



Lagdu Singh Charitable Trust's (Regd.)

## THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

Autonomous College Affiliated to University of Mumbai

Approved by All India Council for Technical Education (AICTE) and Government of Maharashtra (GoM)

Conferred Autonomous Status by University Grants Commission (UGC) for 10 years w.e.f. A.Y 2019-20

Amongst Top 200 Colleges in the Country, Ranked 193<sup>rd</sup> in NIRF India Ranking 2019 in Engineering College category

• ISO 9001:2015 Certified • Programmes Accredited by National Board of Accreditation (NBA), New Delhi

• Institute Accredited by National Assessment and Accreditation Council (NAAC), Bangalore

Website : [www.tcetmumbai.in](http://www.tcetmumbai.in)

Date: 24/11/2020

### **National Initiative Program (Student Exchange Program)**

#### **Report on Academic Exchange (Online Workshop and Collaborative Research Activity)** **(A.Y 20-21 Odd Semester)**

As per the Initiatives of Ministry of Human Resource -Development and AICTE, Thakur College of Engineering and Technology started to conduct Students exchange programs. Student exchange program gives an opportunity for students to broaden their knowledge on their study of choice from a different institute. This gives them a chance to develop their work experience by seeing how the course/research domain they are studying is being practiced in another institute. It helps them to understand the working philosophy of the other institute and also enhances their ability to work in collaboration for project development and paper writing with students of other institute. The purpose is to learn the culture, living styles, social customs, food habits and such other aspects of the social and cultural affairs of each other's institute along with learning technical skills regarding a latest technology.

#### **Objective:**

1. To learn collaboratively the branch specific recent trends in form of hands on workshop with partner college students.
2. To encourage students and faculty members collaboration from our institute with Student Exchange Partner Institutes for collaborative project development and paper writing on branch specific recent trends.
3. To adopt the national initiative under EBSB: Students exchange program at institute level.

#### **Program Tracks on Branch Specific Recent Trends:**

- VLSI Development
- Building design using MidasGEN
- User Experience Design
- AWS Cloud Bootcamp
- IOT for Smart Solutions
- Leadership Development

- Basic of Solidworks

### **Target Participants:**

Undergraduate Engineering students and Faculty mentors from Host College and partner colleges.

### **Host College:**

(1) Thakur College of Engineering & Technology

### **Partner Colleges:**

- (1) **Gandhi Institute of Engineering and Technology, Odisha**
- (2) Vardhaman College of Engineering, Hyderabad (Telangana)
- (3) ISBM University, Chhattisgarh
- (4) Government Engineering College Nawada, Bihar
- (5) Kls Gogte Institute of Technology, Belagavi, Karnataka
- (6) Maratha Vidya Prasarak Samaj's Karmaveer Baburao Ganpatrao Thakare College of Engineering, Nashik

### **Overall Coordinators:**

- Dr. Lochan Jolly (Dean SSW)
- Dr. Megharani Patil (Activity Head- National Initiative Program)

### **Student Exchange Program Coordinators:**

- Ms. Jalpaben D. Pandya: NIP-SPOC ELEX (VLSI Development)
- Mr. Arpit Vyas: NIP-SPOC CIVIL (Building design using MidasGEN)
- Mr. Rahul Neve: NIP-SPOC IT (User Experience Design)
- Mrs. Kalpana Gangwar: NIP –SPOC COMP (AWS Cloud Bootcamp)
- Mr. Sonali Singh: NIP-SPOC E&TC (IOT for Smart Solutions)
- Mr. Ashwin Pathak: NIP –SPOC ES&H (Leadership Development)
- Mr. Vaibhav Madane: NIP-SPOC Mech (Basic of Solidworks)

### **Student Exchange Program Faculty In charges:**

- Mrs. Poorva waingankar & Ms. Jalpaben D. Pandya (VLSI Development)
- Dr. Sanjeev Chaudhari & Arpit Vyas (Building design using MidasGEN)
- Dr. Lochan Jolly, Dr. Megharani Patil & Mrs. Purvi Sankhe (User Experience Design)
- Dr. Anand Khandare (AWS Cloud Bootcamp)

- Mrs. Sukruti Kalgud and Mrs. Rupali Mane (IOT for Smart Solutions)
- Mr. Amol Dapkekar and Mr. Nivant Kambale (Leadership Development)
- Mr. Krishna Gaikwad (Basic of Solidworks)

**Venue:** Online Platform (Zoom)

**Speakers:** TCET Faculty members and Students, Alumni students and Invited Guests from Academia and Industry.

**Student Exchange Program Details and Duration:**

<b>Student Exchange Program Specifications</b>	<b>Dates</b>	<b>Time duration</b>
Branch specific Online workshops	12 <sup>th</sup> , 19 <sup>th</sup> and 26 <sup>th</sup> September 2020	11.00 AM to 12.30 PM (Session) 4.00 PM to 5.00 PM (Group Discussion for Project and Paper writing)
Collaborative Project development	14 <sup>th</sup> September -17 <sup>th</sup> October 2020	Weekly follow up meetings with group members by deciding time slot according to group member's availability.
Paper Writing on recent trends	19 <sup>th</sup> October - 7 <sup>th</sup> November 2020	

**Details of Event:**

**1) Online Workshops on Branch Specific Recent Trends:**

**a. Description of the event:**

Various branch specific workshops were held on 12<sup>th</sup>, 19<sup>th</sup> and 26<sup>th</sup> of September, 2020 for the students of all department of not only Thakur College of Engineering and Technology but also from our partner college GIET, Odisha and other partner college students. The workshop was proposed for differ domains with different tracks by the suggested choice of interest. Due to pandemic situation, this event of TCET was conducted online where participants could learn in-depth about the specific track.

**Day 1:** An inauguration programme was scheduled and organized by Dr. Megharani Patil and Mr. Amol Dapkekar. The inauguration took place at 10:30 a.m. starting with a welcome speech by Ms. Ayushi Sarda, a student of TCET. This was followed by Saraswati Vandana by Ms. Sayantani Das, student of TCET. Next, Dr. Lochan Jolly (Dean SSW, TCET) introduced the programme with its objectives, the various workshops

under NIP to our participants where she talked about the complete flow of the workshop and its conduction over 3 days on Saturdays. This was then followed by an address by Dr. B. K. Mishra, Principal where he talked about the AICTE and MHRD initiative and its organization by TCET. The inauguration ended with a vote of thanks proposed by Dr. Megharani Patil where she expressed her gratitude to management, Principal, Vice Principal, Deans, Faculty members, staff and students attending the workshop.

The first session was a theoretical session from 11.00 am to 12:30 pm. A basic introduction of the track was given the speakers to all the participants. The evening session was from 4pm to 5 pm and consisted of doubt solving session and discussion on project development and paper writing.

**Day 2:** - Similar to Day 1, two sessions (morning and evening) were held from 11am to 12:30 and 4pm to 5 pm respectively. The first session comprised of a littler deeper knowledge of the track and the second session consisted of doubt solving session and further discussion on project development and paper writing.

**Day 3:** - In the first session, from 11am to 12:30 pm, a complete in-depth knowledge was provided to the participants. The evening session (that was from 4pm – 5pm) was conducted for group discussion on project development and paper writing. Also, all the doubts were cleared by the speakers.

This session was followed by valedictory function from 5:00 pm to 6:00 pm. It started with the institute's video, welcome to all dignitaries, faculties and the participant. There was a program report share by Dr. Megharani Patil, followed by sharing live feedback by one participant of each track, views about the program were shared by the faculties from partner colleges. Lastly was delivered by, a speech was delivered by Principal of TCET, Dr. B.K. Mishra regarding the upcoming events by TCET to promote collaborative learning. The event concluded with vote of thanks from Dr. Lochan Jolly.

The various workshops that were conducted:

1. VLSI Development – Day 1 comprised of ‘introduction to VLSI’. Day 2 was about the ‘VLSI Design Rules’. On day 3, the speaker talked about the ‘Recent Trends in VLSI’.
2. Building design using MidasGEN – Day 1 was about Introduction and design guidelines for Building design. On day 2 the speaker gave a brief introduction about the building design process, the salient features of design and various types of analytical methods to evaluate the design. Also, further career opportunities in structural design were also discussed with the

students. Day 3 comprised of elaboration of design of building's frame (Beam, Columns collectively), a healthy interaction with participants and a Q&A session through polls.

3. User Experience Design - Day 1 consisted of introduction of UXD and its goals, discussion on UI design cycle. Day 2 was all about karmic design thinking, Customer Journey Map and Comparing and Contrasting different UI design of the same brand. On day 3 the speaker gave an introduction to UX Capstone and demonstration of figma software.
4. AWS Cloud Bootcamp – Day 1 consisted of brief introduction about cloud computing in terms of its features, advantages and the basic concepts that should be known before diving into AWS cloud. On Day 2 a a brief introduction was given about AWS with respect to simple terms like Regions, Availability zones and EC2 and about the creation of an instance of EC2 and various other configuration settings using which one can host his/her website on the cloud. On Day 3 the participants learned about two important concepts related to AWS Cloud i.e. Elastic Load Balancing and Auto Scaling Group where they elaborated on types of elastic load balancing families, its architecture, and Application Load Balancer. Also, Auto-scaling basics, launch configurations, and various concepts related to auto-scaling were demonstrated through live examples through AWS account.
5. IOT for Smart Solutions - Day 1 was Introduction to IoT. On Day 2 the speakers talked about various IoT Projects and software used for IoT projects. Day 3 was about “How to execute IoT Projects: Tips”.
6. Leadership Development – On day 1 the speaker talked about ‘Managing Self and Other’. Day 2 was about ‘Target/Goals Setting as the leader and Team Member’. On Day 3 the session revolved around the topic ‘Leadership Development and Styles of leadership’.
7. Basic of Solid works – Day 1 consisted of Importance of Solid works in drawing and basic commands. Day 2 was about ‘Assembly in Solid works and how different mates are required for the same. On Day 3 the speaker discussed about disassembly of mechanical bearings using software and hardware requirements to use Solidworks were also discussed.

**b. Day wise detailing of each track with topic covered by speaker : -**

Tracks	Day 1		Day 2		Day 3	
	Speaker	Topic covered	Speaker	Topic covered	Speaker	Topic covered

VLSI Development	Ms. Poorva Waingankar	<ul style="list-style-type: none"> <li>Basics of VLSI, the technology for VLSI.</li> <li>Crystal growth and silicon wafer preparation method.</li> <li>DSCH software.</li> </ul>	Ms. Poorva Waingankar	<ul style="list-style-type: none"> <li>CMOS Design</li> </ul>	Mr. Yadnesh Samant	<ul style="list-style-type: none"> <li>Latest Trends in VLSI</li> </ul>
	Ms. Jalpaben Pandya	<ul style="list-style-type: none"> <li>Fabrication of CMOS inverter.</li> <li>Basics of MOSFET.</li> <li>TCAD software on Nanohub.</li> </ul>	Ms. Jalpaben Pandya	<ul style="list-style-type: none"> <li>VLSI design rules</li> </ul>	Ms. Jalpaben Pandya	<ul style="list-style-type: none"> <li>project development and paper writing</li> </ul>
Building design using MidasGEN	Dr. Sanjeev Chaudhari	<ul style="list-style-type: none"> <li>Brief introduction to building design process</li> <li>Salient features of design</li> <li>Various types of analytical methods</li> <li>Design of Burj Khalifa using MidasGEN software</li> </ul>	Dr. Sanjeev Chaudhari	<ul style="list-style-type: none"> <li>Understanding of Design guidelines</li> <li>Hands on design in MidasGen</li> </ul>	Dr. Sanjeev Chaudhari	<ul style="list-style-type: none"> <li>Design of Building frame</li> <li>Project Development</li> </ul>
User Experience Design	Dr. Megharani Patil	<ul style="list-style-type: none"> <li>User Experience Design and its different parameters</li> <li>Goals of UXD</li> <li>Discussion of UI Design Cycle</li> </ul>	Dr. Lochan Jolly	<ul style="list-style-type: none"> <li>Explanation on methods such as Empathize, Analyze, Solve and Test.</li> </ul>	Mr. Atharva Tendulkar (Alumni)	<ul style="list-style-type: none"> <li>Demonstration of figma software</li> </ul>
			Dr. Megharani Patil	<ul style="list-style-type: none"> <li>Compare and Contrast different UI design of the same brand</li> </ul>	Dr. Megharani Patil	<ul style="list-style-type: none"> <li>Introduction to UX Capstone</li> </ul>
	Mrs. Purvi Sankhe	<ul style="list-style-type: none"> <li>Different Prototyping Techniques and User Recognition</li> <li>Preventive measures.</li> </ul>	Mrs. Purvi Sankhe	<ul style="list-style-type: none"> <li>Customer Journey Map</li> </ul>	Dr. Manish Rana Mrs. Purvi Sankhe	<ul style="list-style-type: none"> <li>Panel Discussion</li> </ul>

AWS Cloud Bootcamp	Dr. Anand Khandare	<ul style="list-style-type: none"> <li>• Introduction to Cloud.</li> <li>• Job profiles as an AWS architect.</li> </ul>	Dr. Anand Khandare	<ul style="list-style-type: none"> <li>• AWS Global Infrastructure</li> <li>• AWS Elastic Compute Cloud (EC2)</li> </ul>	<p>Dr. Anand Khandare</p> <p>Mr. Anand Vishwakarma</p>	<ul style="list-style-type: none"> <li>• Elastic Load Balancing</li> <li>• Paper writing</li> <li>• Timeline for developing projects</li> </ul>
	Mr. Kaustubh Shete	<ul style="list-style-type: none"> <li>• Introduction to AWS.</li> <li>• What is AWS Educate.</li> </ul>	Mr. Kaustubh Shete	<ul style="list-style-type: none"> <li>• Hands-on EC2 web server creation</li> </ul>	Mr. Kaustubh Shete	<ul style="list-style-type: none"> <li>• Practical demonstration of EBS and Auto-scaling</li> </ul>
					Mr. Shivam Raisharma	<ul style="list-style-type: none"> <li>• Which papers to refer and how to filter out papers based on quality</li> </ul>
IOT for Smart Solution	Ms. Sukruti Kaulgud	<ul style="list-style-type: none"> <li>• Introduction to IOT,</li> <li>• Why we need IoT and its benefits of IoT,</li> <li>• Architectures of IoT.</li> <li>• Advanced project based on IoT</li> <li>• Future of IoT</li> <li>• IoT Building Blocks</li> <li>• Brief idea on Arduino device</li> <li>• Bluetooth component in IoT</li> </ul>	Mr. Ashwin Nair	<ul style="list-style-type: none"> <li>• Introduction to IOT,</li> <li>• Pin diagram of Arduino</li> <li>• Flow chart for IoT based projects.</li> <li>• Types of Controller Board</li> <li>• IoT development Platforms</li> <li>• IoT Domains</li> <li>• Comparison of various platforms</li> <li>• Steps to execute the IoT</li> </ul>	Prof. Dr. Saurabh N. Mehta	<ul style="list-style-type: none"> <li>• Introduction to IOT,</li> <li>• Types of Projects</li> <li>• Key points in Out House Projects</li> <li>• How to select Projects</li> <li>• Key points when making projects</li> <li>• How to do survey</li> <li>• Few important projects in the field of IoT</li> </ul>
	Ms. Rupali Mane		Ms. Rupali Mane		Ms. Sukruti Kaulgud	
	Ms. Aarti Dharmani		Ms. Aarti Dharmani		Ms. Aarti Dharmani	

				projects.		
Leadership Development	Mr. Amol Dapkekar	<ul style="list-style-type: none"> <li>• Importance of soft skills.</li> <li>• Need to know yourself and others for successful professional.</li> <li>• Strengths and weaknesses.</li> </ul>	Mr. Amol Dapkekar	<ul style="list-style-type: none"> <li>• Discussion on project development and paper writing.</li> </ul>	Dr. Lochan Jolly	<ul style="list-style-type: none"> <li>• Leadership Development</li> </ul>
		Mr. Nivant Kambale			<ul style="list-style-type: none"> <li>• Interpersonal skills</li> <li>• Solved doubts regarding team building and group.</li> </ul>	Mr. Nivant Kambale
Basic of Solidworks	Mr. Krishna Gaikwad	<ul style="list-style-type: none"> <li>• project development</li> </ul>	Mr. Krishna Gaikwad	<ul style="list-style-type: none"> <li>• project development</li> </ul>	Mr. Krishna Gaikwad	<ul style="list-style-type: none"> <li>• Basics of Solidworks</li> </ul>
		<ul style="list-style-type: none"> <li>• Importance of software in drawing.</li> <li>• Basic commands in Solidworks</li> </ul>				Mr. Hardik Padia and Ms Niharika Rane

**c. No. of registrations (College-wise): -**

College	No of registrations
<b>Gandhi Institute of Engineering and Technology, Odisha</b>	3
Thakur College of Engineering and Technology	208
Vardhaman College of Engineering	67
Maratha Vidya Prasarak Samaj's Karmaveer Baburao Ganpatrao Thakare College of Engineering	134
Kls Gogte Institute of Technology	83
Government Engineering College	64
<b>Total Registrations</b>	<b>559</b>



**d. No. of participants: -**

Track	Registered	Day 1 Morning	Day 1 Evening	Day 2 Morning	Day 2 Evening	Day 3 Morning	Day 3 Evening
UXD	49	33	23	30	24	24	20
AWS	108	88	87	93	75	80	68
MidasGEN	107	103	30	69	11	35	15
Solidworks	78	34	26	27	15	24	17
VLSI	35	19	16	14	12	22	9
IOT	134	123	107	91	63	72	72
LD	48	21	14	18	14	20	18
<b>Total</b>	<b>559</b>	<b>421</b>	<b>303</b>	<b>342</b>	<b>214</b>	<b>277</b>	<b>219</b>

**2) Collaborative Project Development**

**a. Description of the event:**

The event encouraged students' and faculty members' collaboration from our institute with Student Exchange Partner Institutes all over the India for collaborative project development on branch specific recent trends. The students were given a platform to survey on the recent trends, propose a problem definition and thereby work to develop a solution in form of a mini-project on branch specific recent trends for any real time problem like societal, environmental or industry. A weekly follow up meeting with student-groups by deciding time slot according to group member's availability was initiated by faculty mentors.

**b. Track wise Faculty mentors involved:**

Track	Faculty mentors for Publications
<b>UXD</b>	Dr. Megharani Patil
	Mrs. Purvi Sankhe
	Mr. Rahul Neve
<b>AWS</b>	Dr. Anand Khandare
	Ms. Kalpana Gangwar
<b>MidasGEN</b>	Mr. Arpit Vyas
	Dr. Sanjeev Choudhary
	Mr. Ninad Khandare
<b>Solidworks</b>	Mr. Krishna Gaikwad
<b>VLSI</b>	Ms. Jalpaben Pandya
	Mrs. Poorva Waingankar
<b>IOT</b>	Mrs. Sukruti Kaulgud
	Dr. Payel Saha
	Mr. Niket Amoda

	Mrs. Sonali Singh
	Ms. Aarti Dhamanni
	Mrs. Rupali Mane
<b>LD</b>	Mr. Ashwin Pathak
	Mrs. Naina Kakad
	Mr. Nivant Kambale
	Mr. Harsh Rajan
	Mrs. Shobharani
	Mr. Amol Dapkekar

**c. Number of students participated:**

Track	Groups	TCET	KLS	VCE	NDMVP	GCE
UXD	4	16	2	0	5	0
AWS	3	10	2	0	2	0
MidasGEN	1	4	0	0	0	1
Solidworks	2	6	2	0	0	0
VLSI	4	10	0	0	2	1
IOT	12	16	9	7	17	0
LD	4	7	0	1	2	4
Total	30	69	15	8	28	6

**3) Paper Writing on recent trends**

**a. Description of the event:**

The event encouraged students' and faculty members' collaboration from our institute with Student Exchange Partner Institutes all over the India for paper writing on branch specific recent trends. The students were encouraged to write a technical paper on the project developed on branch specific latest technology. Faculty mentors ensured that any/all obscurity faced by the students while writing the paper were cleared. This event provided a platform for publishing collaborative research works in our institute E-Conference 2020 and Multicon-W 2021.

**b. Track wise Faculty mentors involved:**

Track	Faculty mentors for Publications
<b>UXD</b>	Dr. Megharani Patil
	Mrs. Purvi Sankhe
	Mr. Rahul Neve
<b>AWS</b>	Dr. Anand Khandare
	Ms. Kalpana Gangwar
<b>MidasGEN</b>	Mr. Arpit Vyas
	Dr. Sanjeev Choudhary
	Mr. Ninad Khandare
<b>Solidworks</b>	Mr. Krishna Gaikwad
<b>VLSI</b>	Ms. Jalpaben Pandya
	Mrs. Poorva Waingankar

<b>IOT</b>	Mrs. Sukruti Kaulgud
	Dr. Payel Saha
	Mr. Niket Amoda
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UXD	4	16	2	0	5	0
AWS	3	10	2	0	2	0
MidasGEN	1	4	0	0	0	1
Solidworks	2	6	2	0	0	0
VLSI	4	10	0	0	2	1
IOT	12	16	9	7	17	0
LD	4	7	0	1	2	4
Total	30	69	15	8	28	6

**Feedback:**

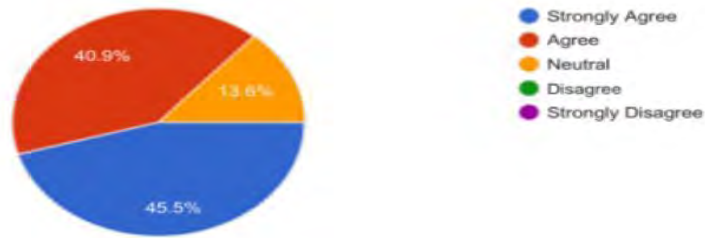
1. This Student Exchange Program will be useful in my work

88 responses



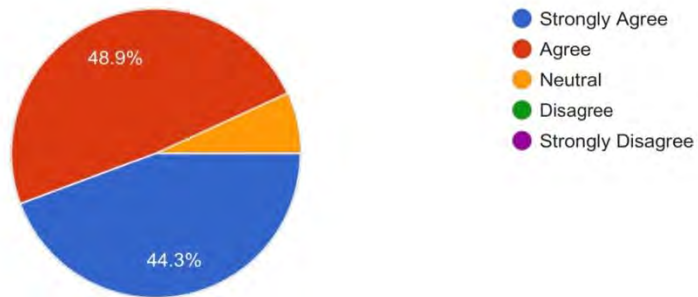
2. The time allotted for the Student Exchange Program was sufficient

88 responses



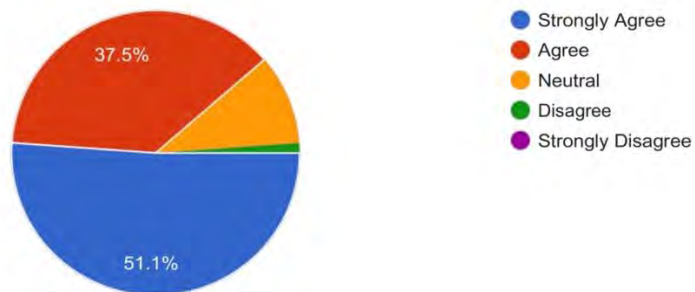
3. The content was organized and easy to follow

88 responses



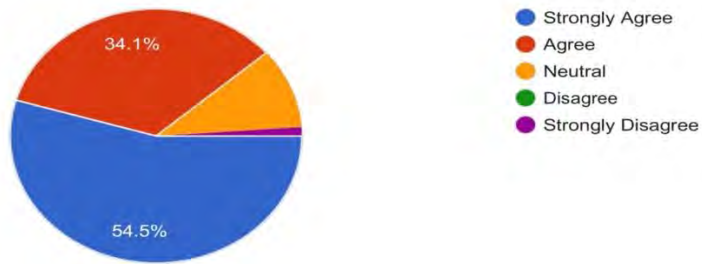
4. The Trainer was knowledgeable about training topics.

88 responses



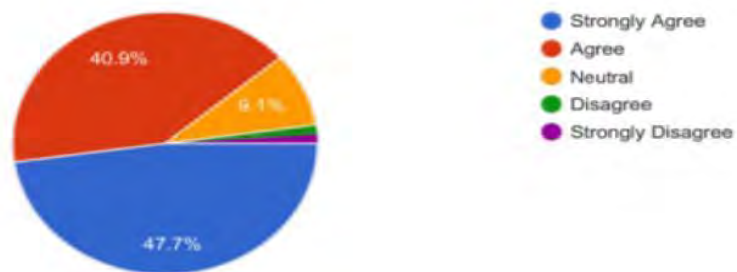
5. Exposure to new methodology, tools, and technologies.

88 responses



6. Was your Student Exchange Program experience related to your major area of study?

88 responses



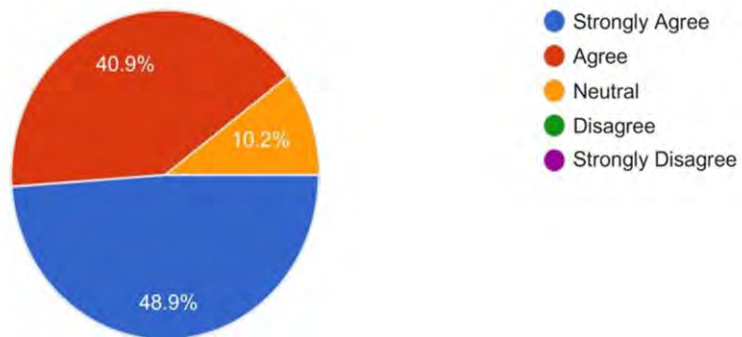
7. This Student Exchange Program allowed You to apply classroom theory to practice?

88 responses



8. Helped you in developing new interests and abilities?

88 responses



9. In what areas did you most develop and improve?

88 responses

Arduino

-

Web development

Coding

Yes

Nothing

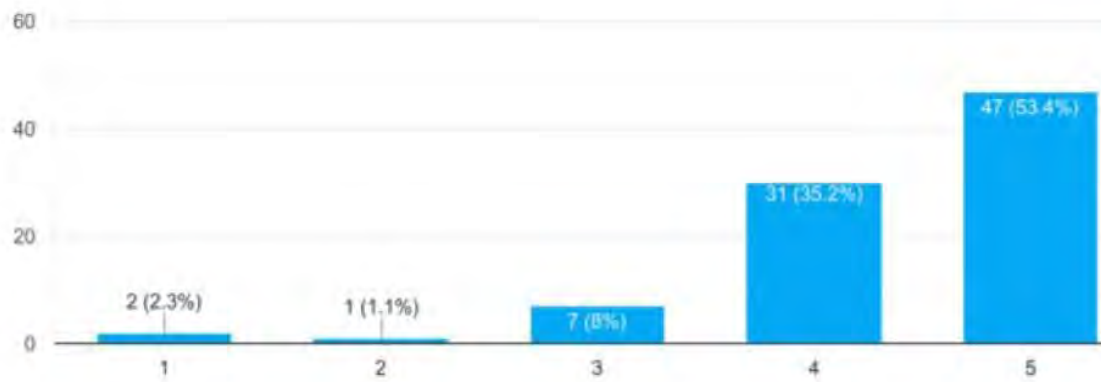
In 3D

All area it was used my knowledge

Front end part

10. Considering your overall experience, how would you rate this Student Exchange Program?

88 responses



11. Give suggestions as to how your Student Exchange Program experience could have been improved

Good

No

Nothing

None

Nil

.

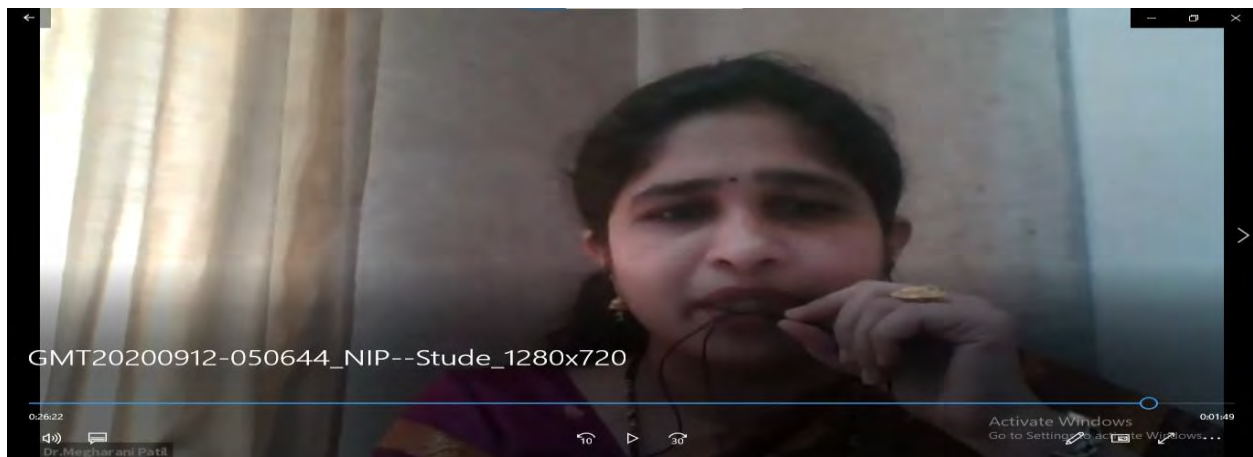
Good as it is

Yes

Great

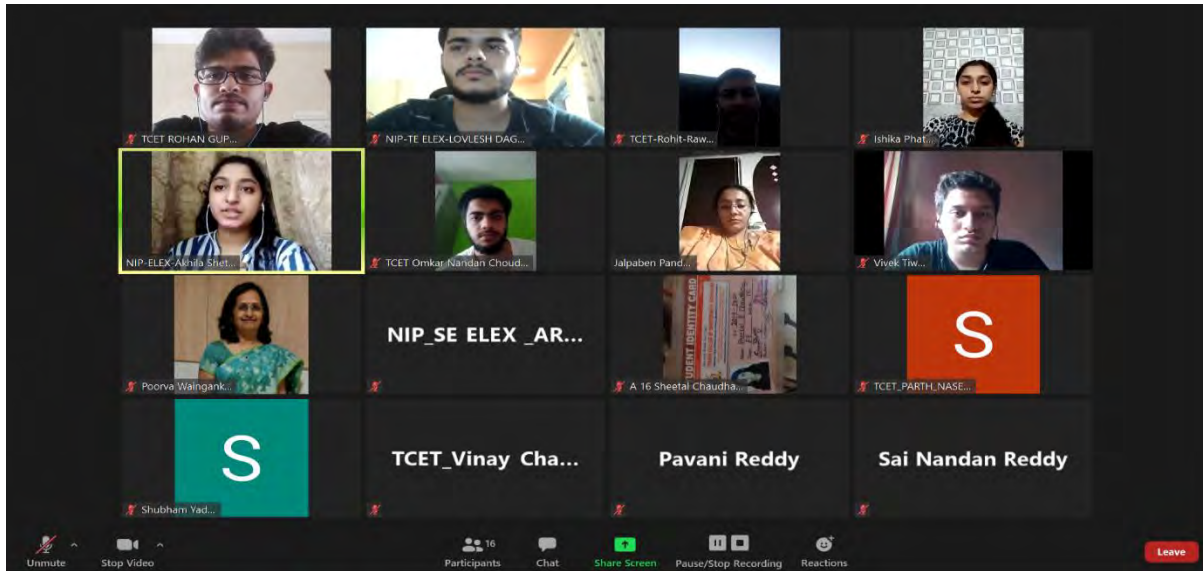
## Glimpse of Program:

### Inauguration Session

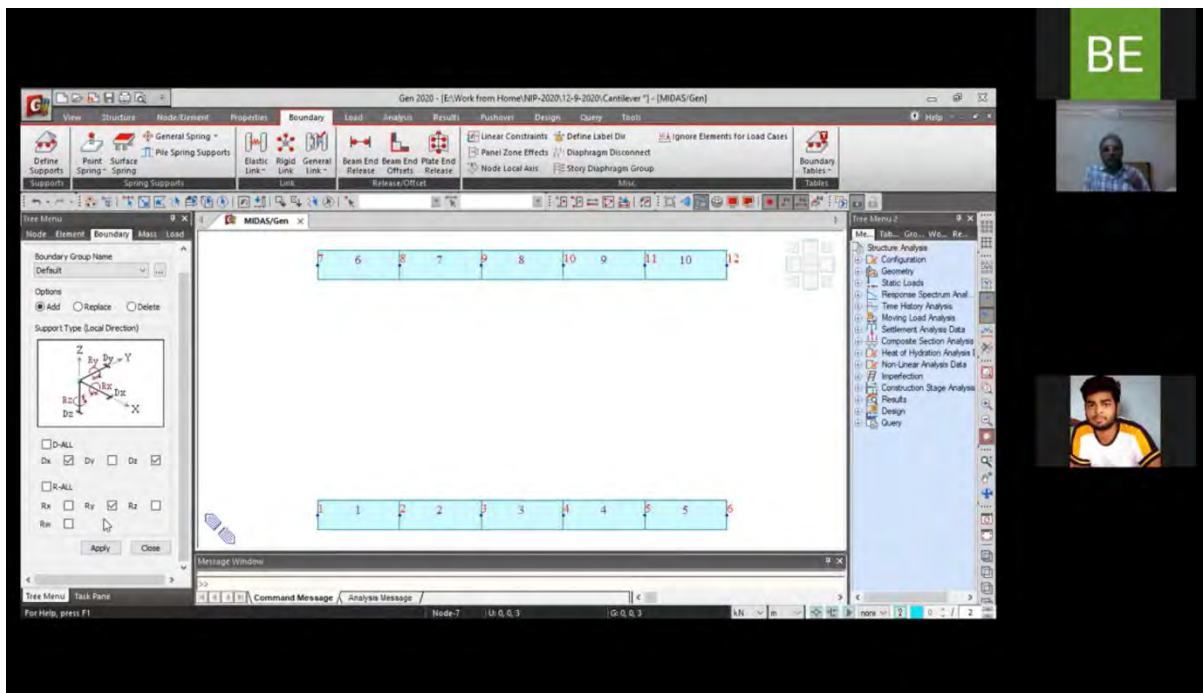




# VLSI Development



# Building design using MidasGEN



# User Experience Design

The screenshot shows a Zoom meeting window with a PowerPoint presentation titled "User Experience Design" by Purvi Sankhe. The presentation slide displays the title "User Experience Design" in large red letters and the name "Purvi Sankhe" below it. The Zoom interface includes a top bar with participant names (NIP-IT-Aastha, Purvi Sankhe, NIP-IT-Pratik..., Dr.Megharani..., NDMVP\_GAURA...), a recording indicator, and a right-hand sidebar with a "Participants (19)" list. The list includes names like NIP-IT-Aastha (Me), NIP-IT-Pratik Kumbh..., Purvi Sankhe, S2\_SECOMP\_C\_Pallavi Vishwakar..., Dr.Megharani Patil, Kalashri Patil, KLS\_AKSHATA\_NERLI, NDMVP\_GAURAV\_DHONDGE, NIP-IT-Sakshi Madkholkar, NIP-IT Sanyuktha, Rahul Neve, TCET\_Akash\_Jha, TCET\_Anup\_Singh, and TCET\_AROMA SINHA. The bottom of the Zoom window shows a "Click to add notes" button and a status bar indicating "Slide 1 of 14 - 'Design' - English (India)".

The screenshot shows a Zoom meeting grid with 20 participants. The participants are arranged in a 4x5 grid. The names of the participants are: Dr.Megharani Patil, NIP-IT-Aastha, Purvi Sankhe, TCET\_Rahul\_Poo..., TCET\_Shreyas\_Ra..., TCET\_Harneet\_K..., NIP-IT-Pratik Kumbh..., TCET\_Bhimsen\_Ti..., TCET\_Hridayansh..., NIP-IT Sanyuktha, NIP-IT-Sakshi M..., Tcet\_Megha\_Jain, TCET\_Anup\_Singh, NIP-IT-Aastha, NDMVP\_UJWAL..., YTIET\_Snehal\_T..., NDMVP\_Tejas\_..., Tcet\_Paridhi\_Su..., NDMVP\_FATEMA..., NDMVP\_PRATIB..., TCET-AROMA SI..., TCET\_Akash\_Jha, and S2\_SECOMP\_C\_P... The grid also shows a green square with the letter 'F' and a black square with a white diamond shape.

# AWS Cloud Bootcamp

Zoom Meeting | You are viewing Kaustubh Shete's screen | View Options

Recording... | 93 | Participants | Polls | Chat | Share Screen | Reactions | More | End

## Contents

- What is Cloud Computing ?
- Principles of Cloud
- Use Case
- Elastic Compute Cloud Demonstration (EC-2)
- Web Hosting Using EC-2 Instance
- Web Hosting Using S3 Bucket

Hi !! Lets learn cloud computing !!

Participants (93)

- Kalpna Gangwar (Host, me)
- KS Kaustubh Shete (Co-host)
- Anand Vishwakarma (Co-host)
- DA Dr. Anand Khandare (Co-host)
- NIP-COMP- Rakshit Shetty (Co-host)
- NIP-COMP-Aroma Sinha (Co-host)
- 33\_SECOMP\_B\_ Akash Maurya
- 34\_SE\_IT\_A\_Karan Jain
- AK ARUN KUMAR SINGH
- B bhanu prashanth
- CP CHANDRA Prakash
- KS K. Sanjana Reddy

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Grid of participants:

- Kaustubh Shete
- Kalpna Gangwar
- Dr. Anand Khandare
- Pransh Shetty
- TCEI\_Akash Maurya
- NIP-COMP\_Aroma Sinha
- NIP-COMP\_Samkaha Bedi
- TCEI\_Sahil Jaju
- Anand Vishwakarma
- TCEI\_Karar Jain
- TCEI\_MANISH MISTRY
- TCEI\_Ashutosh Sanghvi
- TCEI\_ASHWIN KUMAR SINGH
- TCEI\_Srinivasa Venkatesh
- Satish Kumar Yadav 32
- Indrniip\_sarangsurayawanthi
- TCEI\_CHANDRASINGH
- TCEI\_Nyachavi Parmar
- NIP-COMP\_Rakshit Shetty
- TCEI\_Sudharshu Mishra
- KIS\_BHAJANTESH SAI AK
- VMFG\_Sai Dhavendra Akula
- TF\_A\_52\_Vasu\_Dandey
- TCEI\_Janhavi Mishra
- TCEI\_Krushibhi Ravaria



# IOT for Smart Solutions

Zoom Meeting

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Recording

## Examples of smart cities

- While many cities across the world have started implementing smart technologies, a few stand out as the furthest ahead in development. These cities include:
  - Kansas City, Missouri
  - San Diego, California
  - Columbus, Ohio
  - New York City, New York
  - Toronto, Canada
  - Singapore
  - Vienna, Austria
  - Barcelona, Spain
  - Tokyo, Japan
  - Reykjavik, Iceland
  - London, England
  - Melbourne, Australia
  - Dubai, United Arab Emirates
  - Hong Kong, China

Participants (107)

Find a participant

- TCET\_TEA\_64\_E&TC\_Ankita\_Saha
- TECET\_69\_MECH\_TE\_B\_Vinay Ver...
- vaishnavi joshi KBTCOE\_TE
- VMEG\_Kartikeya\_P
- VMEG\_Akhila\_Kodam
- VMEG\_Harshitha\_Patil
- VMEG\_kanchan\_bhavani
- VMEG\_Karthik A
- VMEG\_Mattam\_Nithin
- VMEG\_Pavani\_Enjamoori
- VMEG\_PRANEETH\_SUNKAVALLI
- vmeg\_sindhu kasturi
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Zoom Meeting

1/5

Host BE E&TC A&B | Rupali Mane TCET | Student Coordinat... | Aarti Dharmani | Students Coordina...

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NDMVP\_HIMANSH... | KLS GIT\_Palak\_Lun... | Bhawana Ahire | NDMVP\_Amol\_Bho... | KLS GIT\_Amar\_Badi...

NDMVP\_Renu\_Asw... | KLS GIT\_Akshay K... | KLS GIT\_Saieesh\_N... | GEC Nawada\_Hars... | TCET\_SE\_IT\_B\_04\_Ri...

VMEG\_Srinivas\_Ko... | NDMVP\_Yashodee... | Sonali Singh | TCET\_SE\_E&TC\_A... | TCET\_BE\_A\_74\_Anja...

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# Leadership Development

**Individual/Team Goal**

It's not that I'm so smart,  
it's just that I stay with  
problems longer.  
**Albert Einstein**

Recording

Speaker View

Amol Dapkekar

NIP Coordinator Vaishnavi ...

Nivant Kambale

ASHWIN PATHAK

TCET\_Shivam Kadam\_CVIL

TCET\_DURGESH PANDE...

GEC Nawada\_Satyam Ku...

Gandhar ghawade

Swati Solanki

Rashmi Kumari

Amit Raj

Snehal Bhamre

Abhishek Kumar

Sonam Singh

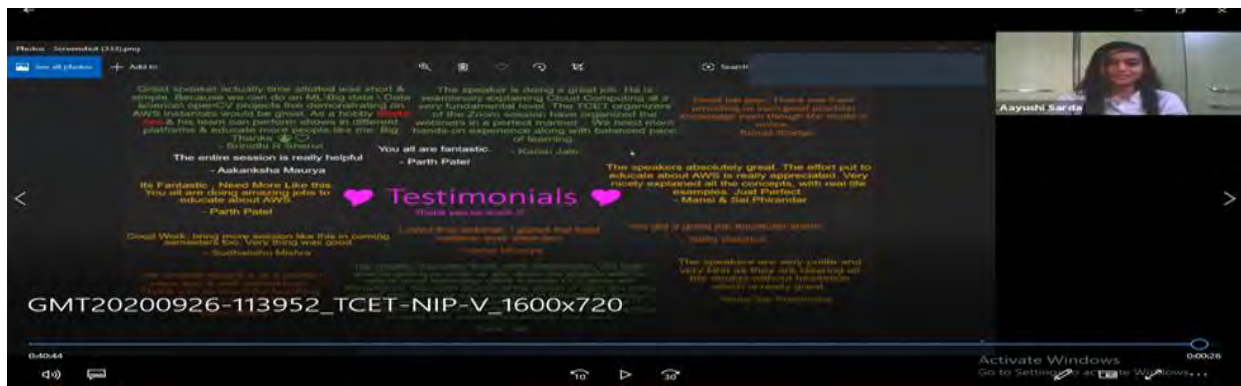
From Rashmi Kumari to Everyone  
thank you so much sir

Mute Stop Video Security Participants 14 Chat 4 Share Screen Record Reactions Leave





## Valedictory Session



**Outcome:** This program was based on EBSB theme. Students were able adopt styles, customs and other aspects of the interdisciplinary learning approach, social culture of each other's institute which is aim of EBSB program along with learning technical skills regarding a latest technology. Hands on workshop helped students to learn collaboratively the latest branch specific topics. The program provided students and faculty members' collaboration from our institute with Student Exchange Partner Institutes all over the India a platform for collaborative project development and paper writing on branch specific recent trends. 126 Students and faculty members written 30 collaborative research papers as an outcome of this program.

Dr. B.K.Mishra

Principal, TCET



**National Initiative Program (Student Exchange Program)  
 Online Workshop, Collaborative Project Development and Paper Writing on Branch Specific Recent Trends  
 Annexure: List of Project/Publications under various Program Tracks**

Group No.	Name of Members	Institute Name, District, State	Email Id	Contact No.	Project/Paper Title	Publication Status
<b>AWS (Comps and IT)</b>						
1	Aakanksha Maurya	Thakur College of Engineering and Technology, Mumbai, Maharashtra	aakanksha052@gmail.com	9867018006	Hosting a Website Application in AWS Cloud	Going to publish in MulticonW 2021
	Janhavi Mishra	Thakur College of Engineering and Technology, Mumbai, Maharashtra	janhavimishra85@gmail.com	7710970968		
	Unnati Mistry	Thakur College of Engineering and Technology, Mumbai, Maharashtra	unnati.mistry786@gmail.com	9833634575		
	Madhavi Parmar	Thakur College of Engineering and Technology, Mumbai, Maharashtra	madhaviparmar341@gmail.com	9167430356		
	Rutuja Ghatge	KLS Ghogte Institute of Technology, Belagavi, Karnataka	rutujaghatge10@gmail.com	9740115605		
Dr. Anand Khandare (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	anand.khandare@thakureducation.org		9769642677		
2	Atharva Langhe	NDMVPS's KBT COE, Nashik, Maharashtra	alanghe21@gmail.com	8482941666	Student Alumni System	Going to publish in MulticonW 2021
	Abhinandan Nahar	NDMVPS's KBT COE, Nashik, Maharashtra	abhinandannahar378@gmail.com	77699 76710		
	Ninad Pradeep Patil	Thakur College of Engineering and Technology, Mumbai, Maharashtra	npradeepatil2001@gmail.com	8793531178		
	Ms. Kalpana Gangwar (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	kalpana.gangwar@tctmumbai.in	99854 86908		
3	Avisha jain	Thakur College of Engineering and Technology, Mumbai, Maharashtra	avisha9619@gmail.com	7977322157	Health Bot	Going to publish in MulticonW 2021
	Srinidhi R. Shenvi	KLS Ghogte Institute of Technology, Belagavi, Karnataka	nidhi26shrishenvi@gmail.com	8746035335		
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	Sudhanu rai	Thakur College of Engineering and Technology, Mumbai, Maharashtra	amanrai7757822267@gmail.com	7757822267		
	Dr. Anand Khandare (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	anand.khandare@thakureducation.org	9769642677		
<b>UXD (COMP and IT)</b>						
1	Neri Akshata Shankar	KLS Gogte institute of technology, Balgavi, Karnataka	akshataneri99@gmail.com	9545899639	Mobile app for movie booking system during corona pandemic	Going to publish in MulticonW 2021
	Kalashri Patil	KLS Gogte institute of technology, Balgavi, Karnataka	patilkalashri7829@gmail.com	7795544756		
	Aroma Sinha	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	askurkure123@gmail.com	9518541996		
	Pallavi Vishwakarma	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	pallavivishwakarma999@gmail.com	8691816759		
	Ms. Ujjwala Sampat Tambe	NDMVPS's KBT COE, Nashik, Maharashtra	tambe.ujwala@kbtcoe.org	9545806557		
	Dr. Megharani Patil (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	megharani.patil@thakureducation.org	9833463091		
2	Shreyas Rathod	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	aristeinmelroy2580@gmail.com	8104077986	Mobile app for Intensive care for newborn babies.	Going to publish in MulticonW 2021
	Anup Singh	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	anupms94@gmail.com	8655878043		
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	Tejas Hadole	NDMVPS's KBT COE, Nashik, Maharashtra	im.tejas08@gmail.com	9112858069		
	Purvi Sankhe (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	purvi.sankhe@thakureducation.org	9833796664		
3	Sakshi Madkholkar	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	sakshimadkholkar1210@gmail.com	8369793893	Book Your Slot	Going to publish in MulticonW 2021
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	Harneet Kaur Dehiya	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	harneet501.rk@gmail.com	7039952701		
	Rahul Neve Sir (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	rahulneve@gmail.com	7276411949		
4	Rishabh Chopda	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	aadtichopda2@gmail.com	9326765878	Designing a UI Template for Student Connect Application using Neomorphic Components	Accepted in e-Conference on Artificial Intelligent and Machine Learning
	Alisha Gupta	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	alishacamb@gmail.com	9819682209		
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	Megha Jain	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	meghain141@gmail.com	8879846965		
	Sandesh More	NDMVPS's KBT COE, Nashik, Maharashtra	sandeshmore100@gmail.com	9422913619		
	Dr. Megharani Patil (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	megharani.patil@thakureducation.org	9833463091		
<b>BS (Mech.)</b>						
1	Rohit Yadav	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	yaduvanshirohit2@gmail.com	8976774810	An Overview of Additive and Virtual Manufacturing	Accepted in e-Conference on Industry 4.0 (IeCI) 2020 Perspective and Future
	Abhash Verma	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	abhashverma10@gmail.com	9702105205		
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	Vaibhav Havali	KLS Gogte institute of technology, Balgavi, Karnataka	vhavali666@gmail.com	8971780968		
	Krishna Gaikwad (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	krishna.gaikwad@thakureducation.org	80873 43369		
2	Rishab Singh	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	srishab3535@gmail.com	7499373301		Accepted in e-Conference on Industry 4.0 (IeCI) 2020 Perspective and Future
	Vimarsh Adarsh Kaul	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	vimarshkaul10@gmail.com	9870708846		
	Altar Mudassir Harun	KLS Gogte institute of technology, Balgavi, Karnataka	mhsattar313@gmail.com	8792633554		
	Krishna Gaikwad (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	krishna.gaikwad@thakureducation.org	80873 43369		
<b>MG (Civil)</b>						
1	Neelay Prabhu	Thakur College of Engineering and Technology, Mumbai, Maharashtra	nnp22042000@gmail.com	9820258943	STRUCTURAL DESIGN OF HIGHRISE BUILDINGS- A CASE STUDY	Going to publish in MulticonW 2021
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	Mr. Ninad Khandare (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	ninad.khandare@thakureducation.org	94228 30988		
	Dr. Sanjeev Choudhary (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	sanjeev.choudhari@thakureducation.org	98697 64381		
<b>LD (H&amp;S Dep.)</b>						
1	Gandhar Ghawade	Thakur College of Engineering and Technology, Mumbai, Maharashtra	gandharghawade@gmail.com	9096871141	Case Study of MS Dhoni	Going to publish in MulticonW 2021
	Prachi Ganesh Bhat	NDMVPS's KBT COE, Nashik, Maharashtra	bhatprachi2372@gmail.com	7666362708		
	Shrishty Kumari	Government Engineering College, Nawada, Bihar	srishsty9092@gmail.com	8294481399		
	Mr. Ashwin Pathak (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	ashwin.pathak@thakureducation.org	9820796794		
2	Durgesh R Pandey	Thakur College of Engineering and Technology, Mumbai, Maharashtra	durgeshrpandey2000@gmail.com	9594091201	Case Study on Abdul Kalam as a leader	Going to publish in MulticonW 2021
	Satyam Kumar	Government Engineering College, Nawada, Bihar	satyam72kr@gmail.com	9199594590		
	Mr. Nivant Kambale (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	nivantk85@gmail.com	96650 5977		
3	G. Pavani Reddy	Vardhaman College of Engineering, Hyderabad, Telangana	pavan27.g@gmail.com	9032323268	Case Study Swami Vivekananda	Going to publish in MulticonW 2021
	Rahul Sharma	Thakur College of Engineering and Technology, Mumbai, Maharashtra	rahulsharma1030@gmail.com	8879268885		
	Mr. Ashwin Pathak (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	ashwin.pathak@thakureducation.org	9820796794		



4	Shivam Satish Kadam	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	shivamkadam88503@gmail.com	8850348271	Anil Ambani richest to bankrupt.	Going to publish in MulticonW 2021
	Sonam Anil Singh	Government Engineering College, Nawada, Bihar	sonamsonam49214@gmail.com	9955927781		
	Rohan Dadasaheb Parkhe	NDMVPS's KBT COE, Nashik, Maharashtra	rohanparkhe007@gmail.com	7744895077		
	Amol Dapkekar (Guide)	Thakur College Of Engineering and Technology, Mumbai, Maharashtra	amol.dapkekar@thakureducation.org	8976643474		
<b>VLSI (Elex.)</b>						
1	Akhila G Shetty	Thakur College of Engineering and Technology, Mumbai, Maharashtra	akhilashetty879@gmail.com	7083124879	Recent Trends in VLSI	Going to publish in MulticonW 2021
	Omkar Nandan Choudhary	Thakur College of Engineering and Technology, Mumbai, Maharashtra	omknan60@gmail.com	7875336344		
	Payal Govardhan Thorat	NDMVPS's KBT COE, Nashik, Maharashtra	zuzuthorat4@gmail.com	7378741455		
2	Jalpaben Pandya (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	jalpa.pandya@thakureducation.org	9561769957	Microwave Application	Going to publish in MulticonW 2021
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	Rohan Gupta	Thakur College of Engineering and Technology, Mumbai, Maharashtra	rohang817404@gmail.com	7021353279		
3	Brajesh Kumar	Government Engineering College, Nawada, Bihar	brajeshkumar20122000@gmail.com	8252634146	Carbon Nanotubes	Accepted in e-Conference on Photonics and It's Application
	Poorva Waingankar (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	poorva.waingankar@tctmumbai.in	93239 06881		
	Vivek Tiwari	Thakur College of Engineering and Technology, Mumbai, Maharashtra	tiwarivivek020801@gmail.com	9082527870		
4	Santosh Saw	Thakur College of Engineering and Technology, Mumbai, Maharashtra	sawsantosh350@gmail.com	7738307554	Career Options in VLSI	Going to publish in MulticonW 2021
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	Jalpaben Pandya (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	jalpa.pandya@thakureducation.org	9561769957		
4	Parth Naseri	Thakur College of Engineering and Technology, Mumbai, Maharashtra	parthnaseri@gmail.com	9082268116	Career Options in VLSI	Going to publish in MulticonW 2021
	Rohit Rawal	Thakur College of Engineering and Technology, Mumbai, Maharashtra	rohit.rawal2809@gmail.com	9967503740		
	Poorva Waingankar (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	poorva.waingankar@tctmumbai.in	93239 06881		
<b>IOT (E&amp;Tc.)</b>						
1	Shreya Mishra	Thakur College of Engineering and Technology, Mumbai, Maharashtra	s1032190568@gmail.com	9004692762	IOT based Weather Monitoring System	Accepted in e-Conference on IoT - SIAC
	Chinmay Deepak Ghodke	NDMVPS's KBT COE, Nashik, Maharashtra	chinmayghodke777@gmail.com	8793869021		
	Sushma Rathod	KLS Gogte Institute of Technology, Belgaum, Karnataka.	sushmarathod29@gmail.com	7996865498		
	Palak Dhanpatraj Lunawat	KLS Gogte Institute of Technology, Belgaum, Karnataka.	palaklunawat19@gmail.com	9559587686		
2	Aditya Chatterjee	KLS Gogte Institute of Technology, Belgaum, Karnataka.	adityachat920@gmail.com	8806213924	IOT Based Baby Monitoring System	Accepted in e-Conference on IoT - SIAC
	Sukruti Kaulgud (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	sukruti.kaulgud@thakureducation.org			
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	Simran Upasani	NDMVPS's KBT COE, Nashik, Maharashtra	simran.upasani@gmail.com	8554974331		
3	Rohit Shinde	NDMVPS's KBT COE, Nashik, Maharashtra	rohitshinde4331@gmail.com	9130749892	Home Automation	Accepted in e-onference on IoT - SIAC
	Anuja Karpe	NDMVPS's KBT COE, Nashik, Maharashtra	anujakarpe19@gmail.com	8179531729		
	Kvs Jayanth	Vardhaman College of Engineering, Hyderabad, Telangana	kvs19cs@vardhaman.org			
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4	Amir Mehsaniya	Thakur College of Engineering and Technology, Mumbai, Maharashtra	amirmeh5858@gmail.com	9324465858	IoT For Elctronics Medical Records	IAccepted in e-onference on IoT - SIAC
	Knchan Bhavani	Vardhaman College of Engineering, Hyderabad, Telangana	bhavanikanchan79@gmail.com	9100848816		
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	Prachi Pandurang Thete	NDMVPS's KBT COE, Nashik, Maharashtra	prachithete43@gmail.com	7888265529		
5	Sukruti Kaulgud (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	sukruti.kaulgud@thakureducation.org		Smart Anti-theft System	Accepted in e-onference on IoT - SIAC
	Tanushree Nagesh Poojary	Thakur College of Engineering and Technology, Mumbai, Maharashtra	tanushreepoojary2000@gmail.com	8652797353		
	Anuradha Hanamant Wadiyar	KLS Gogte institute of technology, Balgavi, Karnataka	anuradhadwadiyar.aw@gmail.com	7996705581		
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6	Ashish Jha	Thakur College of Engineering and Technology, Mumbai, Maharashtra	ashishj5200@gmail.com	7303574473	Smart Bike	Accepted in e-onference on IoT - SIAC
	Kanchan Nandalal Maknor	NDMVPS's KBT COE, Nashik, Maharashtra	kanchanmaknor@gmail.com	7218037738		
	Patil Purvi Kishor	NDMVPS's KBT COE, Nashik, Maharashtra	purvipatil1121@gmail.com	7709713848		
	Dr. Payel Saha (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	payal.saha@thakureducation.org	98194 12736		
7	Srishti Rakesh Pandey	Thakur College of Engineering and Technology, Mumbai, Maharashtra	srishti18200@gmail.com	8779690218	Smart Traffic Management System	Accepted in e-onference on IoT - SIAC
	Aayush Agarwal	Thakur College of Engineering and Technology, Mumbai, Maharashtra	agarwalaayush5187@gmail.com	8451987617		
	Shah Aagam	NDMVPS's KBT COE, Nashik, Maharashtra	aagamashah08@gmail.com	9970066120		
	Niket Amoda (Guide)	NDMVPS's KBT COE, Nashik, Maharashtra				
8	Faheem Firoz Bagwan	Thakur College of Engineering and Technology, Mumbai, Maharashtra	faheembagwan2998@gmail.com	9137317944	IoT based garbage monitoring system	Accepted in e-onference on IoT - SIAC
	Amar Dhareppa Badiger	KLS Gogte institute of technology, Balgavi, Karnataka	abhishkekbadiger261@gmail.com	8550851733		
	Disha Kharche	NDMVPS's KBT COE, Nashik, Maharashtra	kharchedisha@gmail.com	8381001553		
	Niket Amoda (Guide)	NDMVPS's KBT COE, Nashik, Maharashtra				
9	Akshat Girish Shah	Thakur College of Engineering and Technology, Mumbai, Maharashtra	akshatshah2570@gmail.com	8097264027	Smart Irrigation	Accepted in e-onference on IoT - SIAC
	Saikrishna Gangyada	Vardhaman College of Engineering, Hyderabad, Telangana	saik73110@gmail.com	7386900550		
	Godavarthi Yashwitha	Vardhaman College of Engineering, Hyderabad, Telangana	yashwithagodavarthi7@gmail.com	8328002386		
	Sonali Singh (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	sonali.singh@thakureducation.org			
10	Aarti Dhamanni (Guide)	Vardhaman College of Engineering, Hyderabad, Telangana			The supermarket of the future : Designing for humans	Going to publish in MulticonW 2021
	Shreyas patil	KLS Gogte institute of technology, Balgavi, Karnataka	shreyaspatil92000@gmail.com	9844702550		
	SRINIVAS KOMMANA	Vardhaman College of Engineering, Hyderabad, Telangana	bobbysrinivas26@gmail.com	9133044727		
	Kavita Dullabh Jadhav	NDMVPS's KBT COE, Nashik, Maharashtra	kavitadjadhav19@gmail.com	7350846785		
11	Kadari Anusha	Vardhaman College of Engineering, Hyderabad, Telangana	anushakadari12@gmail.com	9390360724	IoT based Intelligent Gas Leakage Detector Using Arduino	Accepted in e-onference on IoT - SIAC
	Rupali Mane (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	rupali.mane@thakureducation.org			
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	Srushthi Raosaheb Patil	NDMVPS's KBT COE, Nashik, Maharashtra	shu10072001@gmail.com	8329809180		
12	Sakshi yashwant pagar	NDMVPS's KBT COE, Nashik, Maharashtra	sakshipagar21@gmail.com	9112649853	Hospital inventory management	Accepted in e-onference on IoT - SIAC
	Rupali Mane (Guide)	Thakur College of Engineering and Technology, Mumbai, Maharashtra	rupali.mane@thakureducation.org			
	Abhishek M. Twari	Thakur College of Engineering and Technology, Mumbai, Maharashtra	abhishektwari.am@gmail.com	9773734823		
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