

# The Zenith

*January, 2023*

*Volume 6, Issue 1*



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# FY B. Tech Induction Programme

## Highlights of FY B. Tech induction program







# Recycled gold from SIM cards could help make drugs more sustainable

Researchers have used gold extracted from electronic waste as catalysts for reactions that could be applied to making medicines.

Re-using gold from electronic waste prevents it from being lost to landfill, and using this reclaimed gold for drug manufacture reduces the need to mine new materials. Current catalysts are often made of rare metals, which are extracted using expensive, energy-intensive and damaging mining processes.

The method for extracting gold was developed by researchers at the University of Cagliari in Italy and the process for using the recovered gold was developed by researchers at Imperial College London. The study is published in *ACS Sustainable Chemistry & Engineering*.

Waste electrical and electronic equipment (WEEE) is typically sent to landfill, as separating and extracting the components requires a lot of energy and harsh chemicals, undermining its economic viability. However, WEEE contains a wealth of metals that could be used in a range of new products.

Finding ways to recover and use these metals in a low-cost, low-energy and non-toxic way is therefore crucial for making our use of electronic goods more sustainable.

Lead researcher Professor James Wilton-Ely, from the Department of Chemistry at Imperial, said: "It is shocking that most of our electronic waste goes to landfill and this is the opposite of what we should be doing to curate our precious elemental resources. Our approach aims to reduce the waste already within our communities and make it a valuable resource for new catalysts, thereby also reducing our dependence on environmentally damaging mining practices."

"We are currently paying to get rid of electronic waste, but processes like ours can help reframe this 'waste' as a resource. Even SIM cards, which we routinely discard, have a value and can be used to reduce reliance on mining and this approach has the potential to improve the sustainability of processes such as drug manufacture."

Professors Angela Serpe and Paola Deplano, from the University of Cagliari, developed a low-cost way to extract gold and other valued metals from electronic waste such as printed circuit boards (PCBs), SIM cards and printer cartridges under mild conditions. This patented process involves selective steps for the sustainable leaching and recovery of base metals like nickel, then copper, silver and, finally, gold, using green and safe reagents.

However, the gold produced from this process is part of a molecular compound and so cannot be re-used again for electronics without investing a lot more energy to obtain the gold metal. Seeking a

use for this compound of recovered gold, the team of Professor Wilton-Ely and his colleague, Professor Chris Braddock, investigated whether it could be applied as a catalyst in the manufacture of useful compounds, including pharmaceutical intermediates.

Catalysts are used to increase the rate of a chemical reaction while remaining unchanged and are used in most processes to produce materials. The team tested the gold compound in a number of reactions commonly used in pharmaceutical manufacture, for example for making anti-inflammatory and pain-relief drugs.

They found that the gold compound performed as well, or better, than the currently used catalysts, and is also reusable, further improving its sustainability.

The researchers suggest that making it economically viable to recover gold from electronic waste could create spin-off uses for other components recovered in the process. For example, in the process, copper and nickel are also separated out, as is the plastic itself, with all these components potentially being used in new products.

Sean McCarthy, the PhD student leading the research in the lab at Imperial, said: "By weight, a computer contains far more precious metals than mined ore, providing a concentrated source of these metals in an 'urban mine'."

Professor Serpe said: "Research like ours aims to contribute to the cost-effective and sustainable recovery of metals by building a bridge between the supply of precious metals from scrap and industrial demand, bypassing the use of virgin raw materials."

The teams are working to extend this approach to the recovery and re-use of the palladium content of end-of-life automotive catalytic converters. This is particularly pressing as palladium is widely used in catalysis and is even more expensive than gold.

*Source: [www.sciencedaily.com](http://www.sciencedaily.com)*

## Expert Lecture/Seminars/Courses Organized

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized webinar on "Entrepreneurship- Primary Wealth Creation" by Mr. Vishal Jategaonkar (Centre Director, T.I.M.E. Nashik BoS member for KKWIEER and also KKW College of Management) on 5<sup>th</sup> November 2022.

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

Expert Talk on  
**"Entrepreneurship - Primary Wealth Creation"**  
by  
**Mr. Vishal Jategaonkar**  
(Centre Director, T.I.M.E. Nashik & Nashik Road Training, BOS Member for KKW college of engineering and also on KKW College of Management.)

On 5<sup>th</sup> Nov, 2022 From 1:00 pm to 03:00 PM  
Venue: AV hall , Third floor, E&TC Department ,KKWIEER

Dr. S. A. Patil (Ugale) U.G. Co-ordinator  
Dr. D. M. Chandwadkar Dean, Student Affairs, HOD, E & TC Engg.  
Dr. K. N. Nandurkar Principal

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized webinar on "Technical English for Engineers" by Er. Khushrow Irani Technical Skills Trainer on 12<sup>th</sup> November 2022.

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**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
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Department of Electronics & Telecommunication Engineering  
In Collaboration with IETE Nashik Sub-Center  
Organizes

Expert Talk On  
**"Technical English for Engineers"**  
By  
**Er. Khushrow Irani**  
Technical Skills Trainer

On 12th November 2022, 10.15 AM to 12.15 PM  
Venue: AV hall 3rd Floor Dept. of E&TC

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized One day workshop on "The

art of reading people: Body Language Training " by Mr. Mr. Vishal Jategaonkar, Centre Director, T.I.M.E. Nashik BoS member for KKWIEER and also KKW College of Management (Software Developer and Automation Engineer, Freestone Infotech Pvt. Ltd.) on 12<sup>th</sup> November 2022.

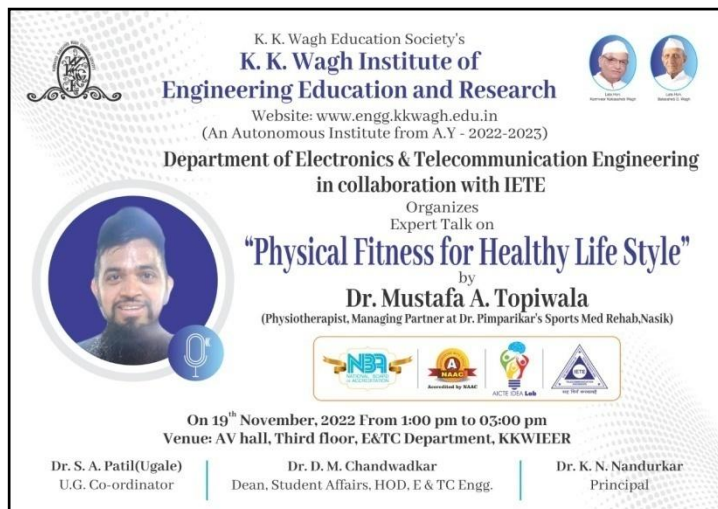


- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized workshop on "Professional Practices & Ethics in Engineering" by Er. Sanjay Kale, Softskills Trainer & Counselor (Specialized in Psychiatry) on 19<sup>th</sup> November 2022.



- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers

(SAEE) in collaboration with IETE Nashik subcenter organized workshop on “Physical Fitness for Healthy Life Style” on 19<sup>th</sup> November 2022.



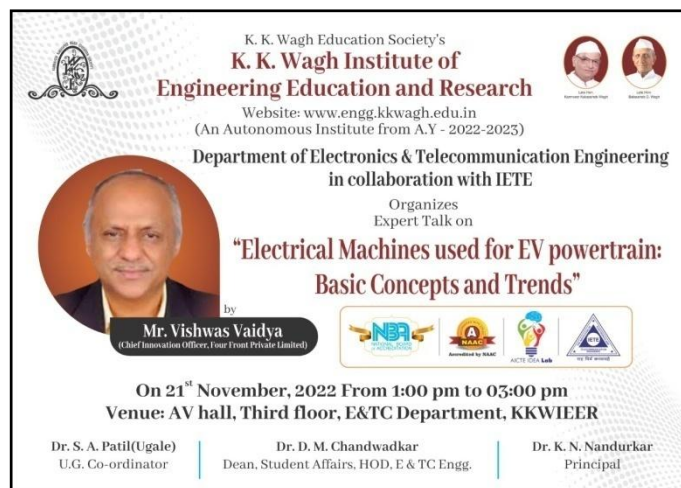
K. K. Wagh Education Society's  
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Department of Electronics & Telecommunication Engineering  
in collaboration with IETE  
Organizes  
Expert Talk on  
**“Physical Fitness for Healthy Life Style”**  
by  
**Dr. Mustafa A. Topiwala**  
(Physiotherapist, Managing Partner at Dr. Pimprikar's Sports Med Rehab, Nashik)

On 19<sup>th</sup> November, 2022 From 1:00 pm to 03:00 pm  
Venue: AV hall, Third floor, E&TC Department, KKWIEER

Dr. S. A. Patil(Ugale) U.G. Co-ordinator | Dr. D. M. Chandwadkar Dean, Student Affairs, HOD, E & TC Engg. | Dr. K. N. Nandurkar Principal

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized seminar on “Electrical Machines used for EV powertrain: Basic Concepts and Trends” by Mr. Vishwas Vaidya (Chief Innovation Officer, Four Front Private Limited) on 21<sup>st</sup> November 2022.



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- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized webinar on “Guidance & Interaction session of FYB.Tech students with N.J. Rao” on 23<sup>rd</sup> November 2022.



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 Website: www.engg.kkwagh.edu.in

Department of Electronics & Telecommunication Engineering in collaboration with IETE  
 Organizes



**"Guidance and interaction session for FYBTECH students of E&TC department"**

**Prof. N. J. Rao**  
 Indian Institute of Science, Bangalore  
 India

Date: 23<sup>rd</sup> November, 2022  
 Time: 10:25 am to 12:15 pm  
 Venue: AV Hall, Third floor, E&TC Department, KKWIEER





GPS Map Camera

**Nashik, Maharashtra, India**  
 2R7F+J3J, Durga Nagar, Nashik, Maharashtra  
 422006, India  
 Lat 20.014026°  
 Long 73.822551°  
 23/11/22 10:57 AM GMT +05:30



## Who is a Good Engineer?

- CDIO
- Communicates well
- Good team member
- Takes decisions and acts ethically
- Sensitive to environment and sustainability
- Life long learning



Zoom Meeting

Some present day popular electronic products

- Cell phone
- Television
- Music system
- Radio
- Computers
- Watches and clocks
- Camera
- Medical instruments
- Printer
- ATM
- Home appliances
- Lighting
- Security systems

Participants (8)

- Rohini Daund (Co-host, mt)
- FY B TECH (DM F.G) (Host)
- N J Rao (Co-host)
- Dr Sunita A Patil (Ugale) (Co-host)
- Dinesh Chandwadkar

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized webinar on "Soft Skills" by Ms. Kanishka Thakur on 26<sup>th</sup> November 2022.

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Department of Electronics & Telecommunication Engineering in collaboration with IETE  
 Organizes Expert Talk on

**"Soft Skills"**  
 by  
**Ms. Kanishka Thakur**  
 (Career counselor, Keynote Speaker, Strategic Marketeer)




On 26<sup>th</sup> November 2022. Time: 10.00 am to 12.15 pm  
 Venue: Seminar Hall MBA department 4th floor

Dr. S. A. Patil(Ugale) U.G. Co-ordinator | Dr. D. M. Chandwadkar Dean, Student Affairs, HOD, E & TC Engg. | Dr. K. N. Nandurkar Principal

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized workshop on "IPR and Copy right" by Dr. S. A. Patil (Ugale) on 26<sup>th</sup> November 2022.



- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized workshop on "Managing Self before Managing Others" by Mrs. Meenakshi Kulkarni Founder and Director AdeptVision on 3<sup>rd</sup> December 2022.



- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized workshop on "How to prepare PPT in Latex" by Mrs. S. A. Shevgekar on 3<sup>rd</sup> December 2022.

K. K. Wagh Education Society's  
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 Department of Electronics & Telecommunication Engineering  
 In Collaboration with IETE Nashik Sub-Center

NBA  
 NAAC  
 IETE

**Organizes**

Expert Talk On  
**“How to Prepare PPT in Latex ”**  
 By  
**Mrs. Shweta Shevagekar**  
 Assistant Professor, KKWIEER

On 3 rd December 2022 At 1:00 pm to 3:00 pm  
 Venue: AV hall 3rd Floor Dept. of E&TC

Dr. S. A. Patil (Ugale)  
 U. G. Co-ordinator

Dr. D. M. Chandwadkar  
 Dean, Student Affairs,  
 HOD, E & TC Engg.

Dr. K. N. Nandurkar  
 Principal

- Department of Electronics and Telecommunication Engineering of K.K.Wagh Institute of Engineering Education and Research Nashik, Students' Association of Electronics Engineers (SAEE) in collaboration with IETE Nashik subcenter organized workshop on “Path For Success and Academic Performance” by Dr. Ms. Pratibha M. Chandak on 30<sup>th</sup> December 2022.

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Department of Electronics & Telecommunication Engineering  
 in collaboration with IETE

Organizes Expert Talk on  
**“Path for Success and Academic Performance”**  
 by  
**Dr. Ms. Pratibha M. Chandak**  
 (MA, M.Phil, PGDPC, PhD (Psychology))

On 30<sup>th</sup> December 2022 at 1.00 pm to 3.00 pm  
 Venue: AV hall, Third floor, E&TC Department, KKWIEER

Dr. S. A. Patil(Ugale)  
 U.G. Co-ordinator

Dr. D. M. Chandwadkar  
 Dean, Student Affairs, HOD, E & TC Engg.

Dr. K. N. Nandurkar  
 Principal



## Industrial Visits Organized

- Third-year students of Electronics and telecommunications department of K. K. Wagh Institute of Engineering Education and Research visited the Motwane Manufacturing Company Pvt. Ltd. as a part of their skill development curriculum on 7<sup>th</sup> and 9<sup>th</sup> November 2022. Prof. Dr. K. S. Holkar and Prof. A. B. Suryawanshi co-ordinated the said visit.





- Second Year students of Electronics and Telecommunication Engineering of K. K. Wagh Institute of Engineering Education and Research visited 'Sivanand Electronics.' as a part of their Electronic Skill Development curriculum on 11<sup>th</sup> November 2022. Prof S.S.Lokhande Prof. S.A.Shevgekar , Prof. S.R.Baji , Prof.S.R.Gangurde the respective staff members were present with the students.



- Second Year students of Electronics and Telecommunication Engineering of K. K. Wagh Institute of Engineering Education and Research visited 'Deshmukh Solar Energy Privated Limited.' as a part of their Electronic Skill Development curriculum on 15<sup>th</sup> November 2022. Prof. S.A.Shevgekar , Prof. S.S.Lokhande , Prof. S.R.Baji , Prof.S.R.Gangurde the respective staff members were present with the students.





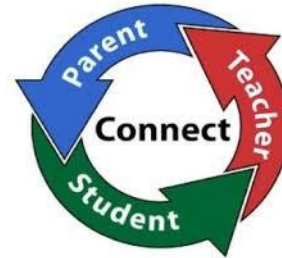
## FY BTECH Students Parent Teacher Meeting

- Online parent teacher meeting of FY BTech students was organized by Electronics and Telecommunication department through **Zoom platform**.

**Date:** 17/12/2022


**Time:** 11.00 am to 12.30pm

**Attendees:** 61 participants attended meeting




Highlights of the meeting





K. K. Wagh Education Society's






**K. K. Wagh Institute of  
Engineering Education & Research, Nashik**  
(An Autonomous Institute from 2022-2023)

**Department of Electronics & Telecommunication Engineering  
Organizes**

**" FY B.TECH PARENT TEACHER MEET "**

**DIV. F AND DIV. G**



**On 17th December 2022, 11:00 AM**

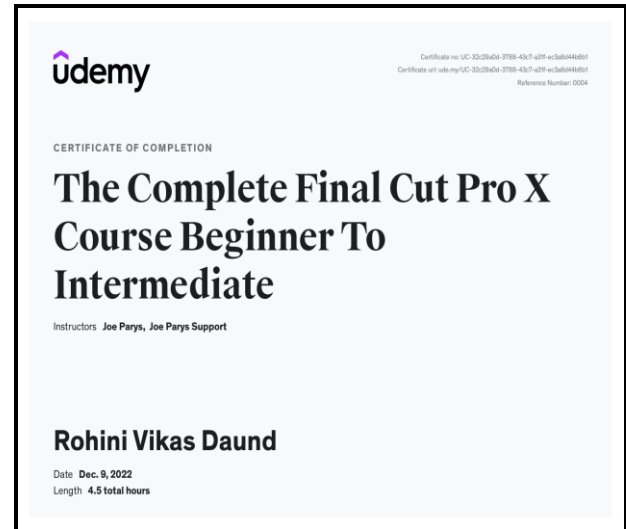
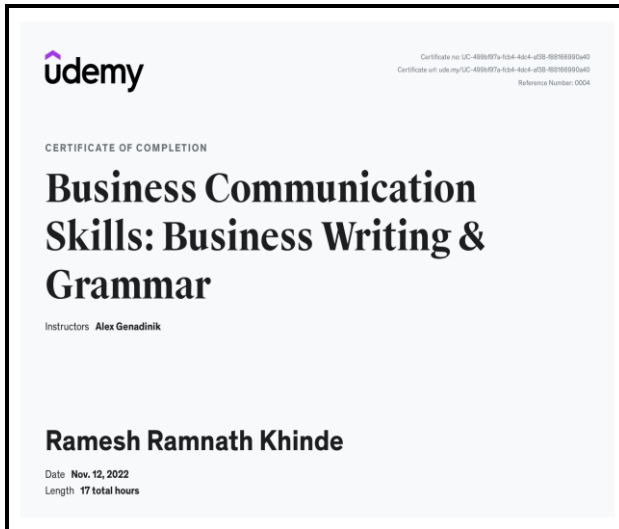
Dr. S. A. Patil (Ugale) U. G. Co-ordinator	Dr. D. M. Chandwadkar Dean, Student Affairs, HOD, E & TC Engg.	Dr. K. N. Nandurkar Principal
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## Industrial Training / Seminar/Workshop done by Staff

Various courses completed by staff are as follows:



Sr. No.	Type of Event	Name of Staff	Duration
1	Udemy course on 'Business communication skills: Business writing and Grammar'	Mr. R. R. Khinde	17 Total hours
2	Udemy course on "The Complete Final Cut Pro X Course Beginner To Intermediate"	Mrs. R. V. Daund	9 <sup>th</sup> December, 2022 4.5 total hours
3	National Level Faculty Development Program on "RESEARCH METHODOLOGY" organized by Department of Commerce, PPG College of Arts and Science, Coimbatore	Mrs. R. V. Chothe	12 <sup>th</sup> December - 19 <sup>th</sup> December, 2022
4		Mrs. S. V. Shelke	





## Placement



### BE Electronics

Sr. No	Name	Company	Package (LPA)
1.	Samriddhi Sanjay Walde	Atos	4
2.	Sahil Ghanshyam Wable	Symtronics	4
3.	Prathamesh Suni Durgude	Symtronics	4
4.	Siddhesh Pravin Wagh	Symtronics	4

### BE E&TC

Sr. No	Name	Company	Package (LPA)
1.	Baviskar Vaibhav Pratap	Tech Mahindra	3.25
2.	Joshi Madhura Pravin	Tech Mahindra	3.25
3.	Bhadane Unnati Ashok	Hexaware	4
4.	Nikam Disha Arvind	Hexaware	4
5.	Varade Anushka Nitin	Emerson	4
6.	Vyavhare Jayesh Rajendra	Emerson	4
7.	Yeole Komal Vijay	Emerson	4
8.	Chandramore Prasanna Rahul	Symtronics	4
9.	Kulkarni Pooja Ashokkumar	Atos	3
10.	Labhade Avirat Dipak	Adani	6
11.	Potdar Aishwarya Ashwinkumar	Atos	3
12.	Chinchore Vishvesh Shantaram	Rishabh Instruments	3
13.	Jadhav Akshata Sunil	Faucia	5.5
14.	Ramtekar Taniya Sameer	Rishabh Instruments	3

***Published By***

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***Editor: Mrs. Snehal D. Raut***

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## **Vision**

Provide quality education to create engineering professionals of global standards by keeping pace with rapidly changing technologies to serve the society.

## **Mission**

M1: To educate the students with the state-of-the-art technologies and value based education to meet the growing challenges of industry.

M2: To provide scholarly ambience & environment for creating competent professionals.

M3: To inculcate awareness towards societal needs.