









A Report on

26th ISTE Gujarat State Annual Faculty Convention 2022 & Conference

on

"Global Exigencies for Smart & Sustainable Technologies" (GESST)

April 27, 2023

Jointly Organized by
Indian Society for Technical Education (ISTE) - Gujarat Section
and
Indus Institute of Technology & Engineering (IITE)
INDUS UNIVERSITY, AHMEDABAD













About ISTE:

The Indian Society for Technical Education (ISTE) is the leading National Professional non-profit making Society for the Technical Education System in our country with the motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System. The major objective of the ISTE is to provide quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity and to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industry and other organizations. At present, the ISTE has a very large and an effective membership base consisting of 124024 Life Members, 5 lakh Student members, 2734 Institutional Members, 1369 Faculty Chapters, 1479 Student Chapters at institutional level and 17 Sections at State level. ISTE Gujarat Section is one such section working within the geographical limit of Gujarat.

About Indus University:

Indus University (UGC Recognized) is one of the leading universities in Gujarat. It aims to bring social changes with education, skill development, research and innovation. The University offers Undergraduate, Postgraduate and Research Program in various disciplines of Aviation Management, Aircraft Maintenance, Architecture, Design, Engineering, Management, Computer Applications, Clinical Research, Hospitality Management, under the aegis of various constituent institutes of the University. We have state-of-art infrastructure and well qualified faculty to support teaching-learning, research and innovation.

University has various constituent Institutes & centers such as Indus Institute of Technology Engineering (IITE), Indus Institute of Design, Environment & Architecture (IIDEA), Indus Institute of Sciences, Humanities and Liberal Studies (IISHLS), Indus Institute of Management Studies (IIMS), Indus Institute of Information and Communication Technology (IIICT), Indus Institute of Iaw, Indus Institute of Pharmacy, Indus Institute of Special Studies (IISS), Indus Centre for Start-up, Incubation and Innovation (ICSII), Indus Technology & Smart Solution Centre (ITSSC), Indus Sustainable Smart Cities Center (ISSCC) and Indus Foundry Training & Research Center (IFTARC).











About the Convention & Conference:

The ISTE Gujarat State Annual Faculty Convention 2022 & conference was held at Indus University, Ahmedabad on April 27, 2023 with the objective of providing a platform to the technical teaching fraternity for exchanging scientific and technical innovations. The Conference on "Global Exigencies for Smart & Sustainable Technologies" (GESST) was conducted as a part of the convention. This conference provided a platform for sharing technical advances among faculty, researchers and Industry professionals. This event was jointly organized by IITE, Indus University, Ahmedabad and ISTE Gujarat Section.

The ISTE Gujarat State Faculty Convention was conducted for the exchange of scientific and technical innovation concepts. The alongside conference (Offline mode) provides a platform for sharing technical advances among faculty, researchers, and Industry Professionals. Papers from Faculty Members from all the Diploma and Degree Engineering Institutes across the state are invited on the theme "Global Exigencies for Smart & Sustainable Technologies" (GESST).

The world is at the threshold of emerging technologies, where innovative ideas in the field of smart & Sustainable Technologies are poised to make the world better. Modern tools and techniques can create incredible development in the various fields of engineering that require more convenience and smart technology than ever before. Innovations are paving the way for more efficient, cost-effective technology in the field of Artificial intelligence, Machine Learning, Robotics and Additive Manufacturing, Internet of Things, Climate Change, Waste Treatment and Management, Nanotechnology and Intelligent transport systems.

The Conference comprised of broadly following themes: Smart Logistic, Climate Change, Nanotechnology, Sustainable Habitat, Sustainable Energy, AR & VR in marketing, Green Business strategies, Intelligent transport system, Internet of Things (IoT) Solutions, Product Design and Manufacturing, Waste Treatment and Management, Robotics and 3D Printing applications, Artificial Intelligence and Machine Learning, Sustainable Architecture and Urban Planning.

The ISTE Gujarat State Faculty Convention & Conference received more than 100 research papers for the conference. All the papers were checked for plagiarism and undergone double-blind peer review by a team of reviewers. The reviewing committee selected 89 papers for publication and proceedings. The conference was conducted in 12 numbers of Plenary sessions.

The program was inaugurated by Hon'ble Dr. Pratapsinh Kakasaheb Desai, National President ISTE New Delhi, Respected Dr. Sachin Parikh, Chairman ISTE Gujarat State, Dr. Bhasker Bhatt, Secretary cum treasurer, ISTE Gujarat State, Dr. Nagesh Bhandari & Dr. Ritu Bhandari, Presidential Secretariat, Indus University, Prof. (Dr.) Sandeep Chakravorty, Executive President, Indus University, Prof. (Dr.) Vedvyas Dwivedi, Executive Vice-President, Indus University, Dr. R. K. Singh, Registrar, Indus University, Ms. Radhika Bhandari, Director-WIIA and Dean Aviation IATE and Dr. Ishbir Singh, Director - IITE & Chairman - ISTE Faculty Chapter, Indus University. The Program conveners were Prof. Harsh Soni, Prof. Miloni Ganatra & Prof. Vineeta Chauhan. The Conference conveners were Dr. Payal Mehta & Dr. Ankit Sodha.











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A. List of Awardees & Participating Institutes

The ISTE State Award Distribution Ceremony highlighted the importance of technology integration in education and recognized those who had excelled in this area. The award was presented to an individual who had shown exceptional leadership in the field of engineering and had made significant contributions to society through their technical insights.

The following technical institutes and universities across the state of Gujarat received awards:

I. <u>List of Awardees:</u>

S. No.	Award Category	Name of Awardees
1	ISTE Best Chapter Award (Announcement only)	Sigma Institute of Engineering, Vadodara
2	Runner Up ISTE Best Chapter Award (Second Position)	Pacific School of Engineering, Surat
3	Most Promising ISTE Chapter Award	SAL Institute of Technology & Engineering Research, Ahmedabad
4	ISTE GUJ- UKA Tarsadia Best Engineering College Award	L. D. College of Engineering, Ahmedabad
5	Shri Pravinkaka Ratilal Maniar Best Knowledge Centre (library) award	V. V. P. College of Engineering, Rajkot
6	ISTE-HJD Institute, Kutch - Award to the Best Institute for contributing in Social Activities	L. D. College of Engineering, Ahmedabad
7	Institutional Member of Gujarat for Raising Highest Number of Life Membership	L. D. College of Engineering, Ahmedabad
8	ISTE GUJ- VBT State Award for the Best Woman Teaching Faculty in Degree Engineering College	Dr. Komal G Dave, [L. D. C. E., Ahmedabad]









	, ,		
9	ISTE GUJ- Nirav Bhatt award to the Best Faculty for Excellent Contribution in ISTE activities	Dr. Chandra Bhushan Trivedi Prasad Pal S. N. Patel Institute of Technology & Research Centre, Bardoli	
10	ISTE GUJ- Vadodara Institute of Engineering award for Best Faculty in Computer Engineering, UG Programme in Gujarat state	Dr Ankit Rajeshkumar Thakkar, [Nirma Institute of Technology]	
11	ISTE GUJ- M. C. Bhavsar Award for an Innovative Work in the areas of Renewable Energy	Prof. Memon Shebaz Ahemad Abdul Latif, [Nirma University]	
12	ISTE GUJ – Atmiya University, Rajkot – Award for the Best Innovative Researcher in the field of Computer Engineering	Dr Ashish Mahendrabhai Kothari, (Atmiya University)	
13	Maximum participation in the ISTE Gujarat State Annual Convention	L D College of Engineering, Ahmedabad	
	Special Appreciation Awards		
1	Special Appreciation Award	INDUS University	
2	Special Appreciation Award to Industrial contributors recommended by Host Institute	Shri Rajesh Sharma Founder, Anektaanka, Textile Designer, Ahmedabad	
3	Special Appreciation Award to Industrial contributors recommended by Host Institute	Shri Vinod Agrawal Immediate Past Chairman CII Gujarat State Council & Chairman Arunaya Organics Pvt. Ltd., Ahmedabad.	
4	Special Appreciation Award	Mr Rahul Panchal	











II. List of participating Institutes:

Following Technical Institutes / Universities across the state of Gujarat participated in the program:

1 BVM Engineering College, V.V.Nagar 2 C. K. Pithawala College of Engineering & Technology, Surat 3 Central University of Gujarat, Gandhinagar 4 Charotar University of Science and Technology, Nadiad 5 Gandhinagar Institute of Technology, Gandhinagar 6 Government Engineering College, Daman 7 Indus University, Ahmedabad 8 L. D. College of Engineering, Ahmedabad 9 M.S.University of Baroda, Vadodara 10 Navrachana University, Vadodara 11 Nirma University, Ahmedabad 12 Pandit Deendayal Energy University (PDEU), Gandhinagar 13 SAL Engineering and Technical Institute, Ahmedabad 14 Sankalchand Patel University, Visnagar 15 Silver Oak University, Ahmedabad 16 Somany Institute of Technology and Research, Kadi 17 Vishwakarma Government Engineering College, Ahmedabad		
Central University of Gujarat, Gandhinagar Charotar University of Science and Technology, Nadiad Gandhinagar Institute of Technology, Gandhinagar Government Engineering College, Daman Indus University, Ahmedabad L. D. College of Engineering, Ahmedabad M.S.University of Baroda, Vadodara Navrachana University, Vadodara Nirma University, Ahmedabad Pandit Deendayal Energy University (PDEU), Gandhinagar SAL Engineering and Technical Institute, Ahmedabad Sankalchand Patel University, Visnagar Silver Oak University, Ahmedabad Somany Institute of Technology and Research, Kadi	1	BVM Engineering College, V.V.Nagar
4 Charotar University of Science and Technology, Nadiad 5 Gandhinagar Institute of Technology, Gandhinagar 6 Government Engineering College, Daman 7 Indus University, Ahmedabad 8 L. D. College of Engineering, Ahmedabad 9 M.S.University of Baroda, Vadodara 10 Navrachana University, Vadodara 11 Nirma University, Ahmedabad 12 Pandit Deendayal Energy University (PDEU), Gandhinagar 13 SAL Engineering and Technical Institute, Ahmedabad 14 Sankalchand Patel University, Visnagar 15 Silver Oak University, Ahmedabad 16 Somany Institute of Technology and Research, Kadi	2	C. K. Pithawala College of Engineering & Technology, Surat
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15 Silver Oak University, Ahmedabad 16 Somany Institute of Technology and Research, Kadi	13	SAL Engineering and Technical Institute, Ahmedabad
16 Somany Institute of Technology and Research, Kadi	14	Sankalchand Patel University, Visnagar
, , , , , , , , , , , , , , , , , , ,	15	Silver Oak University, Ahmedabad
17 Vishwakarma Government Engineering College, Ahmedabad	16	Somany Institute of Technology and Research, Kadi
	17	Vishwakarma Government Engineering College, Ahmedabad











B. Event Poster:





26TH ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE

ON "GLOBAL EXIGENCIES FOR SMART & SUSTAINABLE TECHNOLOGIES" (GESST) DATE: 27TH APRIL, 2023

JOINTLY ORGANISED BY

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) - GUJARAT SECTION AND
INDUS INSTITUTE OF TECHNOLOGY & ENGINEERING (IITE),
INDUS UNIVERSITY, AHMEDABAD

KEY EVENTS

- ISTE Gujarat Award Ceremony
- Annual General Meeting
- Technical Sessions
- Research Paper Presentations



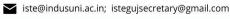
OVERARCHING CONFERENCE THEMES

- Artificial Intelligence and Machine Learning
 Internet of Things (IoT) Solutions
 Sustainable Energy
 Robotics and 3D Printing applications
 Product Design and Manufacturing

- Sustainable Habitat
 Climate Change
 Waste Treatment and Management
 Nanotechnology
 Intelligent transport system

Venue: Indus University, Rancharda via Shilaj, Ahmedabad - 382 115, Gujarat , www.indusuni.ac.in















B. Event Brochure





26TH ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE

ON

"GLOBAL EXIGENCIES FOR

SMART & SUSTAINABLE TECHNOLOGIES"

(GESST)

JOINTLY ORGANIZED BY

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) - GUJARAT SECTION AND INDUS INSTITUTE OF TECHNOLOGY & ENGINEERING (IITE), INDUS UNIVERSITY, AHMEDABAD

APRIL - 27, 2023

Venue:

Indus University, Rancharda via Shilaj, Ahmedabad - 382 115, Gujarat www.indusuni.ac.in











About Organising Institutions

ISTE

The Indian Society for Technical Education is a national, professional non-profit making society registered under the society's registration act of 1860. The Major objective of the ISTE is to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and other organisations.

ISTE Gujarat Section

Gujarat section now has a remarkable strength of 8,500+ of Life Members, more than 50,000 Student Members and 153 (97 Degree & 51 Diploma Institutes) Institutional Members. There are 70 ISTE Chapters and almost equal number of student chapters under the section. More details of chapters and its regional spread can be visualised on section website - www.istegujarat.in

Indus University

Indus University has been established to make a noteworthy contribution to the social, economic, and cultural life of our country. The founders of Indus University seek to deliver the best quality education to their students. The three pillars on which this University firmly stands are educational wisdom, professional brilliance, and research & innovation, all of which aim to nurture a spirit of entrepreneurship and social responsibility.

Indus Institute of Technology & Engineering

Indus Institute of Technology and Engineering (IITE) was established in 2006 with a vision to train and upgrade the technical skills of engineers as per the industry's requirements. It was a conscious effort to look beyond the theoretical framework, understand the natural world and decipher its main concerns. The journey of IITE to transform raw talent into seasoned engineers has been the longest at Indus University, making it the eldest constituent institute till present-day at the university.

Institute of Technology & Engineering provides work and play environment to boost students' persona and intellect quotient throughout the academic period. While they are exposed to fieldwork, much weight is given to research and development in engineering. Students are encouraged and supported in various ways to plan and execute startups.

About Convention & Conference

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OVERARCHING CONFERENCE THEMES

- Artificial Intelligence and Machine Learning
- Internet of Things (IoT) Solutions
- Sustainable Energy
- Robotics and 3D Printing applications
- Sustainable Architecture and Urban Planning
- Green Business strategies
- AR & VR in marketing

- Sustainable Habitat
- Climate Change
- Waste Treatment and Management
- Nanotechnology
- Intelligent transport system
- Smart Logistic
- Product Design and Manufacturing

Note: Novel and original work are highly welcomed and not to be bound for above themes.

Call for Papers:

- Researchers are invoked for and Prospective authors are invited to submit full length papers reporting
 original unpublished research and recent developments in the topics related to the conference.
- Length of paper should be maximum 8 pages. Papers need to be submitted in the IEEE format as word document. Images, Charts, Graphs if added must be of high resolution ensuring readability.
- All papers will undergo double-blind peer review process.
- The GESST organisers regard plagiarism as serious ethical misconduct. All submissions will be screened for plagiarism and when if identified, the submissions will be rejected.
- The GESST doesn't encourage withdrawals after the paper is accepted.
- Accepted papers shall be deem for copyright transfer and declaration of originality prior publication.
- Authors should submit their full length papers through email on <u>conference.iste@indusuni.ac.in</u>.

Publications:

Papers will be accepted for the conference presentation and selected papers will be published in ISBN conference proceedings.

l <u>mportant dates</u>		Registration Fees:
Call for Papers	01/02/2023	Academician:
Submission of full Paper	17/03/2023	 ISTE-Members 250/- INR
Acceptance of full Paper	24/03/2023	 Non-ISTE Members 350/- INR
Last date of Registration	17/03/2023	Delegates from Industry 750/- INR

Payment:

- Prospective authors and attendees may refer to the table above to identify the registration fee according to the category.
- The account details for making the payment is provided in registration form.
 Registration link: https://forms.gle/EGwj9HNXgb5XjnfF6
- Participants to retain UTR of payment transfer and shall produce when asked by organizers.

Accommodation:

Accommodation and transportation request to be made well in advance and shall confirmed for availability by the event coordinators. Participants however are advised to make their own arrangements.

For Further Details Contact:

Conference Secretariat

Dr. Payal Mehta & Dr. Ankit Sodha

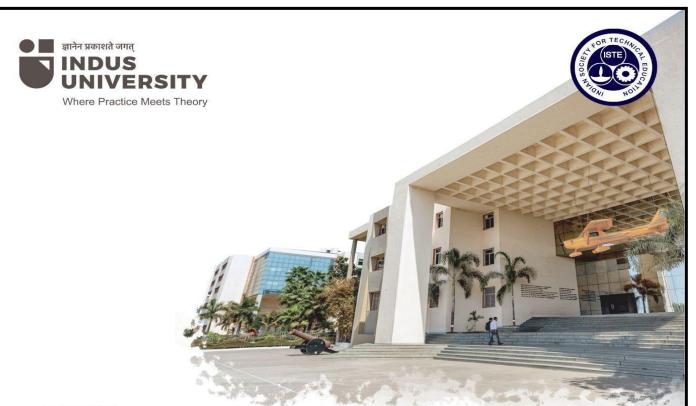












CHIEF PATRONS

Dr. Nagesh Bhandari **Presidential Secretariat Indus University**

Dr. Ritu Bhandari **Presidential Secretariat Indus University**

Dr. Pratap K. Desai President ISTE, New Delhi

PATRONS

Prof. (Dr.) Sandeep Chakravorty **Executive President Indus University**

Prof. (Dr.) Vedvyas J. Dwivedi **Executive Vice President Indus University**

Dr. R. K. Singh Registrar Indus University

ORGANIZING COMMITTEE

CHAIRMAN

Prof. (Dr.) Ishbir Singh Director, IITE **Indus University**

CONVENERS

Ms. Vineeta Chauhan **Assistant Professor** Department of Electrical Engg. IITE, Indus University

Mr. Harsh Soni **Assistant Professor** Department of Civil Engg. IITE, Indus University

Ms. Miloni Ganatra **Assistant Professor** Department of Ele. & Commu. Engg. IITE, Indus University

Advisory Committee
Dr Sachin Parikh, Chairman, ISTE Gujarat Section
Dr. Bhasker V. Bhatt, Secretary Cum Treasurer, ISTE Gujarat Section
Dr. Rakesh D. Patel, Executive Council Members, ISTE Gujarat Section
Dr. Kirit M. Makwana, Executive Council Members, ISTE Gujarat Section
Prof. Kalpesh M. Bhavsar, Executive Council Members, ISTE Gujarat Section
Dr. Sanjaykumar K. Dave, Executive Council Members, ISTE Gujarat Section
Dr. Jayesh A. Shah, Executive Council Members, ISTE Gujarat Section
Prof. Hardik V. Bhatt, Section Management Committee, ISTE Gujarat Section
Prof Alefiva I. Kachwala, Section Management Committee, ISTE Gujarat Section Prof. Alefiya I. Kachwala , Section Management Committee, ISTE Gujarat Section Dr. Ashutosh K. Patel, Section Management Committee, ISTE Gujarat Section Prof. Shilpa Kathad, Section Management Committee, ISTE Gujarat Section



QR Code Scan or Click For Registration

Venue:

Indus University, Rancharda via Shilaj, Ahmedabad - 382 115, Gujarat www.indusuni.ac.in www.istegujarat.in



+91-99094 12375

























C. Stage Banner:











26th ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE

ON

"GLOBAL EXIGENCIES FOR SMART & SUSTAINABLE TECHNOLOGIES" (GESST)

Date: APRIL 27, 2023

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26th ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE

ON

"GLOBAL EXIGENCIES FOR SMART & SUSTAINABLE TECHNOLOGIES" (GESST)

Date: APRIL 27, 2023

KEY EVENTS

ISTE Gujarat Award Ceremony
Technical Sessions
Annual General Meeting
Research Paper Presentations

Organised by

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) GUJARAT SECTION AND
INDUS INSTITUTE OF TECHNOLOGY & ENGINEERING (IITE)
INDUS UNIVERSITY, AHMEDABAD















D. Program Schedule & Agenda of Ceremony:

Date: April 27, 2023 | Thursday

Time	Program Details
9:00 am-9:45 am	Registration (Venue- Main Building) High Tea (Venue- Garden, Behind Main Building)
Inau	guration (Venue-Auditorium, Indus University)
10:00 am - 10:05 am	Arrival of Guests
10:05 am - 10:07 am	Inauguration of event with Prayer and Deep Pragatya
10:07 am - 10:10 am	Ganesh Vandana
10:10 am - 10:15 am	Welcome of Guests
10:15 am - 10:20 am	Welcome address by Prof. (Dr.) Ishbir Singh, Director - IITE, IU & Chairman - ISTE Faculty Convention 2022 & Conference
10:20 am - 10:25 am	About ISTE Faculty Convention by Dr. Sachin Parikh, Chairman-ISTE Gujarat State
10:25 am - 10:27 am	Felicitation of Dr. Sachin Parikh, Chairman- ISTE Gujarat state
10:27 am - 10:45 am	Award Presentation by Dr. Bhasker Bhatt
10:45 am - 10:55 am	Address by Dr. Pratapsinh Desai, National President, ISTE-New Delhi
10:55 am - 11:00 am	Felicitation of Dr. Pratapsinh Desai, National President, ISTE-New Delhi
11:00 am - 11:10 am	Address by Prof. (Dr.) Sandeep Chakravorty, Executive President, Indus University
11:10 am -11:30 am	Award Presentation by Dr. Bhasker Bhatt
11:30 am - 11:35 am	Felicitation of Dr. Bhasker Bhatt, Hon.Secretary cum Treasurer, ISTEGujarat Section
11:30 am - 11:40 am	Felicitation of Presidential Secretariat(IU), Executive President(IU), Director-IITE(IU) by ISTE, Gujarat Section
11:40 am - 11:450 am	Vote of Thanks by Prof. Harsh Soni, Convenor-ISTE Convention, IITE, Indus University
11:45 am -11:50 am	National Song

MOC- Prof. Rashmi Sharma, Electrical Engineering, IITE, Indus University.











Conference (Refer Conference Track Schedule for Venue & more detail)		
12:00 pm - 01:00 pm	Conference Tracks	
01:00 pm - 02:00 pm	Lunch (Venue- Garden, Behind Main Building)	
02:00 pm - 04:00 pm	Conference Tracks	
04:00 pm - 04:10 pm	Tea Break (Venue- Basement, Near Entrance of Auditorium, Main Building)	

Valedictory Function Venue: Auditorium, Indus University		
04:10 pm - 04:15 pm	Arrival of Guests	
04:15 pm - 04:25 pm	Felicitation to ISTE-Gujarat State SMC members	
04:25 pm - 04:30 pm	Best Paper Awards	
04:30 pm - 04:40 pm	Felicitation of Faculty Convention 2022 & Conference Committee Members	
04:40 pm - 04:50 pm	Summary of 26th ISTE Gujarat State Annual Faculty Convention 2022 & Conference by Prof. Harsh Soni	
04:50 pm - 04:55 pm	Vote of Thanks by Prof. Vineeta Chauhan, Convenor-ISTE Convention, IITE, Indus University	
04:55 pm - 05:00 pm	National Song	

MOC- Prof. Miloni Ganatra, Convenor-ISTE Convention, IITE, Indus University











Conference Track Schedule

Time	Details of Session		
Tra	Track 1: Artificial Intelligence and Machine Learning, Internet of Things (IoT) Solutions		
	Session 1 [Venue: LH-3, Main Building]		
12:00 PM - 01:00 PM	Session Chair: Prof. Zalak Vyas		
	Session Co-Chair: Dr. Sheetal Pandya		
Paper ID.	Paper Title		
GESST0E4	Artificial Intelligence and the Social Dilemma of Parenting		
GESST0E5	A Review on Phishing URL detection using various learning techniques		
GESST0E12	ReactJS		
GESST0E15	Analysis on Machine Learning Techniques to Spot Cyberbullying		
GESST0E16	Application of Artificial Intelligence in Urban Planning		
	Session 2 [Venue: LH-4, Main Building]		
12:00 PM -	Session Chair: Dr. Pushpendra Sisodiya		
01:00 PM			
	Session Co-Chair: Dr. Shruti Yagnik		
Paper ID.	Paper Title		
GESST004	FOOD CALORIE MEASUREMENT AND DIETARYASSESMENT USING DEEP LEARNING		
GESST007	Role of Artificial Intelligence in Micro-Financing for Women Empowerment in India- A Review		
GESST008	Artificial Intelligence Techniques in Disease Diagnosis: A Review		
GESST009	Machine Learning Techniques in Edge Computing: A Review		
GESST010	NLP's Impact on Virtual Assistants: A Review		











	Session 3 [Venue: LH-5, Main Building]		
12:00 PM -	Session Chair: Dr. Seema Mahajan		
01:00 PM	Session Co-Chair: Dr. Pooja Shah		
Donor ID	·		
Paper ID. GESST011	Paper Title Online Attendance System using Espial Recognition and OR code		
GESST011	Online Attendance System using Facial Recognition and QR code		
GESST012	Enhancing Telemedicine through Machine Learning		
GESST015	E-Voting system using blockchain		
	An examination of the energy-conscious routing protocol-based cross-layer optimization for MANET		
GESST055	EDFA Gain Performance Analysis at 10 Gb/sec in Optical Communication System		
	Session 4 [Venue: MB-1, Basement, Main Building]		
02:00 PM - 04:00 PM	Session Chair: Dr. Pooja Shah		
04.00 PIVI	Session Co-Chair: Dr. Sheetal Pandya		
Paper ID.	Paper Title		
GESST017	A Survey on Cross Layer Optimization Based on Energy Aware Routing Protocol for MANET		
GESST021	A Review on Medical Image Based Disease Detection using Machine Learning & Deep Learning		
GESST024	Emerging usage of Artificial Intelligence in Defence Sector		
GESST025	Graph Signal Processing on Images		
GESST028	QoSRP and Optimal Relay for Emergency Message Dissemination in Graph Based VANET: A Survey		
GESST029	BANKING AND ATM SECURITY		
GESST031	Sustainable habitats using Artificial Intelligence and Machine Learning: Opportunities & Challenges		
GESST032	Energy efficient solutions in Cyber Physical System enabled Smart healthcare System		
	Session 5 [Venue: MB-2, Basement, Main Building]		
02:00 PM -	Session Chair: Dr. Pushpendra Sisodiya		
04:00 PM			
	Session Co-Chair: Dr. Shruti Yagnik		
Paper ID.	Paper Title		
GESST033	TECHNOLOGIES AND RESOURCE ALLOCATION USING AUCTION THEORY USING IOT		
GESST035	Security and Privacy Issues of Big Data		
GESST036	Classification And Prediction of Alzheimer's Disease Using Machine Learning Algorithms		
GESST037	FACE MASK DETECTION USING MTCNN		
GESST040	Comparative analysis of Homomorphic encryption in Internet of Things		
GESST042	Numeric Image Recognition System		
GESST043	Colour Pixel Classification and K-Mean Clustering for Early Fire Detection		
GESST044	Crowd Detection		
GESST0E18	Diabetes mellitus prediction using various machine learning Techniques: A Comparative study		











Session 6 [Venue: MB-3, Basement, Main Building]	
02:00 PM - 04:00 PM	Session Chair: Dr. Vishal Dahiya Session Co-Chair: Dr. Akashara Dave
Paper ID.	Paper Title
GESST046	Big Data Analytics as a key for Preventing Sensitive Data Exposure in Web Security
GESST049	A Systematic Review of E-Voting System Based on Blockchain Technology
GESST050	Research possibilities and issues specific to the area of image processing
GESST053	Design of Hybrid Cryptography System based on Vigenere Cipher and Polybius Cipher
GESST054	A Decentralised, Secure, and Transparent Blockchain-enabled E-voting for Indian elections based on UIDAI Aadhar Identification
GESST057	Implementing a Portal for Student-Faculty Interaction Using Core Components, APIs, and Web Services(IndusUniApp)
GESST062	Real Time Voice Cloning with Image Using Deep Learning Techniques
GESST064	IOT based Smart Wheelchair for Physically Disabled People
GESST067	ASSESSING UNCERTAINTY IN RELIABILITY OF COMPONENT BASED SOFTWARE SYSTEM

Time	Details of Session		
	Track 2: Sustainable Technology / Energy		
	Session 7 [Venue: MB-11, Basement, Main Building]		
02:00 PM - 04:00 PM	Session Chair: Dr. Sweta Shah		
	Session Co-Chair: Dr. Dhiren Patel		
Paper ID.	Paper Title		
GESST0E7	The effect of adaptive infill patterns on the flexural strength of FDM 3d printed PLA		
GESST0E13	Mitigation of Circulating Current in Modular Multilevel Converter		
GESST003	Electrical Design Analysis and Implementation for commercial buildings		
GESST014	Design, Feasibility Analysis and Implementation of Solar Roof Top System		
GESST016	Design & Calculations of Indoor & Outdoor lighting system		
GESST030	Design and Analysis of different parameters in Power Transformer		
GESST059	IoT Based Monitoring and Control of AC Motor		
GESST060	Using Thermal Devices for Waste Heat Recovery:-A Review		











Time	Details of Session		
	Track 3: Robotics and 3D Printing applications		
	Session 8 [Venue: LH-3, Main Building]		
02:00 PM - 04:00 PM	Session Chair: Dr. Mitesh Mungla		
	Session Co-Chair: Dr. Bansi Raja		
Paper ID.	Paper Title		
GESST002	Outlook and Challenges of Sustainable Energy		
GESST020	Design and Fabrication of Fire Extinguisher Drone		
GESST023	A review of plastic composite filaments used in additive manufacturing through fused deposition modeling (FDM)		
GESST026	Sustainability of water desalination using solar energy		
GESST027	A Review on Applications of Nanotechnology in Waste Management		
GESST038	A review of FDM 3D Printing Technique in AM		
GESST048	Mobile Controlled Electric Jack – A Review		
GESST057	Sonic Boom Noise Reduction through Low Boom Flying Demonstrator (LBFD)		
GESST061	Overwhelming study on computer integrated seed spraying machine		
Time	Details of Session		
	Track 4: Sustainable Habitat, Climate Change/ Waste Treatment and Management		
	Session 9 [Venue: LH-6, Main Building]		
12:00 PM -	Session Chair: Prof. Anand Patel		
01:00 PM	Session Co-Chair: Dr. Jishnu Gohil		
Paper ID.	Paper Title		
GESST0E2	Crop Monitoring Based on Machine Learning to Increase Agricultural Yields		
GESST0E3	USE OF FLOWER WASTE AND FIBERS OF SURGICAL MASK FOR SOIL STABILIZATION		
GESST0E6	Sulphate attack on marine concrete: A concern and challenge		
GESST0E8	REVIEWING THE GROUND IMPROVEMENT TECHNIQUES FOR SOFT SOILS		
GESST0E18	Biosorption of methyl red dyes by mangroves resources: A green and sustainable approach		
GESST0E19	Sustainable Technologies and Management Strategies for Waste Remediation		











Session 10 [Venue: LH-4, Main Building]		
02:00 PM - 04:00 PM	Session Chair: Dr. Ketan Lakhtaria Session Co-Chair: Dr. Jishnu Gohil	
Paper ID.	Paper Title	
GESST0E10	Parametric Study on Geogrid Application in Interlayer of Flexible Pavement	
GESST0E11	Water Desalination Technique Using Solar Still And Parabolic Trough Collector	
GESST006	Driving Towards Sustainability: The Flex Fuel Engine Solution	
GESST018	Affordable housing policies & Buyers perspective in Ahmedabad Region	
GESST019	Drone Technology: Applications and Challenges in Construction Industry	
GESST034	Impact of Climate Change on Education	
GESST045	Integrating the Use of Lean Principles for Effective Decision Making in Construction	
GESST047	Domestic Electrostatic Precipitator for air purifying	

Time	Details of Session		
Track 5: Nanotechnology, Track 6: Intelligent transport system, Track 8: Others			
Session 11 [Venue: LH-5, Main Building]			
02:00 PM - 04:00 PM	Session Chair: Dr. Vrushank Shah Session Co-Chair: Dr. Mudit Saxena		
Paper ID.	Paper Title		
GESST001	Low Cost Small Scale 3-D CNC machine using Arduino-based Control System		
GESST005	"Building the Metaverse: A Comprehensive Overview and Analysis of Current Research and Development"		
GESST0E1	Estimation of Reliability Factor for Public Transportation Bus System		
GESST052	Design And Development Of Chainless Handicapped Tricycle		
GESST022	A Review:"Virtual Reality Application in Post Traumatic Stress Disorder"		
GESST051	Financial risk analysis of high rise building in Ahmedabad region		
GESST063	Performance Evaluation Of Irregular Building With Pushover Analysis		
GESST065	Effects of Stress Management on Employee Work-life Balance		
GESST070	A Review On Renewable Energy Integration For Electric Vehicles		



GESST069









Time	Details of Session		
Track 7: Smart Material & Others			
Session 12 [Venue: LH-6, Main Building]			
02:00 PM - 04:00 PM	Session Chair: Dr. K. Shanthy		
	Session Co-Chair: Dr. A. D. Dhas		
Paper ID.	Paper Title		
GESST0E9	Effect of Aluminosilicate powder as a replacement of cement on properties of concrete		
GESST0E14	Use of Industrial Waste - Calcium Carbide Residue in activating one part Sodium Hydroxide in geopolymer paste		
GESST0E17	Role of Supplementary Cementitious Materials in Improving the Properties of Pervious Concrete		
GESST039	Impact of Various Natural Energizers on Pack Carburization		
GESST041	Failure Analysis of TMT Rod		
GESST056	A review on seismic isolation with innovative SMAs for smart bridge structures		
GESST066	Performance Evaluation of Ternary Blended Geo-polymer Concrete		
GESST068	Literature review on certain extensions of Generalized Hypergeometric function and Mittag-Leffler function		

"A Review of Matrix extension of Humbert polynomials"











E. Photographs of Events:



Dignitaries on the Stage



Felicitation of Dr. Sachin Parikh (Chairman, ISTE- Gujarat Section) by Dr. Nagesh Bhandari (Presidential Secretariat, Indus University)













Welcome of Dr. Pratapsinh K. Desai (National President, ISTE-New Delhi) by Dr. Nagesh Bhandari (Presidential Secretariat, Indus University)



Felicitation of Dr. Bhasker Bhatt (Hon. Secretary cum Treasurer, ISTE- Gujarat Section) by Dr. Sandeep Chakravorty (Executive President, Indus University)





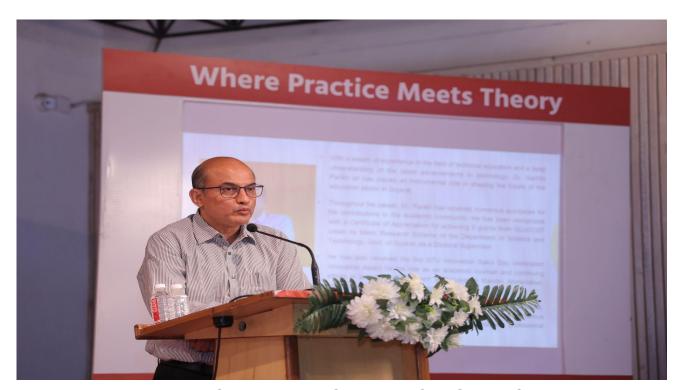








Lamp Lighting by the Dignitaries



Address by Dr. Sachin Parikh (Chairman, ISTE-Gujarat Section)













Address by Dr. Pratapsinh K. Desai (National President, ISTE-New Delhi)



Welcome of Dr. Nagesh Bhandari (Presidential Secretariat, Indus University by Prof.(Dr.) Ishbir Singh (Director,IITE)













The Participant s & Awardees of the Event (Indus University, Auditorium)



Most Promising ISTE Chapter Award to SAL Institute of Technology & Engineering Research, Ahmedabad













Runner Up ISTE Best Chapter Award (Second Position) to Pacific School of Engineering, Surat



ISTE Guj.- UKA Tarsadia Best Engineering College Award to L.D. College of Engineering, Ahmedabad













Institutional Member of Gujarat for Raising Highest Number of Life Membership Award to L.D. College of Engineering, Ahmedabad



ISTE GUJ- VBT State Award for the Best Woman Teaching Faculty in Degree Engineering College to Dr. Komal G Dave, L.D. College of Engineering, Ahmedabad













ISTE Guj.- Vadodara Institute of Engineering Award for Best Faculty in Computer Engineering, UG Programme in Gujarat State to Dr Ankit Rajeshkumar Thakkar, Nirma Institute of Technology



ISTE Guj.- M.C. Bhavsar Award for an Innovative Work in the areas of Renewable Energy to Prof. Memon Shebaz Ahemad Abdul Latif, Nirma University













ISTE Guj. – Atmiya University, Rajkot – Award for the Best Innovative Researcher in the field of Computer Engineering was received by Dr. G.D. Acharya on behalf of Dr. Ashish Mahendrabhai Kothari, Atmiya University



Release of Conference Proceedings by Dignitaries













Special Appreciation Award to Indus University, Ahmedabad

















Research Paper Presentation by Participants in the Conference













Group Photo with Organizing Committee











F. The Best Research Paper Award:

1 st Position	Dr. Pooja Shah, Department of Computer Engineering, Indus Institute of Technology, Ahmedabad, India Title: Improving Telemedicine through Machine Learning Approach
2 nd Position	Dr. Sonal Thakkar, Civil Engineering Department Institute of Technology, Nirma University Ahmedabad, India Title: Use of Industrial Waste - Calcium Carbide Residue in Activating One Part Sodium Hydroxide in Geopolymer Paste
3 rd Position	Dr. A.D. Dhass, Mechanical Engineering Department, IITE, Indus University, Ahmedabad-382115, India. Title: A Review on Applications of Nanotechnology in Waste Management











G. Press Note:

ISTEના પ્રમુખ ડૉ.પ્રતાપસિંહ કાકાસાહેબ દેસાઈએ કહ્યું...

શિક્ષણ પદ્ધતિ સમય સાથે સુસંગત હોવી જોઈએ

રાજ્યની ૧૮ ટેક્નિકલ સંસ્થાઓની હાજરીમાં ફેકલ્ટી સંમેલન યોજાયું

સિટી લાઇફ । ઇન્ડસ ઇન્સ્ટિટ્યૂટ ઑફ ટેક્નોલોજી એન્ડ એન્જિનિયરિંગ અને ઇન્ડિયન સોસાયટી ફોર ટેક્નિકલ એજ્યુકેશન (ISTE) ગુજરાત વિભાગ દ્વારા ર દમાં ISTE ગુજરાત રાજ્ય વાર્ષિક ફેકલ્ટી સંમેલન અને કોન્ફરન્સનું આયોજન કરવામાં આવ્યું હતું. જેમાં શિક્ષણના ક્ષેત્રમાં નવીન વિચારો. પ્રથાઓ અને સંશોધનને પ્રોત્સાહન આપવા અને શેર કરવા માટેનું એક મંચ બન્યું હતું. સંમેલનમાં રાજ્યભરમાંથી પ્રતિષ્ઠિત શિક્ષકો અને ફેકલ્ટી સભ્યોને ભાગ લઈને પોતાના વ્યૂઝ શેર કર્યા હતાં. શિક્ષણની ગુણવત્તા વધારવાના મુખ્ય ઉદ્દેશ્ય, નેટવર્ક, સહયોગ અને એકબીજા પાસેથી શીખવાની સહિયાં અને અકમાંજા પાસવા સાખવાના તક પૂરી પાડવાના હેતુ સાથે આ સંમેલનમાં , ઈન્ડસ ઇન્સ્ટિટ્યૂટ ઑક ટ્રેનોલીજી અને રાજ્યની ૧૮ ટેક્નિકલ સંસ્થાઓએ એન્જિનિયરિંગના ડિરેક્ટરની લાજરીમાં ભાગ લીધો હતો. ISTEના પ્રમુખ ડૉ. સંમેલનનું ઇનોમેશન કરવામાં આવ્યું હતું. પ્રતાપસિંહ કાકાસાહેબ દેસાઈએ ગુજરાત મુખ્ય અતિથિ તરીકે ઉપસ્થિત રહેલા ડૉ.



સરકારના ટેકૃનિકલ શિક્ષણ વિભાગના જોઈન્ટ ડાયરેક્ટર ડૉ. સચિન પરીખ, ડૉ. નાગેશ ભંડારી અને ડૉ. રિતુ ભંડારી-ઈન્ડસ યુનિવર્સિટીના પ્રમુખ સચિવાલય, ડૉ. સંદીપ ચક્રવર્તી, કાર્યકારી પ્રમુખ ઈન્ડસ યુનિવર્સિટી, ડૉ. ભાસ્કર ભક્ર - ISTE ગુજરાતના સેક્રેટરી કમ ટ્રેઝરર અને ડૉ. ઈશ્બર સિંઘ

દેસાઈએ શિક્ષણ શાસ્ત્ર વિશે વાત કરી હતી. તેમણે શિક્ષણશાસ્ત્રીઓ અને સંસ્થાઓને विनंती કरी डे शिक्षण पद्धति समय साथे સુસંગત રહે તે સુનિશ્ચિત કરે. તેમણે નવી શિક્ષણ નીતિ અને દેશના વિકાસમાં શિક્ષકોની मહत्त्वपूर्ध (भूभिंश विशे पण वात करी હતી. ISTE એ અસાધારણ શિક્ષકો અને એન્જિનિયરિંગ કૉલેજોને પુરસ્કારો આપ્યા જેમણે તેમના વિદ્યાર્થીઓ અને સમુદાયો પર ઊંડી અસર કરવા માટે ટેક્નોલોજીનો સર્જનાત્મક ઉપયોગ કર્યો છે.

र्धन्डस युनि.मां ફेકલ्टी મીટિંગ -કોન્ફરન્સ યોજાઇ

અમદાવાદ : ઈન્ડસ યુનિવર્સિટીના ઈન્સ્ટિટ્યૂટ ઓફ ટેક્નોલોજી એન્ડ એન્જિ. અને ઈન્ડિયન સોસાયટી ફોર ટેક્નિકલ એજ્યુકેશન દ્વારા ફેકલ્ટી મીટિંગ અને કોન્ફરન્સનું આયોજન કરાયું. જેમાં 18 ટેક્નિકલ સંસ્થાઓએ ભાગ લીધો હતો.

Media Coverage in News Paper

Media coverages:

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https://youtu.be/RBZu1Yg979g

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I. Front & Back Cover Page of Proceedings of Conference on Global Exigencies for Smart & Sustainable Technologies (GESST)











26th ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE

PROCEEDINGS ON GLOBAL EXIGENCIES FOR SMART & SUSTAINABLE TECHNOLOGIES (GESST)

APRIL 27, 2023

Editors: Prof.(Dr.) Ishbir Singh Dr. Payal Mehta Dr. Ankit Sodha



JOINTLY ORGANIZED BY

INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE) - GUJARAT SECTION AND INDUS INSTITUTE OF TECHNOLOGY & ENGINEERING (IITE) INDUS UNIVERSITY, AHMEDABAD





















26th ISTE GUJARAT STATE ANNUAL FACULTY CONVENTION 2022 & CONFERENCE ON

GLOBAL EXIGENCIES FOR SMART & SUSTAINABLE TECHNOLOGIES (GESST)



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