

Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY



AN AUTONOMOUS INSTITUTE

REFLEX TKIET

NEWS LETTER



Bi-annual News Letter

Vol. XVI, Issue-I, June 2024

Editorial Committee

Chief Patron

Hon. Dr. Vinayraoji Kore, Chairman
SWVSM., Warananagar

Patron

Dr. Vilas V. Karjinni
CEO, SWVSM., Warananagar

Editorial Directors

Dr. D. N. Mane, I/C Principal
Dr. S. M. Pise, Dean, SETM

Editor-in-Chief

Dr. Marku Monis

Associate Editors

Dr. Pravin G. Dhawale
Ms. Archana V. Gundavade

EUREKA and JIDNYASA 2K24

One of the iconic events of TKIET, EUREKA and JIDNYASA 2K24, a National level Paper Presentation and Project Competition was held on 20th April 2024. . Due to sincere efforts of all faculty and students, there was huge response from outside institutes, states and our institute in the online and offline mode with 1000+ participants taking part in both the competitions. Hon'ble Dr. Vinayraoji Kore (Savkar) was President of the inaugural function, Hon. Shri. Bala Thiagarajan, Vice president, information technology, Capgemini was the Chief Guest whereas, the function was conducted in the presence of Dr. Vilas V. Karjinni, Chief executive Officer, Shree Warana Vibhag Shikshan Mandal, Warananagar. This event was successfully conducted through the guidance of Dr. S. V. Anekar, principal and Dr. S. M. Pise, Dean SETM. The Convenor for this function was Prof. R. B. Patil, HoD CSE and Co-convenors was Prof. S. H. More and Prof. V. M. Sanade who along with Student Convener, Mr. Sumay Magdum, Student Co-conveners: Mr. Vignesh Gurav & Mr. Aniket Shinde, Students Associations, student coordinators and volunteers made this event a grand success.



TKIET, WARANANAGAR - 416 113. Tal. Panhala, Dist. Kolhapur. Maharashtra, INDIA
Phone : 02328 - 224012, 224013, Fax : 02328 - 223507
Email : principal@tkietwarana.ac.in, Website : tkietwarana.ac.in

Glimpses of Training & Placement Cell Activities: 2023-2024

Training & Placement Cell at a Glance

TKIET Training & Placement Cell started the placement season from July 2023. As a result team has successfully placed 510+ Students in the Academic Year 2023-24. Every year Team Training and Placement Cell is adding new recruiters into the list. This year we have added Reliance Industries Limited, Techfinix, Antigra Systems Pvt. Ltd, Tata Toyo Radiator Ltd, Karamtara Engineering Pvt Ltd, Atlas Copco India, Sparthoughts, AtioHX, CMSS Pvt Ltd, Indovance Pvt Ltd & many more. Unwavering support and continuous guidance provided by the Training & Placement Cell have empowered TKIET students to secure their dream jobs. Students have received good attractive pay packages between 3.50LPA to 12.00LPA. Every admitted student now has a great deal of confidence and trust. We express our thanks to management for their constant support and dedication in gaining a vote of trust.

Nearly 150+ Companies were provided to students. Many Students got multiple job offers. Our regular recruiters are Technip Energies, Wynum automation services pvt. ltd, Arvind Smartspaces, Tecnimont Pvt Ltd, Galaxy Surfactants, Black and Veatch,SBM Nauvata,TCS, IBM, Infosys, Worley, Wipro, Accenture, Capgemini, Go-Digit General Insurance, Cognizant, , Excel Industries, Bosch, Berger Paints, EY GDS, UBS India, Tech Mahindra, ATOS Syntel, Amdocs, Paramatrix, Webtech Developers, Hexaware Technologies, Walchandnagar Industries, Acty Systems, Zensoft Services, Toyo Engineering, Kanaka Software Services, Deccan Fine Chemicals, Sparthoughts, Supreme Petrochemicals & many more.

Thincloud Solutions Pvt. Ltd, Pune



Tecnimont Pvt. Ltd, Mumbai



TEKDI Technologies Pvt. Ltd, Pune



GUEST LECTURES, WORKSHOPS AND DEPARTMENT EVENTS

Department of Mechanical Engineering



Find and Capture

Mechanical Engineering Students Association (MESA) organized "Find and Capture" event competition on 13/02/2024. There were 136 students participated from mechanical as well as another department. The competitions were successfully coordinated by Prof. S. M. Gidaveer faculty advisor of MESA and MESA members. In Find and Capture event competition, Mr. Abhijeet A Patade and his team got 1st prize, Mr. Sahil Chougule and his team got 2nd prize, Mr. Chinmay Shete and his team got 3rd prize. This competition was coordinated by student coordinator Mr. Omkar A Patil and Miss. Vaishnavi Deshmane and her team.

National Level Paper Presentation & Project Competition Eureka-Jidnyasa 2k24

On 20th April, 2024, National Level Paper Presentation & Project Competition EUREKA-JIDNYASA 2K24 organized by department. 187 students from different institutes from Maharashtra & Karnataka participated & presented their work in these competitions. Dr. Prashant S. Jadhav Asst. Professor, Mechanical Engineering Dept, RIT, Sakharale Isalmpur & Mr. Anant G. Patil Chief Engineer, Shree Warana Sahakari Sakhar Karkhana, Ltd. Warananagar were external judges, similarly;

Dr. P. J. Patil and Dr. A. S. Todkar were internal judges for this event. HoD, Dr. P. V. Mulik, Academic Coordinator Prof. G. S. Kamble & all Mechanical faculty were present on this occasion.



Department of Electronics and Telecommunication Engineering

MATLAB and Simulink: Basics to Advance

The Department of Electronics and Telecommunication organized a three-day workshop on "MATLAB and Simulink: Basics to Advance" starting from March 4, 2024. This workshop was conducted under the Lead College Scheme of Shivaji University, Kolhapur. The sessions were led by Mr. R. J. Patil from RIT Islampur.



Aptitude Test Competition

The Electronics Engineering Students Association (ETSA) organized the "Aptitude Test Competition" in collaboration with IETE. The event, titled "ETSA 2K23-24," took place on March 13th and 14th, 2024.

Elocution Competition

The Electronics Engineering Students Association (ETSA) organized an Elocution Competition on March 20th and 21st, 2024.



Department of Civil Engineering

Software Skill Enhancement Program and ETABS

The Dept. of Civil Engineering, in collaboration with the Civil Engineering Software Academy (CESA), Pune, and ISTE, organized a "Two Weeks Software Skill Enhancement Program on STAAD PRO Connect Edition and ETABS." Er. Rhishi Mugutkar, a software training expert; Mr. Hitesh Lahoti, Chairman and Director of CESA Pune, Dr. S. V. Anekar, Principal, Dr. D. M. Patil, HoD, Dr. R. V. Kajave, Academic Coordinator & Prof. V. J. Yadav, Course Coordinator graced the dais.



The sessions were conducted between April 10, 2024, to April 19, 2024 covering STAAD PRO Connect Edition for the basics, analysis, design of structures & ETABS for the design of steel and RCC structures. The workshop was coordinated by Prof. V. J. Yadav.



3D Building Modelling Using Google Sketch Up

A one-week student training program on "3D Building Modeling Using Google SketchUp," part of the Lead College Activity by Shivaji University, Kolhapur, was successfully conducted at Tatyasaheb Kore Institute of Engineering and Technology (Autonomous), Warananagar. This program, held from Monday, March 25, 2024, to Friday, March 29, 2024, was designed for T.Y. B.Tech students of the Civil Engineering Department. During the week, Mrs. Chaitali Shah, the resource person, provided valuable insights, real-life scenarios, and a practical approach to 3D building modeling using SketchUp software.

Department of Computer Science and Engineering

Workshop on Role of Deep Learning in Artificial Intelligence

Department of Computer Science And Engineering organized a 3 days hands-on workshop on Role of Deep Learning in Artificial Intelligence under the lead college activity of Shivaji University, Kolhapur which was conducted from 27th to 29th March, 2024 at TKIET, Warananagar. The resource person Prof. P. M. Gavali shared his insights, real life scenarios and practical use cases.





The LogiCode

The LogiCode (Coding Club of TKIET) of Computer Science & Engineering department along with Association of Computer Engineering Students (ACES) organized the “Think Code Win-I” on 6th March 2024. The Competition was based on problem statement analysis and was conducted on Hackerrank platform. 30 students participated in this competition and Mr. Bhavesh Korane was the winner, received the logiCode goodies by the hands of principal.

“Git & Github Workshop”

The LogiCode (Coding Club of TKIET) of Computer Science department along with TKIET’s Linux Users Group (TLUG) organized the “Git & Github Workshop” on 14th March 2024 for all students of TKIET. Workshop was conducted under the guidance of Prof. A. G. Patil and Prof. Shraddha Nikam.



Department of Chemical Engineering



3D Plant Model Design Using AVEVA E3D

The Chemical Engineering department, under the Shivaji University Lead College Scheme in collaboration with T.K.I.E.T., Warananagar, organized a three-day workshop on "3D Plant Model Design Using AVEVA E3D" from March 27th to 29th, 2024. The workshop introduced this advanced software, which enhances engineering efficiency and reduces design costs through its clash-free, multi-discipline design interface. The event was facilitated by resource person Mr. Juber Shikalgar from Galaxy Surfactant, Mumbai, with coordination by Prof. M. A. Patil and co-coordinators Prof. P. J. Patil and Prof. Y. S. Patil.

Inauguration of the PDC lab

The Chemical Engineering Department inaugurated its PDC lab on January 30th, 2024. The event was graced by Dr. V. V. Karjinni, CEO of Shree Warana Vibhag Shikshan Mandal, Warananagar, along with Principal Dr. S.V. Anekar, Dean and HoD Dr. K. I. Patil, Mr. Pravin Deod, CEO of SAP Engineering & Consultants, Pune, Mr. Deepak Divate, and representatives from Galaxy Surfactants Ltd., Mumbai. The program was coordinated by Prof. S. A. Desai, Prof. V. A. Bhosale, and Prof. Y. S. Patil.



“IES and PSU Exam Awareness Program by ACE Academy”

Career Development Cell organized a guest lecture on “IES and PSU Exam Awareness Program” by ACE Academy was held on February 6, 2024. Mr. Santosh Kumar from ACE Academy, Hyderabad, conducted the session, which was attended by over 65 students. During the lecture, Mr. Kumar provided a comprehensive overview of PSU and GATE examinations, offering valuable insights and guidance regarding Mechanical and Computer Science Engineering students.

Department of Applied sciences and Humanities



Group Discussion Competition

Applied Sciences and Humanities Dept., under First Year Engg. Students Association organized Group Discussion Competition for the 8 divisions of F. Y. B.Tech, on 14th March, 2024. GD is an effective tool in problem solving, decision making and personality assessment in view of preparing for campus drive. The event was coordinated by Dr. Marku Monis, Mr. G. B. Kamble & Mr. K. M. Patil.

"Nasha Mukat Bharat" Campaign at TKIET

The "Nasha Mukat Bharat" campaign was launched at TKIET with the primary objective of addressing the growing concerns related to substance abuse & addiction within our educational institution. This campaign was designed to create awareness, provide support & empower our students & staff to combat substance abuse effectively. The campaign included seminars & interactive sessions led by experts & counselors. Ms. Rashmi Madam provided insights & strategies for combating substance abuse, helping to break the stigma surrounding this issue. The event was coordinated by Dr. Mark Monis & Dr. A. V. Patil with the help of Student volunteers



Valedictory Function of F. Y. B. Tech Students

Valedictory function of F. Y. B. Tech Students Association (FESA) was organized on 2nd May, 2024. More than 350 students were present & became witness to the prize distribution ceremony. The Valedictory function was graced by the Chief Guest, Dr. Umesh B. Deshannavar, Director of Innovation, Research and Partnership, Proposed Warana University, Kolhapur in the cheerful presence of Dr. D. N. Mane In-charge Principal, Dr. P. J. Patil, F.Y. B. Tech HoD, Dr. S. S. Desai, Academic Coordinator, Dr.

Mark Monis and Dr. A. V. Patil, FESA faculty advisers. The event was coordinated by Dr. Mark Monis & Dr. A. V. Patil with the help of Student volunteers.

Women's Day Celebration

Internal Complaint Committee (ICC) and Women Empowerment Cell (WEC) organized a special guest lecture on "Empowering Women Entrepreneurship-shaping better tomorrow" on 13th March, 24 by Mrs. Sayalipatil- Jadhav (Owner and founder of Webway Enterprises). Session aimed to empower and inspire women entrepreneurs in the field of technology and business. A one-minute pick-and-speak competition was organised where students had to pick a topic, speak for one minute, and captivate the audience with their communication skills.



Faculty Achievements



Ph D. Awarded: Prof. R. B. Patil from the department of Computer Science and Engineering has been awarded with Ph.D from Koneru Lakshmaiah Education Foundation, Vaddeahwaram, Guntur, for his thesis entitled “Development of Hybrid Evolutionary Algorithms for Improving Performance of Constraint Based Combinatorial Interaction Testing”.



Ph D. Awarded : Prof. Sourabh S. Borchate from the department of mechanical Engineering has been awarded with Ph.D from Department of Aerospace Engineering, Indian Institute of Technology Kanpur, for his thesis entitled “Prediction of Stiffness, Strength, and Low-Velocity Impact Induced Damage for Z-Pinned Laminated Composites”, under the guidance of

Prof. Dr. P. M. Mohite



Prof. Ranji B. Naik honored as Associate NCC Officer

During the piping ceremony held on April 18, 2024, at NCC Bhavan, Kolhapur, the Commanding Officer Col. Puneet Gogia and Administrative Officer Lt. Col. Nikhil Saxena carried out the investiture ceremony and felicitated Prof. Ranji B. Naik as Associate NCC officer with the rank of Lieutenant on behalf of 56 MAH BN Kolhapur.

Patents:

- Dr. Umesh B Deshannavar and Dr. Santosh Kadapure, have been granted with Patent for the invention entitled ‘A System and Method for Capturing Carbon Dioxide’, Indian Patent No. 534626
- Dr. R. B. Patil has been granted with Patent for the invention entitled “Mobile Application Based Automatic Digital Electric Meter reading, Billing and Payment System”.
- Prof. P. B. Dehankar, has been granted with patent for the invention entitled ‘Chemical Air Pollution Detection Device’, Indian Patent No.398803-001.
- Prof. D. U. Chavan has registered an Indian design patent for the "IoT Based Device to Alert Alzheimer's Patients," which was published on June 24, 2024, under application number 416511-001. The patent details were featured in Journal number 26/2024 on June 28, 2024.

- Prof. Kantilal Tamhane, Head librarian received copyright registration certificate from Government of India under Intellectual Property Right on 27/06/2024.
- Prof. D. U. Chavan has published a textbook titled “Advanced Image Processing Techniques,” 1st Edition, ISBN NO: 978-93-6132-223-5, in 2024. The book is published by Scientific International Publishing House (SIPH), which is registered under the Ministry of SME, Government of India, with GSTIN: 33AKIPR5169F1ZY and UDYAM registration number TN-25-000518.
- Prof. P. B. Dehankar, awarded with Nation's Pride Award 2024 in the category 'Best in Academics and Research (12 years of contribution in Teaching)', Nation's Pride Award, Gyan Uday Foundation, reg. by Govt. of India, Kota, Rajasthan.
- Prof. Kantilal Tamhane attended 2 NDLI club events from National Digital Library of India.
- Mr. N. B. Jadhav, HoD, System & Network Support has been awarded as active, Single point of Contact (SPOC) for the initiative of SWAYAM – NPTEL by IIT Bombay

Students Qualified in GATE-2023-24 Examination

1. Mr. Pratik Vinay Patil, Chemical Engineering, appeared for GATE in 2024, secured AIR 71, with a GATE score of 50.67 (Academic Year 2022-2023).
2. Mr. Nilesh Babu Shityalkar, Chemical Engineering, appeared for GATE in 2024, secured AIR 1483, with a GATE score of 25.
3. Mr. Akash Namdev Pawar, Chemical Engineering, appeared for GATE in 2024, secured AIR 1771, with a GATE score of 23.
4. Mr. Sushant Bajrang Mulik, Mechanical Engineering, appeared for GATE in 2024, secured AIR 2153, with a GATE score of 45.33 (Academic Year 2023-2024).
5. Mr. Mandar Maruthi Jondhale, Computer Science Engineering, appeared for GATE in 2024, secured AIR 5233, with a GATE score of 41.99 (Academic Year 2023-2024).

Journal Publication of Faculty

- P. J. Patil, "Experimental Investigation & Analysis of Composite Material of Leaf Spring made by Composite Material" International Journal of Research and Analytical Reviews, Vol. 11, pp. 102-109, January 2024, ISSN:2348-1269.
- Ganesh B. Kamble, Marku Monis, 'Dissolution of the Family in Sam Shepard's Buried Child', Aayushi International Interdisciplinary Research Journal (AIIRJ) Vol. XI, Issue IV, Pp. 48-53, April 2024 (ISSN 2349-638x) website :- www.aiirjournal.com
- N. S. Dharashivkar, Pramod Mulik, Prashant Patil, "Theoretical and Finite Element Analysis of Pressure Vessel", Indian Journal of Science and Technology, March 2024, Volume 17, Issue 12, ISSN: 0974-6846, pp. 1148-1158.
- A. S. Todkar, "Recent Trends in Reduction of hand Arm Vibration Syndrome for Agricultural Handheld Equipment: A Review Based on Challenges and Future Directions" Noise & Vibration Worldwide, pp. 1-15, May 2024.
- C. P. Shinde: "IoT Based Electricity Energy Meter Using Arduino and ESP8266," Volume-1, Issue-I, April 2024, pp. 33-38.
- A. S. Mali, "Smart Floor Cleaner" in Journal of Microprocessor and Microcontroller Research, Volume-1, Issue-1, April 2024, pp. 49-55.
- A. A. Thorat, "Traffic Light Priority Control for Emergency Vehicles" in International Journal for Research in Applied Science & Engineering Technology, ISSN NO 2321-9653, Vol. 12, Issue 18s, pp. 483-491, February 2024.
- B. G. Warante, "Design and Implementation of Solar-Powered Grass Cutter using IoT" in Journal of Advancement in Electronics Design, Vol. 7, Issue 2, 2024.
- B. G. Warante, "Affordable Emergency Ventilator with Vital Monitoring Solutions" in Journal of Recent Trends in Control and Converter, Vol. 7, Issue 1, 2024.
- S. H. More, K. G. Pise, "Jaggery Manufacturing Process Optimization using Industrial IoT," Volume-1, Issue-I, February 2024, pp. 1-6.
- S. H. More, K. G. Pise, "IoT System for Real-Time Water Monitoring" in Advancement of IoT in Blockchain Technology and its Applications, e-ISSN: 2583-7826, Vol. 3, Issue 1 (January – April, 2024), pp. 20-25.
- P. V. Lokhande, "Combating Electricity Theft through IoT Integration" in HBRP Publications: Journal of Advancement in Communication System, e-ISSN: 3048-4758, Vol. 7, Issue 2, pp. 44-55, May 2024.
- P. V. Lokhande, "Compact Flexible Wearable Loop Antenna for Enhanced WBAN Performance across Multiband Frequencies" in Scopus Index Journal: International Journal of Intelligent Systems and Applications in Engineering (IJISAE), ISSN NO: 2147-6799, Vol. 12, Issue 18s, pp. 483-491, February 2024.
- D. U. Chavan, "Gesture Controlled Robot" in International Journal for Research in Applied Science & Engineering Technology, Volume 9, Issue I, January 2021, ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429.
- D. U. Chavan, "Smart Shopping Trolley" in Journal of Emerging Technologies and Innovative Research (JETIR), ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor, Published in Volume 11, Issue 3, March 2024, Date of Publication: March 22, 2024.
- Kunal D. Patil, P. V. Lokhande, "Charging Station for Electrical Vehicle" in Journal of Research and Applications in Emerging Technologies, Volume-6, Issue-1, April 2024.
- P. V. Lokhande, Kunal D. Patil, "Crop Diagnosis using Mobile Application (Agroconnect)" in HBRP Publications: Research and Applications in Emerging Technologies, Vol. 6, Issue 2, pp. 23-29, May 2024.
- S. H. More, K. G. Pise, "Bluetooth Enabled LCD Cricket Scoreboard" in Journal of IoT-based Distributed Sensor Networks, Vol. 1, Issue 1 (January – April, 2024), pp. 7-14.
- P. B. Kolekar, A. B. Patil, R. R. Chandanshive, "Identification and Improvement of problems in a Surli ghat section (Western Maharashtra, India) by using various Construction Techniques", JETIR, ISSN 2349-5162, Vol.11, Issue 1, Jan 2024.
- A.V. Hankare, "Review of modified swarm optimization (MPSO) algorithm-based claim management system for construction claim and dispute in infrastructure projects", IREJ, ISSN 2456-8880, Vol.7, Issue 8, Feb 2024
- A.V. Hankare, "Study of Modified Particle Swarm Optimization (MPSO) algorithm-based claim management system for construction claim and disputes in infrastructure projects", JETIR, ISSN UGC Approved (Journal No: 63975) Volume 11 Issue 3, March-2024.
- V. M. Sanade and T. K. Shikalgar, "To Investigation and development of roofing tile using Agro waste", IRJMETS) E-ISSN 2582-5208 Volume: 06 Issue: 4, April 2024.
- S. S. Chavan, "Review: Detect and overcome the problem in project finance", IJRASET, ISSN 2321-9653, Vol.12, Issue IV, April 2024.
- A. R. Chougule, "Experimental study on sugarcane bagasse as a replacement for conventional material in bricks", NCETET 2024, Conference ISBN 978-73-91535-89-6, BCE, Kolhapur.
- N. H. Shinde, "Extraction of Lycopene From Tomato Paste", Journal of Emerging Technologies and Innovative Research (JETIR), ISSN:2349-5162, Volume 11, Issue5, , Page No. d381-d386
- S. S. Patil, K. I. Patil, "Synthesis of MOF Adsorbent", International Journal of Research Publication and Review, ISSN 2582-7421, Volume-5, Issue-4, PP 6017-6022.
- P. B. Dehankar, V. A. Bhosale, "Breaking Bonds: Unveiling the Catalytic Pyrolysis of Polystyrene", SSRN, ISSN: 1556-5068.
- S. S. Patil, "Green Hydrogen Production", International Journal of Research Publication and Review, ISSN 2582-7421, Volume-5, Issue-4.
- S. B. Sagare, D. B. Mirajakar, "Pick Me – A Journey Sharing App", IJNRD Volume 9, Issue 5 May 2024, ISSN: 2456-4184.
- S. B. Sagareand, D. B. Mirajakar, "Food Tempetation," IJRPR Volume 5, Issue 5 May 2024, ISSN: 2582-7421
- S. B. Sagare, D. B. Mirajakar, "Shabdodh" 20XX IJNRD, Volume X, Issue X Month 20XX | ISSN: 2456-4184
- Kantilal Tamhane, "Impact of World Wide Web on Library and Information Services" in free and open access journal of management research, volume XV issue-2 p-22-27. <https://cimr.in/faculty-research.html#research-journals>