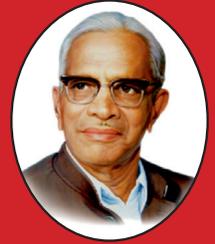


# TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY

AN AUTONOMOUS INSTITUTE

## REFLEX TKIET

### NEWS LETTER



Bi-annual News Letter

Vol. XIV, Issue – II, December 2022

### Editorial Committee

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### Silver Jubilee Alumni Meet - Batch 1997

Silver Jubilee Alumni Meet of the batch 1997, was organized at TKIET- Vinay Kore Kala and Krida Bhavan, Warananagar on 17th Dec. 2022 wherein a huge number of 73 high profile, a galaxy of engineering intelligentsia & academic stalwarts came together from every nook and the corner of the globe of the same batch to cherish and nourish their nostalgic memories, and to relive their rich experiences, and the glorious golden days, spent in this campus. The Meet was coordinated by the Alumni Mr. Arvind Kore and Dr. Jagdish Lambe & Mrs. Sumi Ahuja Chhabra under the guidance of Prof. B. R. Bagane, Alumni Coordinator, TKIET. The meet was graced with the auspicious presence of Hon. Dr. Vinayraoji Kore, Savkar Saheb, MLA, Maharashtra State, Chairman, Warana Education & Industrial Complex, Dr. Vasathi Rasam Madam, Administrative Officer, SWVSM, Warananagar, Dr. S. V. Anekar, Principal TKIET.



Shree Warana Vibhag Shikshan Mandal's

**TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY**  
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## Glimpses of Training & Placement Activities:2022-23

TKIET Training & Placement Cell started the placement season from July 2022. As a result team has successfully placed 350+ Students in the Academic Year 2022-23 from July 2022 till December 2022. Every year Team Training and Placement Cell is adding new recruiters into the list. This year we have added Technip Energies , Excel Industries & Supreme Petro Chemicals. Constant support & continuous guidance to students by the Team of Training & Placement cell has helped the students of TKIET to land on their dream jobs. Students have received good attractive pay packages between 3.50LPA to 12.00LPA for the academic year 2022-23.

The Institute's exclusive Pre-placement training program with refinements has offered a complete package of Aptitude/Problem Solving, Technical, Profession ethics & English communication skills. Series of mock assessments & interviews conducted helped students to boost their confidence & prepare accordingly for the Campus Placement Drives. Additional company specific training programs are offered to students to meet the technical requirements. Job oriented certification programs of TCS, Microsoft, IBM, Oracle, Dell, Cisco on AWS, Python, AI, ML, Data science, Cyber Security, & IoT etc helped students to grab the highly paid jobs of interest.

Nearly 75+ Companies were provided to students in the period of six months. Many Students got multiple job offers. Our regular recruiters are TCS,IBM, Infosys, Worley Parsons, Wipro, Tecnip Energies, Accenture, Capgemini, Cognizant, Black and Veatch, Raykor Technologies , Bosch, Berger Paints, Galaxy Surfactants, Maire Tecnimont, EY GDS, UBS India, Tech Mahindra, ATOS Syntel, Amdocs, Paramatrix, Webtech Developers, Hexaware Technologies, Walchandnagar Industries, Acty Systems & many more.

### Campus Placement Drive Glimpses of Arvind Smart spaces (A Subsidiary Company of Arvind Ltd)



Felicitation of Company Guests from Arvind Smartspaces (a subsidiary company of Arvind Ltd.) By the Hands of Prof. P. J. Patil, TPO TKIET, Warananagar



Students Attending Pre-Placement Talk of Arvind Smart spaces (a subsidiary company of Arvind Ltd.)

### Campus Placement Drive Glimpses of Maire Tecnimont (India) Private Limited



Pre-Placement Talk by Hon. Shri. Kaushik Das, HR Maire Tecnimont



Students attending Pre-Placement Talk of Maire Tecnimont

### Campus Placement Drive Glimpses of Excel Industries



Welcoming & Felicitation of Company Guests from Excel Industries by the Hands of Dr. S. V. Anekar, Principal TKIET, Warananagar



Address by Dr. S V Anekar Principal TKIET, Warananagar during the campus placement drive

## GUEST LECTURES, WORKSHOPS AND DEPARTMENT EVENTS

### Department of Chemical Engineering



#### Workshop on Application of Advance Excel in Chemical Engg.

A Four days workshop on Application of Advance Excel in Chemical engineering was conducted on 29th Sept. 2022 to 1st Oct. 2022; wherein 22 S.Y. B.Tech students attended the workshop. The objective of workshop was to improve students' modern computational skills. Excel is convenient in spreadsheet software that is both comprehensible and familiar. A key aspect of excel is how useful it is for various data analysis. These Skills are very essential for students because many industries require

graduates to have these modern technologies. The resource person, Mr. Ashok Sindkar from Nasik taught many uses of excel shortcuts which make our difficult work easier. Students got the importance of excel due to this workshop. It was coordinated by Prof. M. A. Patil.

#### Workshop on Fabrication, Manufacturing and Safety

A one day workshop on Fabrication, Manufacturing and Safety aspects of Chemical Equipment designing as video/model presentation was held on 17th Oct. 2022 and it was attended by 75 T.Y. B.Tech students. The resource person, Mr. Gajanan Kitture, MD, Haripriya Organic Chemicals Pvt., Ltd., Hatkanangle interacted with the students. The workshop aimed at understanding and presenting the equipment, designing methods, fabrication methods, manufacturing methods and safety aspects in detail. Participants were given participation certificates. Prof. V. A. Bhosale was the coordinator of the workshop.



#### Interaction Meet with Dr. K. Shrinivas, HoD, BIT's, Goa Campus

A one day interaction meeting of Chemical engineering faculty along with Dr. K. Shrinivas, HoD, Chemical Department, BIT's, Goa Campus was arranged on 30th Oct. 2022. During his interaction he emphasized a need of understanding the autonomy, urged the need of accepting and adopting the change. He also highlighted the needs to be research driven or research led based on the quality. He also suggested, the department should organize a teacher training program, certificate courses

for faculty and students and workshops to enhancing the teaching methodology, pedagogy and quality of the faculty. It was successfully organized by Dr. K. I. Patil, HoD, Chemical Engineering Department and Prof. S. A. Desai, Academic Coordinator.

#### Guest Lecture on GATE Preparation & Crash Course

Dr. V.V. Babu Pinjala Professor of Chemical Engg, former HoD, former Registrar, former Dean and former Acting VC at DBAT University, Lonere conducted a session on GATE Preparation & Crash Course on 22nd December 2022 wherein 50 students from S.Y, T.Y, and final year Chemical & Mechanical Engineering attended. This event created awareness to the students about GATE examination. To understand the importance of GATE exam, method for preparation, important topics on which more questions are asked and books required for preparation. Qualifying GATE examination with excellent score not only offers chance to get admission to M.Tech in premier institutes like IITs and NITs but also offers job openings in public sector companies



## Department of Mechanical Engineering



### Quiz Competition

Mechanical Engineering Students' Association (MESA Club), organized Quiz Competition on 7th October 2022. Around 73 students participated in this event. The event comprised of various general and visual rounds covering General Knowledge, Science and Discoveries, History, Sports, Politics etc. This was an Open-to-all contest. The student coordinators, Miss. Rajnandini and Mr. Viraj Paymal successfully coordinated and conducted this event with the help of MESA Club Advisor, Prof. S. M. Gidaveer.

### Treasure Hunt Competition

Mechanical Engineering Students' Association (MESA Club), organized Treasure Hunt on 20th October 2022. 27 groups participated in this event. Mr. Anuj and Mr. Nitin looked after the Registration of the participants. The following groups were adjudged the Winners: Mr. Prathamesh Bhosale, Mr. Avishkar Chafekar, Mr. Vikram Lohar & Mr. Shivam Kavade group secured 1st prize. Mr. Pankaj Shetake, Mr. Tejas Jadhav, Mr. Ankur Pudale & Mr. Pratik Patil group secured 2nd prize. Mr. Vijaya Patil, Mr. Tejas Pol, Miss. Devaki Mandlik Mr. Janhavi Kulkarni group secured 3rd prize. Miss. Vaishnavi Jadhav and Miss. Amruta Powar successfully coordinated and conducted this event. The winners and the participants received the Certificates. The prizes were given away at the hands of MESA Club Advisor, Prof. S. M. Gidaveer.



### GAMING FIRE

Mechanical Engineering Students' Association (MESA Club), organized Gaming Fire on 14th November 2022. 74 students participated in this event. The event comprised of various rounds covering Non-verbal Reasoning and Logical Reasoning. This was an Open-to-all contest. Miss Khushabu and Mr. Jayesh looked after the Registration of the participants. The following participants were adjudged the Winners: Mr. Bhavesh Ashok Korane secured 1st Prize, Mr. Sahil Sunil Chougule secured 2nd Prize and Miss. Deepanjali Prakash Kumbhar secured 3rd Prize. Mr. Aniket Patil

and Miss. Pranita Sagar successfully coordinated and conducted this event. The winners and the participants received the Certificates. The prizes were given away at the hands of MESA Club Advisor, Prof. S. M. Gidaveer.

## Department of Electronics & Telecommunication Engineering

### One Day Workshop on Drone Technology

A Workshop on Drone Technology was conducted by Drone Club RIT Islampur on 3rd December 2022 for E&TC students. Around 104 students Participated in the event.



### Engineer Day

Electronics Engineering Students Association (ETSA) organized Engineer Day on 15th Sept 2022

### Competition of CODING contest in C

Electronics Engineering Students Association (ETSA) organized Quiz Competition on “CODING CONTEST IN C” on 11/10/2022. Around 76 students participated in this event. The Winners were felicitated with cash prize and certificate. This function was coordinated by Prof. P. V. Lokhande.



### Department of Civil Engineering

#### Signing of MoU with Dhruv Consultancy Services Ltd and Innovision

A MoU was signed on 02/12/ 2022 with one of the leading construction consultancy company Dhruv Consultancy Services Ltd and Innovision in respect of giving opportunity to students as In-plant training, Internship, Site visits, Joint efforts in the area of Research and Development in engineering and Campus placement. The delegation comprised of Mr. Pandurang Dandawate, Managing Director (DCSL) Mrs. Tanvi Auti, Director (DCSL) Mr. Tejas Auti, Director (Innovision) between Dr. S. V. Anekar, Mrs. Tanvi Auti, Mr. Tejas Auti, Dr. D. M. Patil, Prof. A. V. Hankare and Prof. S.S. Chavan



#### Inauguration of the Natural Reed bed wastewater Treatment System

The inaugural ceremony of the “Natural Reed bed wastewater treatment system” was organized on Monday 14th November 2022 in TKIET Warananagar. This is a CSR initiative sponsored by LORD India Pvt. Ltd. and executed by the Centre for Environment Research and Education (CERE), Mumbai, and Natural Solutions, Mumbai. This project recycles grey water from the hostel and mess campus through a nature-based wastewater treatment

and recycling system. The project was inaugurated by Hon. Dr. Vinayraoji Kore, MLA Maharashtra, Chairman, Warana Education, and Industrial Complex. The dignitaries present were, Mr. Anup Deshmukh, Regional Manager, India, and South East Asia, Parker LORD, Mr. Ninad Joshi, HR Parker LORD, Dr. (Ms) Rashneh Pardiwala, Founder Director, CERE Mumbai, Dr. Ajit Gokhale, Founder Director, Natural Solutions, Mumbai. Dr. Vasanti Rasam, Administrative Officer, SWVSM, Warananagar, and Dr. S. V. Anekar, Principal, TKIET, Warananagar, were present for the ceremony.

### Department of Computer Science & Engineering

#### IDEAZONE Competition

The ACES (Association of Computer Engineering Students) of Computer Science department organized a technical activity “IDEAZONE” on 18th October 2022 at 10:00 am to 4:00 pm for all the students of SWVSM’s. The event was adjudicated by Prof. K. D. Joshi (Mechanical) and Prof. A. R. Chougule (Civil). The welcome speech was given by Prof. M. S. Bhosale . Total 18 groups had presented the ideas. Out of 18 groups 3 groups were declared as the winners of the event. The event was coordinated by Pratik Patil, Prathamesh Khandekar, Susmita Janwade, Akansha Malkar, Omkar Raut and respective committee members with the guidance of Prof. M. S. Bhosale.





### ACTOMANIA

TKIET's Theatre Festival, "ACTOMANIA" was held on 29th November 2022 under Association of Computer Engineering Students [ACES]. ACTOMANIA comprised of acting, mimicry, stand-up comedy, poem reading, singing, shayari and playing instruments. This event was held under the guidance of Head of the department Prof R. B. Patil, ACES Faculty advisor Prof. M. S. Bhosale and Event coordinator Prof A. S. Phalle and all faculty members of CSE department. This event was successfully conducted and organized by the aces core committee event

coordinators Pruthviraj Talap, Om Shete, Sakshi Belwadkar and Rutuja Bakare. The judges for this event were Prof. N.S.Dharashivkar from Mechanical Engg. Department and Prof. Mursal I. A. from Civil department. The winners were; Singing - Ankita Davari, Poem reading - Sourabh Shinde, Shaayari, mimicry, stand-up comedy - Usmani Waqas, Monoact - Pooja Javale

### Linux Installation Fest

T-LUG (TKIET-Linux User Group) is community of Linux users that promote the Use of Linux distribute and free and open source software. This is group of Linux hobbyist to spread the awareness of Linux and Open Source Softwares. T-LUG conducted Linux Installation Fest on Saturday, 12-November-2022. In the morning session of installation, T-LUG Board Members demonstrated installation of most popular Linux distributions like Ubuntu and Kali under the guidance of Prof. Imran Tamboli, Prathamesh Dalvi, Prajot Gavli.



## Department of Applied Sciences & Humanities



### Motivational Talk by Dr. Sanjay D. Thorat

On the occasion of the inauguration function of First Year Engineering Students Association a motivational talk was organized on 04/12/2022 in the gracious presence of Dr. S. V. Anekar, Principal TKIET, Dr. D N Mane HOD, and Dr. P. J. Patil, F.Y. B Tech Chief Coordinator, admission In- charge, Dr. A. V. Patil, FESA faculty Advisor Dr. Mark Monis, FESA student Presidents Shriram Shreyas Dadasaheb and Patil Rajeshawari

Bharatrao. Dr. Sanjay D.Thorat the chief guest interacted with students and focused on the various career prospects in the education sectors. He also discussed on current and past status of the Academic activities and gave some motivational tips to First Year B.Tech. students for their future study. More than 400 First Year B.Tech. students were present for the lecture in Vinay Kore Krida and Sanskrutik Hall and obtained valuable information and knowledge from guest talk.

### Guest lecture on Electrical Energy Conservation

Under the Association of First year engineering, a Guest lecture was organized on the topic "Electrical Energy conservation" on 16/12/2022. The speaker Hon. Mr. Mahesh. G. Kulkarni Pioneer Energy Kolhapur and his team addressed 400 plus First Year students and enlightened them with Electrical Energy saving and the importance of Solar Energy for clean Environment. During which all the participants of First Year students Pledged to save the Electrical energy, and the event was Graced by Hon. Dr. S. V. Anekar Principal TKIET, Dr. D. N. Mane HOD Applied science, Dr. P. J. Patil F. Y. B. Tech chief co-ordinator, Dr. Marku Monis FESA Advisor, Dr. Amol Patil Admission In charge. The event was co-ordinated by Prof. Mallanagowda Patil



### English, Marathi & Hindi Creative Poem writing Competition

Poetry writing helps people discover who they are. It helps individuals stay in tune with their thoughts and feelings. Through writing, a person can find out more about their personality, likes and dislikes; passions and interests. Poetry is also a good way to express opinions on certain issue. Hence creative poem writing competition was organized on 23th December 2022 by FESA. All together around 45 students took part in it . I was coordinated by Dr. Mark Monis and Mr. V. V. Tasgaonkar



### Central Library

**a. Librarian Day:** On the occasion of Librarian Day celebrated on 12 August 2022, Around 20+ staff members and 300+ students visited library and appreciated the work done by the library. On the said occasion Library arranged following activities.

1. Shivshahiche Adharstambh exhibition
2. Socialist photo and their information and slogans
3. ABCD of Library
4. Rankers felicitation (Essay writing competition)
5. Benefits of book reading - displayed board

**b. Library Week:** Central Library Celebrated Library Week during 14th to -20th November 2022 and conducted six different events on each day, also Marathi books were displayed in reading hall during this week from 5 PM to 8 PM. This event was declared on NDLI club of TKIET. There was good response from students and faculty members during this week. Total 264 readers participated in this one week event.

### Faculty Achievements

**Ph. D. Awarded :** Dr. R. V. Kajave, awarded with Ph.D. from VTU, Belgaum, his title of research was "Technoeconomical feasibility and optimum design of solar flat plate collector with auto tilting mechanism".



- **M. Tech in Electronics :** Mrs. Savitha S. from electronics department completed M.Tech in Electronics under Shivaji University Kolhapur. Project Title: Identification of leaf diseases in pepper plants using MATLAB, under the guidance of Prof. D. G. Chougule from Electronics dept.

### Excellence Awards

- Prof. P. J. Patil has received 'Outstanding Leadership Award 2022' from Maharashtra Association of Training and Placement Officers (MaTPO).
- Mr. R. B. Patil bagged Best AWS Educator award in the Eduskills - AICTE Internship Awards 2022 in New Delhi at the hands of Amith Nevatia AWS Educations programmer Lead South Asia & India
- Mr. Sachin A Urabinahatti bagged Best Center Of Excellence Coordinator award in the Eduskills - AICTE Internship Awards 2022 in New Delhi at the hands of Mr. Vivek Goel
- **Dr. P. V. Mulik:** Elected as Board of Studies in Mechanical Engineering and Technology on 23rd November 2022.
- Dr. Vivek M. Shete delivered several guest lectures at Samuruddhi Industries Ltd. During Contractors meet organized by Sardar Traders, Kameri.
- Prof. Kantilal Tamhane conducted expert lecture on "How to write review paper" for Ph.D. registered faculty members of TKIET on 10/09/2022.
- Prof. Kantilal Tamhane conducted expert lecture on "Open Access Resources" to J. J. Magdum College of Engineering, Jaysingpur on 7/01/2023.

### Students Achievement

A group of students attended the Hackathon 2K22 on 25th and 26th August 2022 at Lovely Professional University, Jalandhar Punjab. The Problem Statement was Speech to Text Application for policy functioning in different language. The problem statement was given by Cyber Crime Unit, Special Cell, and Delhi Police MHA. Name of the students are: Mr. Deepak Patil – Leader, Mr. Parth U. Mahajan, Mr. Akash D. Patil, Mr. Kartik J. Lokare, Mr. Prasad A. Kuri and Ms. Gayatri A. Mali



## Journal Publications of Faculty

- S.V. Anekar, K. I. Patil, Y. S. Patil, S. S. Patil 'Study on Resins And Activated Carbon For The Treatment of Spentwash', International Journal Of Research And Analytical Reviews, Volume 9, Issue 3, 2022.
- P. B. Dehankar, V. A. Bhosale, K. I. Patil 'Investigation of newly designed Alternate Perforated V-Notch (APVN) twisted tape with heat transfer characteristics', Elsevier - Results in Engineering, 100425, Volume 14, 2022, PP: 1-10, <https://doi.org/10.1016/j.rineng.2022.100425>
- P. J. Patil, P. V. Mulik, M. R. Jadhav, K. D. Joshi, "Experimental and Finite Element Analysis of Reinforced Composite Front Drive Axle", Indian Journal Of Science And Technology, Volume 15, Issue 45, November 2022, pp. 2230-2239, ISSN: 0974-6846.
- S. V. Lingaraju, "Investigation on Wear Analysis of Aluminium (Al) 7075 Alloy Reinforced with Titanium Carbide (TiC) and Graphene (Gr) Nanoparticles", Advanced Technologies in Solid-State Materials Research, Vol. 339, October 2022, pp 125-134, ISSN: 1662-9779.
- S. V. Lingaraju, "Effect of addition of TiC nanoparticles on the tensile strength of Al7075-graphene hybrid composites", Research on Engineering Structures & Materials, November 2022, pp. 1-12, ISSN: 2148-9807.
- A. M. Patil, "Design and Fabrication of Mini Sugarcane Harvesting Machine", International Journal of Innovative Research in Technology, Volume 9, Issue 5, October 2022, pp. 1-5, ISSN: 2349-6002.
- M. S. Dhuttargaon, Prof. A. V. Patil, "Modelling And Analysis Of Ball Valve Handle Using Cad Simulation", International Journal Of Current Engineering And Scientific Research, Volume 9, Issue 5, 2022, pp. 97-102, ISSN: 2393-8374.
- A. S. Todkar "A Review: Vibration measurement of Agriculture hand held Implements." Proceedings of FLAME-2022, 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering, 5th August 2022.
- Dr. A. S. Todkar " A Review: Experimental investigation on low frequency excited tube intube heat exchanger with applications of nano fluids", Proceedings of FLAME-2022, 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering, 5th August 2022.
- A.S.Todkar "Measurement of Eviscerated Eye for Retinal Prosthesis - A New Approach", Proceedings of FLAME-2022, 3rd Biennial International Conference on Future Learning Aspects of Mechanical Engineering, 5th August 2022.
- S. S. Mahadik, "Condition Based Maintenance Techniques- A review", 4th International Conference on Advanced Technologies for Societal Applications, held at Shri Vithal Education & Research Institute, pandharpur during 9th-10th December 2022.
- A. S. Chavan, "Improvement of Mechanical Properties of Banana Fiber Reinforced Composites", 4th International Conference on Advanced Technologies for Societal Applications, held at Shri Vithal Education & Research Institute, pandharpur during 9th-10th December 2022.
- P.V. Lokhande "Comparative Analysis of Wearable Antenna for WBAN Application" in GIS Science Journal volume 9 Issue 12, December 2022 ISSN NO 1869-9391
- Manjunath R. Hudagi "An Image inpainting Method Based on Whale Integrated Monarch Butterfly Optimization based DCNN: An Image inpainting Method Based on Whale-MBO" (191120-060136), Volume 13, Issue 3, DOI:10.4018/IJSIR.304398
- Manjunath R. Hudagi, "Bayes Probabilistic Based Fusion method for Image inpainting", International Journal of Pattern Recognition and Artificial Intelligence Vol. 35, No. 13 (2021) 2254008 (27 Pages). World Scientific Publishing Company DOI: 10.1142/S0218001422540088, ISSN: 0218-0014.
- P. B. Kolekar, "Experimental study on increasing strength of pervious concrete", IRJET, Vol.9, Issue 7, July 2022