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# Department of Civil Engineering



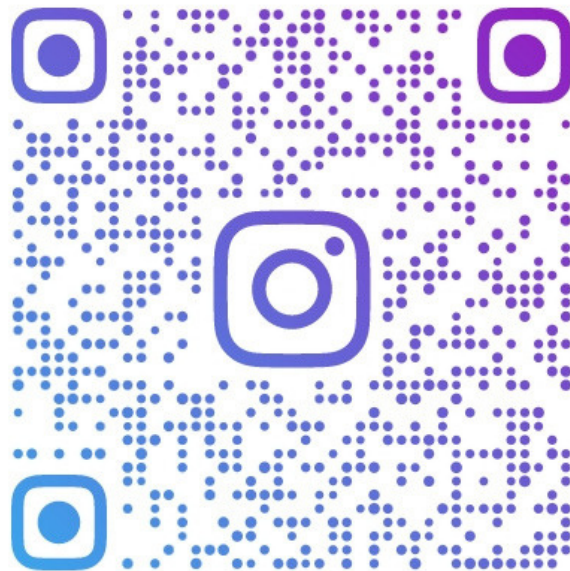
## Association of Civil Engineering Students

The Association of Civil Engineering Students (ACES) Forum is an initiative led by students in the Civil Engineering Department at JDCOEM Nagpur. Established in 2014, ACES is currently in its eighth year of operation. This forum serves as a valuable platform for students to discover and harness their hidden talents and unique abilities through collaborative teamwork.

At ACES, our primary objective is to promote holistic development among our student members. To achieve this, we organize a wide range of both curricular and extracurricular activities. Our focus is on nurturing the 360° development of our students, equipping them with the skills and confidence needed to excel in the global job market.

One of our core missions is to provide ample opportunities for every student to enhance their teamwork and leadership qualities. We believe that these skills are essential not only for personal growth but also for contributing positively to society. Through various initiatives and projects, ACES Forum strives to empower students to become effective leaders

FOR MORE UPDATES



ACES.JDCOEM

# Message from the Principal



**Dr. S V Sonekar**

Dear readers, beloved students and well-wishers of the JDCOEM family. My tremendous greetings to all of you. First and foremost, I would like to express my deep sentiments of gratitude to every one of you, for your constant support, love and concern towards the college, which enables and encourages us to strive hard to carry forward the mission of spreading value-based knowledge to one and all.

Education is not an act of acquiring knowledge but learning a skill to lead life and forming one's personality. This is an ennobling process of growth. I can boldly say that we have excelled in every initiative that we undertook and we have stood together in facing the challenges in realizing quality education. We focus on discovering, developing and drawing out the hidden talents and the magic lying dormant inside all of its students. From academics to co-curricular activities, perseverance and a never-say-die spirit are entrenched in the heart of every student not only making them good students but brilliant human beings. In today's dynamic world, a 360 degree development and grooming is of supreme importance and through our campus we are creating an environment for future leaders, entrepreneurs and professionals who possess skills and aptitude in an array of functional disciplines.

Our students graduate with the skills, mind sets and qualities that will best equip them for success. Come on let's give our best and make this institution a modern temple of learning through our diligence, devotion and dedication. Wishing you all the best..! in the world of the future. They are the future leaders and role models of the society.

# Message from HoD



## Prof. Atika Ingole

Education is the ability to meet life situations. With resistance and diligence laced with knowledge and intellect, one can soar to any extent one desires. The thrust of education at JD College of Engineering and Management is not only to produce mere degree holders but bright young men and women equipped enough to foray into the world with an all- round development of personality.

We as a team believe in providing education with profundity so as to enable students to achieve perspicacity. We provide appealing facilities and amiable environment for the stake holders that contribute to bridge the gap between Students, Parents, and Teachers (SPT). Providing excellence is not only our vision, but is our raison d'être. With best infrastructure, techno-sawy ambience, latest gadgets to equip one to stride with competitive fervor, ever increasing new job oriented courses, career-counselling and highly enthused qualified teachers - the JD COEM management and I earnestly endeavor to help you in realizing your dreams and make you better human beings.

As a student, you can definitely expect to have an enriching experience that should propel you to make the best of the opportunities available, for JD College of Engineering and Management is guided by the conviction

Intelligence is not a privilege but a gift to be used for the good of Humanity.

# Forum Incharge Message



## Prof. Tina M. Khandale

"I am delighted to share my thoughts on the release of our departmental magazine. The French quote above, 'Pour édifier, il faut divertir,' translates to the idea that to educate, one must also entertain. As you flip through the pages, you will gain insights into the significant milestones our department has achieved this year. Furthermore, our talented students have expressed their thoughts, ideas, hopes, feelings, aspirations, and convictions creatively, adding depth to this innovative work.

The academic activities are continually aligned and monitored to keep pace with the ever-evolving trends in technology, developments, and innovations. With this ongoing commitment, I am confident that our institute will earn a prominent place among India's technical institutions. By decentralizing college activities to the departmental level, I believe that the students of JDCOEM will gain exposure to academic and professional fields, leaving a lasting mark wherever they go, showcasing their strong professional knowledge, impeccable character, discipline, and commitment.

The response from students who contributed articles to the magazine was overwhelming and garnered extensive appreciation and recognition. ACES Forum of the Civil Engineering Department provides a platform for our students to showcase their enhanced skills. Their contributions to the college magazine reflect their intellectual depth and mastery of language.

Once again, my message is simple: 'AIM ALWAYS HIGH,' aiming as high as the sky, to become exemplary citizens and leaders of our beloved country. I strive to impart both technical and management skills to my students, which will undoubtedly broaden their perspectives and prepare them to face the formidable challenges of the real world."

- Prof. Tina M. Khandale

# **EDITORIAL PAGE**

## **Editor**

Mr. Ashish Laxman Kar  
Final Year Student

## **Published by**

ACES Forum,  
Civil Engineering Department

**Thanks & Regards**

# **DEPARTMENTAL STAFF**

**Prof. Atika Ingole**  
**HoD, Civil Department**

**Prof. Atul D Gautam**

**Prof. Shakil Khan**

**Prof. Nilesh Pal**

**Prof. Sharukh Kureshi**

**Prof. Tejaswini Junghare**

**Prof. Shital Navghare**

**Prof. Tinu Khandale**

**Prof. Archana Mahajan**

**Prof. Rahul Jichkar**

**Prof. Nidhi Rekhi**



# **ACES Committees 2023-24**

**Eco-Organizing Committee**

**Creative Committee**

**Discipline Committee**

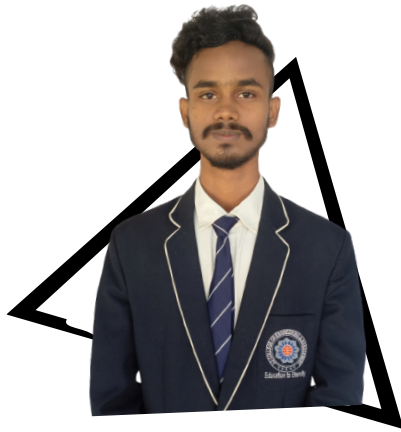
**Documentation Committee**

**Publicity Committee**

**Technical Committee**

**Sports Committee**

**The Eco-Organizing Committee is a newly established committee within our forum dedicated to promoting and implementing environmentally sustainable practices and initiatives. Comprising passionate individuals committed to reducing our ecological footprint, this committee aims to raise awareness, organize eco-friendly events, and drive positive change within our community. Together, we strive to foster a greener, more sustainable future for our forum and beyond. This is a initiative by our Former Creative Committee Head Ms. Uttara Naresh Paithe.**

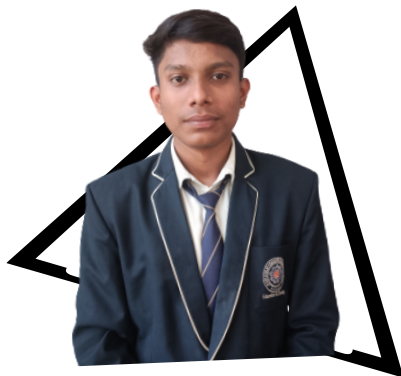


"I am **Mr. Ashish Kar**, honored to serve as the **President of ACES Forum** for the session 2023-24. My journey within ACES Forum has been a testament to hard work and dedication. It commenced as a Photography Co-Head and progressed through the role of Technical Head, leading me to the esteemed position of President.

This journey has not only been a personal achievement but also a reflection of the exceptional teamwork and collaborative spirit within our forum. As President, my vision is to lead ACES Forum with pride, fostering an environment that thrives on synergy and collective effort.

I firmly believe that collaboration is the cornerstone of success. By enhancing team-building activities and forging partnerships, we aim to harness the diverse talents and skills of our members. Together, we can propel ACES Forum to new heights, create meaningful impact, and contribute positively to the growth of our department and our community.

I am committed to serving our members and ensuring that ACES Forum remains a dynamic platform for learning, innovation, and professional development. Together, we will embark on an exciting journey, and I am excited to lead our forum with unwavering dedication and enthusiasm."



**I Ishant Jadhao** to be selected as the Vice President of ACES Forum for the Session 2023-24, I am thrilled to have this opportunity to connect with all of you, our bright and ambitious students.

First and foremost, I want to congratulate each and every one of you for choosing to be a part of ACES Forum. You have demonstrated your commitment to personal growth, academic excellence, and a desire to make a positive impact on the world. Your journey here is a testament to your dedication and determination, and I want you to know how proud we are to have you as a part of our community.

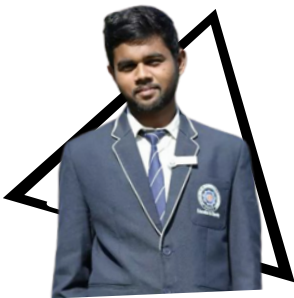
In your pursuit of knowledge, do not forget the importance of curiosity and exploration. The world is a vast and dynamic place, and your time at ACES Forum is a chance to expand your horizons, challenge your assumptions, and discover your passions. Embrace the diverse range of subjects and ideas that surround you, for it is through this exploration that you will uncover your true calling.

As Vice President, I am here to support you in your endeavors, and I encourage you to reach out if you ever need guidance, advice, or a listening ear. We are a community, and your success is our collective achievement.



**I am Vaibhav Lanje** Selected as a **Secretary of ACES Forum** for the Session 2023-24. I want to emphasize the importance of nurturing tomorrow's leaders. As Secretary of ACES Forum, I encourage all of you to actively engage in mentoring and guiding the next generation of leaders in our field. Their success is our collective responsibility, and by investing in their growth and development, we ensure a brighter future for our organization and the industries we represent.

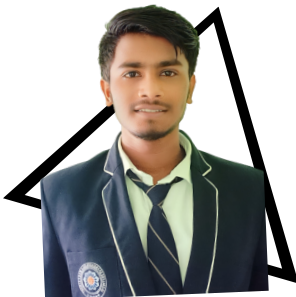
Let's continue to collaborate, share knowledge, and provide opportunities for young talents to thrive. Together, we can shape a promising tomorrow for ACES Forum.



**I Nirbhay Mahalgave** to be selected as a **Joint-Secretary of ACES Forum** for the Session 2023-24. I am honored to address you today as we embark on our shared journey of nurturing tomorrow's leaders.

As the Joint Secretary of ACES, I want to emphasize the importance of our collective mission. Our forum serves as a platform where ideas are exchanged, experiences are shared, and innovative solutions are born. Together, we have the power to shape the leaders of tomorrow, instilling in them the values of integrity, collaboration, and forward-thinking.

Let us continue to foster an environment of inclusivity and mentorship, where young minds can flourish and develop the skills necessary to address the complex challenges of the future.

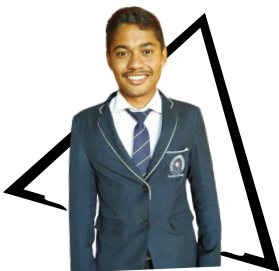


**I Utsav Roy** and I am honored to address you today as the **Treasurer of ACES Forum** for the Session 2023-24 our esteemed organization. As we embark on the journey of nurturing tomorrow's leaders, it is essential to recognize the significance of our collective efforts.

ACES Forum is not just a platform it is a community of individuals who share a common vision – to empower and inspire the leaders of tomorrow. Our commitment to this cause is unwavering, and our dedication.

In my role as Treasurer, I assure you that we are managing our resources diligently and transparently to maximize the impact of our mission. Your support and contributions are invaluable, and they fuel the engine of progress within ACES Forum.

As we move forward, let us remember that our work today paves the way for the leaders of tomorrow. Together, we will continue to nurture, guide, and empower the brilliant minds that will shape the future.



**I Paresh Botare** and I am honored to serve as a **Joint-Treasurer of ACES Forum** for the Session 2023-24 and I will dedicated to nurturing tomorrow's leaders. Our mission is clear to empower and support the leaders of the future.

Together, we will continue to provide a platform for growth, learning, and collaboration. Let us embrace the responsibility of guiding and shaping the next generation of leaders, fostering innovation, and creating a brighter tomorrow.

Your contributions and dedication make our mission possible. I look forward to working alongside each of you as we continue this important journey.

# ACES Team 2023-24

<b>Mr. Ashish Kar</b>	<b>President</b>
<b>Mr. Ishant Jadhao</b>	<b>Vice-President</b>
<b>Mr. Vaibhav Lanje</b>	<b>Secretary</b>
<b>Mr. Nirbhay Mahalgave</b>	<b>Joint-Secretary</b>
<b>Mr. Utsav Roy</b>	<b>Treasurer</b>
<b>Mr. Paresh Botare</b>	<b>Joint-Treasurer</b>
<b>Ms. Purva Dhargave</b>	<b>Spokesperson</b>
<b>Ms. Sakshi Shirbhayye</b>	<b>Spokesperson</b>
<b>Ms. Aachal Rana</b>	<b>Creative Committee Head</b>
<b>Ms. Pranjali Waghmare</b>	<b>Creative Committee Co-Head</b>
<b>Mr. Ankit Tiwari</b>	<b>Discipline Committee Head</b>
<b>Mr. Harsh Choudhary</b>	<b>Discipline Committee Co-Head</b>
<b>Mr. Ganesh Kushwaha</b>	<b>Documentation Committee Head</b>
<b>Ms. Gunjan Bisane</b>	<b>Documentation Committee Co-Head</b>
<b>Ms. Uttara Paithe</b>	<b>Eco-Organizing Committee Head</b>
<b>Mr. Mayur Nandanwar</b>	<b>Eco-Organizing Committee Co-Head</b>
<b>Ms. Vaishnavi Walthare</b>	<b>Publicity Committee Head</b>
<b>Ms. Ipshita Paunekar</b>	<b>Publicity Committee Co-Head</b>
<b>Mr. Harsh Sonak</b>	<b>Technical Committee Head</b>
<b>Mr. Ayush Guntwar</b>	<b>Technical Committee Co-Head</b>
<b>Mr. Ujwal Barapatre</b>	<b>Sport Committee Head</b>
<b>Mr. Aditya Amre</b>	<b>Sport Committee Co-Head</b>



# ACES Team 2023-24

**Ms. Vaibhavi Satpaise**

**Ms. Samiksha Adikne**

**Mr. Pratik Tonpe**

**Ms. Koyal Tabhane**

**Mr. Nayan Somkuwar**

**Ms. Meetali Dupare**

**Mr. Mohd. Ammaruddin**

**Ms. Suhani Bhoge**

**Mr. Aditya Mahakalkar**

**Ms. Kiran Kumbhare**

**Mr. Nitesh Gadhade**

**Mr. Navinkumar Ingulkar**

**Ms. Yogeshwari Wagh**

**Mr. Sumed Chalakh**

**Mr. Shlok Rambhad**

**Ms. Anu Ganvir**

**Mr. Krish Durge**

**Ms. Ruchika Deogade**

**Mr. Gunjan Choudhary**

**Creative Committee Members**

**Creative Committee Members**

**Creative Committee Members**

**Creative Committee Members**

**Discipline Committee Members**

**Discipline Committee Members**

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**Documentation Committee Members**

**Publicity Committee Members**

**Publicity Committee Members**

**Eco-Organizing Committee Members**

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**Technical Committee Members**

**Technical Committee Members**

**Technical Committee Members**





# NPTEL

National Programme on Technology Enhanced Learning (NPTEL) was initiated by seven Indian Institutes of Technology (Bombay, Delhi, Kanpur, Kharagpur, Madras, Guwahati and Roorkee) along with the Indian Institute of Science, Bangalore in 2003. NPTEL is a good opportunity for who is willing to do course based on their qualification. It is fully online course. Here Five core disciplines were identified, namely, civil engineering, computer science and engineering, electrical engineering, electronics and communication engineering and mechanical engineering and 235 courses in web/video format were developed in this phase.

The main goal of NPTEL was to build on the engineering and core science courses launched previously in NPTEL Phase I. An additional 600 web and video courses were created in all major branches of engineering, physical sciences at the undergraduate and postgraduate levels and management courses at the postgraduate level. Several improvements such as indexing of all video and web courses and keyword search were implemented.



# CERTIFICATE OF APPRECIATION TO

**UTTARA NARESH PAITHE**

for being recognized as NPTEL BELIEVER

**JAN-APR 2023**

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras

**NPTEL BELIEVER**  
Candidate has to be present in 4/5/6  
exams, passing atleast 4 of these exams



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

This certificate is awarded to  
**UTTARA NARESH PAITHE**  
for successfully completing the course

**Rural Water Resources Management**

with a consolidated score of **75** %

Online Assignments	23.75/25	Proctored Exam	51/75
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Total number of candidates certified in this course: **480**

Jan-Apr 2023  
(12 week course)

Prof. Sridhar Iyer  
Head COEP & NPTEL Coordinator  
IIT Bombay

Indian Institute of Technology Bombay

swayam

Roll No: NPTEL23GE12534273340 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  
**UTTARA NARESH PAITHE**  
for successfully completing the course

**Groundwater Hydrology and Management**

with a consolidated score of **75** %

Online Assignments	22.5/25	Proctored Exam	52/75
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Total number of candidates certified in this course: **105**

Jan-Apr 2023  
(12 week course)

Prof. Sridhar Iyer  
Head COEP & NPTEL Coordinator  
IIT Bombay

Indian Institute of Technology Bombay

swayam

Roll No: NPTEL23GE13554271364 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  
**UTTARA NARESH PAITHE**  
for successfully completing the course

**Environmental Impact Assessment**

with a consolidated score of **62** %

Online Assignments	22.56/25	Proctored Exam	39/75
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Total number of candidates certified in this course: **876**

Jan-Apr 2023  
(12 week course)

Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Prof. Prii Maheshwari  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL23AR04564271501 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  
**UTTARA NARESH PAITHE**  
for successfully completing the course

**Wastewater Treatment and Recycling**

with a consolidated score of **55** %

Online Assignments	16.16/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1740**

Jul-Oct 2022  
(12 week course)

Prof. Debajit Chakrabarty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL22CE76533871480 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  
**UTTARA NARESH PAITHE**  
for successfully completing the course

**Air Pollution and Control**

with a consolidated score of **57** %

Online Assignments	24.38/25	Proctored Exam	33/75
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Total number of candidates certified in this course: **7382**

Jan-Apr 2023  
(12 week course)

Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Prof. Prii Maheshwari  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL23CE14514270981 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  
**LOKESH GHANGARE**  
for successfully completing the course

**Enhancing Soft Skills and Personality**

with a consolidated score of **53** %

Online Assignments	23.13/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **12752**

Feb-Apr 2023  
(8 week course)

Prof. B. V. Balish Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

Prof. Sanyasi Roy  
NPTEL Coordinator  
IIT Kanpur

Indian Institute of Technology Kanpur

swayam

Roll No: NPTEL23HS30534271271 To validate the certificate No. of credits recommended: 2 or 4





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



This certificate is awarded to  
**KAMLESH DAYANANAD PATLE**  
for successfully completing the course

**Environmental Impact Assessment**

with a consolidated score of **68** %

Online Assignments	23.41/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **876**

Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2023  
(12 week course)

Prof. Priti Maheshwari  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23AR04554271244

To validate the certificate



No. of credits recommended: 3 or 4



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



This certificate is awarded to  
**KAMLESH DAYANANAD PATLE**  
for successfully completing the course

**Groundwater Hydrology and Management**

with a consolidated score of **56** %

Online Assignments	22.81/25	Proctored Exam	33/75
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Total number of candidates certified in this course: **105**

Prof. Sridhar Iyer  
Head CDEEP & NPTEL, Coordinator  
IIT Bombay

Jan-Apr 2023  
(12 week course)



Indian Institute of Technology Bombay



Roll No: NPTEL23GE13564271477

To validate the certificate



No. of credits recommended: 3 or 4



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



This certificate is awarded to  
**KAMLESH DAYANANAD PATLE**  
for successfully completing the course

**Air Pollution and Control**

with a consolidated score of **58** %

Online Assignments	23.44/25	Proctored Exam	34.2/75
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Total number of candidates certified in this course: **5166**

Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2022  
(12 week course)

Prof. Priti Maheshwari  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL22CE22543930376

To validate and check scores: <https://nptel.ac/in/nc>



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



This certificate is awarded to  
**KAMLESH DAYANANAD PATLE**  
for successfully completing the course

**Rural Water Resources Management**

with a consolidated score of **61** %

Online Assignments	23.75/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **480**

Prof. Sridhar Iyer  
Head CDEEP & NPTEL, Coordinator  
IIT Bombay

Jan-Apr 2023  
(12 week course)



Indian Institute of Technology Bombay



Roll No: NPTEL23GE12544273874

To validate the certificate



No. of credits recommended: 3 or 4



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



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

**Sustainable Engineering Concepts and Life Cycle Analysis**

with a consolidated score of **53** %

Online Assignments	22.67/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **552**

Jul-Sep 2023  
(8 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CE90S45020494

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  
**PRANJALI PRADEEP KALE**  
for successfully completing the course

**Environmental Impact Assessment**

with a consolidated score of **68** %

Online Assignments	22.75/25	Proctored Exam	45/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **876**

Prof. Priti Maheshwari  
NPTEL Coordinator  
IIT Roorkee

Jan-Apr 2023  
(12 week course)



Indian Institute of Technology Roorkee



Roll No: NPTEL23AR04564270944

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  
**PRANJALI PRADEEP KALE**  
for successfully completing the course

**Air Pollution and Control**

with a consolidated score of **72** %

Online Assignments	25/25	Proctored Exam	46.5/75
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Total number of candidates certified in this course: **7382**

Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jan-Apr 2023  
(12 week course)

Prof. Priti Maheshwari  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CE14554270754

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  
**PRANJALI PRADEEP KALE**  
for successfully completing the course

**Plastic Waste Management**

with a consolidated score of **64** %

Online Assignments	23.83/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: **3166**

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Aug-Oct 2022  
(8 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CE72543870656

To validate the certificate



No. of credits recommended: 2 or 3



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**ANKIT TIWARI**  
for successfully completing the course

## Fluid Mechanics

with a consolidated score of **47** %

Online Assignments	17.03/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 102

Jul-Oct 2022  
(12 week course)

*T. V. Bharat*  
Prof. T. V. Bharat  
Head, Centre for Educational Technology  
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL22CE85543872109

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  
**TEJSWINI CHARANDAS GOLLAWAR**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **71** %

Online Assignments	24/25	Proctored Exam	46.98/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: 12752

Feb-Apr 2023  
(8 week course)

*P. B. V. Rathin Kumar*  
Prof. B. V. Rathin Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

*Satyaki Roy*  
Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23HS30534271980

To validate the certificate



No. of credits recommended: 2 or 3



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NITESH DINESH GADHADE**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **53** %

Online Assignments	15.38/25	Proctored Exam	37.35/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 12752

Feb-Apr 2023  
(8 week course)

*P. B. V. Rathin Kumar*  
Prof. B. V. Rathin Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

*Satyaki Roy*  
Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23HS30534271331

To validate 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  
**GUNJAN BISANE**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **66** %

Online Assignments	23.04/25	Proctored Exam	42.8/75
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Total number of candidates certified in this course: 12752

Feb-Apr 2023  
(8 week course)

*P. B. V. Rathin Kumar*  
Prof. B. V. Rathin Kumar  
Chairman, Centre for Continuing Education  
IIT Kanpur

*Satyaki Roy*  
Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL23HS30544271531

To validate 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  
**VAISHNAVI TULARAM WALTHARE**  
for successfully completing the course

## Sustainable Engineering Concepts and Life Cycle Analysis

with a consolidated score of **65** %

Online Assignments	22.63/25	Proctored Exam	42.86/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 552

Jul-Sep 2023  
(8 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CE90S35021685

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  
**SONU SHANKAR KUMBHALE**  
for successfully completing the course

## Sustainable Engineering Concepts and Life Cycle Analysis

with a consolidated score of **62** %

Online Assignments	21.67/25	Proctored Exam	40.82/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 552

Jul-Sep 2023  
(8 week course)

*Haimanti Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

*Haimanti Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CE90S35021567

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  
**SANJANA CHUDAMAN KUMBHARE**  
for successfully completing the course

## Air Pollution and Control

with a consolidated score of **64** %

Online Assignments	25/25	Proctored Exam	39/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: 7382

Jan-Apr 2023  
(12 week course)

*Prof. Sanjeev Manhas*  
Prof. Sanjeev Manhas  
Coordinator, Continuing Education Centre  
IIT Roorkee

*Prof. Prihi Maheshwari*  
Prof. Prihi Maheshwari  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL23CE14514270921

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  
**SANJANA CHUDAMAN KUMBHARE**  
for successfully completing the course

## Sustainable Engineering Concepts and Life Cycle Analysis

with a consolidated score of **60** %

Online Assignments	22.04/25	Proctored Exam	38.27/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 552

Jul-Sep 2023  
(8 week course)

*Haimanti Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

*Haimanti Banerji*  
Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL23CE90S35022506

To verify the certificate



No. of credits recommended: 2 or 3



# EVENTS

Events organized by ACES Forum, Civil Engineering departments provide students with valuable opportunities for career development and knowledge enhancement in their field. They help students become better professionals in the future. The collaborative effort fosters a dynamic environment that not only hones technical skills but also encourages networking, industry exposure, and teamwork, all of which collectively empower students to become more adept and well-rounded professionals who are better equipped to tackle the challenges of the future."



# Re-installation Ceremony

29th August 2022



Association of Civil Engineering Students (ACES) Forum, Civil Engineering, J D College of Engineering & Management, Nagpur has organised a ‘ACES Forum-Reinstallation 202223’ which was conducted in Dr. A P J Abdul Kalam Auditorium in their college on 22nd December 2022 . The ceremony have received a huge response from all the ACES Forum Committee members as well as faculties.

# Abhigyaan

25th January 2023



Association of Civil Engineering Students (ACES) Forum, Civil Engineering, J D College of Engineering & Management, Nagpur has organised a social awareness activity named ‘ABHIGYAAN’ – Voter ID Registration Drive for availing the registration facility of Voter ID’s for the students having above 18 years under a drive conducted on 25th January 2023 within the college. The drive have received a number of responses from students of all the branches. The count of the Voter ID registrations reached near about 200.

# Ohh-Kaat

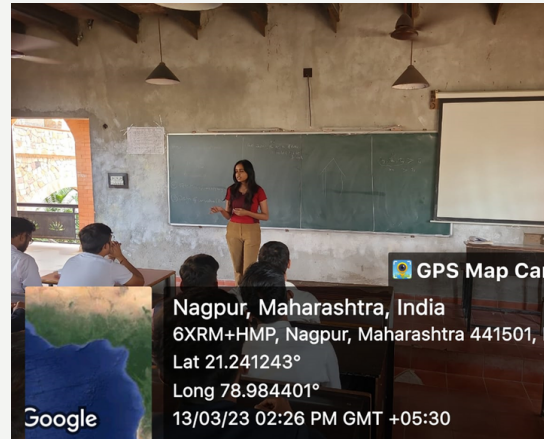
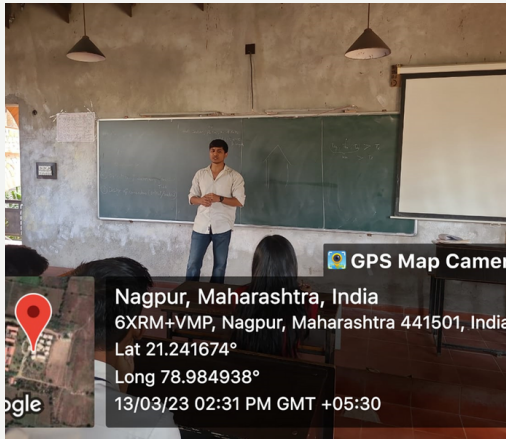
7th February 2023



Civil Engineering Department of the J D College of Engineering & Management, Nagpur has organised a Post Celebration of Makar Sankranti named 'OHH-KAAT' to carry forward the legacy of Harvest Festival with culture to the students. Civil Engineering Department of the J D College of Engineering & Management, Nagpur has organised a Post Celebration of Makar Sankranti named 'OHH-KAAT' to carry forward the legacy of Harvest Festival with culture to the students.

# Success Talk

13th March 2023



The speakers of the session are Mr. Chatainya Sahare and Ms. Raksha Swami (Founders of Charkha). In this session students become familiar with their thinking abilities and new ideas for Career.

# Aashray

20th March 2023



In this Event Student of Civil Engineering Department increase the awareness about the house sparrows and help the sparrows by making nets and placing them nearby surrounding area.

# Expert Lecture

(on Innovation and Entrepreneurship Development)

28th March 2023



In this Event The Expert Lecture will help the students to know about various opportunities in a field of Entrepreneurship. The Students learn various routes to get into the Business.

# Student Summit

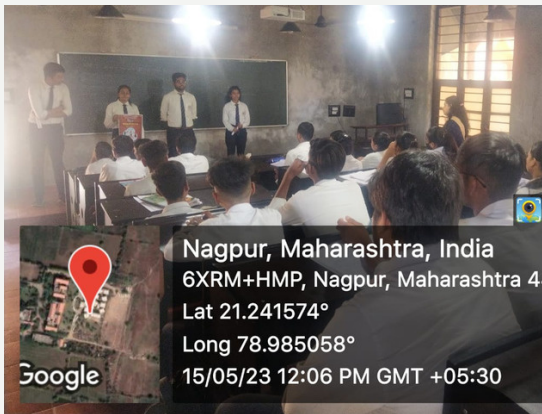
15th April 2023



In this Event Students got immense of information about the Sustainable Development in Civil Engineering. Students have learn about various types of Structures, challenges in a building construction and various types of pollution and their increasing effects.

# Samarpan 2.0

16th May 2023




In this Event Student of Civil Engineering Department collected books from J D College Students and collected books donated to NGO.

Samarpan Book Donation Drive is a commendable initiative that leverages the generosity of donors to provide educational resources and promote literacy among communities in need. It serves as an excellent example of how student forums and organizations can make a positive impact on society through coordinated efforts.



# Workshops




Workshops holds a significant place in a college curriculum due to their multifaceted importance in the holistic development of students. These hands-on, interactive learning experiences offer a range of benefits that extend beyond traditional classroom education.

## **1. International Conference on ‘Asian Scenarios on Infrastructural Development’ ASID Conference 2023**

The construction industry and infrastructure development in Asia Pacific and India in particular is seeing a paradigm shift with various new projects being conceptualized across this part of the world. The projects are required to keep pace with the advances in construction technologies, materials, epic size of the projects and influx of modern construction trends in recent years.

The intent of this event is to get all the stakeholders viz Industry Experts Professionals Academia Construction Business Experts. Specialists from the Centre of Excellence on a single platform and have an intense brainstorming amongst them to come up with new ideas and modern trends for the betterment of the construction industry. The event will also provide an interactive platform to the attendees for technological discussions, interactions with industry experts network with the top players of the Construction Industry and form mutually beneficial collaborations with the like minded individuals from the construction arena.





## 2. Sustainable Development Goals, NEEV 2023, RCOEM

During the two-day NEEV 2023 workshop hosted at RCOEM (Rashtrasant Tukadoji Maharaj Nagpur University's Shri Ramdeobaba College of Engineering and Management), students embarked on an enlightening journey that left them enriched and inspired.

On the first day of this transformative workshop, the focus was squarely on the United Nations' Sustainable Development Goals (SDGs). Students engaged in an immersive exploration of these global objectives, which encompass critical issues such as poverty alleviation, quality education, gender equality, clean energy, climate action, and more. Through interactive lectures and discussions led by seasoned experts, participants gained a comprehensive understanding of the significance and interconnectedness of the SDGs.

The second day of the workshop shifted its focus to an emerging technology known as Non-Destructive Assessment (NDA) in the realm of Civil Engineering. Under the guidance of experts in this field, students explored the potential of NDA as a cutting-edge tool for assessing the integrity and safety of structures and infrastructure. This technology not only promises to revolutionize the field but also aligns closely with the sustainability goals discussed on the first day.

The background is a light blue color with various decorative elements. In the top left, there is a dark blue branch with several leaves. In the top right, there is a wavy blue line. On the right side, there is a large, detailed illustration of a monstera leaf. In the bottom left, there is another dark blue branch with leaves. In the bottom right, there is a smaller dark blue branch with leaves. The central text is in a white rectangular area.

# SITE VISIT

Site visits offer numerous benefits across various industries and fields. They provide a firsthand understanding of locations, facilities, or projects, aiding in problem identification, data collection, and stakeholder engagement. Site visits are crucial for quality assurance, safety inspection, project management, feasibility studies, urban planning, market research, compliance, and auditing. They offer practical, real-world insights and support informed decision-making and problem-solving. site visits are an indispensable aspect of a civil engineer's work, providing them with the tools and information needed to assess, plan, design, and oversee construction projects successfully while ensuring safety, quality, and compliance with regulations.

## Water Treatment Plant, Gorewada

An ad field visit to the Gorewada Water Treatment Plant involves a team of experts assessing the plant's operations and infrastructure. They collect data, inspect equipment, evaluate processes, and ensure compliance with safety and environmental regulations. The visit results in a report with identified problems, proposed solutions, and an action plan for improvement. This helps maintain efficient and safe water treatment operations at the plant. An ad field visit to the Gorewada Water Treatment Plant involves a team of experts assessing the plant's operations and infrastructure. They collect data, inspect equipment, evaluate processes, and ensure compliance with safety and environmental regulations. The visit results in a report with identified problems, proposed solutions, and an action plan for improvement. This helps maintain efficient and safe water treatment operations at the plant.



## B. P. Construction, Zingabai Takli, Nagpur.

This site visit was not just an educational field trip; it was a transformative experience that enriched our students' learning journey. It connected classroom knowledge with real-world applications, fostered problem-solving skills, and provided them with valuable insights and connections that will serve as a strong foundation for their future endeavors in the dynamic and rewarding fields of construction and engineering.



# ACHIEVEMENTS

## STUDENT CLUB

The Student Club is a centralized student body, encompassing a total of 14 distinct clubs, each specializing in its domain, enabling students to explore their interests uniquely. The leaders of these 14 clubs, comprising both heads and co-heads, hold the title of "Officers of the Student Club." They play a crucial role in enhancing the experiences of club members, fostering professionalism, and preparing them for their future endeavors. The Student Club serves as a bridge between students, by students, and for students, promoting passion-driven pursuits.

Within this vibrant Student Club, the ACES FORUM, represented by our final-year Civil Department students, achieves remarkable heights. These students serve as officers of their respective club under Student Club's central body. Additionally, some of our final-year Civil Department students assume officer roles within specific clubs:

The Civil Department student Mr. Shamoil Khan who serves as the co-head of the Student Club. His exceptional talents have earned him the prestigious position of admin within the central body of JDCOEM, known as the Student Club.

1. Mr. Ashish Kar, the Head of the Visual Arts Club, also holds the esteemed position of President of ACES FORUM. His remarkable talent, dedication, and enthusiasm make him a standout leader.

2. Ms. Vaishnavi Walthare, the Head of the Literary Club, not only excels in literary pursuits but also serves as the Publicity Head. Her expertise in literary work and promotion qualities make her an exemplary leader.

3. Ms. Uttara Paithe, the Head of the Creative Club, showcases her versatility by also serving as the Creative Club Head under the Student Club. Her multiple talents are a testament to her diverse skillset.

It's worth noting that all members of the Student Club body possess a multitude of talents and interests, contributing to a vibrant and dynamic community dedicated to nurturing and promoting their passions.

#FollowYourPassion



**Mr. Shamoil Shakil Khan**

I am thrilled to share my thoughts on the release of the departmental magazine. As you navigate through its pages, you will be introduced to the diligent students of the Civil Department who have played a crucial role in both the departmental forum and the central body of the Student Club at JDCOEM. These students are the unsung heroes behind the department's achievements this year, contributing their dedication and passion to various initiatives. Their involvement in the Student Club has enriched our academic community, fostering a culture of innovation and collaboration.

This magazine serves as a testament to their hard work and showcases their achievements, underscoring the essential role they play in our academic journey. I invite you to explore the pages with an open heart and mind, as you will undoubtedly be inspired by the remarkable contributions of these students who personify the spirit of excellence and dedication at Students Club JDCOEM Central body as well as in the CIVIL Department.

The landscape of extracurricular activities and technical skills among our students has experienced a remarkable surge, creating a substantial and positive impact on their overall development. In my capacity as the Co-head of the Student Club, I want to emphasize that our club members are on a trajectory to achieve unprecedented heights and acquire invaluable skills through their active participation.

We are committed to promoting professionalism and knowledge among our club members, enabling them to stand out in their chosen domains. The Student Club at JDCOEM serves as a conduit for students to explore and enhance their personal interests and skills. It offers a platform where they can expand their knowledge and expertise.

I encourage all students to follow their passions wholeheartedly, as it is a guiding principle that paves the way for personal and professional success. In my role as Co-head of the Student Club, I am dedicated to implementing effective technical, management, and perspective-building skills within each club's framework. These skills will empower our members to excel in their unique areas of interest, equipping them with the tools they need for continuous growth and development.

Our mission is clear: to foster a community of driven and skilled individuals who are ready to make their mark in the world. Together, we will continue to rise to new heights and embrace the boundless opportunities that lie ahead.



**Mr. Ashish Laxman Kar**

"As the Head of the Visual Arts Club for Photography, Videography, and E-Content in the student club, I have developed a diverse skill set in visual media production and content creation. My role has equipped me with expertise in photography techniques, video production, and digital content development. These skills, combined with my creative vision, have enabled me to excel in capturing and presenting visual narratives effectively.

My proficiency in these areas has not only made a significant contribution to the student club's activities but has also earned me recognition and trust among my peers and faculty. Consequently, I was appointed as the President of ACES FORUM. In this leadership position, I continue to utilize my skills to curate and oversee engaging visual arts projects and initiatives for the student community. My leadership skills and talent will propel the ACES Forum and the Visual Arts Club to new heights."



**Ms. Uttara Naresh Paithe**

My journey with the Creative Club began as a member with a passion for various art forms. Little did I know that this decision would lead to a profound transformation in my life. As a member, I was immediately drawn to the club's enthusiastic and open-minded atmosphere, where creativity knows no bounds. Here, I found like-minded individuals who shared my zeal for artistic exploration.

The Creative Club quickly became a second home, a place where I could immerse myself in a world of artistry and innovation. From day one, I was exposed to a myriad of creative disciplines, each offering its unique set of challenges and rewards. Through art drives, workshops, and collaborative projects, I began to acquire skills I had never dreamed of mastering.



**Ms. Vaishnavi Tularam Walthare**

I the Head of the Literary Club, reminded of the incredible journey that has brought me here—a journey of growth, passion, and determination. It all began when I joined the Ladies Club as a member. Engaging in spirited discussions I discovered the transformative power of words.

The encouragement and mentorship received from the club's leadership inspired me to aim higher, to contribute more, and to ultimately take the helm of the Literary Club. With each step, I embraced the opportunity to serve the literary community, fostering an environment where creativity could flourish. As the Head of the Literary Club, I made it my mission to encourage every aspiring writer, providing a safe space for exploration and growth. Today, as the Head of the Literary Club, I extend my heartfelt gratitude to All the Readers with warm wishes.



# INTERNSHIPS

internships offer students a wide range of benefits, including mentorship, exposure to company culture, and the development of valuable skills. For employers, internships are an effective way to identify talent, foster innovation, and enhance productivity while contributing positively to their industry and community. Ultimately, internships serve as a mutually beneficial bridge between education and the professional world.internships offer students a wide range of benefits, including mentorship, exposure to company culture, and the development of valuable skills. For employers, internships are an effective way to identify talent, foster innovation, and enhance productivity while contributing positively to their industry and community. Ultimately, internships serve as a mutually beneficial bridge between education and the professional world.

# INTERNSHIPS

Our Department's student Ms. Uttara Naresh Paithe got selected at IITB Summer Internship Program 2023. She was among the top 5 students from all over India. This Internship Program was in collaboration of TUM Germany, Munich, SEED Center & IIT Bombay. Ms. Uttara Naresh Paithe coordinated in three projects in collaboration with Vigyan Ashram, ASEEM Foundation, IIT Bombay, TUM Germany, Munich.



Ms. Uttara Naresh Paithe with Dr. Anand B. Rao (HoD CTARA) Scientific Director TUM SEED Center, IITB.



This article presents the comprehensive analysis and outcomes of three distinct projects undertaken by me, encompassing the production of biogas through agro waste and food waste, the Water Wheel Project from TUM Germany, and Grey Water Treatment. The projects were conducted within the framework of Vigyan Ashram, focusing on sustainable energy generation, water resource management, and ecological preservation.

In the biogas production project, an exhaustive energy audit was performed on Vigyan Ashram, along with a thorough visit to the biogas plant at Palande Ashram Mukhai. The project involved intricate design considerations for feedstock selection and processing. The Water Wheel Project involved meticulous load calculations for the wheel's operation and the steel supporting structure, contributing to the efficient utilization of water resources. This project aligns with the sustainable practices promoted by TUM Germany, emphasizing innovative solutions for harnessing natural energy.

The Grey Water Treatment project focused on revitalizing malfunctioning grey water systems within Vigyan Ashram. Through systematic maintenance and targeted interventions, the author successfully restored functionality to three grey water systems, which had previously been non-operational. Furthermore, an evaluation of Chemical Oxygen Demand (COD) in the inlet and collection tank's water highlighted the project's impact on improving water quality and resource management.

# EXTRA CURRICULAR

Extracurricular activities are essential for college students due to their numerous benefits. These activities foster skill development, personal growth, and networking. They enhance resumes, relieve stress, and provide real-world experience. Engagement in the community, leadership opportunities, and promoting work-life balance are also advantages. Moreover, extracurriculars allow students to explore career options and pursue their passions while improving academic performance. In essence, they enrich the college experience and contribute to holistic personal and professional development.

extracurricular activities provide college students with a multitude of benefits, including cultural awareness, improved health, creativity, and the development of valuable soft skills. They also offer long-term advantages and foster a deeper connection to the college community. Ultimately, participating in extracurriculars enriches the college experience and equips students with a diverse skill set for their future endeavors. extracurricular activities provide college students with a multitude of benefits, including cultural awareness, improved health, creativity, and the development of valuable soft skills. They also offer long-term advantages and foster a deeper connection to the college community. Ultimately, participating in extracurriculars enriches the college experience and equips students with a diverse skill set for their future endeavors.



Our Departmental Students participated in the Box Cricket competition held at Nagpur Institute of Technology, in this competition they secured third position.

## अबोल मी



"हसलो म्हणजे 'सुखात आहे ऐसे नाही...  
"हसलो म्हणजे दुखले नव्हते ऐसे नाही.  
"हसलो म्हणजे फक्त टाळले विवाद थोडे  
म्हणायचे ते म्हटलो सारे ऐसे नाही....

"हसलो म्हणजे फक्त स्वतःच्या फजितीवरती  
निर्लज्जागत दिधली होती स्वतःस टाळी  
"हसलो कारण शक्यच नव्हते दुसरे काही  
"डोळ्यामध्ये पाणी नव्हते ऐसे नाही....

"हसलो कारण दुसऱ्यांनाही बरे वाटते  
"हसलो कारण तुलासुद्धा खरे वाटते  
"हसलो म्हणजे फक्त डकवली फुले कागदी  
"आवुन आलो होतो डवरून ऐसे नाही....

"हसलो कारण शाखाची मन ओळख  
होती अम जाते अधिक शक्ति  
"हसलो कारण हिशोबास या दमलो नाही  
"हसलो कारण रडण्यामध्ये रमलो नाही....

"हसलो कारण जरी बत्तिशी कुरूप आहे  
खाण्याची अन् दाखवण्याची एकच आहे  
"हसलो कारण सत्याची मज भीती नाही  
"हसलो कारण फसण्याच धसका नाही..

भुपेश भिवगडे



## लढाई

फुलाने अपेक्षा केली का कधी ,  
फाट्या कडून आधारची ?

जमिनिने कधी वाट पाहिली का  
आभाळाच्या सावलीची ?

फिनाश्याला पाटली का कधी भिती ,  
समुद्राच्या पाण्याची ?

कधी वारयोन संगत धरली का  
शेवट पर्यंत पाचोळ्याची ?

अशीच लढाई आहे हे  
आपल्या एका जीवनाची .

फक्त एफटयानेच लढून  
आहे ती जिंकायची .... !

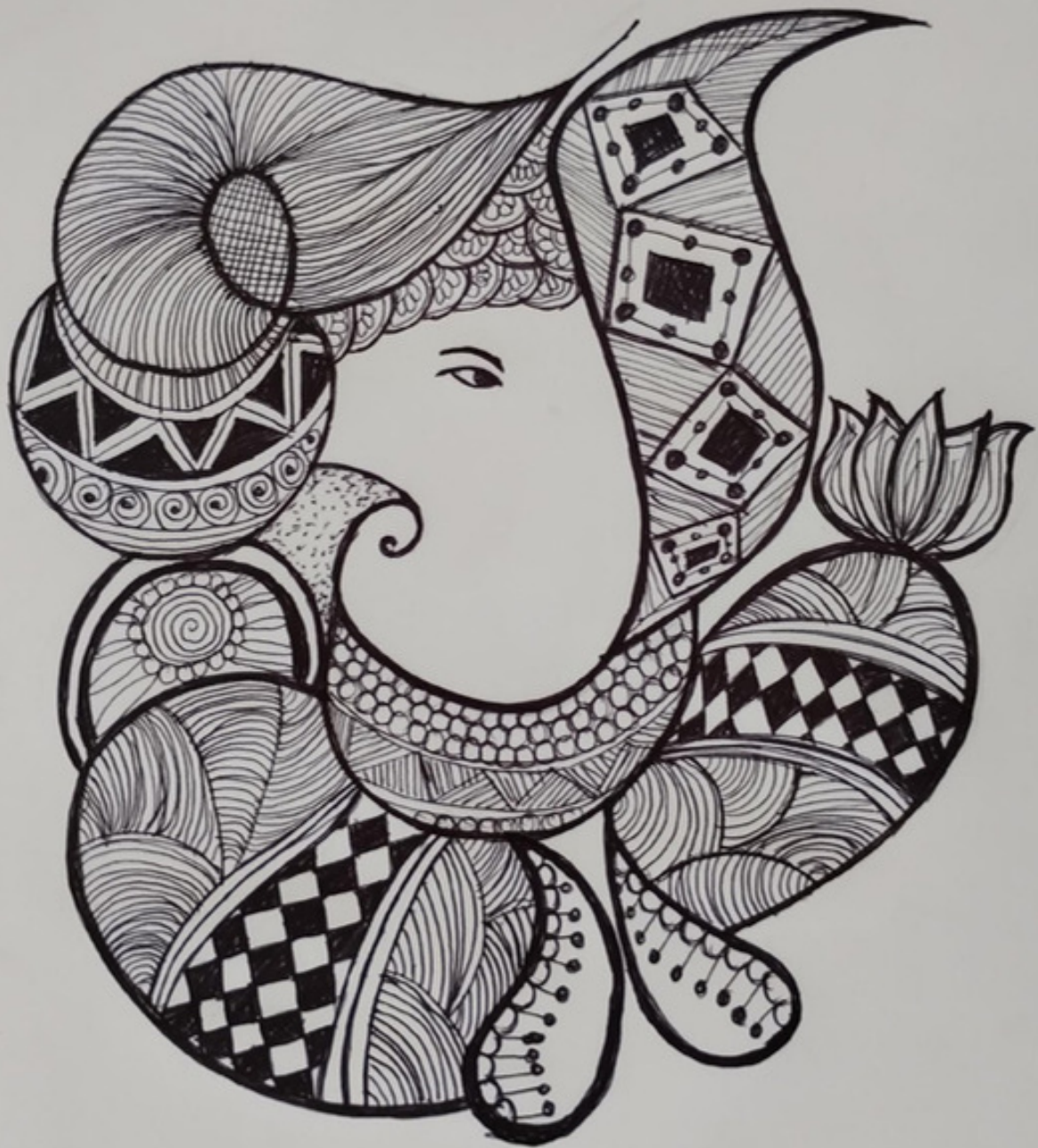
- Aachal K. Rana

# DRAWINGS



- By Prof. Shital Navghare





- ARCHAL K. RANA



-ARCHAL K. RANA



