. Khadkikar, Prof. P.R. Navghare, Prof. P.S. Shahane & Prof. G.V. Kale.



A workshop on - "Effective communication and impressive personality" was successfully conducted on 23rd & 24th December 2022 with 25 participants and was coordinated by Prof. P.S. Vidap

The department has had an exciting year with various seminars, webinars and courses conducted on several contemporary and relevant topics.

04 STAFF ACHIEVEMENTS



Prof. P.S. Shahane published 3 international research papers -
1) "A Survey on Face Recognition Techniques in Machine Learning" in the 8th volume of the 6th issue of International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT).

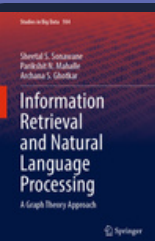
2) "Comparative Analysis of Early Stage Cancer Detection Methods in Machine Learning" in the 9th volume of the 11th issue of International Research Journal of Engineering and Technology (IRJET)

3) "Student's Career Interest Prediction using Machine Learning" in the 9th volume of the 11th issue of International Research Journal of Engineering and Technology (IRJET).



Prof. P.T. Kohok completed online certificate courses on - "Introduction to R", "Google Colab Python" & "Software Testing and Selenium Basics" from Great Learning and Simplilearn.

Prof. N.Y.Kapadnis completed a 5G Wireless Communication workshop on 9th November 2022



Dr. S.S. Sonawane published a chapter on 'Graph-based Text Document Extractive Summarization', in the book - 'Graph Learning and Network Science for Natural Language Processing'.



Prof. P.S. Shahane published an international research paper in the International Research Journal of Engineering and Technology (IRJET) on 'A Comparative Study of Various Machine Learning Techniques for Brain Tumor Detection' , Volume 9, Issue 11.

Prof. M.S.Takalikar, A.Marathe & T.Bhowmick published an international research paper in 2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT) on "Applied Single Image Super-Resolution for Aerial Imagery Enhancement", with ISSN no - 978-1-6654-9366-6.



Prof. P.P. Joshi published a national research paper in Juny Khyat on "Review of COVID-19 data analysis and prediction", Volume 12, Issue 9, No.-02, with ISSN no - 2278-4632.

Prof. A.A. Jewalikar published an international research paper in 2022 IEEE ICBDs on "Decentralized Fundraising Application Using Blockchain", with ISSN no - 978-1-6654-2832-3/22.



Prof. M.V. Mane published two international research papers:

1. In the Journal of Emerging Technologies & Innovative Research on "An Ensemble Based Deep Network for Vehicle Detection, Classification and Speed Estimation", Volume 9, Issue 7, with ISSN no - 2349-5162.
2. In the IRE Journal on "CT Scan Reconstruction using Generative Adverbials Network", Volume 6, Issue 6, with ISSN no - 2456-8880.





Niche technology of MP4 Meta-data MOOV descriptors was provided to ecoRise Software Solutions LLP on 30th July 2022 under the guidance of Prof. S. A. Joshi An amount of 10000 rupees was granted for the same.

Prof. P.P. Joshi published an international research paper in the journal of Xidian University, GC Care group, on the subject 'uncertainty based feature enhancement to eliminate data driven bias', Volume 16, Issue 7 July 2022, with ISBN/ISSN no- 1001-2400.



Prof. K. Gangrade and Prof S. Shah published a research paper on a 'review water resource management in smart cities using block chain technology along with IOT' in international conference on 'Data Analytical and Computational Application' (ISDACA 2022) organised by IAC, ICA, IET, SAGE University in July 2022.

Prof. P.S. Vidap topped the 12 week course in Pattern Recognition and application NPTEL-Swayam conducted during the period from July to October 2022.



NPTEL



Prof. P.S. Joshi published an international research paper in the journal of Xidian University, GC Care group, on the subject 'uncertainty based feature enhancement to eliminate data driven bias', Volume 16, Issue 7 July 2022, with ISBN/ISSN no- 1001-2400.2.

05

STUDENT ACHIEVEMENTS



Pranav Sunil Parit of TE 3 got the 1st prize in Coday hackathon organized by NICE system on 15th October 2022.



Atharva Litake of SE-1 won the ideathon and business idea pitching competition arranged by Associates - The CA club. He presented his idea of Plantomania, an eCommerce website that digitalizes the unorganized nursery and agro sector.



Microsoft

Nirmaayi Kelkar, Kashmiri Nair & Nidhi Kotwal from BE bagged rank 1 at Microsoft Chhalaang Hackathon.



Shivaji Bhosale, Parth Tagalpallewar, Apeksha Bhosale & Aditya Dhodade from TE were among the top 10 in Pune health hackathon conducted by PMC and Pune smart city development corporation.





Piyush Agrawal & Soaham Pimparkar
from SE bagged **Second place** at
CODEBREAK_4.0 hackathon at MIT
ADT University.



Soham Naik from BE-1 ranked **5th** in
FIRE(Forum of Information Retrieval)
shared task at **ILSUM 2022(Indian**
Language Summarization) Workshop.



Atharva Kumbhar & Prathamesh Mulay
from TE-2 ranked **7th** in **EMNLP** shared
task at **TSAR 2022 (Text**
Simplification, Accessibility and
Readability) workshop.



Omkar Gokhale & Omkar Jayant
Dhekane from BE-2 won the **Smart**
India Hackathon 2022 at **Mangalore.**



Raj Chandrakant Shende (TE-1), Aditya
Nandkishor Gitte (TE-2) and Mani
Makarand Gundre (TE-2) won the
Smart India Hackathon 2022 at
Namakkal.





Pink Suhas Mapari, Mrunmai Sameer Abhyankar and Amey Girish Bhattad of TE-1 won the Smart India Hackathon 2022 at Jaipur.



Utkarsha Ramchandra Nehe and Vedangi Shailesh Bhavsar of BE-3 won the Smart India Hackathon 2022 at Rajam.



Rahul Tangsali of BE achieved the following ranks in ACL 2022 at the Dravidian Langtech Conference for the paper title "Neural Machine Translation on Dravidian Languages" :

- 1st rank in Kannada to Tamil**
- 1st rank in Kannada to Telugu**
- 1st rank in Kannada to Malayalam**
- 3rd rank in Kannada to Tulu**
- 4th rank in Kannada to Sanskrit**



Omkar Gokhale of BE achieved :

- 2nd rank in ACL 2022, shared task at the Dravidian Langtech Conference for the paper titled "Emotion analysis in Tamil"**
- 5th rank in ACL 2022, shared task at the Dravidian Langtech Conference for the paper titled "Abusive Comment Detection in Tamil"**



1st rank in NAACL 2022, shared task SumEval by Microsoft Research Conference for the paper titled "Performance Prediction on Massively Multilingual Models."

Department always encourage students to participate in various events and it is proud to share following student achievements

06


ALUMNI INTERACTION AND VISIT



An Internship Experience Sharing Session was organized by Prof. P.P. Joshi on 13th August 2022. This session allowed Alumni to share their experiences and guide 130 students about the same.

PICT Alumni Association conducted a webinar session on 'Cybersecurity: Myths vs Reality' on 19th december 2022. Mr. Nilesh Shringapure (CE BATCH 1990) educated a zealous audience of 150 participants on the present activities as well as future opportunities in the field of cyber security.






PICT Alumni Association
 "Infusion- A tech talk series by alumni"

Dr. Kaustav Ghose
 1998 E&TC Batch,
 R&D and Systems Engineering, ESA,
 Netherlands

Webinar on "Present Activities and Future Trends in the Space Industry."

Contents:
 Understand how students interests and skills fit into the process of conceiving, designing, building, testing, and operating a modern space mission.

Date: 14th December 2021
 Time: 4 PM to 5 PM
 For registration scan QR code or Click on Link:
<https://forms.gle/ZAbk2hXG5zqvZs7>

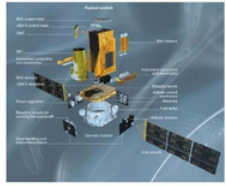



A webinar on "Present activities and Future Trends in the Space Industry" was delivered by Dr. Kaustav Ghose on 14th December with 30 participants and was coordinated by Prof. M.V. Mane. The objectives of this webinar were:

1. To inculcate knowledge about present activities in the space industry amongst the students.
2. To find the opportunities in future trends in the space industry.

Fundamental elements of a spacecraft – How do these robots work?

- Structure
 - Strong and light frame, engineered to survive launch and thermal stresses
- Thermal control
 - Active heating / cooling, and passive materials to maintain required temperatures and equilibrium
- Attitude control
 - Sensor suite to detect which way the spacecraft is pointing
 - On board computer to track and correct using actuators
- Propulsion
 - Maintain / change orbit and attitude as required by the application the spacecraft is designed for
- Power
 - Solar arrays and batteries, in special cases - nuclear RTGs
- Payloads
 - The diverse instruments that carry out the function of the mission
- Communication – command and data handling with ground



In order to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them and society at large, various events were arranged by the PICT Alumni Association for about 700 FE students, coordinated by Dr S.S. Sonawane during the period from 22nd November to 26th November.

STUDENT INDUCTION PROGRAM



An event about - "Being Successful while having fun" was delivered by Mr Gautam Godase (Senior Vice President at Brainbase).

A career counseling session was conducted by Mr. Tarun Sharma (Founder & CEO of Yodda).





A career counseling session by Mr. Shivam Gupta (Engineering Lead, Dig Inn, New York).

An event about social causes by Mr. Amrut Bang (Program Director- NIRMAN, Joint Director- SEARCH).



Career counseling & motivational speech by Dr Kaustav Ghose (R&D Systems Engineering, ESA, Netherlands).

