Shree Warana Vibhag Shikshan Mandal's

TATYASAHEB KORE INSTITUTE OF ENGINEERING & TECHNOLOGY



AN AUTONOMOUS INSTITUTE

REFLEX TKIET

NEWS LETTER



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President of India Inaugurates Warana University at Warananagar





In a momentous ceremony on September 2, 2024, Hon'ble President, Smt. Droupadi Murmu officially inaugurated Warana University at Warananagar in Kolhapur district. The event coincided with the Golden Jubilee celebration of the Shree Warana Women's Co operative Group, underscoring the university's roots in the region's cooperative ethos. Flanked by dignitaries including Maharashtra Governor, Shri. C.P. Radhakrishnan, Deputy CM, Shri. Devendra Fadnavis, Higher Education Minister, Shri. Chandrakant Patil, M P, Rajya

Sabha, Shri. Dhananjay Mahadik, MP, Lok Sabha Shri. Dhairyasheel Mane, Smt. Raksha Khadse, Shri. Hasan Mushrif, MLA, Shahuwadi constituency, Dr. Vinayrao Kore, Smt. Shubhalaxmi Kore, and Chairman Warana Bank, Shri. Nipunrao Kore. This inauguration marks a historic milestone in rural Maharashtra's educational landscape, building on six decades of community-driven development championed by the Warana cooperative movement founded by late Shri. Tatya Saheb Kore.



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Glimpses of Training & Placement Cell Activities: 2024-25

The TKIET Training & Placement Cell commenced the placement season in July 2024, and we are proud to share that 320+ students have successfully secured placements during the Academic Year 2024-25. On the other hand Students received attractive salary packages ranging from ₹3.5 LPA to ₹12.0 LPA as well as multiple job offers from reputed companies. In order to achieve this a comprehensive Pre-Placement Training Program is designed to equip students with the skills required for successful campus recruitment. This includes: Aptitude Training Technical Skills Enhancement Professional Ethics, English Communication Skills, a series of mock assessments and interviews, company-specific training modules as well as Job-Oriented Certification Programs from reputed organizations such as TCS, Microsoft, IBM, Oracle, Dell, Cisco were offered.

This year, 50+ top-tier companies recruited from TKIET, with several students receiving offers from multiple organizations. Our regular and new recruiters include:

Technip Energies, Pienomial Pvt. Ltd., Arvind Smartspaces, Tecnimont Pvt. Ltd., Galaxy Surfactants, Black and Veatch, SBM Nauvata, TCS, IBM, Infosys, Wipro, Accenture, Cappemini, Cognizant, Go-Digit General Insurance, Excel Industries, Bosch, Berger Paints, EY GDS, UBS India, Tech Mahindra, ATOS Syntel, Amdocs, Sankey Solutions, Webtech Developers, Hexaware Technologies, Walchandnagar Industries, Acty Systems, Zensoft Services, Toyo Engineering, Kanaka Software Services, Deccan Fine Chemicals, Sparthoughts Pvt. Ltd., Supreme Petrochemicals... and many more.





Campus Placement Drive of Kay Bouvet Engineering Ltd.





Campus Placement Drive of Iauro Systems Pvt Ltd, Pune





Workshops, Guest Lectures and Department Events

Electronics & Telecommunication Engineering



Faculty Development Programs (FDP)

Electronics and Telecommunication Engineering department organized AICTE Training and Learning (ATAL) Academy FDP on 'Electrical Vehicles and Hydrogen fuel cell vehicles for sustainable Mobility' from 02/12/2024 to 07/12/2024. For organizing this FDP, 3.5 Lakh fund has been given by the Govt. of India. Dr. S. R. Kumbar and Dr. Pravin G. Dhawale were the coordinator for this

event. More than 41 participants attended the FDP including industrial visit.

The inaugural ceremony of Electronics Engineering Students Association - ETESA 2K24-25 was held on 11.09.2024. It was graced by Mr. Rajesh Desai CEO, cofounder of Lyra network as the Chief Guest.





Electronics and Telecommunication ngineering Student Association organized a Quiz Competition aimed at promoting knowledge and a spirit of healthy competition among participants. The event was held on 26th, 27th & 30th of Sept. 2024 for 1st , 2nd and final rounds respectively. The competition attracted a diverse group of participants from various backgrounds.

Electronics Engineering Students Association (ETSA) organized PTA meeting on Saturday 28 Sept. 2024 from 9.30 am to 11.30am.





Electronics Engineering Students Association (ETSA) organized a Guest Lecture on "Advanced Embedded System and its Applications for the students of the department on 18th October 2024

Department of Computer Science and Engineering



Guest Lecture on Artificial Intelligence

- Speaker: Mr. Dattatray Kale
- Held on 27th November 2024
- Topics: AI concepts, applications, algorithms and its future scope
- Highlights: Interactive session with the questions of the students

Guest Lecture on Discrete Mathematical Structures (DMS)

- Speaker: Prof. Anisa B. Shikalgar
- Held on 18th November 2024
- Focus: Role of Discrete Mathematics in Computer Science
- Highlights: Engaging session with active student participation





Mystery Master - Treasure Hunt

- Organizer: Computer Society of India (CSI)
- Held on 10th October 2024
- Type: Quiz and Treasure Hunt
- Participants: 240 students with 60 teams from all the departments
- Objective: Test general knowledge, teamwork, and problemsolving skills
- Student Involvement: High energy, teamwork, enthusiastic participation

Exploring the World of Linux

- Organizer: TKIET Linux User Group (TLUG)
- Speakers: Mr. Lucky Nawale and Mr. Swaroop Wayadande
- Held on 9th October 2024
- Content: Introduction to Linux, GNU-Linux distributions, operating system basics
- Activities: Doubt session and online test



Pokhale, Maharashtra, India TIGIT Central Computing Facility (CCF), Pokhale, Maharashtra (16113, India Lat 36.854942* Long 74.396/794* 09/19/24 11:39 AM GMT +05:39

IoT Workshop

- Organizer: LogiCode (Coding Club of TKIET)
- Held on 28th September 2024
- Student Mentor: Mr. Gaurav Varnekar
- Participants: 65 students from all the departments
- Coordinator: Ms. Pallavi Dongare

Code Rangoli Competition

- Organizer: LogiCode (Coding Club of TKIET)
- Held on 8th October 2024
- Participants: 30 students from all the departments
- Evaluation by: Dr. Shivaleela Arlimatti and Prof. M. S. Bhosale (CSE dept.)



Think Code Win - Alpha

- Organizer:
 LogiCode (Coding Club of TKIET)
- Held on 14th November 2024
- Participants: 25 students from all the departments
- Focus: Logic, creativity, and efficiency in coding



Department of Mechanical Engineering

Inaugural function of MESA 2K24

The inaugural ceremony of the Mechanical Engineering Students Association (MESA) was held on October 7, 2024. The event served to encourage student participation in various technical and extracurricular initiatives. The ceremony was graced by the presence of Mr. B. S. Shimpukade, Chairman & Managing Director of Shimpukade Group of Companies, Gokul Shirgaon MIDC Kolhapur and Dr. V. V. Karjinni, CEO of Shree WaranaVibagh



Shikshan Mandal, Warananagar, Principal Dr. D. N. Mane, Dean SETM, Dr. S. M. Pise, Head of Mechanical Dr. P. V. Mulik, Academic Coordinator Mr. G. S. Kamble, MESA faculty advisor Mr. S. M. Gidaveer, all teaching, non-teaching staff and students were also present. The event was successfully completed by MESA under the guidance of Mr. S. M. Gidaveer.

Department of Civil Engineering



Walkathon Quality Run Celebration of World Standards Day

The World Standards Day Celebration at TKIET was held on 14/10/2024, by the Standards Club of TKIET (SC-9964) in association with the Bureau of Indian Standards (BIS). It was graced by the presence of esteemed chief guests Dr. N. S. Dharashivkar (Dean Students Affair), Dr. R.V. Kajave (Dean R&D), and Mr. S. M. Gidaveer (MESA faculty advisor). Mr. S. B. Patil, the

event coordinator, elaborated on BIS's efforts to educate the public about standards through student engagement. The audience was shown a BIS video featuring Mr. Pramod Kumar Tiwari (Director, BIS) and the "ManakGeet" (Standards Song). Thereafter, a quality pledge was administered in Hindi. As recognition, all the 130 student participants from the department received caps and badges from BIS.

Workshop on "Disaster Management of Flood in Western Maharashtra

A three days faculty development programme held on , "Disaster Management of Flood in Western Maharashtra" sponsored by AICTE VAANI SCHEME from Tuesday, 23rd July 2024 to Thursday, 25th July 2024. During these 3 days various resource persons shared their insights, real life scenarios, practical approach on Disaster Management. It was graced by guest of honor Hon. Shri Ajay Korane, President, Engineers and Architect Association, Kolhapur.





STTP on STAAD PRO and ETABS

In Collaboration with Civil Engineering Software Academy, Pune, organized two weeks STTP on Students Software Skill Enhancement Program on STAAD PRO and ETABS. This workshop was effectively held by Coordinator Prof. V. J. Yadav. It was inaugurated in the presence of Er. Rhishi Mugutkar software training Expert, Mr. Hitesh Lahoti, Chairman and Director, CESA Pune, Dr. D. M. Patil, HOD Civil Dr. R.V. Kajave Academic Coordinator & Prof. V. J. Yaday, Course Coordinator.

Department of Chemical Engineering

Workshop on 'Advance Excel - Level 2'

The Department of Chemical Engineering organized a two-day workshop titled 'Advance Excel - Level 2' on October 26th and 27th, 2024. It was held specifically for the second-year B.Tech. students guided by Mr. Ashok Sindkar, a certified Microsoft Excel expert from Nashik. The event was designed to enhance students' skills in Microsoft Excel including data analysis, complex functions, tables, graphs, and programming and equip them with



advanced data handling, analysis, and formatting techniques beneficial in academic and professional settings. The event was coordinated by Prof. V. A. Bhosale, Dr. P. B. Dehankar,

Applied Sciences and Humanities

DEEKSHARAMBH-Orientation & SIP

The inaugural function of the Student Induction Program (SIP) was held on September 11, 2024, warmly welcoming first-year students. Dr. Marku Monis, Coordinator of the Orientation Program, extended a heartfelt welcome, highlighting the importance of SIP in shaping academic and professional futures. High-achieving students, including 12 CET rankers, 5 first-year toppers, and 2 notable achievers, were honored for their excellence. Dr. A. V. Patil discussed the admission process and academic expectations, while Dr. P. J. Patil elaborated on departmental support for first-year students. Dr. S. M.



Pise guided students on career planning in engineering, and Dr. D. N. Mane inspired with insights into the institute's legacy and values. Guest of Honour Mr. Rajesh Desai emphasized skill development, while Chief Guest Mr. Sandeep Patil spoke on the scope of cyber security and legal tech. Dr. V. V. Karjinni shared the vision of Warana University. The event concluded with a vote of thanks by Dr. V. D. Patil, marking a successful start to the academic journey.



Art of Living as a life style

The sixth day of the Student Induction Program began with an insightful session graced by guest speakers Mr. Sanjay Gulbani and Dr. Radhika Korgaonkar, chaired by Prof. Dr. V. D. Patil. The speakers emphasized the significance of mind management and inner peace as key elements in achieving success in life and career. They discussed the "5 Cs of Success" and elaborated on the holistic concept of the "Art of Living," which encourages mindfulness, gratitude, and emotional balance through practices like meditation and yoga. Students were

engaged in activities that helped them understand spirituality and inner well-being. The session inspired students to lead a purposeful, resilient life guided by ethical values.

Teachers day Celebration

Teachers' Day was celebrated with great enthusiasm on 5th Sept.2024. The event began with garlanding the portrait Dr. Sarvepalli Radhakrishnan, Speeches were presented by students to express their gratitude and admiration for their teachers. Fun games and activities were also organized, creating a joyful and interactive atmosphere. The Principal and senior faculty members addressed the



gathering, emphasizing the importance of the teacher-student relationship in shaping future professionals. As a gesture of appreciation, roses were presented to teachers. The celebration concluded with a vote of thanks, leaving behind fond memories and a renewed sense of respect and connection between students and faculty.

Faculty Achievements



Ph D. Awarded

Mr. P. B. Dehankar from the department of Chemical Engineering has been awarded with Ph. D. on 17th Sept. 2024, from Visvesvaraya Technological University, Belagavi for his thesis entitled "Studies on Heat Transfer Characteristics by Inserting

Twisted Tape in Heat Exchanger", under the guidance of Dr. Keshava Joshi, SDM CET, Dharwad on 17th Sept. 2024.



Mr. Sajan Malviya, from the department of Civil Engineering has been awarded with Ph.D. on 1st Dec. 2024 from IIT, Kanpur, for his thesis entitled "Analysis of Ash-filled MSE walls".



Mr. Patnana Venkatesh, from the department of Civil Engineering has been awarded with Ph.D. 29th June 2024 from IIT, Kanpur, for his thesis entitled "Seismic Performance of Nonstructural Continuous-Plasterboard Suspended Ceiling Systems" Date of Award: 29th June 2024.

Ph D Registered

Prof. Amit S. Kharade, registered for Ph.D in Civil Engineering at Shivaji University, Kolhapur.

Prof. T.K.Shikalgar, registered for Ph.D in Civil Engineering at MIT-WPU, Pune.

Prof. S. S. Chavan, registered for Ph.D in Civil Engineering at Shivaji University, Kolhapur.

Patents:

- Dr . S. T. Jadhav has been granted with Patent for the invention entitled "Jaggery Adulteration Detection Device", International Patent Design number: 6388760, dated 30th September 2024
- Dr. R.V. Kajave has been granted with Patent for "Power operated grain collector with weighing bridge", Indian Patent design no.426084-001
- Mrs. P. P. Shirgaonkar has been granted with design patent on "Smart Portable Attendance Machine" on 11th July 2024.
- Dr. P. B. Dehankar & Prof. V. A. Bhosale, 'V- Notch Perforated Twisted Tape Heat Exchanger', Application No.414291-001 (published).
- Dr. (Mrs.) Shivleela Arlimatti has certificate of registration of design for "Arduino based fire detection device" on 21st August 2024.

Book Publication

 Dr. U.B. Deshannavar, Dr. S. A. Kadapure, Dr. V. V.Karjinni, Advanced Adsorption in Chemical Engineering: Novel Materials and Techniques for Sustainability, Asian Innovation and Research Library, Society for Asian Innovation and Research, NewtonGate LLC, USA, 2024,

- ISBN Number: 978-93-341-7315-4.
- Dr. S. T. Jadhav Published the textbook entitled "Advanced Image Processing Techniques", 1ST Edition, ISBN NO: 978-93-6132-223-5, Year of Allotment of ISBN: 2024, Scientific International Publishing House (SIPH), Registered under the Ministry of SME, Government of India. GSTIN: 33AKIPR5169F1ZY UDYAM-TN-25-000518
- Dr. P. B. Dehankar, Prof. V. A. Bhosale, Water Treatment Innovations: Chemical Solutions for Global Challenges, Scientific Publications, ISBN: 978-81-19359-17-2, 2024.
- Prof. Shilpa S. Patil , Dr. K. I. Patil, "SYNTHESIS OF MOF ADSORBENT" Selected as a Potential Book Chapter, Scientific Research, New Technologies and Applications, Sept 2024.

Notable Faculty Achievements

- Dr. R. B. Patil has received Best HOD of the year 2024 on 31st August 2024 under Computer Society of India Mumbai chapter.
- Mr. P.V. Lokhande has secured Best paper Award by Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara on 10-8-2024.

Paper Publications

- V. A. Bhosale, P. B. Dehankar, Advanced Design and Efficiency in Plate Type Heat Exchangers: Principles and Innovations, International Journal of Science, Engineering and Technology, ISSN: 2348-4098, Volume 12, Issue 5, 2024, PP 1-8.
- U. B. Deshannavar, S. A. Kadapure, Raffaello Possidente, Gianluca Gatto, Optimisation Studies on Performance Enhancement of Spray Cooling Machine Learning Approach, Case Studies in Thermal Engineering, ISSN: 2214-157X, Volume 64, 105422, 2024, PP 1-18.
- U. B. Deshannavar, Epoxy composite reinforced with Jute/Basalt Hybrid Characterisation and performance evaluation using Machine Learning Techniques, Composites Part C:, ISSN: 2666-6820, Volume. 14, 100453, 2024, PP 1-16.
- U. B. Deshannavar, Production of Fuel Oil from Waste Low Density Polyethylene, and it's Blends on Engine Performance Characteristics, Metallurgical and Materials Engineering, ISSN 2812-9105, Volume 30, Issue 2, 2024, PP 57-70.
- P. B. Dehankar, Twisted-Tape Inserts: A Method for Improving Heat Transfer Efficiency in Heat Exchangers, Jabirian Journal of Biointerface Research in Pharmaceutics and Applied Chemistry, ISSN: 2584-2536, Volume 1, Issue 5, 2024, PP 7-10.
- S. S. Patil, Cr(VI) Remediation with Economical Adsorbents: A Path to Environmental Sustainability, IJFMR, Volume 6, Issue 6, November-December 2024, PP 1-5.
- P. B. Dehankar, Optimizing Milling Parameters for Al7075/ nano SiC/TiC Hybrid Metal Matrix Composites using Taguchi Analysis and ANN Prediction, International Conference on Recent Advances in Waste Minimization & Utilization-2024, E3S Web of Conferences 556, 01021 (2024) ISSN: 2267-1242, Volume 1, Issue 5, 2024, PP 1-9.
- P. B. Kolekar, "Assessment of safety climate and health in construction sector", International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 06, Issue 10, October 2024, e-ISSN: 2582-5208
- Malviya, S, "Performance of a full-height panel MSE wall with pond ash backfill: Sensitivity analysis and Design Recommendations". International Journal of Geosynthetics and Ground Engineering, 2024. https://doi.org/10.1007/s40891-024-00542-6
- Malviya, S., "Seismic Performance Assessment of Ash-Filled MSE Walls", Indian Geotechnical Journal, 1-9,2024. https://doi.org/10.1007/ s40098-024-01061-x
- A. B. Patil, "A review on Assessment of Causes and Effects of Time and Cost Overruns on Housing Construction Project" published in International Research Journal of Engineering & Technology (IRJET), Volume. 11, Issue 07 July. 2024. (ISSN No. 2395 0056)
- A. B. Patil "Productivity Improvement in Construction Industry using Automation Technique" Project" published in POSITIF journal, Volume. 24, Issue 07 July.2024. (ISSN No. 0048 4911)
- Patnana, V., "Sub-Assemblage Testing and Fragility Analysis of Connections of Continuous Plasterboard Suspended Ceiling Systems," Earthquake Engineering and Structural Dynamics (EESD), 2024 (DOI: 10.1002/eqe.4262).
- Jain, S "A revisit to angularity measurement for aggregates", International Journal of Pavement Engineering, 25(1), 2024, 2427275.
- A. J. Shinde, Pramod V. Mulik, P. J. Patil and N. S. Dharashivkar, "Analysis of C.I. Wedge Sluice Gate Valve in the Static condition using Three-Dimensional Experimental Stress Analysis and Finite Element Analysis Techniques", International Journal of Research and Analytical Reviews, Volume 11, Issue 2, June 2024, pp.938-943 ISSN: 2348-1269.
- A. M. Patil, V. V. Patil, S. S. Patil, "Design & Development of New Technology added Landmine Detection Robot for Military Application", International Journal of Research and Analytical Reviews, Volume 11, Issue 3, July 2024, pp. 659-664, ISSN: 2348-1269.
- S. V. Lingaraju, M. R. Jadhav, M. S. Dhuttargaon, "Investigation on Tribological Behavior of Al7075-TiC/GrapheneNano-composite Using Taguchi Method", Journal of Bio- and Tribo-Corrosion, Volume 10, Issue 4, September 2024, pp. 1-13, ISSN: 2198-4239
- B. D. Mane, P.V. Mulik, P. J. Patil, "Synopsis on Experimental and Finite Element Analysis of Brake-Shoe", International Journal for Research in Applied Science & Engineering Technology, Volume 12, Issue IX, September 2024, pp. 1422-1426, ISSN: 2321-9653.
- Ajinkya Bansode, A. S. Todkar, P. J. Patil, P. V. Mulik, "Bending Stress Analysis of Asymmetrical Helical Gear", Journal of Emerging Technologies and Innovative Research (JETIR), Volume 11, Issue 9, September 2024, pp. 798-802, ISSN-2349-5162.
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- S. U. Desai, N. S. Dharashivkar, P. V. Mulik, P. J. Patil "The Flow Behavior Study of Graphene Reinforced ABS Material used for 3D Printing." International Journal of Research and Analytical Reviews, Volume 11, Issue 4, November 2024, pp. 2349-5138, ISSN: 2348-1269.
- S. V. Lingaraju, "Green metal matrix composites: a multi-faceted study on Al alloycomposites with egg shell powder and silicon carbideas reinforcements", Metallurgical Research & Technology, Volume 121, Issue 6, November 2024, pp. 1-12, ISSN: 2271-3646
- D. U. Chavan Published paper in Journal of Emerging Technologies and Innovative Research (JETIR)UGC Approved (Journal No: 63975) titled as "Voice Controlled with Obstacle Avoiding Robotic Vehicle" with Impact factor 7.95, page no.f327-f331, ISSN-2349-5162, in July 2024, Volume 11, Issue 7.
- P.V Lokhande Published paper on Review Paper on Multipurpose Agricultural Farming Machine used to enhance the Different Farming Operation for Indian Farmers International Journal of Engineering and Management Research, Vol. 14, Issue:6, pp. 11-14 Dec. 2024