

॥ न हि ज्ञानेन सदृशं पवित्रमिह विद्यते ॥




सुवीर्ष
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भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर
Indian Institute of Teacher Education, Gandhinagar

Issue : 09 • 20 October, 2023

ते का अनावरण

श्री गुरु सदैव

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भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर
 Indian Institute of Teacher Education, Gandhinagar



आइए एक साथ मिलकर करें
 1 अक्टूबर, सुबह 10 बजे, 1 घंटे
 स्वच्छता के लिए श्रमदान



Organised by:
 National Service Scheme (NSS)
 Centre of Education
 IITE Gandhinagar



भारत के यशस्वी प्रधानमंत्री श्री नरेंद्र मोदी जी द्वारा राष्ट्र को समर्पित मासिक रेडियो कार्यक्रम 'मन की बात' के 105 वें संस्करण के दौरान सभी देशवासियों से राष्ट्रपिता महात्मा गाँधी जी की पुण्य तिथि पर स्वच्छांजलि अर्पित करने का विचार प्रस्तुत किया गया। स्वच्छता के लिए 9 वर्ष पहले 2014 में जो अभियान प्रारम्भ किया गया था

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કુલપતિશ્રીનો સંદેશ

Dear Readers,

I am delighted to extend my warmest greetings to all of you through the pages of our beloved Monthly Newsletter 'સુતીર્થ'. As the Vice Chancellor of this esteemed institution, I am constantly inspired by the talent, dedication, and creativity that our students, faculty, and staff bring to our campus community.

Our Monthly Newsletter serves as a testament to the vibrant culture of learning and intellectual curiosity that defines our institution. Within these pages, you will find a myriad of stories, articles, and features that showcase the remarkable achievements and contributions of our academic community.

This month's issue highlights not only the academic accomplishments of our students but also the innovative research endeavors undertaken by our faculty members. It brings to light the diverse range of activities and initiatives that make our institution a hub of knowledge and innovation.

I encourage you to immerse yourselves in the contents of this magazine, as it offers a glimpse into the heart of our academic community. It is a reflection of our commitment to excellence, inclusivity, and the pursuit of knowledge that empowers individuals to make a positive impact on the world.

I would like to express my heartfelt gratitude to the editorial team, writers, photographers, and all those who have contributed to this issue. Your dedication and hard work have brought this magazine to life, and I am truly appreciative of your efforts.

I invite all readers to actively engage with the magazine, share your feedback, and contribute



your own stories and ideas. Together, we can continue to enrich the intellectual discourse on our campus and inspire future generations of leaders, thinkers, and innovators.

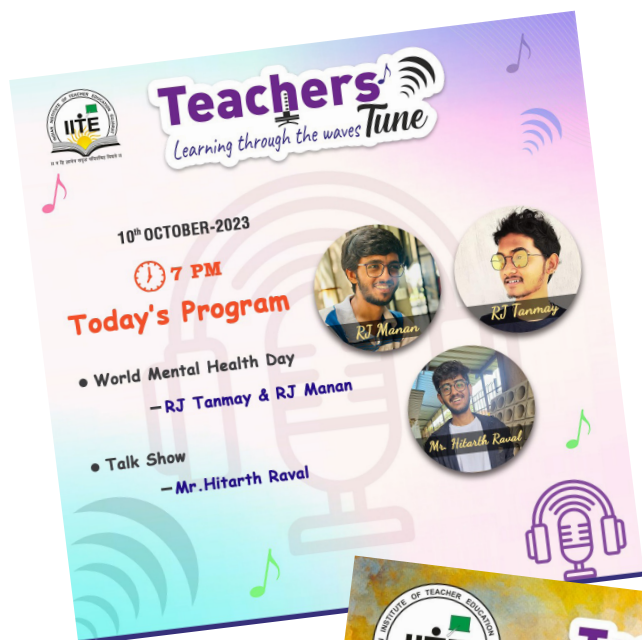
Thank you for your continued support and enthusiasm. I look forward to witnessing the continued growth and success of our academic community, as we collaborate to create a brighter future through education.

Warm regards,

Dr. Harshad A. Patel
Vice Chancellor
IITE, Gandhinagar

Paras Yadav
Public Relations Officer
cum Publishing Officer
IITE, Gandhinagar

5 Ws of Teacher's Tune: Online Radio Station of IITE



Over the period of time, Radio has proved itself as one of the most crucial means of Mass Communication. It has been with us when our country was ruled by British, during the Independence Movement and Post-Independence. Its shape, size and form might have evolved over the period of time but its effect remains the same.

Some of the key highlights of this medium are:

- Wide Range of Audience
- Literacy not required
- Easy to use
- Available in variety of forms

Recently “Mann Ki Baat”, an initiative by our Honorable PM Narendra Modi completed 9

Years. Research by SBI and IIM Bengaluru, has analysed the societal impact of 105 episodes of the Prime Minister's Mann Ki Baat.

Who?

Inspired by “Mann Ki Baat”, Our Vice Chancellor Sir Dr. Harshad A. Patel launched the Internet Radio Station called Teacher's Tune back on 18th November 2020.

Together Students, Faculty and Staff Members of IITE work hard for the long-term vision of Honorable VC Sir and to create content for the Internet Radio Station. Introducing radio in educational institutions can offer numerous benefits from enhancing the overall learning

experience to fostering a conducive educational environment.

What?

We at Indian Institute of Teacher Education (IITE), Gandhinagar understand the importance of Radio. Teacher's Tune involves students and faculty members to run a daily online show at 7 pm sharp. The link and theme of the same is shared through Social Media Platform of the organization.

This allows everyone who is or isn't part of the institution to get involved and participate in various programs. Language is no barrier for Teacher's Tune.

Why?

Here are several reasons why radio can be valuable in educational institutions:-

Educational Content: Radios can broadcast educational programs, lectures, and

discussions, providing students with access to a variety of educational content. This content can supplement classroom teaching and offer diverse perspectives on different subjects.

Accessibility: Radio is accessible to a wide audience. This makes it an inclusive medium, ensuring that educational content reaches students from all socioeconomic backgrounds.

Engagement: Radio shows can be interactive, encouraging student participation through call-ins, quizzes, and discussions. Interactive programs can engage students actively, encouraging critical thinking and active learning.

Cultural and Language Preservation: Radio can be used to preserve and promote local languages and cultures. It can broadcast content in regional languages, preserving linguistic diversity and cultural heritage.

Life Skills Education: Radio programs can focus on life skills education, teaching students about essential skills such as financial literacy, time management, and interpersonal skills. These skills are crucial for personal development and future success.

Professional Development: Educational radio programs can be used for professional development, providing teachers and staff with valuable insights, training, and resources to enhance their teaching methods and approaches.

Creativity and Expression: Radio offers a platform for students to express their creativity. They can create and broadcast their own content, such as music, poetry, stories, and debates, encouraging creative expression and



boosting self-confidence.



Skill Development: Radio production involves various skills such as scripting, editing, sound engineering, and hosting. Introducing radio in educational institutions can provide students with opportunities to develop these technical and communication skills.

Distance Learning: Radio can be utilized for distance learning programs, reaching out to students in remote areas where internet access might be limited. This helps in ensuring that education is accessible to everyone, regardless of their geographical location.

When?

Teacher's Tune goes live at 7pm daily. All the listeners are provided prior information regarding the

show. Information is shared with other student and faculty members using a Flyer, Social Media Platforms (Facebook, Instagram, and X). The given link can be used to tune-in at 7pm.

Where?

Since, it is an Online Radio. This allows students, faculty members, staff members and others to join from anywhere. The online radio allows one to tune-in whenever, wherever they want. Tune in at 7pm today!!!

Teacher of Tomorrow: New Gurus



The teacher is a wonderful person with the ability to shape the future of society. A teacher holds both the power and the responsibility to nurture both a destroyer and a developer;

Rishi Vasishtha who educated Shree Ram, Guru Chanakya who shaped the great Chandragupta Maurya, and Ramakrishna Paramhansa who bestowed wisdom upon Swami Vivekananda

a teacher is the farmer of minds. A teacher is a wonderful creation of the god. If we delve into the history of teachers, in ancient times, teachers were referred to as Gurus. They were the builders of character, advisors to the king's administration, and managers. But as time passed, everything changed, and this change made society forget the crucial role of gurus. They forgot that it was Rishi Vasishtha who educated Shree Ram, Guru Chanakya who shaped the great Chandragupta Maurya, and Ramakrishna Paramhansa who bestowed wisdom upon Swami Vivekananda, among many others who enlightened the youth of this country.

At present, we are struggling to find a place

for teachers in society. Teaching has merely become a source of income. The government views teachers as liabilities; on the other hand, private institutes are exploiting the teaching profession. The modern developing society has neglected the role of teachers in development. This modern society is an idea that originated from the West, and it lacks a philosophical foundation for teachers, providing no place for them in the development of society. When the British altered the education system in India, we lost the significance of the Gurus and their selfless contribution to the nation's betterment. Today, influenced by Western practices, Gurus have become teachers, and teachers have become mere sources of information. To exacerbate matters, we have begun comparing teachers to Artificial Intelligence (AI) and machine learning, raising concerns about the potential replacement of teachers by AI. Since independence in 1947, our education system has failed to define the role and significance of teachers

in society. Several policies have been introduced, including the National Policy on Education 1964, National Policy on Education 1986, Programme of Action 1992, and National Education Policy 2020, yet these policies have failed to delineate the character of teachers. Nowadays, people aspire to become teachers, not by choice but out of necessity. People perceive the teaching profession as a career with no clear roles or responsibilities. If India aspires to become the Vishva Guru, we must rediscover the gurus of our country and bestow upon them the respect they deserve. This can only be achieved through the "Bharatisation" of the education system, where teachers are addressed as gurus. The term itself carries power and respect. Every teacher must recognize the importance of

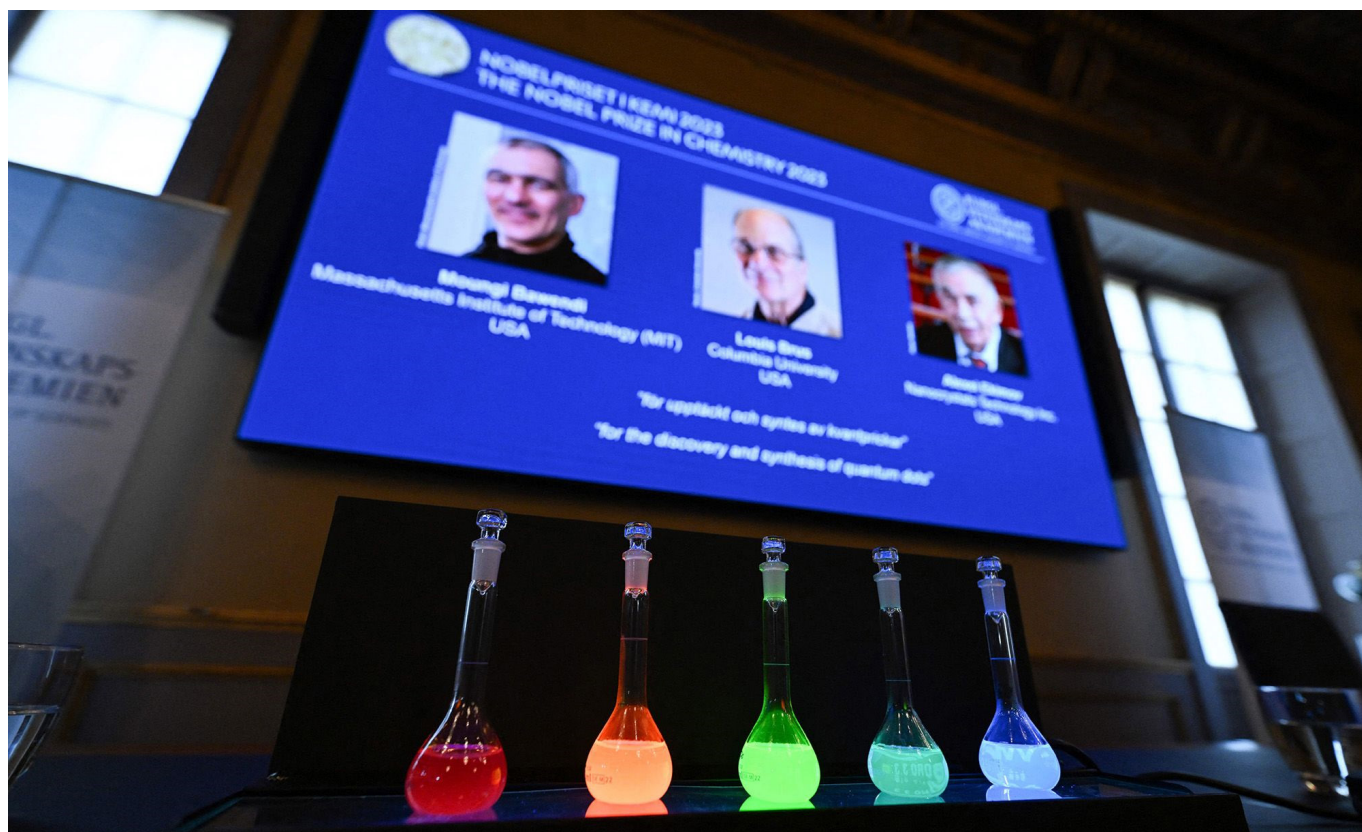


their individual role in society. Teachers must embody all the qualities of gurus: selflessness, generosity, guidance, motivation, and nation-building. Teachers can never become gurus until they are willing to make sacrifices for the development of society. The teachers of tomorrow are the key components of sustainable education and sustainable development. It is high time for our society to acknowledge the significance of gurus and

for teachers to embrace their roles as gurus. The teachers of tomorrow are the architects of a more sustainable, equitable, and prosperous society. They are called to be adaptable, lifelong learners themselves, and champions of educational innovation. Through their dedication, they will ensure that the legacy of gurus endures, grounded in the wisdom of the past and guided by the demands of the future. It is time for our society to recognize this evolving role and for teachers to embrace it with a renewed sense of purpose, knowing that they shape not just the future of individuals, but the destiny of nations. The Indian knowledge system is going to be a key factor for the development of teachers with the perspective of Bharatisation and character building of the teacher of tomorrow: new Gurus.

Since independence in 1947, our education system has failed to define the role and significance of teachers in society

Quantum Dots: Powerful Weapon against Cancer



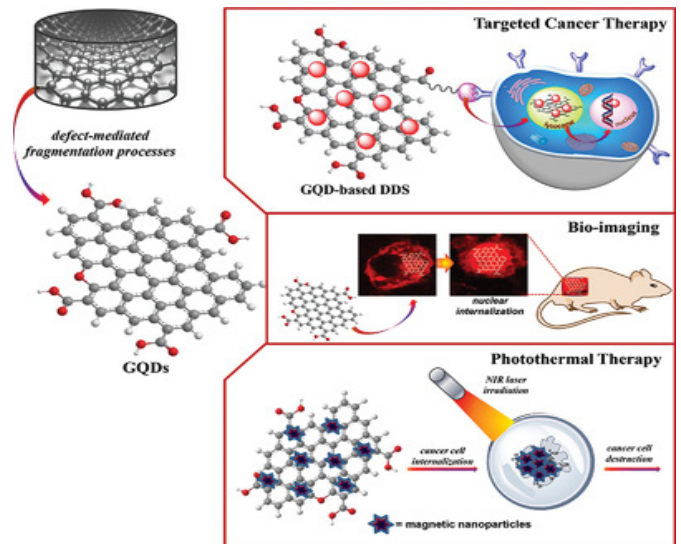
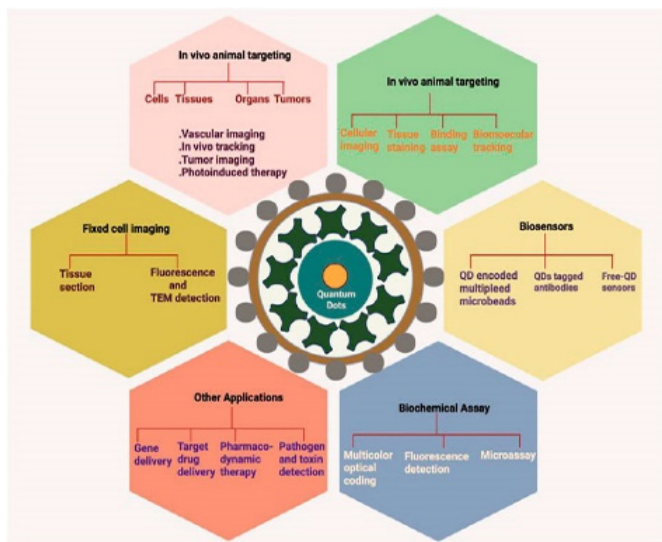
On the 4th of October, the Nobel Prize for chemistry was awarded jointly to Moungi Bawendi, Alexey Ekimov, and Louis Brus for their discovery of Quantum dots.

The word 'Quantum dot' was coined by Louis Brus, an American physical chemist in late 1982. Brus and his group continued working on quantum dots. Bawendi was a postdoctoral fellow under Brus in the late 1980s, and later, as a professor at MIT (Massachusetts Institute of Technology), he developed a method for producing high-quality quantum dots of a consistent size. Today quantum dots are used in many applications, including in QLED (quantum-dot light-emitting diode) screens, in solar cells, and as markers in biomedical imaging.

In this article, we will mainly focus on the use

of quantum dots in the treatment of Cancer. Cancer remains a global public health problem as the leading cause of death in developed countries and the second leading cause of death in developing countries. Over the past few decades, numerous studies have focused on the regulation of cell adhesion and cytoskeletal dynamics as the mechanisms of cancer invasion and progression.

However, they have largely failed to define the rate-limiting mechanisms that govern cancer invasion and progression, such as the dominant signaling pathway, receptor–ligand interactions, or protease–substrate interactions. At present, cancer invasion is regarded as a heterogeneous and adaptive process with a tumor microenvironment. The tumor



microenvironment, composed of tumor stromal components, host cells, and adjacent supporting tissues, is an intrinsic element because of its dynamic interactions with the tumor for continued tumor growth and progression.

Once the tumor microenvironment responds to the tumor cells, components such as fibroblasts, endothelial cells, and macrophages could be activated and could release functional factors that promote or inhibit cancer invasion.

Thus, tumor cells influence the microenvironment and vice versa, jointly reciprocally driving cancer progression. Thus, to intensively explain the mechanism of cancer invasion and progression, understanding the biological behavior during tumor progression is necessary, and the appropriate approach for understanding the biological behavior of cancer should be established.

Nanotechnology is a promising platform in cancer molecular imaging. Quantum dots (QDs) are being intensively studied as a novel probe for biomedical imaging both in vitro and in vivo because of their unique optical and electronic characteristics. To overcome the obstacles of QDs for biomedical imaging, the physicochemical properties of QDs such as size, shape, composition, and surface features have been extensively investigated.

Application of QD-based Nanotechnology for cancer research:

- **Prostate cancer:** A classic example of cancer detection was demonstrated by Gao et al who labeled human prostate cancer cells based on the conjugate of QDs with an antibody for prostate-specific membrane antigen (PSMA)
- **Breast Cancer:** Human Epidermal Growth Factor Receptor 2 (HER2) is over-expressed in approximately 25% to 30% of BC patients and has an important function in cancer progression.
- **Ovarian Cancer:** Recent studies have validated the value of HER2 detection for BC treatment and prognosis of Ovarian Cancer. QDs can also be used to detect the ovarian carcinoma marker CA125 in different types of specimens, such as fixed cells, tissue sections, and xenograft pieces. Additionally, the photostability of QD signals is more specific and brighter than that of conventional organic dye.
- **Gastrointestinal Cancer:** Bosticket al detected the five biomarkers on the same tissue slide by QD-based multiplexed imaging, from which more biomarkers could be measured using multiple slides each stained with the five different biomarkers.

In short, from the above research, it is proved that the till now appalling number of human deaths due to cancer will be greatly reduced in the coming years and full credit can be given to quantum dots and nanotechnology.

संजय कुमार यादव
सहायक आचार्य
भारतीय शिक्षक प्रशिक्षण संस्थान,
गांधीनगर

स्वच्छता, संकल्प और सम्मान



भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर
Indian Institute of Teacher Education, Gandhinagar

Swachhata Hi Seva
11 September - 9 October 2023

**आइए एक साथ मिलकर करें
1 अक्टूबर, सुबह 10 बजे, 1 घंटे
स्वच्छता के लिए श्रमदान**

Organised by:
National Service Scheme (NSS)
Centre of Education
IITE Gandhinagar



Swachhata Hi Seva
Ek Tareekh, Ek Ghanta
10 am
1st OCTOBER 2023

स्वच्छता पखवाड़ा
स्वच्छता ही सेवा २०२३

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Keep Your Surrounding Clean



भारत के यशस्वी प्रधानमंत्री श्री नरेंद्र मोदी जी द्वारा राष्ट्र को समर्पित मासिक रेडियो कार्यक्रम 'मन की बात' के 105 वें संस्करण के दौरान सभी देशवासियों से राष्ट्रपिता महात्मा गाँधी जी की पुण्य तिथि पर स्वच्छांजलि अर्पित करने का विचार प्रस्तुत किया गया। स्वच्छता के लिए 9 वर्ष पहले 2014 में जो अभियान प्रारम्भ किया गया था उसी के तहत प्रत्येक वर्ष नियमित रूप से देश के सभी भागों को स्वच्छ रखने में तथा स्वच्छता का संदेश जन-जन तक पहुंचाने के लिए विभिन्न कार्यक्रमों का आयोजन किया जाता है।

स्वच्छांजलि के रूप में इस वर्ष कार्यक्रम का मुख्य उद्देश्य राष्ट्र के सभी नागरिकों द्वारा एक तारीख, एक घंटा, एक साथ स्वच्छता के लिए श्रमदान करना तथा स्वच्छता ही सेवा है जैसे भाव से प्रेरित होकर सदैव दृढ़ संकल्प होकर राष्ट्र को स्वच्छ, सुंदर एवं सशक्त बनाने में अपनी-अपनी भूमिका सुनिश्चित करते हुये सम्मान की अनुभूति प्राप्त करना है।

इसी कार्यक्रम के सन्दर्भ में आदरणीय कुलपति महोदय डॉ. हर्षद पटेल जी के मार्गदर्शन में भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर द्वारा एक कार्यक्रम का आयोजन किया गया, जिसमें विशिष्ट अतिथि के रूप में आदरणीय प्रो. सी. बी. शर्मा जी, इंदिरा गांधी अंतरराष्ट्रीय मुक्त विश्वविद्यालय, दिल्ली से आये हुए थे। जिन्होंने अपने संबोधन में स्वच्छता अभियान के महत्व पर प्रकाश

डालते हुए बताया कि हमें अपने आस-पास के वातावरण को सदैव स्वच्छ रखना चाहिए। जिससे हम स्वतः अनेक प्रकार की बीमारियों से बच सकते हैं। पूर्व से निर्धारित कार्यक्रम के अनुसार सभी अधिकारियों, प्राध्यापकों, विद्यार्थियों एवं कर्मचारियों को अलग-अलग समूहों विभाजित किया गया था। जिनको संस्थान ही नहीं बल्कि संस्थान के चारों तरफ रास्तों के किनारों पर साफ-सफाई करने की जिम्मेदारी प्रदान की गई।

भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर द्वारा आयोजित एक तारीख, एक घंटा, एक साथ राष्ट्रीय स्वच्छता अभियान कार्यक्रम में शामिल होना और कार्यक्रम को सफल बनाने में सभी प्राध्यापकों, अधिकारियों एवं NCC और NSS के छात्रों के साथ-साथ सभी विद्यार्थियों का योगदान अत्यंत सराहनीय रहा। राष्ट्रीय स्वच्छता अभियान में सहयोग और श्रमदान करने को लेकर संस्थान के सभी प्राध्यापकों एवं विद्यार्थियों में जो उत्साह देखने को मिला वह वास्तव में बहुत ही प्रशंसनीय था।

सभी ने एक साथ मिलकर साफ-सफाई का कार्य किया और स्वच्छता अभियान को सफल बनाने और जन-जन तक 'स्वच्छता ही सेवा' का भाव और संदेश पहुंचाने में सभी ने अपना सर्वश्रेष्ठ योगदान और श्रमदान दिया। इस कार्यक्रम की सफलता के लिए आप सभी अधिकारियों, प्राध्यापकों, विद्यार्थियों एवं कर्मचारियों को सहृदय कोटि-कोटि आभार।

CTET 2023 Results: Students of IITE Set Benchmark

Central Teacher Eligibility Test (CTET) is a national-level entrance exam for those candidates who aspire to pursue a career in teaching. CTET aims to bring in quality teachers for various schools in India, including government and private schools. The importance of conducting CTET can be defined in the following ways:

1. Setting Standards: CTET is conducted as per the guidelines of the National Council for Teacher Education (NCTE). It sets the standards for teaching methodology and helps to maintain quality education across schools in India. CBSE conducts the CTET exam twice a year (July and January Sessions) to screen the eligible candidates who wish to apply for the post of teacher in Government and Private Institutions.

2. Eligibility Requirements: Candidates must have completed graduation (in any discipline) with at least 50% marks along with a Bachelor of Education (B.Ed.) or those who have completed post-graduation (in any discipline) with a minimum of 55% marks or equivalent grade along with a 3-year integrated B.Ed. M.Ed. can appear for CTET Exam Paper I (Primary Class: I to V) and Paper II (Secondary Class: VI to VIII).

3. Enhance employability: Clearing the CTET exam adds value to the candidate's resume. It makes them more employable and eligible to be selected for teaching careers.

4. Overall Development: The CTET exam is designed to assess the overall development and proficiency levels of a candidate in the field of teaching. It assesses the candidate's knowledge of basic concepts of Maths, Science, Social Science, and Languages and pedagogical knowledge about child development.

5. Sustainable Growth: The CTET exam sets a benchmark for aspiring teachers. This exam helps to maintain the quality of teaching and ensures that the teaching profession attracts the best talent. Viewing this, CTET has a crucial role in sustainable growth in the education sector.

IITE: CTET Qualifiers

Indian Institute of Teacher Education (IITE) is truly an academically elite university. The number of accolades our prospective teachers earned this semester indicates the quality of education imparted by IITE. We are aware that prospective teachers need to qualify for the Central Teacher Eligibility Test (CTET) to ascertain their eligibility to work as teachers in central government schools namely, Kendriya Vidyalaya, Sainik Schools, and Navodaya Vidyalayas and private schools. The recent CTET exam for the July session was held on August 20, 2023, in offline mode at various examination centers across the country. The result was released on September 25, 2023.

A total of 111 prospective teachers and teacher educators appeared for the CTET exam this time. This is indeed a proud moment to share the inspiring and heartening news that 51 Undergraduate, 11 Postgraduate, 1 from an integrated B.Ed.M.Ed. Program and 4 Ph.D students also got certified. The statistics data displays the success rate of 60.36 % of our students in this competitive exam.

To conclude, CTET is an important exam that builds credibility for the teaching profession and sets a standard for the teaching methodology to ensure quality education in India.

The statistics data displays the success rate of 60.36 % of our students in this competitive exam



INDIAN INSTITUTE OF TEACHER EDUCATION, GUJARAT
A State Public University Established by Government of Gujarat

Congratulations RISING STARS OF IITE FOR QUALIFYING CTET EXAM 2023

Sr. No.	Name	Course	Semester	Sr. No.	Name	Course	Semester
1	Riya Patel	B.Sc.B.Ed	7	35	Sevak Om	B.Sc.B.Ed	5
2	Kush Sureja	B.Sc.B.Ed	3	36	Isha Dave	B.Sc.B.Ed	5
3	Jadav Drushtiben Dasharathbhai	B.Sc.B.Ed	7	37	Prajapati Tanmay Maheshbhai	B.Sc.B.Ed	7
4	Maitri Pandya	B.Sc.B.Ed	7	38	Swati Shukla	B.Sc.B.Ed	5
5	Aashita Bachani	B.Sc.B.Ed	7	39	Dabhi Dharmishtha	B.Sc.B.Ed	5
6	Komal G. Mangnani	B.Sc.B.Ed	7	40	Rahul Chhetariya	B.Sc.B.Ed	3
7	Rajasree Mal	B.Sc.B.Ed	7	41	Agravat Jayraj K	B.Sc.B.Ed	7
8	Prince Khatri	B.Sc.B.Ed	5	42	Ruchi Y Patel	B.Sc.B.Ed	5
9	Navghan Kantibhai Ahir	B.Sc.B.Ed	7	43	Hitarth Pandya	B.Sc.B.Ed	5
10	Patil Kirit Bhartkumar	B.Sc.B.Ed	7	44	Jinal Bhagora	B.Sc.B.Ed	7
11	Karnik Pandya	B.Sc.B.Ed	5	45	Digvijaysinh Solanki	B.A. B.Ed	7
12	Dharmikdan Rohadiya	B.Sc.B.Ed	3	46	Kshiti Patel	B.A. B.Ed	7
13	Kirtan Bhardwaj	B.Sc.B.Ed	5	47	Niyati Jani	B.A. B.Ed	5
14	Rushik Baria	B.Sc.B.Ed	3	48	Anjali	B.A. B.Ed	5
15	Rathod Naisargi	B.Sc.B.Ed	3	49	Deepakshi Narula	B.A. B.Ed	5
16	Yamini Suryavnsi	B.Sc.B.Ed	5	50	Anil	B.A. B.Ed	5
17	Ridham Shrimali	B.Sc.B.Ed	7	51	Akanksha Hada	B.A. B.Ed	7
18	Niyati Dashrathkumar Thakkar	B.Sc.B.Ed	7	52	Prasad Prabhu	M.Sc.M.Ed	1
19	Keval Vaishnav	B.Sc.B.Ed	7	53	Drashti Gokani	M.Sc.M.Ed	3
20	Sanskruiti Joshi	B.Sc.B.Ed	5	54	Mohit Patel	M.Sc.M.Ed	5
21	Avani Solanki	B.Sc.B.Ed	5	55	Milan Andarpa	M.Sc.M.Ed	3
22	Mitali Sursinhbhai Parmar	B.Sc.B.Ed	7	56	Vaniya Yashvantbhai Mansukhbhai	M.Sc.M.Ed	3
23	Mayur Mevada	B.Sc.B.Ed	7	57	Darshan Chaudhary	M.Sc.M.Ed	3
24	Kena Oza	B.Sc.B.Ed	5	58	Mangukiya Darshan Bhautikbhai	M.Sc.M.Ed	1
25	Reetu Sagar	B.Sc.B.Ed	7	59	Joshi Kartik	M.Sc.M.Ed	1
26	Patel Khushi Maheshbhai	B.Sc.B.Ed	5	60	Yesha Patel	M.Sc.M.Ed	1
27	Khushi Shah	B.Sc.B.Ed	7	61	Rahul Mina	M.Sc.M.Ed	1
28	Srishti Giri	B.Sc.B.Ed	7	62	Aayushi Gor	M.A.M.Ed	3
29	Snehal Jani	B.Sc.B.Ed	5	63	Keravi Chaudhari	B.Ed. M.Ed.	5
30	Saloni Gola	B.Sc.B.Ed	5	64	Ayush Gandhi	PhD	3
31	Kena Ashish Patel	B.Sc.B.Ed	7	65	Janvi Joshi	PhD	1
32	Harman Kaur	B.Sc.B.Ed	5	66	Darji Janki	PhD	1
33	Dodiya Harsha	B.Sc.B.Ed	5	67	Joshi Ayushi	PhD	3
34	Ruchi Y Patel	B.Sc.B.Ed	4				

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Ramkrishna Paramhans Education Complex, Nr. Mahatma Mandir "KH"-5, Sector 15, Gandhinagar.

Role of Literature in Education

Literature and Teacher Education:

The current cultural and linguistic chauvinism, along with some misinterpretation of the provisions provided in NEP 2020, has led to the rise of a debate on languages and literature in the form of questions like:

- Why study 'The Literatures' other than national literatures (i.e. written in our languages or English by Indians)?
- Is it not enough to study the literature/s of the country to which one belongs?

The only way of answering the above questions is by answering a few counter questions like –

- What is the aim of our education?
- What kind of teachers do we intend to make?
- What are the possible solutions to the current linguistic and cultural crisis we are facing in the country and across the globe?
- What is the expected contribution of the prospective teachers to the society and community in general?

There are many questions, and surprisingly, a possible answer lies in teaching works of literature belonging to all parts of the world, not just that of one's own country. You may ask, how?

First, it is essential to understand, the 'Humanities' of which Education is a part too, along with Language, Literature, and Culture Studies. Then, an understanding of what is Literature, its significance, and its contribution to the holistic education of learners, is essential.

Humanities is a broad and interdisciplinary field of study that focuses on the exploration, analysis, and interpretation of various aspects of

human culture, history, language, art, literature, philosophy, and the human experience.

This field is integral to gaining insight into the values, beliefs, achievements, and challenges that have shaped and continue to shape human societies.

Humanities play a crucial role in helping us understand the human condition, fostering critical thinking, and promoting cultural appreciation. Humanities also intersect with other academic disciplines and are essential for a well-rounded education.

Literature refers to written or spoken works of creative expression that convey ideas, emotions, stories, and experiences. It is a form of art and communication that encompasses a wide range of genres, styles, and themes. Literature is typically characterized by its use of language and narrative structures to convey meaning and engage readers or audiences.

Literature has also been defined variedly as one that holds a 'mirror to nature'. Thus, literature is integral to gaining insight into the values, beliefs, achievements, and challenges that shaped and continues to shape human

Literature is integral to the humanities because it provides valuable insights into the human experience, culture, history, and society

cultures, communities, and societies.

Language & Literature: Literature is primarily composed of language. Authors use words, sentences, and linguistic devices to convey their ideas and emotions. The choice of language, vocabulary, and style can significantly impact the interpretation of a literary work. And no language is innocent; it carries the baggage of the culture, aspirations, and heritage of the people who use it.

Literature allows readers to connect with the emotions and perspectives of the author or characters, and the beauty of literature lies in the fact that it can take various forms, including novels, short stories, poems, plays, essays, and more.

One of the most important considerations in studying literature is that literary works reflect the cultural and historical context in which they were created. They address societal issues, beliefs, and values of a particular time and place and invite the readers to engage with the text and interpret its meaning. Different readers may have varying interpretations of the same work, making it a subject of discussion and analysis. It also serves a range of purposes, including entertainment, education, cultural preservation, and social commentary.

Literature also serves as an important medium for exploring complex ideas, conveying moral or philosophical messages and challenging societal norms. Literature is a valuable part of the humanities and plays a significant role in understanding the human experience and the diverse forms of human expression.

Literature is integral to the humanities because it provides valuable insights into the human experience, culture, history, and society.

Literature contributes to a holistic understanding of the human experience, offering readers the opportunity to explore different cultures, times, and perspectives. It encourages critical thinking, empathy, and a deeper appreciation for the complexities of the human

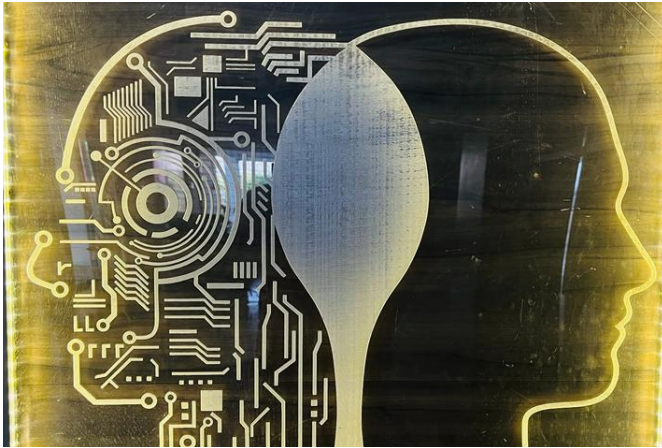
Literature is a valuable part of the humanities and plays a significant role in understanding the human experience and the diverse forms of human expression

condition, making it an essential part of the humanities. A common experience of reading and understanding pieces of literature from across the world is that humans everywhere have the same set of feelings and emotions, have a similar set of ethical and moral values, and undergo myriad sets of dilemmas and experiences that dictate their behavior and actions, positive or negative. No emotion or behavior is cultural or religious specific, they are all purely experiential, which each individual undergoes in a lifetime and that is the beauty of literature, as it unites humanity across the globe. Similarly, all religious beliefs teach faith, tolerance, humility, and compassion, a way of existence, only humans are capable of, because of our thinking ability.

The primary purpose of the humanities is to understand better and appreciate the complexities of human existence and expression and understand that it is about humans, about us, distributed demographically and geographically, which is also the objective and goal of literature. In a lifetime each one of us may not be able to visit all the countries across the world to understand the diversity of cultures, religions, ethnicities, communities, races, etc.,

Hence, studying literature(s) is doubly essential in Teacher Education, if we want our prospective teachers to be tolerant, broad-minded, globally competent, problem-solvers and leaders, which is the demand of present difficult times as the world faces chaos and crisis.

Reimagining Education: Artificial Intelligence (AI) Era



In the dynamic landscape of education, Artificial Intelligence (AI) stands as a dual-edged phenomenon, being both a promising beacon of opportunity and an inherent source of apprehension. Within this context, the overarching goal of AI within the realm of education is to bestow upon us the insights and pragmatic measures requisite for embracing AI within our pedagogical endeavors with unwavering confidence.

The integration of Artificial Intelligence (AI) tools in education is revolutionizing the way we learn, teach, and engage with educational content. With AI, educators can personalize learning experiences, cater to individual needs, and foster a more inclusive and efficient learning environment.

AI-powered chatbots and virtual tutors provide immediate assistance to students, addressing their queries and offering guidance around the clock. Machine learning algorithms analyze vast datasets to identify areas where students struggle, allowing educators to intervene proactively.

Adaptive learning platforms adjust content and pace in real-time, ensuring that each student progresses at their optimal speed. Furthermore, AI enhances the assessment process.

Automated grading systems reduce the burden on educators, freeing up valuable time for more meaningful interactions with students. Natural language processing (NLP) tools enable essay grading with remarkable accuracy, providing constructive feedback to improve writing skills.

AI also plays a crucial role in the creation of customized content. Intelligent content generators produce tailored materials, including quizzes, lectures, and learning resources, to match the specific needs of learners. This fosters engagement and motivation by presenting information in engaging and interactive formats.

Ethical concerns surrounding AI in education, such as data privacy and algorithmic bias, are addressed to ensure responsible implementation. As AI continues to evolve, educators must adapt their pedagogical approaches to harness its full potential while safeguarding the principles of fairness and privacy.

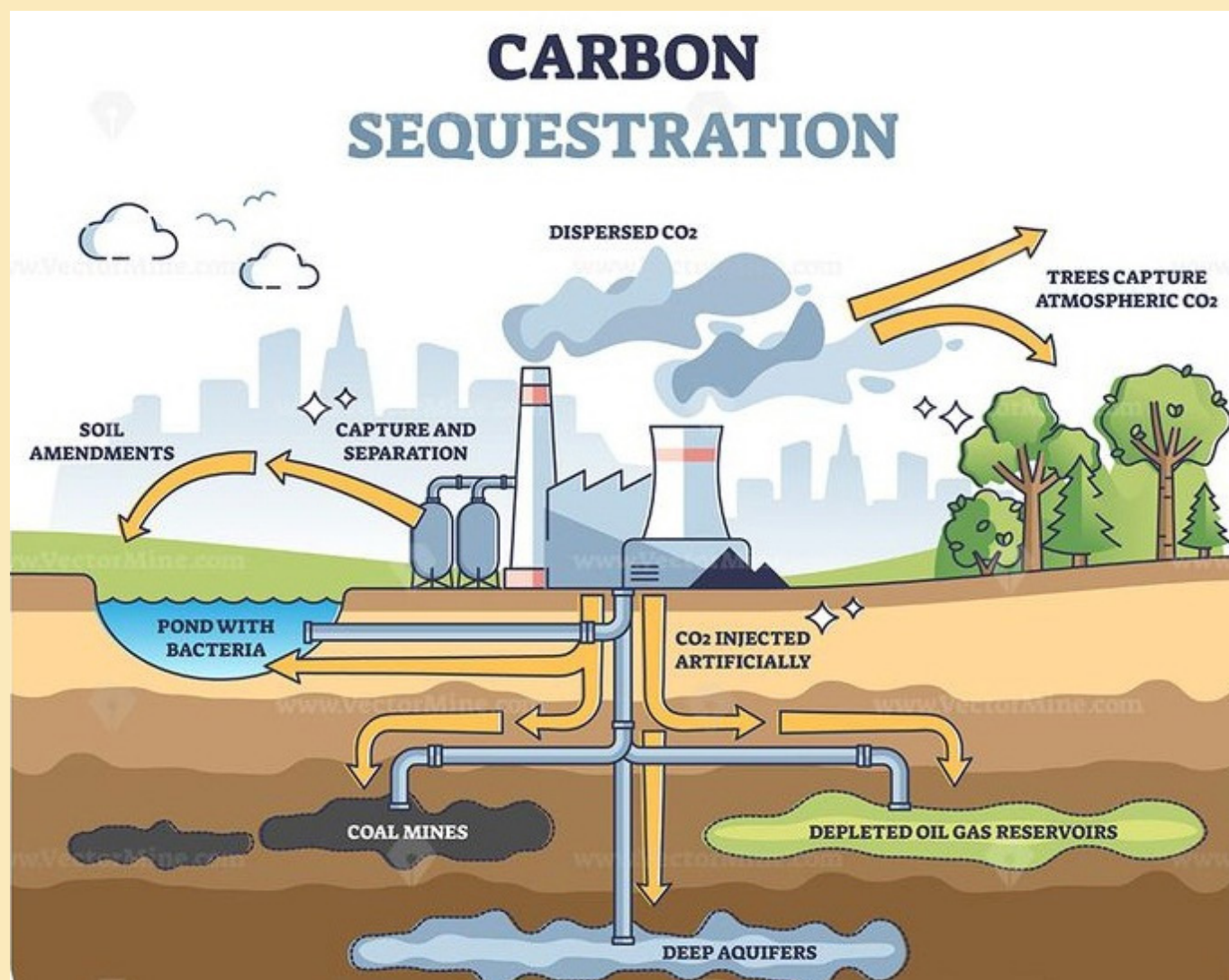
In conclusion, AI tools are reshaping the educational landscape, empowering educators and students alike. By harnessing the capabilities of AI, we can create a more accessible, personalized, and effective learning ecosystem that prepares learners for the challenges of the future. Embracing AI in education is not just a technological advancement; it is a transformative step for shaping the next generation of learners and leaders.

Research: Carbon Sequestration of Selected Plants: A Step towards Decarbonization

Total energy-related greenhouse gas (GHG) emissions increased by 1.0% to an all-time high of 41.3 Gt CO₂-eq. (CO₂ equivalent). Carbon dioxide emissions from energy combustion and industrial processes accounted for 89% of energy-related greenhouse gas emissions in 2022. Consequently, the concentration of atmospheric GHGs and their radiative forcing have progressively increased with the increase

in human population, but especially so since the onset of the Industrial Revolution around 1850. The concentration of carbon dioxide (CO₂) has increased by 31% from 280 ppmv (parts per million volumes) in 1850 to 380 ppmv in 2005 and is presently increasing at 1.7 ppmv per year.

By considering the challenge of increasing level of Carbon dioxide and looking forward to the solution to this problem, the two students





of IITE pursuing M.Sc.M.Ed Hemkalyani Patel and Priya Singh has performed research on the Non-destructive method to analyze Carbon in the plants of selected area of Gandhinagar. The research was performed in the academic year 2022-2023 under the guidance of Dr. Roshni Adiyecha, Assistant Professor Botany.

Carbon sequestration is the long-term storage of carbon in plants, soils, geologic formations, and the ocean. Carbon sequestration occurs both naturally and as a result of anthropogenic activities and typically refers to the storage of carbon that has the immediate potential to become carbon dioxide gas. Plants have a greater role in sequestering and converting the CO₂ in biomass. The annual rate of photosynthesis is 120 Pg C (Peta grams of carbon), most of which is returned to the atmosphere through plant and soil respiration. Forests are known to absorb twice the amount of carbon they emit, and globally, forests absorb 29% of the total carbon emitted from the burning of fossil fuels.

All plants have different capacity to capture and store the carbon. The research of Hemkalyani and Priya deals with the carbon sequestration capacity of different plants from the selected area of Gandhinagar, Gujarat.

The data was collected from the Indian

Institute of Teacher Education, Sector 15, and KH Road, Gandhinagar from June 2022 to March 2023. Quantifying the biomass of trees, without cutting them is helpful to know how much the tree can sequester carbon. This study is thus unique in itself as it studies the amount of carbon stored in selected species of Gandhinagar, by using a non-destructive method.

The plants for the data collection were selected based on their habit mainly focusing on plant height and girth. The predominant tree species in the region are *Azadirachta indica*, *Cassia fistula*, *Cordia sinensis*, *Kigelia Africana*, *Acacia nilotica*, and *Samanea saman* (Jacq.) Merr, *Holoptelea integrifolia*, and *Senna siamea*.

The major outcome of the research is to know the plants which have maximum carbon storage capacity. This research would prove very beneficial in the selection of the plants for roadside as well as for plantations in the polluted area. The plants with maximum carbon sequestration capacity can be grown in the polluted regions to minimize the effect of air pollution.

The research paper based on the above-mentioned research is selected for presentation in an International Conference on “Strengthening Climate Action and Disaster Management” at the 6th World Congress on Disaster Management which is going to be held at Dehradun from 28th November to 1st December 2023.

The conference is based on the 5 major technical sessions as follows:

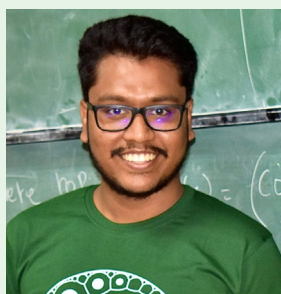
1. Innovations in Disaster Risk Reduction and Resilience
2. Mountain-Specific Hazards and Their Management
3. Challenges in Tackling Disaster Risk Reduction Issues
4. Multidisciplinary Research and Best Practices
5. Traditional Risk Reduction Practices and Voices from the grassroot.

The research paper is selected under the theme “Decarbonization and disaster risk reduction Equation” of technical session three.

Ruhit Bardhan
M.Sc. M.Ed.
IITE, Gandhinagar

Student Achievement

Research Associate at the Universidade Federal de Ouro Preto (UFOP), Brazil



I was introduced to research during my undergraduate dissertation. Following that, I had the opportunity to undertake a research internship in a hybrid mode under the guidance of Professor

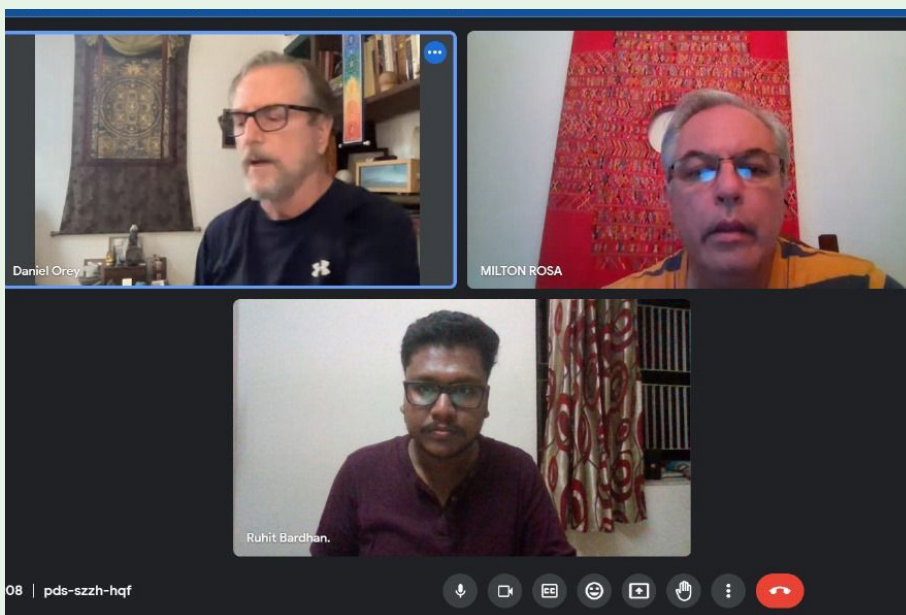
Binod Chandra Tripathy, who is affiliated with Stanford University and is among the world's top 2% scientists and is ranked 16 in India's Best Scientists for the year 2023 as per research.com. During this time, I delved into the realms of Bicomplex analysis and summability theory.

I am currently pursuing a Master's in Mathematics and a Master of Education (M.Ed) from IITE, Gandhinagar. My interests expanded to encompass various research areas related to mathematical education and STEM fields. It was during this exploration that I stumbled upon the fascinating topic of ethnomathematics, particularly within the context of India.

I started delving into the theories put forth by the father of ethnomathematics, Ubiratan D'Ambrosio delved into papers and edited books published by Professor Milton Rosa & Professor Daniel C. Orey. These resources immensely enriched my understanding of the application

and cultural perspectives of ethnomathematics. Encouraged by what I had learned, I proposed to work with them.

After several rounds of meetings and other formalities, I am delighted to share that I have been selected as a research associate for a project focused on ethnomathematics from India's perspective at the Universidade Federal de Ouro Preto (UFOP), Brazil. I will be working



under the guidance of Professor Milton Rosa & Professor Daniel C. Orey.

Currently, I am immersing myself in this fascinating area of study and have scheduled a meeting in three weeks to present my research and curriculum. I am looking forward to a positive response and am eager to express my gratitude to Prof. Sudhir Kumar Tandel, Dr. Paras Dineshchandra Uchat, and the Indian Institute of Teacher Education (IITE), Gandhinagar for their invaluable support.

NEP SAARTHI

I am Charmy Panchal, pursuing a Ph.D. in Education from the Indian Institute of Teacher Education (IITE, Gandhinagar). I am glad that I got nominated as NEP SAARTHI, a unique initiative by the University Grant Commission.

This is a great opportunity for any student to contribute to the transformation of higher education. This initiative allows student ambassadors to participate together in the effective implementation of NEP 2020. It provides an opportunity to all the student ambassadors from across the country to spread awareness about various reforms in the New Education Policy 2020.

This initiative empowers student ambassadors to promote NEP 2020 initiatives. In line with NEP 2020, Our Institute also made reforms in the curriculum and aims to provide high-quality education to all.

I promise to become a catalyst for implementing NEP 2020 effectively as NEP SAARTHI. I will make use of this opportunity to the best of my abilities.



Ms. Charmy Panchal,
NEP SAARTHI
IITE Gandhinagar

In the ever-evolving landscape of higher education in India, the National Education Policy (NEP) of 2020 has been a milestone, promising significant changes and advancements. As I write this, I'm honored and thrilled to share that I've been selected as a NEP SAARTHI by the University Grants Commission (UGC). This new chapter in my academic journey has filled me with immense pride and responsibility.

Becoming a NEP SAARTHI is more than just a title; it's a commitment to transform and uplift our educational system. This role carries with it the profound responsibility of contributing to the successful implementation of the NEP 2020.

So, how do I feel about this opportunity? The answer can be summed up in one word: Exhilarated.

The feeling of being entrusted with a key role in shaping the future of education in India is both humbling and empowering. It's recognition of the potential that lies within students and stakeholders alike to be catalysts for change. As a NEP SAARTHI, I pledge to be a dedicated and passionate advocate for the principles and objectives outlined in the NEP.



Supriya Ranjan,
NEP SAARTHI
IITE Gandhinagar

As I embark on this incredible journey as NEP SAARTHI representing IITE at the University Grants Commission (UGC), I find myself in a position that fills me with a deep sense of honor and excitement. This opportunity carries with it a considerable weight of responsibility, but it's a role I hold dear and take immense pride in. It allows me to actively engage in the implementation of the National Education Policy (NEP) 2020, a monumental reform in India's educational system.

The beginning of this role was marked by our first orientation, a virtual meeting conducted through the Zoom platform. During this orientation, we were privileged to receive invaluable insights from UGC about how we, as ambassadors, are meant to bring the NEP 2020 to life at the higher education level. This orientation served as a guiding light, setting the course for our journey as torchbearers of this transformative policy.

I am acutely aware of the importance of the NEP 2020 and the immense impact it can have on the educational landscape of our country. Being entrusted with the responsibility to promote NEP 2020 initiatives is not just a job; it's a calling. It's a call to action, to actively participate in shaping the future of education in India. I am excited, deeply honored, and wholly committed to this role. I look forward to the journey ahead with an abundance of optimism and enthusiasm.

I would like to take a moment to express my heartfelt gratitude to our esteemed Vice Chancellor, Dr. Harshad Patel, and the other higher authorities who, with the trust they have entrusted in me. Their belief in my abilities is a tremendous source of motivation, and I am truly thankful for the confidence they have placed in me. In the field of education, where every contribution matters, I stand poised and ready to be a catalyst for change, an advocate for NEP 2020, and a symbol of the immense potential that dedicated individuals can unleash when working together to create a positive impact on the lives of students and the future of our great nation.



Prachi Prajapati,
NEP SAARTHI
IITE Gandhinagar

October Activity at a Glance



1st October 2023 - 'स्वच्छांजलि'

Indian Institute of Teachers Education (IITE), Gandhinagar eagerly participated in "Swachhanjali to Bapu" on the National Appeal of our Honourable Prime Minister Shri Narendra Modi ji. Prof. CB Sharma inaugurated the drive with his motivational words in presence of Dr. Himanshu Patel Registrar, Dr Viral Jadav Dean, and Dr. Prerana Shelat Director COE along with other Faculty Members, Staff and Students enthusiastically participated in the Cleanliness Drive around University.



2nd October 2023 - ગાંધી જયંતિ

Honourable Vice Chancellor Dr. Harshad Patel paid homage to The Father of Nation - Mohandas Karamchand Gandhi at Raj Bhawan, Gandhinagar.



5th October 2023 - ભવ્ય દિવ્ય ભારત

Faculty Training on Indian Knowledge System named Bhavya Divya Bharat organised on 5th and 6th October, 2023 by COT, IITE. More than 100 college faculties from Undergraduate Colleges from all over Gujarat participated in the Training. Inauguration ceremony conducted in august presence of Shri P B Pandya, Commissioner of Higher Education, Hon'ble Vice Chancellor Dr. Harshad Patel, Shri Jeetendra Shah, Former Director, Department of Indology, Gujarat University.



9th October 2023 - प्रतिबद्धता

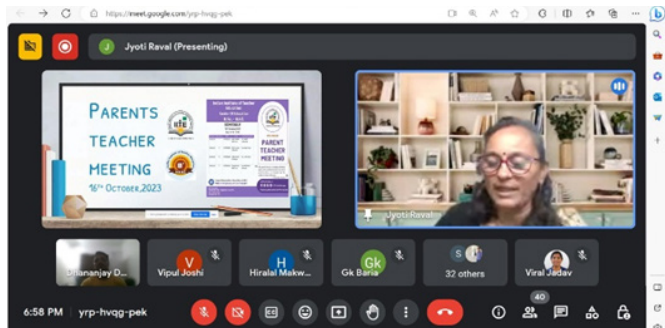
As a part of our MoU with Ministry of Defence batch 2 of “प्रतिबद्धता - Refresher Training Program” conducted for 12 days during October 2023. The Inauguration ceremony organised on 9th October 2023 in august presence of Prof Adhya Bharti Saxena and Mr. Hasmukh Bhai Patel. Hon’ble Vice Chancellor – Dr. Harshad Patel sir has given presidential words on the occasion. Over 100 dedicated teachers from Sainik School Society participated in the program.



15th October 2023 - "घटस्थापन"

The auspicious festival of Navratri began with "घटस्थापन" on the first day of शारदीय नवरात्रि on 15th October 2023. University Family joined the beginning of this nine-day long spiritual journey. Hon. Vice Chancellor Dr. Harshad Patel has given his valuable presence. The divine energy was transmitted in the university premises.

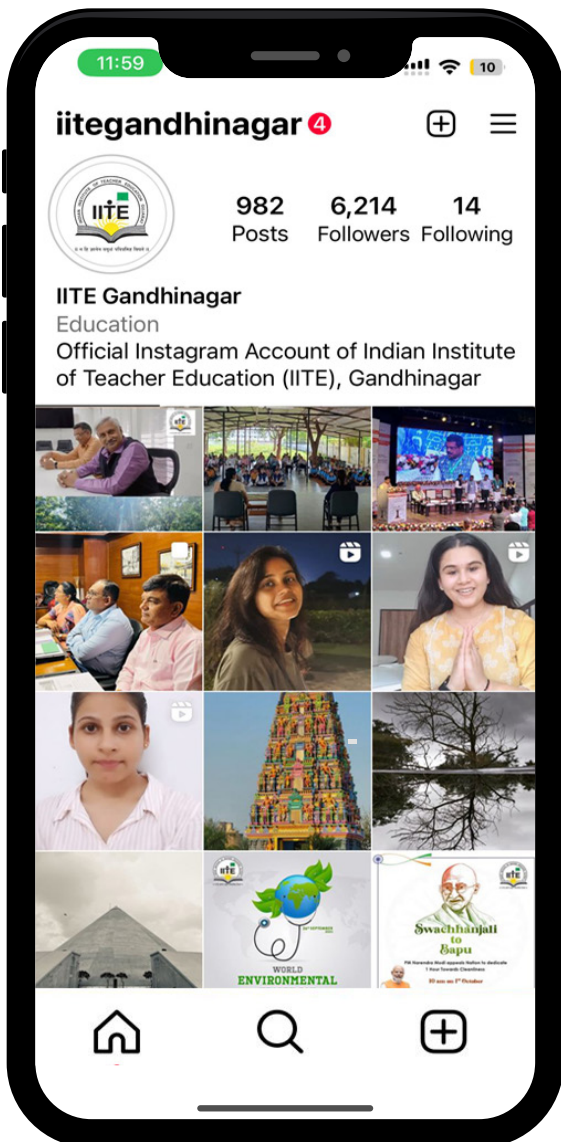
On this auspicious day 12th Youth Festival’s Logo Launched in august presence of Hon’ble Vice Chancellor. Students and staff enthusiastically captured the moment with Kalakunj 2023 logo.



16th & 17th October 2023 – Parents Teacher Meeting

IITE provides great platform for parent and teacher to share insights and information for the holistic development of a child! Continuing Communication with Guardians - Parents Teacher Meeting of B.Sc - B.Ed. and B.A.B.Ed. Conducted During 16th and 17th October 2023.

Social Media Updates



X

We are active on X. Our plan is to post important policies, MOU's, and post regarding innovative initiatives like Teacher's Tune daily. X also allows us to gather information through creative polls.

Our last poll on X "Who is a better Teacher? Humans or AI" created buzz. The poll reached more than 440 accounts on X and is continuously growing. X is a crucial social media platform that helps us with identifying trends and gathering global information.

Instagram

IITE, Gandhinagar is active on Instagram. Our official page has 6,214 followers. In October, the official Instagram page of IITE reached 13.6K accounts. More than 2300 accounts engaged with us this month.

Our attempt is to make the platform student friendly. We usually post - Reels, Posts, General Information, Quiz and more for the welfare of our students. It is an attempt to help students learn and stay informed with some fun.

We also post achievements and creative reels by our Students and Faculty Members. This allows them to showcase their talent and get a digital stage for themselves.

Facebook

Our official page on Facebook is as active as Instagram. Most of the content here is in-line with what we have on Instagram. In October, our official Facebook Page reached 21.3K accounts. 2300 accounts engaged with us this month using Facebook.

Our attempt is to make the platform Student and Faculty friendly. Most of our faculty members are active on Facebook. We also share information regarding various workshop, conferences and faculty achievements on our Facebook Page.

Facebook allows us to provide stage and showcase world the work of our esteemed organization and its members.

1st Youth Festival 8th - 9th April, 2013

Indian Institute of Teacher Education, Gandhinagar

2nd Youth Festival 30th January - 1st February, 2014

Indian Institute of Teacher Education, Gandhinagar

3rd Youth Festival 19th - 20th SEPTEMBER, 2014

Indian Institute of Teacher Education, Gandhinagar

4th Youth Festival 22nd - 23rd SEPTEMBER, 2015

Indian Institute of Teacher Education, Gandhinagar

5th Youth Festival 15th - 16th SEPTEMBER, 2016

Indian Institute of Teacher Education, Gandhinagar

6th Youth Festival 19th - 20th SEPTEMBER, 2017

Indian Institute of Teacher Education, Gandhinagar

7th Youth Festival 30th SEP - 1st OCT, 2018

Indian Institute of Teacher Education, Gandhinagar

8th Youth Festival 6th - 7th September, 2019

Indian Institute of Teacher Education, Gandhinagar

9th Youth Festival 20th - 21st SEPTEMBER, 2020

Indian Institute of Teacher Education, Gandhinagar

10th Youth Festival 26th - 27th November, 2021

Indian Institute of Teacher Education, Gandhinagar

11th Youth Festival 24th September, 2022

Indian Institute of Teacher Education, Gandhinagar

12th Youth Festival 20th October, 2023

भारतीय शिक्षक प्रशिक्षण संस्थान, गांधीनगर
Indian Institute of Teacher Education, Gandhinagar

Friday | 20th October, 2023
@ IITE Campus

Indian Institute of Teacher Education, Gandhinagar