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THE ZENITH

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TECHNICAL NEWS

A strange quantum effect could power future electronics

Researchers at Rice University and collaborating institutions have discovered direct evidence of active flat electronic bands in a kagome superconductor. This breakthrough could pave the way for new methods to design quantum materials -- including superconductors, topological insulators and spin-based electronics -- that could power future electronics and computing technologies. The study, published in *Nature Communications* Aug. 14, centers on the chromium-based kagome metal CsCr_3Sb_5 , which becomes superconducting under pressure.

Kagome metals, characterized by their two-dimensional lattices of corner-sharing triangles, have recently been predicted to host compact molecular orbitals, or standing-wave patterns of electrons that could potentially facilitate unconventional superconductivity and novel magnetic orders that can be made active by electron correlation effects. In most materials, these flat bands remain too far from active energy levels to have any significant impact; however, in CsCr_3Sb_5 , they are actively involved and directly influence the material's properties.

Pengcheng Dai, Ming Yi and Qimiao Si of Rice's Department of Physics and Astronomy and Smalley-Curl Institute, along with Di-Jing Huang of Taiwan's National Synchrotron Radiation Research Center, led the study.

"Our results confirm a surprising theoretical prediction and establish a pathway for engineering exotic superconductivity through chemical and structural control," said Dai, the Sam and Helen Worden Professor of Physics and Astronomy.

The finding provides experimental proof for ideas that had only existed in theoretical models. It also shows how the intricate geometry of kagome lattices can be used as a design tool for controlling the behavior of electrons in solids.

"By identifying active flat bands, we've demonstrated a direct connection between lattice geometry and emergent quantum states," said Yi, an associate professor of physics and astronomy.

The research team employed two advanced synchrotron techniques alongside theoretical modeling to investigate the presence of active standing-wave electron modes. They used angle-resolved photoemission spectroscopy (ARPES) to map electrons emitted under synchrotron light, revealing distinct signatures associated with compact molecular orbitals. Resonant inelastic X-ray scattering (RIXS) measured magnetic excitations linked to these electronic modes.

"The ARPES and RIXS results of our collaborative team give a consistent picture that flat bands here are not passive spectators but active participants in shaping the magnetic and electronic landscape," said Si, the Harry C. and Olga K. Wiess Professor of Physics and Astronomy, "This is amazing to see given that, until now, we were only able to see such features in abstract theoretical models."

Theoretical support was provided by analyzing the effect of strong correlations starting from a custom-built electronic lattice model, which replicated the observed features and guided the interpretation of results. Fang Xie, a Rice Academy Junior Fellow and co-first author, led that portion of the study.

Obtaining such precise data required unusually large and pure crystals of CsCr_3Sb_5 , synthesized using a refined method that produced samples 100 times larger than previous efforts, said Zehao Wang, a Rice graduate student and co-first author. The work underscores the potential of interdisciplinary research across fields of study, said Yucheng Guo, a Rice graduate student and co-first author who led the ARPES work.



he work underscores the potential of interdisciplinary research across fields of study, said Yucheng Guo, a Rice graduate student and co-first author who led the ARPES work.

"This work was possible due to the collaboration that consisted of materials design, synthesis, electron and magnetic spectroscopy characterization and theory," Guo said.

Co-authors from Rice include Yuefei Huang, Bin Gao, Ji Seop Oh, Han Wu, Zheng Ren, Yuan Fang, Yiming Wang, Ananya Biswas, Yichen Zhang, Ziqin Yue, Boris Yakobson and Junichiro Kono.

Other contributors include Hsiao-Yu Huang, Jun Okamoto, Ganesha Channagowdra, Atsushi Fujimori and Chien-Te Chen of Taiwan's National Synchrotron Radiation Research Center; Xingye Lu of Beijing Normal University; Zhaoyu Liu and Jiun-Haw Chu of the University of Washington; Cheng Hu, Chris Jozwiak, Aaron Bostwick and Eli Rotenberg of the Lawrence Berkeley National Laboratory; Makoto Hashimoto and Donghui Lu of the SLAC National Accelerator Laboratory; Robert Birgeneau of the University of California, Berkeley; and Guang-Han Cao of Zhejiang University.

The U.S. Department of Energy, Robert A. Welch Foundation, Gordon and Betty Moore Foundation, Air Force Office of Scientific Research, National Science Foundation and Vannevar Bush Faculty Fellowship program supported this study.

Source: ScienceDaily.com

Code to Click- Unfolding the Web Behind Screen

In a world where we spend more time online than anywhere else, every click we take, every scroll, tap, or interaction on a website is powered by a robust, invisible system: web development. It's the heart of the internet — the place where ideas meet execution, and creativity finds structure through code. What once started as simple, static pages has now come to be sophisticated, intelligent, and dynamic web applications that drive everything from your food ordering app to the digital classroom you're attending today.

Web development is not just the art of coding — it's a blend of design thinking, logic, and problem solving. It splits into two major parts: the frontend and the backend. The frontend is what we see — the buttons we press, the colors, the animations, the layouts. Technologies like HTML5, CSS3, and JavaScript are the fundamental building blocks here. But as user expectations increased, so did the toolset. Meet frameworks such as React.js, Vue.js, and Angular — which enable developers to build lightning-fast, scalable, and interactive user interfaces. Add libraries like GSAP for animations or Framer Motion for micro-interactions, and suddenly your site becomes not just functional, but also delightful.

But what happens behind the curtain? That's where the backend is — the logic, databases, APIs, and security. Whether it's handling form submissions, storing user data, or authenticating users, backend development makes the magic happen. Technologies like Node.js, Express, Django (Python), or Spring Boot (Java) form the backbone of web servers. Combine them with databases like MongoDB, MySQL, or PostgreSQL, and your app can handle thousands (even millions) of users in real time.

Ever wondered how your favorite site like Instagram or Spotify is able to host millions of users simultaneously without freezing? It's because of the backend architecture, which includes load balancing, caching mechanisms like Redis, message queues like RabbitMQ, and cloud deployments using AWS, Google Cloud, or Azure. Tools like Docker and Kubernetes help in containerization and orchestration, making sure apps run consistently across different environments and scale effortlessly.

And what about deployment? That's another thrilling part of the journey. Earlier, developers uploaded files manually using FTP. Now, we push code to GitHub and deploy within seconds using platforms like Netlify, Vercel, Render, etc. Continuous Integration/Continuous Deployment (CI/CD) pipelines using tools like GitHub Actions, Jenkins, or CircleCI ensure that new updates are rolled out smoothly without breaking existing features.

But perhaps the most inspiring part of web development is its real-world impact. It enables a small town student to launch their portfolio and get discovered by global recruiters. It helps NGOs run awareness campaigns that reach millions. It allows e-commerce brands to reach customers beyond borders and offers real-me experiences like online classes, multiplayer games, virtual events, and collaborative tools like Google Docs and Figma.

As web technologies evolve, we're stepping into a new era. Progressive Web Apps (PWAs) now work offline and feel like native mobile apps. WebAssembly (WASM) enables running heavy, performance intensive code in the browser. AI and ML integrations allow real-time personalization — like chatbots that respond instantly or recommendation engines that learn your preferences. With WebRTC, real-me video/audio communication directly from the browser is possible, which powers platforms like Google Meet and Zoom.

Web development is also becoming more inclusive and accessible. Testing tools like Lighthouse, Wave, and axe help developers ensure their websites are usable by people with disabilities. The rise of no-code and low-code platforms like Webflow and Bubble is lowering the entry barrier, allowing non-tech users to build robust applications.

Looking ahead, the future of web development is incredibly promising. With the rise of Web3, blockchain integrations, and decentralized apps (dApps), developers now have the power to reshape how data and identities are managed online. Combine that with trends like serverless architecture, edge computing, headless CMSs (like Strapi or Sanity), and micro frontends, and you're looking at a landscape that's becoming modular, fast, and limitless.

So why should we choose web development? Because it empowers you to create, impact, and innovate. It doesn't matter if you start with a simple landing page — that's your first step into a universe where you can build your own startup, contribute to open-source projects, or freelance for clients around the world. All you need is curiosity, consistency, and a laptop.

Behind every polished website lies sleepless nights, broken code, bugs that made us pull our hair out, and eventually — the pride of something working perfectly. That joy, that moment of success, is what web developers live for.

Author Bio:

I'm Darshan Khute, an engineering student specializing in Electronics and Telecommunication (ENTC), with a deep interest in the world of web development. While rooted in core electronics and communication concepts, I've always been drawn to the creative and problem-solving aspects of building for the web. Over time, I've explored the MERN stack (MongoDB, Express.js, React.js, and Node.js) to craft user-centric web applications that merge design, functionality, and performance. My journey bridges both physical systems and digital interfaces, reflecting how today's engineers must be fluent in both hardware and software to innovate for tomorrow.

Message from the Author:

Whether you're an engineering student, a tech enthusiast, or someone who simply enjoys building things, web development has something for you. Start small, stay consistent, and embrace the process. Because in the world of code, every error brings you one step closer to innovation. Let's keep building the future.



Darshan Khute
BE ENTC

EXPERT LECTURES / SEMINARS / COURSES ORGANISED

Seminar on Career Opportunities in Industrial Automation by Career Development Cell

An Expert Talk on “Higher Education and Career Opportunities Abroad” was organized on 18th July 2025 from 1:00 pm to 2:00 pm. The session was delivered by Mr. Shreyas Mahajn, Managing Partner at Study Smart Overseas Education, Nashik.

Mr. Mahajn shared valuable insights on pursuing higher education overseas, the application process, scholarship opportunities, and the wide range of career prospects available for students in different countries. The interactive session helped students gain clarity about future pathways and motivated them to explore global opportunities in academics and professional growth.

The poster is for a seminar organized by the Career Development Cell of the Department of Electronics & Telecommunication Engineering at K. K. Wagh Institute of Engineering Education and Research, Nashik. It features a circular portrait of Mr. Shreyas Mahajan, Managing Partner at Study Smart Overseas Education - Nashik Division. The text includes the institute's name, website (www.engg.kkwagh.edu.in), affiliation with SPPU, and the seminar details: On 18th July 2025, From: 01:00 pm to 02:00 pm, Venue: AV Hall, E&TC Department, Attendees: Final Year (E&TC) Students. Accreditation logos for NEA, NAAC, and AICTE are also present.

K. K. Wagh Education Society's
**K. K. Wagh Institute of
Engineering Education and Research, Nashik**
Website: www.engg.kkwagh.edu.in
(An Autonomous College from A.Y.2022-23, Affiliated with SPPU)
Department of Electronics & Telecommunication Engineering
Career Development Cell
Organizes Seminar on
**“Higher Education & Career
Opportunities ABROAD”**

Mr. Shreyas Mahajan
Managing partner at Study Smart
Overseas Education - Nashik Division

On 18th July 2025, From: 01:00 pm to 02:00 pm
Venue: AV Hall, E&TC Department
Attendees: Final Year (E&TC) Students

Dr. S. A. Patil (Ugale)
HOD (E&TC)

Dr. K. H. Nandurkar
Director

Expert Lectures / Seminars / Courses organised

Expert Talk on Different Types of Cyber Crime

An Expert Talk on “Different Types of Cyber Crime” was organized on 21st July 2025 from 10:00 am to 12:30 pm. The session was conducted by Mrs. Dilpal Rana, Advisor at Cyber Sanskar, Nashik.

Mrs. Rana enlightened the students about various forms of cybercrime, their impact on individuals and society, and preventive measures to ensure digital safety. The talk proved to be highly informative and created awareness about responsible use of technology.

The poster is for an expert talk organized by K. K. Wagh Education Society's K. K. Wagh Institute of Engineering Education and Research, Nashik. It features a portrait of Mr. Dilpal Rana, Advisor at Cyber Sanskar, Nashik. The event is titled "Different Types of Cyber Crime" and is scheduled for 21st July 2025, from 10:25 am to 12:15 pm. The venue is AV Hall, E&TC Department, 3rd Floor, and attendees are SY B.Tech A & B Div. Students. The poster also includes logos for NBA, AACSB, and IETE, and mentions the Department of Electronics & Telecommunication Engineering in collaboration with IETE. The organizers are Dr. S. A. Patil (Ugale), HOD, E & TC Engg., and Dr. K. N. Nandurkar, Director KKWIEER.

K. K. Wagh Education Society's
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Engineering Education and Research, Nashik**
Website: www.engg.kkwagh.edu.in
(An Autonomous Institute from A.Y – 2022-2023)

**Department of Electronics & Telecommunication Engineering
in collaboration with IETE**

Organizes
Expert Talk on

Different Types of Cyber Crime

Mr. Dilpal Rana
Advisor at Cyber Sanskar, Nashik

NBA
NATIONAL BOARD
ACCREDITED

AACSB
ACCREDITED BY AACSB

IETE
INSTITUTE OF ENGINEERS
& TECHNOLOGISTS

on 21st July 2025, From: 10.25 am to 12.15 pm
Venue: AV Hall, E&TC Department, 3rd Floor, Attendees: SY B.Tech A & B Div. Students

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director KKWIEER

Expert Lectures / Seminars / Courses organised

Expert Talk on Empowering Innovation Through IPR

An expert talk on Empowering Innovation through IPR : A Legal Perspective by Dr. Raosaheb Yashwant Ghegade, HoD, Associate Professor & IP Officer, Nashik on 24th July 2025 from 10:00 am to 12:30 pm.

K. K. Wagh Education Society's
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(An Autonomous Institute from A.Y - 2022-2023)

Department of Electronics & Telecommunication Engineering
in collaboration with IETE

Organises expert talk on
"Empowering Innovation Through IPR : A Legal Perspective"

Dr. Raosaheb Ghegade
HOD, Associate Professor, IP Officer.

On 24th July, from: 10:00 am
Venue: AV Hall ,E&TC Department ,3rd Floor Attendance: TY B.Tech A & B Div: Students

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Mandurkar
Director KKWIEER

The same expert talk on "Empowering Innovation through IPR: A Legal Perspective" was again delivered by Dr. Raosaheb Yashwant Ghegade on 24th July 2025, from 1:00 pm to 3:00 pm, this time for SY A & B students.

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Department of Electronics & Telecommunication Engineering
in collaboration with IETE

Organises expert talk on
"Empowering Innovation Through IPR : A Legal Perspective"

Dr. Raosaheb Ghegade
HOD, Associate Professor, IP Officer.

On 24th July, from: 12:00 pm
Venue: AV Hall ,E&TC Department ,3rd Floor Attendance: SY B.Tech A & B Div: Students

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Mandurkar
Director KKWIEER

Expert Lectures / Seminars / Courses organised

Expert Talk on “Applications of Data Science and Machine Learning

A Seminar on “Applications of Data Science and Machine Learning” was organized on 26th July 2025 from 10:00 am to 1:00 pm for TY A & B students. The session was delivered by Mr. Shrikant Gond, Technology Lead at Avalara Inc.

Mr. Gond provided in-depth insights into the practical applications of data science and machine learning across various industries. He explained how these technologies are transforming business processes, decision-making, and innovation in the modern world. The seminar also highlighted real-life case studies and future opportunities in this rapidly growing field, leaving students inspired to enhance their technical knowledge and explore career prospects in data-driven domains.

The poster is for a seminar titled "Applications of Data Science and Machine Learning" organized by the Department of Electronics & Telecommunication Engineering at K. K. Wagh Institute of Engineering Education and Research, Nashik. The speaker is Mr. Shrikant Gond, Technology Lead at Avalara Inc. The event is scheduled for July 26, 2025, from 10:00 am onwards at the AV Hall, E&TC Department, KKWIEER. The poster includes logos for the institute, IETE, and various accreditation bodies like NBA, AACSB, and AICTE. It also lists the co-ordinator and the director.

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Department of Electronics & Telecommunication Engineering
in collaboration with IETE

Organizes Expert Talk On

Applications of Data Science and Machine learning

Mr. Shrikant Gond
(Technology Lead)

On 26th July, 2025 From 10.00 am onwards
Venue: AV Hall, E&TC Department, KKWIEER
Attendees: TY-B.Tech-A&B Div.

Dr. Anshu A. Gupta
Mrs. Vaishali D. Saudagar
Co-ordinator

Dr. S. A. Patil (Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director

Expert Lectures / Seminars / Courses organised

Expert Talk on Cyber Security Tools

An Expert Session on “Cyber Security Tools” was conducted on 28th July 2025 from 10:00 am to 1:00 pm for SY A & B and TY A & B students. The session was delivered by Mr. Tanmay Diksheets, Cyber Consultant & Security Researcher at Cyber Sanskar, Nashik.

Mr. Diksheets introduced students to various cybersecurity tools and their applications in detecting, analyzing, and preventing cyber threats. He also shared real-world insights into the importance of cybersecurity in today’s digital era and emphasized safe practices for individuals and organizations. The session proved highly interactive and helped students gain practical knowledge of tools used in the cybersecurity domain.

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**Department of Electronics & Telecommunication Engineering
in collaboration with IETE**

Organizes
expert talk on
Cyber Security Tools

Mr. Tanmay Diksheets
(Cyber consultant, Security Researcher)

**Day & Date : 28/7/2025 , Monday , Venue: AV Hall
Time: 10 to 3 , Attendees : TY b.tech (A&B div)**

Dr. S.A.Patil (Ugale)
HOD , E & TC Engg

Dr. K . N . Nandurkar
Director KKWIEER

Expert Lectures / Seminars / Courses organised

Expert Session on Design for Testability and Modern VLSI Testing

A Session on “Design for Testability and Modern VLSI Techniques” was conducted on 30th July 2025 from 10:00 am to 12:30 pm for Final Year A & B students. The session was delivered by Mr. Om Aher, MS – VLSI Design, Los Angeles, USA.

Mr. Aher provided deep insights into advanced concepts of VLSI design, emphasizing design for testability, modern methodologies, and industry practices. He also discussed the global scope of VLSI and its impact on semiconductor technology. The session helped students strengthen their technical foundation while motivating them to pursue higher studies and careers in the field of VLSI design.

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(An Autonomous Institute from A.Y – 2022-2023)

Department of Electronics & Telecommunication Engineering
in collaboration with IETE

Organises expert talk on
**"Design for Testability and Modern
VLSI Testing"**

Mr. Om Ravindra Aher
MS, Electrical Engineering (VLSI Design),
(Los Angeles, USA)

On 30th July, from: 10:30am to 12.30pm
Venue: AV Hall, E&TC Department, 3rd Floor

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director KKWIEER

Experi Lectures / Seminars / Courses organised

Panel Discussion on Scope and Career opportunities in Electronics and Telecommunication Engineering

A Panel Discussion on “Scope and Career Opportunities in Electronics and Telecommunication Engineering” was held on 19th July 2025 at 1:00 pm.

The discussion brought together experienced academicians and industry experts who shared their knowledge on the emerging trends, higher education prospects, and career opportunities in the field of Electronics and Telecommunication Engineering. The session encouraged students to explore diverse pathways ranging from core technical roles to interdisciplinary domains, helping them gain a broader perspective about their future in this dynamic discipline.

The poster is for a panel discussion organized by K. K. Wagh Education Society's K. K. Wagh Institute of Engineering Education and Research, Nashik. It features six panelists: Mr. Nikan Salgaonkar, Dr. Shrinivas V. Mulejani, Mr. A. B. Chandrasekhar, Mr. Sachin Kulkarni, Mr. Jagdish Ugale, and Mr. Abhinav Mhaske. The event is on July 19, 2025, at 1:00 pm. It includes Zoom meeting details and accreditation logos for NEA and AACSB.

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Department of Electronics & Telecommunication Engineering
in collaboration with IETE
Organizes Panel Discussion on

Our Eminent Panelist

- Mr. Nikan Salgaonkar
Senior & Associate Prof.
Nashik College of Engineering, Nashik
- Dr. Shrinivas V. Mulejani
PhD, M.Tech, MCA, MCAI
Senior Lecturer, PCCOE, Nashik
- Mr. A. B. Chandrasekhar
MCA, MCAI, MCAIIT, MCAIIT
Senior Lecturer, PCCOE, Nashik
- Mr. Sachin Kulkarni
Senior and Project Engineer
Nashik, Nashik
- Mr. Jagdish Ugale
PhD, M.Tech, MCAI
Senior & Project Engineer, Nashik
- Mr. Abhinav Mhaske
Senior Lecturer of Cambridge
University (PhD, M.Tech)

“Scope & Career Opportunities in Electronics & Telecommunication Engineering”

Date: 19th July 2025, Time: 01:00 pm
Join Zoom Meeting
<https://us06web.zoom.us/j/6135960075?pwd=7uASxvztK6yj4ypopiGuOKdpaNyaG.1&omn=83689707040>
Meeting ID : 613 596 0075 Passcode: 123

For Admission Related Enquiries,
Please contact:
Dr. S. S. Morade
Mob. 9423173692
Prof. Swanand Dongare
Mob. 9021485305

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IETE

Dr. S. A. Patil (Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director, KKMIEER, Nashik

Er. Sameer B. Wagh
Chairman, K.K. Wagh Education Society, Nashik

Experi Lectures / Seminars / Courses organised

FDP/STTP/Workshop attended by faculty

Mrs. S. V. Shelke participated in a 5-day Faculty Development Program (FDP) on “GEN AI with LLM” held from 7th July to 11th July 2025.

The FDP provided in-depth knowledge of Generative AI and Large Language Models (LLMs), covering their applications, underlying technologies, and potential impact across various domains. Mrs. Shelke’s participation highlights the faculty’s commitment to staying updated with emerging technologies and enhancing academic expertise.



Expert Lectures / Seminars / Courses organised

Expert Talk on Real-Life Applications of Electromagnetics in Science and Technology

An Expert Talk on “Real-Life Applications of Electromagnetics in Science and Technology” was delivered on 1st August 2025 from 1:00 pm to 2:00 pm for TY A & B students. The session was conducted by Mr. Ashish Mhaske, Researcher at Cambridge University (Radio Astronomy).

Mr. Mhaske highlighted the practical applications of electromagnetics in modern science and technology, including innovations in communication systems, medical imaging, and radio astronomy. The interactive session helped students understand the relevance of theoretical concepts in real-world scientific and technological advancements, inspiring them to explore research opportunities in the field.

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**Department of Electronics & Telecommunication Engineering
in collaboration with IETE**

Organises expert talk on
**"Real-Life Applications of Electromagnetics in
Science and Technology"**

Mr. Ashish Mhaske
Research Scholar at Cambridge University
(Radio Astronomy)

NBA
ACCREDITED TO NBA

AICTE
ACCREDITED TO AICTE

ACIS
ACCREDITED TO ACIS

On 1st August, from: 1:00pm to 2.00pm
Venue: AV Hall ,E&TC Department ,3rd Floor Attendees: TYBtech(A & B)

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director KKWIEER

Expert Lectures / Seminars / Courses organised

Expert Talk on Electronics in Industry: Current Applications and Future Potential

A Session on “Electronics in Industry: Current Applications and Future Potential” was conducted on 2nd August 2025 from 2:00 pm to 4:00 pm for SY A & B students. The session was delivered by Mr. Anand Bhavsar, R&D Manager and Trainer at Elite Technologies.

Mr. Bhavsar provided insights into the practical applications of electronics across various industries, highlighting emerging trends, technological innovations, and future opportunities in the field. The session offered students a clear understanding of how academic concepts translate into real-world industrial solutions and inspired them to explore career paths in electronics and R&D.



The poster is for an expert talk organized by K. K. Wagh Institute of Engineering Education and Research, Nashik. It features a portrait of Mr. Anand Bhavsar, the speaker. The event is titled "Electronics in Industry: Current Applications and Future Potential" and is held on August 2nd, 2025, from 1:00 PM to 3:00 PM in AV Hall, E&TC Department, 3rd Floor. The poster also lists the HOD, Dr. S. A. Patil (Ugale), and the Director, Dr. K. N. Nandurkar. Logos for NBA, AACSB, and AICTE are displayed.

K. K. Wagh Education Society's
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**Department of Electronics & Telecommunication Engineering
in collaboration with IETE**

Organises expert talk on
" **Electronics in Industry: Current Applications
and Future Potential** "

Mr. ANAND BHAVSAR

On 2nd August, from: 1:00Pm to 3.00pm
Venue: AV Hall ,E&TC Department ,3rd Floor Attendees: SY Btech(A & B)

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director KKWIEER

Expert Lectures / Seminars / Courses organised

Expert Talk on Applications of Data Science and Machine Learning

An Expert Talk on “Applications of Data Science and Machine Learning” was conducted on 23rd August 2025 from 1:00 pm to 3:00 pm for SY A & B students. The session was delivered by Mr. Kiran Navale, Subject Matter Expert at L&T Edutech, Nashik.

Mr. Navale focused on the practical applications of Artificial Intelligence and Machine Learning using modern tools and techniques. The session provided students with hands-on insights into how AI and ML are transforming industries, helping them understand real-world problem-solving and inspiring them to explore careers in data-driven technologies.

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Department of Electronics & Telecommunication Engineering
in collaboration with IETE

Organises expert talk on
" Python and its applications "

Mr. KIRAN NAVALE
(Subject Matter Expert, L&T Edutech)

On 23rd August, from: 1:00pm to 3.00pm
Venue: AV Hall ,E&TC Department, 3rd Floor Attendees: SY Btech(A & B)

Dr. S. A. Patil(Ugale)
HOD, E & TC Engg.

Dr. K. N. Nandurkar
Director KKWIEER

Experi Lectures / Seminars / Courses organised

FDP/STTP/Workshop attended by faculty

The Department of Electronics and Telecommunication Engineering at K K Wagh Institute of Engineering Education & Research, Nashik, has been awarded a Certificate of Appreciation by MathWorks India for its exceptional contribution towards integrating advanced computational tools in education and research.



CAMPUS PLACEMENTS / ACHIEVEMENTS

4 Students Placed at Mahindra & Mahindra



We are proud to announce that 4 students from the Electronics & Telecommunication Engineering (E&TC) department have been placed at Mahindra & Mahindra with a package of ₹4.2 LPA.

Selected Students:

1. **Abhishek Tushar Chaudhari**
2. **Anushka Ravindra Badakh**
3. **Bhavika Santosh Pawar**
4. **Janhavi Popat Pawar**

This achievement reflects the department's commitment to excellence and the students' consistent hard work and determination.

CAMPUS PLACEMENTS / ACHIEVEMENTS

Felicitation of Alumni:

One of our esteemed alumni, Ms. Shital Shinde, was felicitated for her remarkable contribution to WAVES 2025. Her dedication and achievements were recognized and celebrated, inspiring current students to actively participate in college events and strive for excellence.

- 'एआय थ्री डी अवतार' ने चेन्नई परिषदेत वेधले तस
- भारतीयल सर्व भाषांमध्ये संवाद साधण्याची क्षमता
- नाशिकच्या तरुणीचे पंतप्रधान मोदींकडून कौतुक

म. टा. 'ख़ास प्रतिनिधी', नाशिक

मुंबईत मुकल्याच घार पडलेल्या आणि ९० देशांमधील दहा हजार प्रतिनिधींचा सहभाग असलेल्या वेद्वन शिखर परिषदेत नाशिकच्या शीतल शिंदेने सादर केलेल्या 'सान्नी' या 'एआय अवतार' ने सुवर्णपदकासह एक लाख रुपये रोख व प्रमाणपत्र पटकावले.

प्रसिद्ध अभिनेते अजिंक्यने नागार्जुन राव याच्या हस्ते शीतलला सम्मानित करण्यात आले. चित्रपट महानने पंतप्रधान नरेंद्र मोदी वंच्यासह संवाद साधण्याची संधीही यावेळी

शीतलच्या 'सान्नी'ने पटकावले सुवर्णपदक

मिळाल्याची माहिती शीतल शिंदेने अजिंक्य ऑनॅलिमेशन येथे झालेल्या पत्रकार परिषदेत दिली. भारत सरकारच्या माहिती व प्रबोधन मंत्रालयाद्वारे एआय अवतार सेलेब्रिटीसमध्ये आयोजन करण्यात आले होते. एक हजार निवृत्ती, ३०० कंपन्या आणि ३५० टून अधिक स्टार्टअप्स यांनी आपले नवकल्पनांचे आवरण केले. यामध्ये एआय अवतार सेलेब्रिटीमध्ये नाशिकच्या शीतल शिंदे हिने तिच्या डिजिटल इन्व्हेन्शियनद्वारे 'सान्नी'चे प्रात्यक्षिक सादर केले. याकायत माहिती देताना शीतल म्हणली की, तंत्रज्ञान आणि संस्कृती यांच्यातील दुरी भरून काढण्यासाठी मी ऑटोमिशन इंटेलिजन्सचा वापर करून 'सान्नी' हा थ्री डी डिजिटल अवतार तयार केला आहे.



“मी व्हायफूफॉक्स इंडस्ट्रीमध्ये काम करत होते. वेगळ्यामध्ये सहा वर्षे काम केल्यानंतर नोकरी सोडून मी नाशिकला आले. कचेरतेही प्रशिक्षण न घेता मी स्वतःच एआय टूल्स वापरायला शिकले. या काळात मी क्वचित एआय थिअरपट्टी बनविले, ज्यांचे परदेशात कौतुक झाले. हे करतातानाच 'सान्नी' हा डिजिटल एआय अवतार बनविला.

— शीतल शिंदे, एआय डिजिटल क्रिएटर

एआय तंत्रज्ञान आल्यामुळे नोकऱ्या कमी होतील, अशी सर्वत्र चर्चा आहे. प्रत्यक्षात मात्र या नवीन तंत्रज्ञानामध्ये नवकल्पनांचा वापर करून नोकरीच्या अनेक संधी उपलब्ध होत आहेत. त्यामुळे या नवीन तंत्रज्ञानाचेरचच वेगवेगळी कोशाचे विश्वाच्यांनी आत्मसात केलेली पाहिले.

— माधवी घमासिया, संघाला, ऑनॅलिमेशन

भारतातील सर्व भाषांमध्ये संवाद साधू शकणारा हा एआय अवतार आहे. नाशिकच्या के. के. घाय

अभियंतेने महाविद्यालयातून इलेक्ट्रॉनिक्स आणि कम्प्युटिंग विभागातून

करणे पहा वर्षे व्हायफूफॉक्स इंडस्ट्रीमध्ये मुंबई, हैदराबाद, बेंगळूर येथे शीतलने काम केले आहे.

CAMPUS PLACEMENTS / ACHIEVEMENTS

Aryan Bhanuse Achieves Top Rank in ABB Live Project 2025–26 Selection

Aryan Bhanuse from the Electronics & Telecommunication Department has been selected among the top five students for the prestigious ABB Live Project 2025–26. This achievement highlights his exceptional skills and dedication, serving as an inspiration for his peers.



CAMPUS PLACEMENTS / ACHIEVEMENTS

2 Students Placed at Schneider Electric



We are proud to announce that 2 students from the Electronics & Telecommunication Engineering (E&TC) department have been placed at Schneider Electric with a package of ₹5.5 LPA.

Selected Students:

1. Sakshi Suresh Gharate
2. Bhagyashri Kishor Gadekar

This achievement reflects the department's commitment to excellence and the students' consistent hard work and determination.

CAMPUS PLACEMENTS / ACHIEVEMENTS

6 Students Placed at Kimbal Private Limited



We are proud to announce that 5 students from the Electronics & Telecommunication Engineering (E&TC) department have been placed at Kimbal Private Limited with a package of ₹6 LPA.

Selected Students:

1. Amruta Amarchand Dhalkari
2. Atharva Rajendra Kale
3. Jidnya Nitin Pagare
4. Kaveri Vilas Wagh
5. Tejaswini Adhar Patil

This achievement reflects the department's commitment to excellence and the students' consistent hard work and determination.

CAMPUS PLACEMENTS / ACHIEVEMENTS

4 Students Placed at Mahindra & Mahindra



We are proud to announce that 1 students from the Electronics & Telecommunication Engineering (E&TC) department have been placed at Jayesh Pundalik Chavan with a package of ₹3-4 LPA.

Selected Students:

1. Jayesh Pundalik Chavan

This achievement reflects the department's commitment to excellence and the students' consistent hard work and determination.

VISION & MISSION



VISION

Excel in quality technical education and research in Electronics and Telecommunication (E&TC) Engineering for sustainable solution development for industry and betterment of society.

MISSION

M 1: To provide quality education for the preparation of technically and professionally competent E&TC engineers.

M 2: To create an environment to enhance life-long learning and 21st century skills

M 3: To inspire students' innovative thinking and creativity to promote research culture.

MEET OUR TEAM

FACULTY ADVISOR

Prof. S. D. Raut

STUDENTS FROM THIRD YEAR

Sayali Patil
[TY - A]

Anushka Patil
[TY - A]

Aryan Bhanuse
[TY - A]

Vedant Gangurde
[TY - A]

Ankit Mansotra
[TY - A]

Atharva Paranjpe
[TY - A]

Chaitanya Patil
[TY - A]

Amaan Sayyed
[TY - A]

Narayan Bhute
[TY - A]

Siddharth Pingle
[TY - A]

Anurag Mohad
[TY - B]

THE ZENITH

"Believe you can and you're
halfway there."

– Theodore Roosevelt



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Research, Nashik**

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