



**TULSIRAMJI GAIKWAD-PATIL**  
**Collage of Engineering & Technology**  
**An Autonomous Institute**

**DTE**  
**CODE**  
**4151**

**NAAC Accredited**



**[www.tgpcet.com](http://www.tgpcet.com)**

## **Department of Science and Humanities**

# **KSHITIJ**

**Departmental NEWSLETTER 2023-24**  
**Semester- I**



**B.Tech | B.Arch | M.tech | MBA | MCA | Polytechnic | BAMS | D.Pharm | B.Sc | Nursing | Physiotherapy**

# Vision Mission of the Institute



**“To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management”**



- To strive for rearing standard and stature of the students by practicing high standards of professional ethics, transparency and accountability
- To provide facilities and services to meet the challenges of Industry and Society.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.





# Head of Department



**DR. MAMTA TAKARKHEDE**  
**Ph.D (Physics)**  
**Head, Science & Humanities**  
**Department**

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Welcome to Department of Basic Sciences and Humanities. Department is laying the strong foundation for budding engineers, through our determined, devoted dedicated team of young dynamic faculty members. The department enhances students' knowledge, critical thinking, ability to understand the technology and command of analyzing the things in modern society.

Department of Basic Sciences and Humanities plays Vital role in an engineering college to lay a strong foundation of basic principles such as Mathematics Physics, Chemistry and Communication Skills in the mind of the learners. I am confident that the students of the department would justify the credibility of the department by showing a high level of professional competence in their respective field.

I wish Best of Luck to the students.....



# List of Faculty



**Prof. Nadir Husain**  
**M.Sc (Chemistry)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Pranjali Lute**  
**M.Sc (Mathematics)**  
**Assistant Professor, Science & Humanities Department**



**Dr. Atul Jichkar**  
**M.Sc, GATE, SET, PhD**  
**Professor, Science & Humanities Department**



**Dr. Kanchan Gopal**  
**Ph.D (English)**  
**Associate Professor, Science & Humanities Department**



**Prof. Rahul Khobragade**  
**M.Tech (ME)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Rahul Ingle**  
**M.Sc. (Physics)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Nageshwari Sarade**  
**M.Sc (Chemistry)**  
**Assistant Professor, Science & Humanities Department**





# List of Faculty



**Prof. Sachin Waghmare**  
**M.Sc (Mathematics)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Rahul Ghotkar**  
**M.Tech (ME)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Chetna Bansod**  
**MA (English), B.Ed, D.TEd**  
**Assistant Professor, Science & Humanities Department**



**Prof. Meenakshi Tiwari**  
**MSC(Mathematics) and B.Ed.**  
**Assistant Professor, Science & Humanities Department**



**Prof. Pooja Sharma**  
**M.Sc (Mathematics )**  
**Assistant Professor, Science & Humanities Department**



**Prof. Heena Burdakar**  
**M.Sc (Mathematics)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Priyanka Jagtap**  
**M.Sc (Physics)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Amisha Malviya**  
**M.Tech (CAD/CAM)**  
**Assistant Professor, Science & Humanities Department**



**Prof. Radha Yete**  
**MCA**  
**Assistant Professor, Science & Humanities Department**





# Editor Board



**Prof. Kalyani Bhambre**  
**B.E.(IT)**  
**Teaching Assistant, Science &**  
**Humanities Department**

It brings me immense joy & pleasure to introduce the First edition of the departmental NEWSLETTER "KSHITIJ". All the creative energies that came on to this platform in the form of faculty experts & students are finally presenting a replica of their enthusiastic hard work through this extravaganza that has come out so organically. Technical & Arts every section shines out differently in its true sense. All the events conducted throughout the year were perfectly planned & the overwhelming response it received said it all! This piece of art would not have been complete without the sheer determination & perseverance of all the students who pushed their limits every time to bring out this artistic reality. Their efforts coupled with immense support from the faculties truly have done justice to carry on the legacy. I am grateful for all the support NEWSLETTER "KSHITIJ" has received throughout the year in every possible way from the faculties & Students. I hope the readers of NEWSLETTER have a wonderful reading experience & wish this year's edition too receives your love & support like it has always received till date.

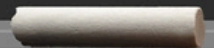


# Industrial Visit's

## LIST OF VISIT'S



1. DINSHAW'S DAIRY FOODS PVT. LTD.
2. BRAMHANEE FURNITURE, PVT. LTD.
3. IMPEC INFRASTRUCTURE, PVT. LTD.
4. SP CRANES AND STRUCTURES, PVT. LTD.
5. UTKARSH INTERPRISES
6. BR SHESHRAO WANKHEDE SHESHRAO SHETKARI  
SAHAKARI SOOT GIRNI.







# DINSHAW'S DAIRY FOODS PVT. LTD.

Department of Basic Science and Humanities has organized an industrial visit at Dinshaw's Dairy Foods Pvt. Ltd., K41-42, Five start industrial estate, MIDC, Butibori, Kirmiti, Maharashtra 441122 on 30 th November 2023 for 51 first year students.

The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator for the industrial visit.



The visit was very fruitful for the students. The process mechanism involved in the different dairy products is an essential aspect in dairy industry, encompassing various procedures, techniques, and technologies. With a strong commitment to fresh and quality dairy products We got also the knowledge on different types of machines used at Dinshaw's Dairy Foods Private Limited.



## CONCLUSION

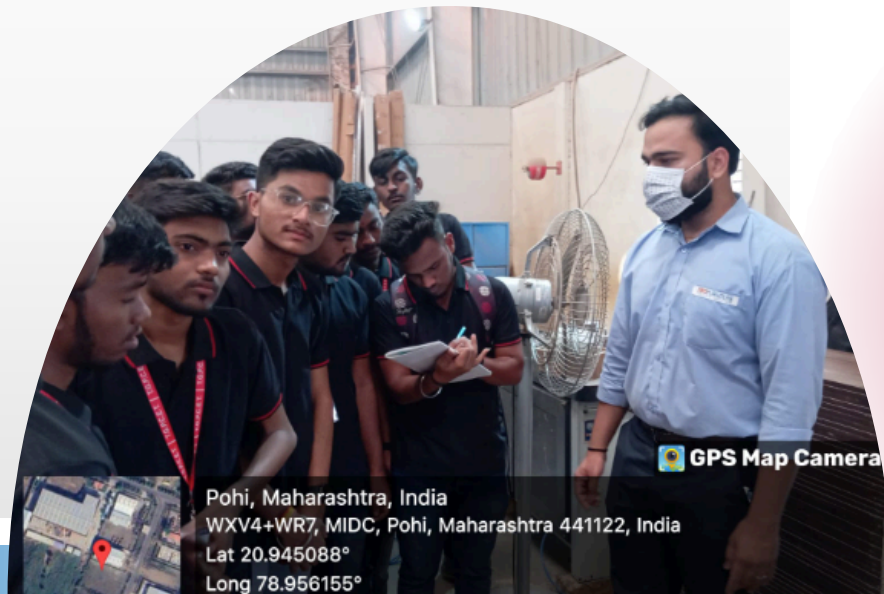


Department of Science and Humanities





# BRAMHANEER FURNITURE, PVT. LTD.



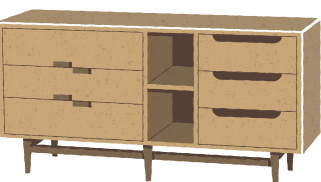
Department of Basic Science and Humanities has organized an industrial visit at Bramhaneer Furniture, W-27, Butibori, MIDC, Opposite Indorama Gate No. 1, Nagpur, on 25th November 2023 for 25 first year students.

The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator for the industrial visit.

- To know the various types of plywood used for the fabrication of the furniture.
- To know the fabrication & machining process involved in the whole procedure.



The visit was very fruitful for the students. In summary, the furniture manufacturing process can be challenging and complex, and manufacturers must navigate a range of issues related to raw material availability, design and engineering, production efficiency, quality control, environmental concerns, shipping and logistics, and a highly competitive market.



**Department of Science and Humanities**





Department of Basic Science and Humanities has organized an industrial visit at IMPEC Infrastructure, Plot No. 4, Jabalpur Bypass Road, Village: Lihigaon, Tah: Kamthi Lihigaon on 22nd November 2023 for 42 first year students.

The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator for the industrial visit.

## **Aim of the Industrial Visit**

To know the various steps involved in the fabrication of steel framed structure.

To know the machining process involved in the whole procedure.

To know things practically through interaction, working procedures and employment practices.

To know the current industrial needs as per the demand.







Department of Basic Science and Humanities has organized an industrial visit at SP Cranes and Structures Private Limited, Plot No. T-9, Near Aashi Gas Plant, MIDC Butibori, Nagpur, on 30th September 2023 for 36 first year students. The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator for the industrial visit.

### Aim of the Industrial Visit

- To know the various steps involved in the fabrication of Cranes.
- To know the machining process involved in the whole procedure.
- To know things practically through interaction, working procedures and employment practices.
- To know the current industrial needs as per the demand.



The visit was very fruitful for the students. The visit to SP Cranes And Structures Private Limited at Butibori was really informative and insightful experience for all of us. The students learned about the use of steel and CNC machine in the manufacturing process of cranes. It was fascinating to see how different machines work together to create the structural components of the cranes. Overall, the visit provided valuable knowledge about the crane industry and its manufacturing techniques. It was a great experience to learn about the crane manufacturing process.







Department of Basic Science and Humanities has organized an industrial visit at Utkarsh Enterprises, Plot No B6/11 MIDC, MIDC Industrial Area, Butibori, Nagpur on 23rd September 2023 for 24 first year students.

The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator for the industrial visit



## Aim of the Industrial Visit



- To know the various steps involved in the fabrication of steel framed structure.
- To know the machining process involved in the whole procedure.
- To know things practically through interaction, working procedures and employment practices.
- To know the current industrial needs as per the demand.



The visit was very fruitful for the students. The quality control is an essential aspect of PEB manufacturing, encompassing various procedures, techniques, and technologies. With a strong commitment to quality control and continuous improvement, the PEB industry can continue to thrive and provide safe, durable, and efficient building solutions. We got the knowledge on different types of machines used at PEB Utkarsh industry Pvt. Ltd.





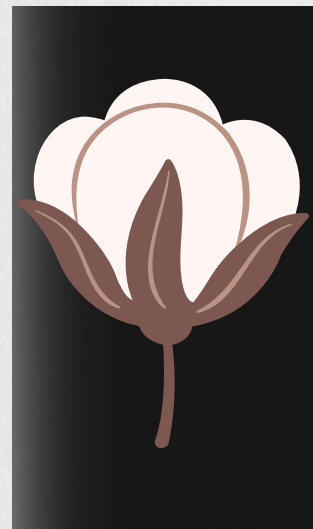
# BR. SHESHRAO WANKHEDE SHESHRAO SHETKARI SAHAKARI SOOT GIRNI



Department of Basic Science and Humanities has organized an industrial visit at Br. Sheshrao Wankhede Sheshrao Shetkari Sahakari Soot Girni, Mohgaon, Butibori, Nagpur on 16th September 2023 for 47 first year students.

The visit was organized by the HOD of Basic Science and Humanities Prof. Nadir Husain. Dr. Ravi Kant Ranjan was the coordinator and Mr. Shubham Tayade was the co-coordinator faculty members for the industrial visit. The Cotton Factory is an industrial facility specializing in the processing of cotton and the production of cotton-based products.

This report aims to provide an overview of the factory's operations, focusing on electricity consumption, raw material requirements, and total product produce, workers required to run the factory and machine required for processing of cotton.



## CONCLUSION

The visit was very fruitful for the students. At present Indian cotton textile industry is one of the largest and important sectors that contribute the economy in terms of foreign exchange earnings. The textile industry also has the potential to grow further and achieve new height in the globalized economy. We got the knowledge on different types of machines used at Br. Sheshrao Wankhede Sheshrao Shetkari Sahakari Soot Girni, Mohgaon and all the processing steps.



# Guest Lecture's

## LIST OF GUEST LECTURE/ INDUSTRIAL EXPERT/ WORKSHOP/ FORUM INSTALLATION



1. VEDIC MATHEMATICS
2. THE POWER OF GOAL & FORUM REINSTALLATION CRESENT
3. GUEST LECTURE "JOURNEY FROM PERSON TO PERSONALITY."
4. SOLID WASTE MANAGEMENT CHALLENGES AND  
OPPORTUNITY
5. GUEST LECTURE ON MEDITATION
6. SWOT ANALYSIS
7. GUEST LECTURE DESIGN THINKING FOR CAREER PLANNING
8. INTERPERSONAL SKILLS







# VEDIC MATHEMATICS



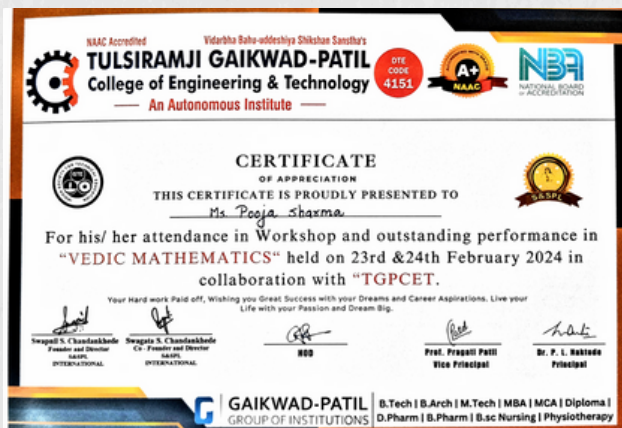
## 2 Days' Workshop on "Vedic Mathematics"

We are delighted to inform you that Tulsiramji Gaikwad-Patil College of Engineering & Technology's Department of Basic Sciences & Humanities had organized Two days' Workshop on "Vedic Mathematics" held at JRD Tata Hall.

The aim of this event was to empower students with new mathematical skills, strategies and perspectives that can benefit them academically, professionally and personally.



Nagpur, Maharashtra, India  
X267+3R2, wardha road, near gaikwad patil college, Nagpur, Maharashtra  
at 20.960822°  
ng 79.014706°  
7/24 02:48 PM GMT +05:30



Day 1(First Session) was on the Secrets of Vedic Mathematics (Basics, Introduction and Sutras)

Day 2 (Second Session) was on "The Power of Positivity" from the life of Indian Mathematicians

Day 2 (Third Session) was on Competitive Examination based on "The Math Magic Show"



Department of Science and Humanities



# THE POWER OF GOAL & FORUM REINSTALLATION “CRESENT”



“Forum Re-Installation- Crescent & Guest Lecture-The power of Goal” was organized on 18th December 2023”. It was attended by students and faculty members. The Guest for the function was Hon’ble Dr. Hariom puniyani Professor, Dean Training and Placement, Hislop College, Nagpur & another Guest was Shri. Anil Hood, Dr. P.L.Naktode Principal TGPCET, Prof. Pragati Patil, Vice Principal, Prof. Nadir Husain, and Dr. Mamata Takarkhede HoD of Basic Sciences and Humanities, teaching and non-teaching faculty members graced the function.







# GUEST LECTURE "JOURNEY FROM PERSON TO PERSONALITY."



The Guest Lecture was organized for Sem-1 students ON 10TH August 2023. The guest was Dr. Vartika Patil, the CEO and Founder of Vartika's Confidence Academy. The topic of her lecture was "Journey from Person to Personality."

## **Aim:-**

The aim is to work on personal development skills, become more confident and a journey of self-discovery and skill development.

## **Objectives:-**

- The magic happens outside your comfort zone. Personal development skills require you to work on areas that you might think are flawed.
- One can only move forward by getting out of your comfort zone and addressing those issues.
  - Do not hesitate to ask for help from your friends and family.
  - Be optimistic and evaluate yourself honestly.

Personality traits truly set individuals apart in meaningful ways, then they should also be related to other differences between people—including how they fare in life, for better or worse. And that is exactly what scientists who study personality have found.







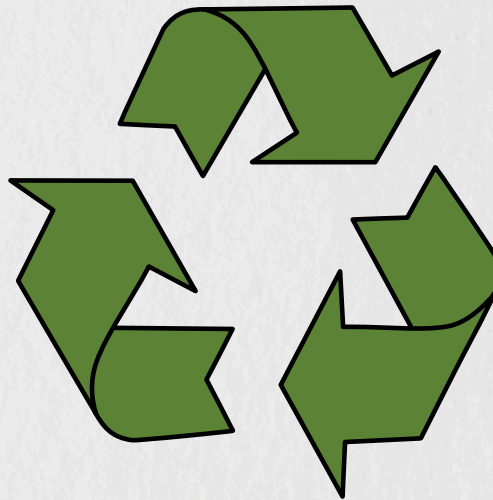
# SOLID WASTE MANAGEMENT CHALLENGES AND OPPORTUNITY

## **Introduction:-**

Guest Lecture was organized by TGPCET for Sem-1 students on 11th August 2023. The guest was Dr. Dr. Bholuram Yadav, Retired Scientist, NEERI, Nagpur, his informational speech on "Solid Waste Management: Challenges and Opportunities" would likely center around raising awareness and understanding of the issues, strategies, and potential solutions related to solid waste management.

## **Aim:-**

The aim of Dr. Bholuram Yadav's speech was to educate and inform the audience about the challenges and opportunities in the field of solid waste management, with a focus on promoting sustainable practices and addressing environmental concerns.



## **Outcome:-**

Overall, outcome of Dr. Bholuram Yadav's speech was an increasing awareness of the challenges posed by improper solid waste management and inspiring the audience to consider sustainable solutions and practices.







# GUEST LECTURE ON MEDITATION



The guest lecture was organized for the students, on 14th August 2023, Mrs. Jaya Awari, member, Sampurna Meditation Centre, Nagpur, she delivered the speech on “Meditation Technique”.

## Aim:-

The aim of the meditation session was to introduce participants to various meditation techniques and emphasize their significance in achieving mental calmness, improved concentration, emotional healing, and the ability to live in the present moment.

Participants gained practical knowledge of various meditation techniques that they can apply in their daily lives to address different challenges. They learned techniques to manage stress and achieve a sense of calmness, leading to better overall well-being. Techniques taught during the session helped participants improve their focus and concentration, contributing to increased productivity. Meditation methods for forgiveness and letting go of overthinking provided participants with tools to heal and manage their emotions effectively. Participants were encouraged to practice mindfulness and live in the present, fostering a positive outlook on life. The session inspired participants





# SWOT ANALYSIS

## 1 STRENGTHS

## 2 WEAKNESSES

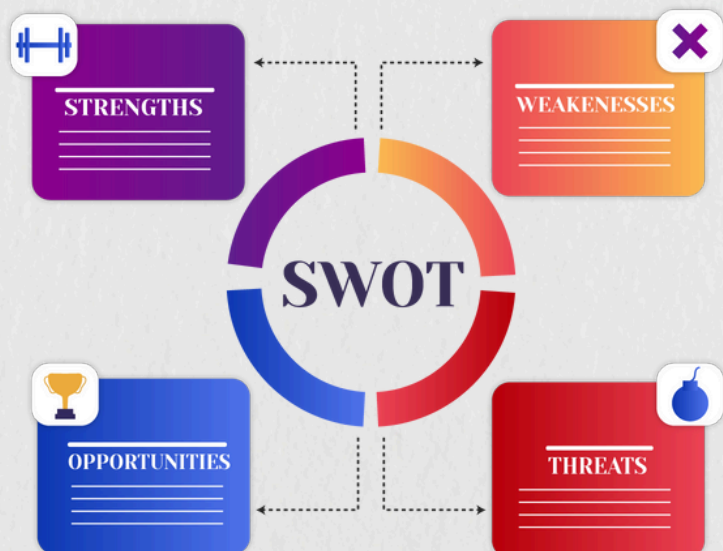
## 3 OPPORTUNITIES

## 4 THREATS

Guest Lecture was organized by TGPCET for Sem-1 students on 12th August 2023. The guest was Mr. Rajesh Jadav National Coordinator of Urban Rural Mission, he delivered the lecture on SWOT Analysis.



The aim was to empower and motivate participants to realize their potential, make positive contributions to society, and lead fulfilling lives by learning from both successes and setbacks.







# GUEST LECTURE DESIGN THINKING FOR CAREER PLANNING

## **Introduction:-**

The guest lecture was organized for the students on 14th August 2023, Mr. Pratap Shukla , COE & Founder of Take It Ideas an Innovative Solutions Pvt. Ltd. Nagpur.

## **Aim:-**

The aim of the session to provide students with insights into utilizing design thinking principles for effective career planning. The session aimed to inspire students to envision their future, leverage their experiences, and set clear goals for their career paths.

## **Objectives:-**

- Introduce students to the concept of design thinking and its relevance in the context of career planning.
- Encourage students to think beyond the present and envision their future career trajectories.
- Provide real-life examples and experiences to illustrate the practical application of design thinking in career planning.
- Motivate students by emphasizing the importance of goal setting, determination, and focus in achieving their career aspirations.

**"Design  
Thinking for  
Career  
Planning**



## **Outcome:-**

Students were able to connect design thinking concepts to real-life scenarios, helping them grasp their relevance and potential impact. Mr. Pratap Shukla's experiences and motivational talk instilled a sense of purpose and determination among students. Students gained clarity on the importance of setting clear and achievable goals for their career paths.





# INTERPERSONAL SKILLS

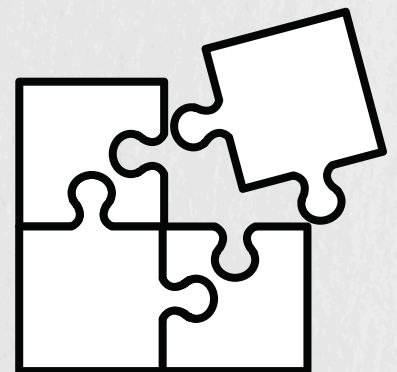


## **Introduction:-**

The Guest Lecture was organized for Sem-1 students on 18TH August 2023. Mr. Visshesh Prasad, Head Skill U Armoury had delivered the lecture on “Interpersonal Skills.”

## **Aim:-**

The aim was to equip students with the necessary knowledge and techniques to effectively communicate and interact with others in various personal and professional settings.





# Faculty Achievements NPTEL/FDP/NEP



**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NADIR AHSAN MUSHTAQE HUSAIN**  
for successfully completing the course

**Roadmap for Patent Creation**

with a consolidated score of **61** %

Online Assignments	17.92/25	Proctored Exam	43.5/75
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Total number of candidates certified in this course: **1117**

Jan-Mar 2024  
(8 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL24GE29S550400067 To verify the certificate No. of credits recommended: 2 or 3

**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**MAMTA VINOD TAKARKHEDE**  
for successfully completing the course

**Teaching And Learning in Engineering (TALE)**

with a consolidated score of **69** %

Online Assignments	20.42/25	Proctored Exam	48.75/75
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Total number of candidates certified in this course: **474**

Jan-Feb 2023  
(4 week course)

Prof. G. L. Sivakumar Babu  
Chairman, Center for Continuing Education  
IISc Bangalore

Prof. L. Umanand  
NPTEL Coordinator  
IISc Bangalore

Indian Institute of Science Bangalore

swayam

Roll No: NPTEL23GE24S45241242 To validate the certificate No. of credits recommended: 1 or 2

**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**PRANJALI**  
for successfully completing the course

**Teaching And Learning in Engineering (TALE)**

with a consolidated score of **62** %

Online Assignments	19.58/25	Proctored Exam	42.75/75
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Total number of candidates certified in this course: **474**

Jan-Feb 2023  
(4 week course)

Prof. G. L. Sivakumar Babu  
Chairman, Center for Continuing Education  
IISc Bangalore

Prof. L. Umanand  
NPTEL Coordinator  
IISc Bangalore

Indian Institute of Science Bangalore

swayam

Roll No: NPTEL23GE24S35240110 To validate the certificate No. of credits recommended: 1 or 2

**NPTEL-AICTE  
Faculty Development Programme**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NADIR AHSAN MUSHTAQE HUSAIN**  
for successfully completing the course

**Teaching And Learning in Engineering (TALE)**

with a consolidated score of **65** %

Jan-Feb 2023

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

Duration of NPTEL course : 4 Weeks

Roll No: NPTEL23GE24S35240293

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams.  
This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24<sup>th</sup> July 2018, similar to other refresher / orientation courses.  
F.No. AICTE / RFD / FDP through MOOCs / 2017-18





# Faculty Achievements NPTEL/FDP/NEP



**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**AMISHA H MALVIYA**  
for successfully completing the course  
**Research Methodology**

with a consolidated score of **65** %

Online Assignments	17.92/25	Proctored Exam	46.88/75
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Total number of candidates certified in this course: 3794

Prof. Devendra Jalihal  
Chairperson,  
Centre for Outreach and Digital Education, IITM

Aug-Oct 2023  
(8 week course)

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL23GE36S642801915 To verify the certificate

No. of credits recommended: 2 or 3

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**RAHUL PURUSHOTTAM KHOBRADE**  
for successfully completing the course  
**Teaching And Learning in Engineering (TALE)**

with a consolidated score of **56** %

Online Assignments	15.83/25	Proctored Exam	39.75/75
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Total number of candidates certified in this course: 474

Prof. G. L. Sivakumar Babu  
Chairman, Center for Continuing Education  
IISc Bangalore

Jan-Feb 2023  
(4 week course)

Prof. L. Umanand  
NPTEL Coordinator  
IISc Bangalore

Indian Institute of Science Bangalore

swayam

Roll No: NPTEL23GE24S35240250 To validate the certificate

No. of credits recommended: 1 or 2

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**HEENA DATTATRAYA BURADKAR**  
for successfully completing the course  
**Advanced Engineering Mathematics**

with a consolidated score of **43** %

Online Assignments	13.35/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 66

Jan-Apr 2023  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL23MA33S64270963 To validate the certificate

No. of credits recommended: 3 or 4

**Elite**

**NPTEL Online Certification**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NAGESHWARI MILIND SARADE**  
for successfully completing the course  
**Basics in Inorganic Chemistry**

with a consolidated score of **69** %

Online Assignments	24.17/25	Proctored Exam	44.39/75
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Total number of candidates certified in this course: 385

Jan-Feb 2024  
(4 week course)

Prof. Sridhar Iyer  
Head CDEEP & NPTEL Coordinator  
IIT Bombay

Indian Institute of Technology Bombay

swayam

Roll No: NPTEL24CY05S450401422 To verify the certificate

No. of credits recommended: 1 or 2





## ‘वैदिक गणित’ या विषयावर दोन दिवसीय कार्यशाळा गायकवाड इंजिनिअरिंग कॉलेजात संपन्न

मधुसूदन घारे

गुणगार : मूलभूत विज्ञान आणि मानविकी विभागाच्या वतीने तुळशीरामजी गायकवाड पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजीची मोठ्याच नागपूर येथील वेआरटी हॉल हॉल येथे वैदिक गणित या विषयावर दोन दिवसीय कार्यशाळेचे आयोजित करण्यात आले होते. या कार्यक्रमाचे उद्दिष्ट विद्यार्थ्यांना नवीन गणितीय कौशल्ये, पोरने आणि टुटीकोनांसह सहाय करणे असून त्यांना शैक्षणिक, व्यावसायिक आणि वैयक्तिकरित्या फायदा होऊ शकेल. कार्यक्रमात माननीय प्रमुख पाहुणे म्हणून स्वर्गीय वंदनखेडे आणि स्वागत वंदनखेडे, एस जेड एसपीएल इन्टरनॅशनलचे संस्थापक आणि संचालक नागपूर, डॉ. पी. एल. नाकतोडे, प्राचार्य, टीबीपीसीटी, उपप्राचार्य प्रा. प्रगती पाटील, डॉ. ममता टाकरखेडे आणि प्रा. नादिर हुसेन, एअरफोर्स आदी मान्यवर उपस्थित होते. प्रास्ताविक टीबीपीसीटीचे प्राचार्य

डॉ. पी. एल. नाकतोडे यांनी केले. गणितातील समस्या सोडवण्याची कौशल्ये वाढवण्यासाठी त्यांनी वैदिक गणिताचे महत्त्व स्पष्ट केले. सत्रातून प्रारंभ करताना याचर्चासुद्धा ऐकणाऱ्या वैदिक गणिताच्या रहस्यावर (वाचक, परिचय आणि सूत्रे) यावर प्रमुख पाहुणे स्वर्गीय वंदनखेडे यांनी वैदिक धर्मशास्त्रातून घेतलेल्या गणिताच्या विविध दृष्टीकोनांवर प्रबोधनात्मक प्रवचनाने विद्यार्थ्यांना मंत्रमुग्ध केले. ईश्वरीय गणनेचे वैदिक गणिताचे व्यावहारिक उपयोगी मुल्य करणाऱ्या त्यांनी कल्पक पद्धती स्पष्ट केल्या. पुढे हे सत्र माननीय प्रमुख पाहुणे यांनी चालू केले. स्वागत वंदनखेडे यांनी गुणाकार संकल्पना स्पष्ट करण्यासाठी तिचे माहितीपूर्ण तंत्र, विशेषतः रंगोळीच्या नमुन्याचा वापर करून दाखवले. दुसऱ्या दिवशीच्या दुसऱ्या



सत्रात भारतीय गणिताच्या जीवनातील लक्षकरावकीची श्रावित या विषयावर स्वर्गीय वंदनखेडे यांनी सकारात्मकतेच्या परिधानीय क्षात्राचा अभ्यास केला. प्रख्यात गणितज्ञ रामानुजन यांच्या जीवनाचा अभ्यास करून वंदनखेडे यांनी कल्पकता आणि दृढनिश्चयाची कथा उलगडली. कद संघ सौमिक श्रोत वर आधारित सत्राची परीक्षेच्या दुसऱ्या दिवसाच्या तिसऱ्या सत्रात वैदिक गणिताद्वारे

वेरीर आणि वजाबाकीच्या तत्वांवरून तिच्या स्पष्टीकरणाचे श्रोत्यांना मोहित केले आणि गणिताच्या क्रियांचे एक नवीन दृष्टीकोन प्रदान केला. सत्राच्या शेवटी मूल्यमापनोत्तर याचर्चा घेण्यात आली. या कार्यक्रमाची सांगता एका श्रुतिप्रसंगी संदेशाने झाली: एकच यत्नाची जगती होण्यासाठी, जगतीने सतत उत्कृष्टतेसाठी प्रयत्न केले पाहिजेत आणि कठोर परिश्रम आणि समर्पणाने मूल्य आत्मसात केले पाहिजेत. समारोपाचे विवेचन डॉ. ममता टाकरखेडे, एअरफोर्स, प्रथम वर्ग यांनी केले. प्रा. पूजा शर्मा आणि प्रा. मीनाक्षी विहारी, सार्वजनिक केंद्र, वाळवी शेरे, शिनेवरी बाबाड आणि प्रतीक पट्टमाचे यांनी सूत्रसंचालनाची दृष्टा सांभाळली. रोहित बखरे आणि शिवा भगत यांनी आभार मानले. तर, कार्यक्रमाची सांगता स्वर्गीय वंदनखेडे यांनी केलेली होती.

मि. मा. क. अ. क. के. ठि. वि. म. सा. हो. हो. या. पा. नि. उं. अ. अ. स. पि. पो.

LOKMAT TIMES

## Intl meet on Indian Knowledge System and Science begins



The guests during the inauguration of an international conference organised by TGPCT.

The 10th international conference on Indian Knowledge System Science and Spirituality for Advancing Technology (IC- IKSAT 2K24) began at Tulsi- ramji Gaikwad-Patil College of Engineering & Technology (TGPCT) on Friday. The inaugural function commenced at Brahmakumari's Vishwa Shanti Sarovar, Nagpur, with

the traditional lamp lighting ceremony. The chief guest, BK Bala Kishor Batchu, Zisis Rou- sopoulos and Dr Sachin L Borse expressed their thoughts. Chair- man GPPI, Nagpur Dr Mohan Gaikwad-Patil, vice-chairman Akash Gaikwad Patil, treasurer Dr Sandeep Gaikwad and vice- principal Prof Pragati Patil were present on the occasion.

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LOKMAT TIMES • Anchor

## ‘Vedic Mathematics important to enhance problem-solving skills’

TGPCT organises workshop on Vedic Mathematics

LOKMAT NEWS NETWORK  
NAGPUR

Principal of TGPCT, Dr P L Naktode, has said that Vedic Mathematics is extremely important for enhancing mathematical problem-solving skills.

He was speaking during the inauguration of a two-day workshop on Vedic Mathematics organised by Department of Basic Sciences and Humanities of Tulsi- ramji Gaikwad-Patil College of Engineering and Technology at JRD Tata Hall recently.

Founders of S&SPL Swapnil Chandankhede said various mathematical tricks



Dignitaries during a two-day workshop on Vedic Mathematics organised by TGPCT at JRD Tata Hall.

can be derived from Vedic Scriptures. He captivated the students with ingenious methods of finding squares and simplifying multiplication, demonstrating the practical applications of Vedic maths in everyday calculations.

Swapnil Chandankhede during his talk on the topic ‘The Power of Positivity From the Life of Indian Mathematicians’ delved into the transformative power of positivity. Through the life of the legendary Math-

ematician Ramanujan, Chandankhede he unfolded a narrative of resilience and determination.

Chief guest Swagata Chandankhede showcased innovative techniques, particularly the utilisation of rangoli patterns to elucidate multiplication concepts.

While dealing with the topic ‘The Math Magic Show’ she captivated the students with her explanation of the principles

of addition and subtraction through Vedic Mathematics offering a fresh perspective on mathematical operations. Post-Evaluation test was conducted at the end of the session.

Principal of TGPCT, Dr P L Naktode, vice-principal, TGPCT, Prof Pragati Patil, Dr Mamta Takarkhede and head (first year) Prof. Nadir Husain and a large number of students were present on this occasion.

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लोक्सत्ता  
लोकमान्य लोकशक्ती

## गायकवाड अभियांत्रिकीत व्यक्तिमत्त्व विकास कार्यशाळा

तुळशीरामजी गायकवाड-पाटील कॉलेज ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजीच्या मूलभूत विज्ञान विभागाच्यावतीने १३ जुलैला एकात्मिक व्यक्तिमत्त्व विकास अभ्यासक्रमावर कार्यशाळा पार पडली. प्रमुख पाहुणे म्हणून प्रा. हरिकृष्ण गोहिल (सुरत), प्राचार्य डॉ. पी.एल. नाकतोडे, उपप्राचार्य डॉ. प्रगती पाटील, उपप्राचार्य, डॉ. ममता टाकरखेडे, प्रा. नादिर हुसेन उपस्थित होते. प्रा. अनुप गाडे यांचे समारोपीय भाषण झाले.

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LOKMAT TIMES

## Community News

## Annual social gathering Utkarsh-2K24 held at TGPCT



The guests during inaugural function of annual social gathering Utkarsh-2K24 at TGPCT.

The annual social gathering Utkarsh-2K24 of Tulsi- ramji Gaikwad-Patil College of Engineering and Technology (TGPCT) was celebrated recently. The inauguration of the annual social gathering took place at the hands of executive director of Maha- Metro Naresh Gurbani, principal of St Clare School Dr Vandana Benjamin and RJ Nisha in

the presence of vice-chairman Akash Gaikwad Patil, treasurer Dr Sandeep Gaikwad, principal Dr P L Naktode, principal Prof Vandana Khante, vice-principal Prof Pragati Patil, staff members and students. On the last day, the prize distribution function took place in presence of Priyanka Giripunjee, the Mrs India Global Queen, RJ Nisha and others. The event concluded with the vote of thanks.



# Glimpse of Birthday Celebration



**Department of Science and Humanities**