



*Tagdu 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)

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

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.

#### **Objectives:**

- To expose students to non-traditional forms of acquiring maximum knowledge in minimum time.
- To reinforce abstract learning with learning experiences.
- To enhance students' ability to assess and understand (in a relatively short time) the culture of new groups of people, in order to function effectively as a contributing member of the given community.
- To expose students to the ethos of the campus environment in a different setting so as to establish bench marks against which they can measure the performance of their institution and their personal performance.
- To observe student life in a new setting and to exchange ideas that will enrich the lives of students visiting and students in the host institute.
- To foster staff development.
- To help students to be ambassadors for their institution and region.

#### **Expected Outcome:**

- Self-development and awareness leading to enhanced self-confidence and self-esteem. This is often the most noticeable change in returned exchange students.
- Maturity and social poise, fuelled by the necessity to confront challenges outside a familiar support network and comfort zone.
- Integration into another family as well as the development of life-long friendships, fostering an appreciation of home and family.

- A tremendous sense of accomplishment upon completion encourages students to develop independent opinions, make informed decisions and strive to attain fresh goals.
- Students who go on exchange program find themselves more comfortable in any new environments.
- Increased pressure to communicate and relate to others develops an awareness of group dynamics and personal sensitivity towards others.
- Successful program completion represents an excellent measure of personal flexibility, encompassing an ability to reach compromise, focus and succeed through challenging times.

### **Details of A.Y 19-20 Activities**

**Duration of Program:** 15<sup>th</sup> June 2020 to 27<sup>th</sup> June 2020

**Activities under Program:** In the exchange program, three events are conducted:

1. GUSTO-Online Cultural Event
2. E-Techno fest 20
3. One week online internship on ML, IOT and WEB development

**Venue: Online Platform** (Zoom, YouTube, and Instagram)

**Institute participated:** Total 74 students of 3 institutes participated.

1. Gandhi Institute of Engineering and Technology University, Odisha ,
2. St. John College of Engineering and Management, Palghar, Maharashtra.
3. Theeme College of Engineering, Boisar, Maharashtra

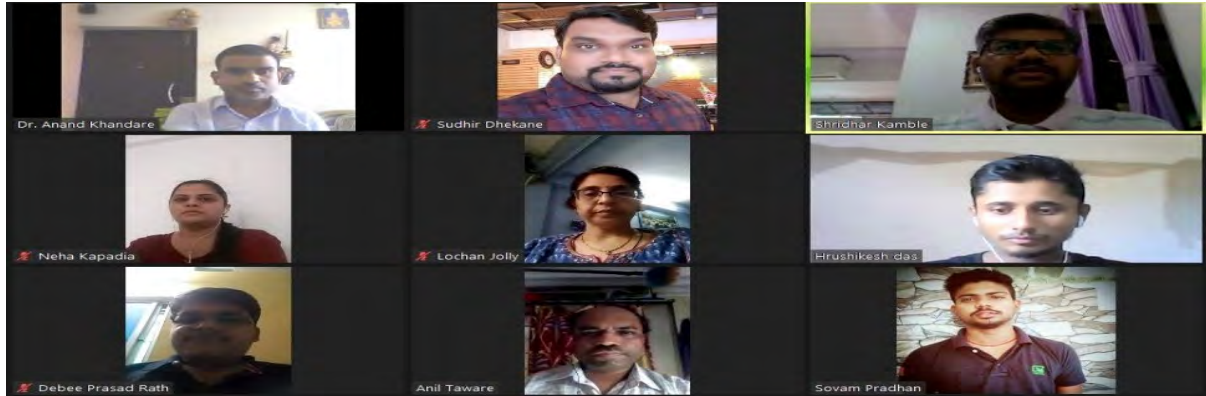
**Overall Coordinator:**

1. Dr. Lochan Jolly (Dean SSW)
2. Dr. Anand Khandare (Convener)

**Details of Events:**

Sr.No	Event Name	Faculty Coordinators	Number of students attended
1	GUSTO-Online Cultural Event	Mrs. Poorva Waingankar- (ELEX Dept) Mr. Vikas Singh-(COMP Dept)	GIET-2, SJCEM-07
2	E-TECHNOFEST'20	Dr . Rajni Bahuguna–Activity Head Mr. Vikas Singh- Faculty In-charge	GIET-2,SJCEM-22, TCOE-15
3	Online Internship on ML, IOT and WEB	Mrs. Shiwani Gupta Mrs. Sukruti Kalgud Mr. Sudhir Dhekhande	GIET-22, TCOE-01

## Glimpses:



## Artificial Neural Network

- An artificial neural network is mathematical model of biological neurons .

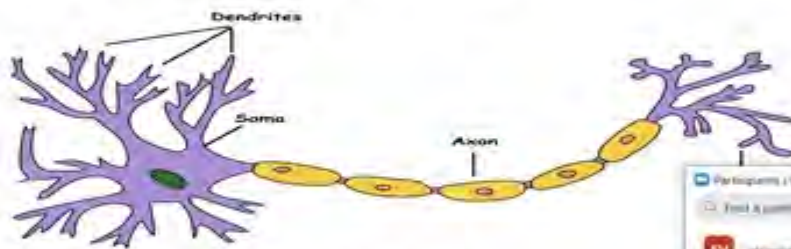
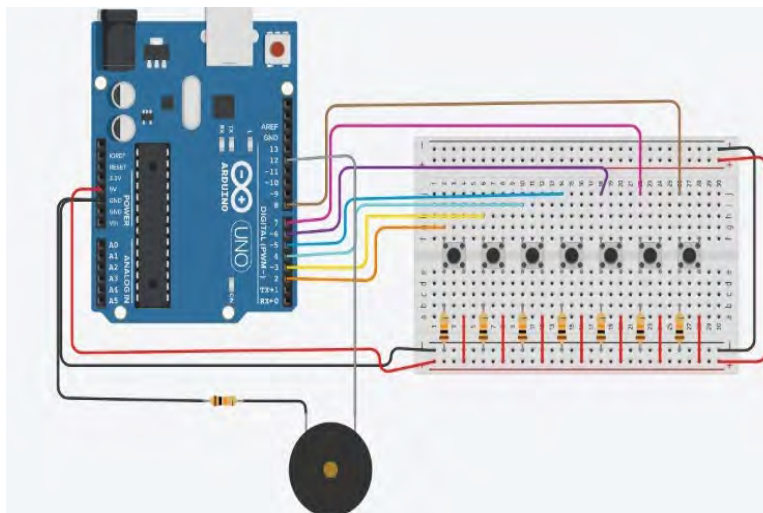
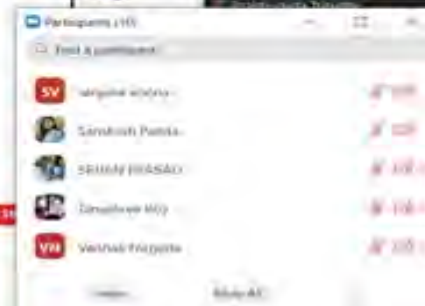


Fig. Biological Neuron

- **Dendrite:** Receives signals from other neurons
- **Soma:** Processes the information
- **Axon:** Transmits the output of this neuron
- **Synapse:** Point of connection to other neurons



## Details of A.Y 20-21 Activities

### Online Workshop, Collaborative Project Development and Paper Writing on Branch Specific Recent Trends

#### **Objective:**

1. To learn collaboratively the branch specific recent trends in form of hands on workshop.
2. To encourage students and faculty members collaboration from our institute with Student Exchange Partner Institutes all over the India for collaborative project development and paper writing on branch specific recent trends.
3. To provide a platform for publishing collaborative research works in our institute e-conference 2020 and Multicon-W 2021.
4. To adopt the national initiative under EBSB: Students exchange program at institute level.

#### **Workshop 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

#### **Overall Coordinators:**

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

#### **Workshop 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)

#### **Workshop 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)

**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) Yadavrao Tasgaonkar Institute of Engineering & Technology, Bhivpuri, Karjat
- (6) Kls Gogte Institute of Technology, Belagavi, Karnataka
- (7) Maratha Vidya Prasarak Samaj's Karmaveer Baburao Ganpatrao Thakare College of Engineering, Nashik

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

**Program Details and Duration:**

<b>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	

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

College	No of registrations
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
Yadavrao Tasgaonkar Institute of Engineering & Technology	3
<b>Total Registrations</b>	<b>559</b>

**No. of participants in 3 days Online Workshop:**

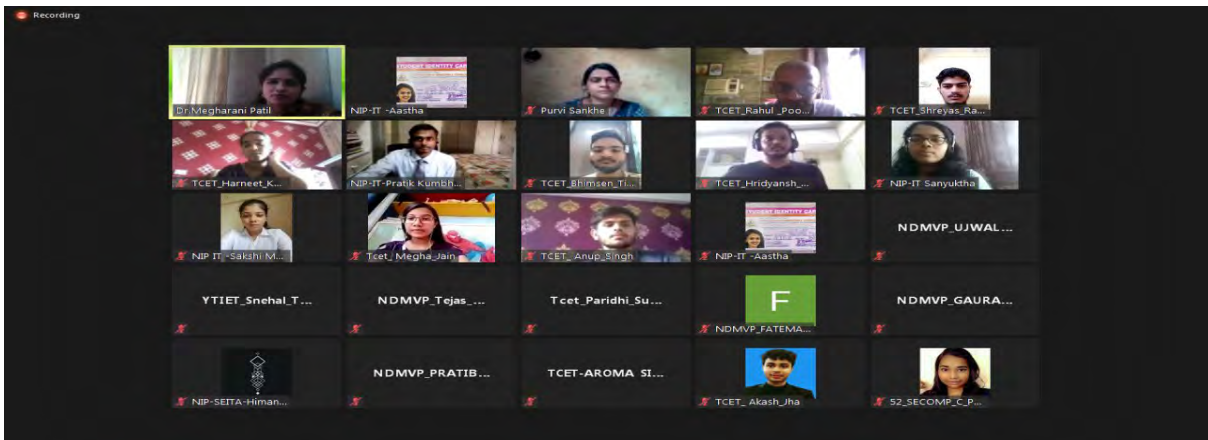
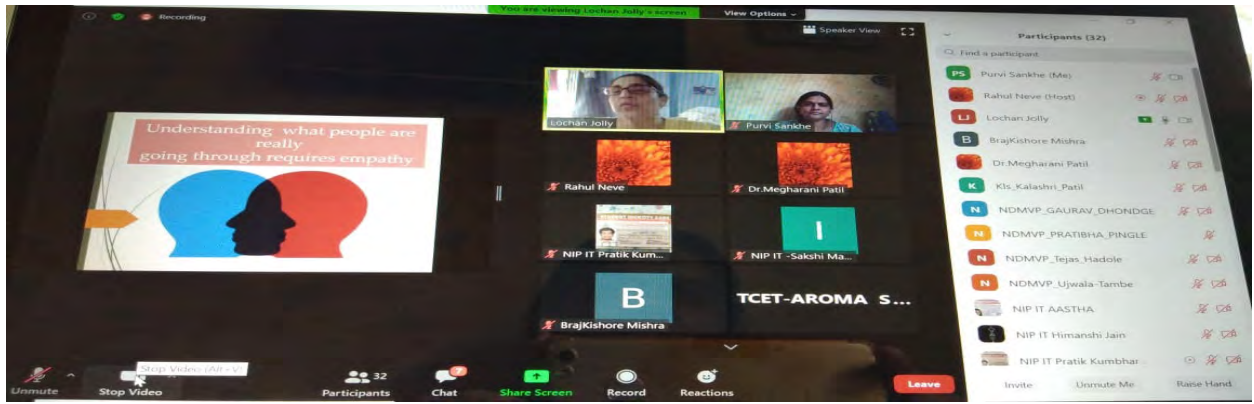
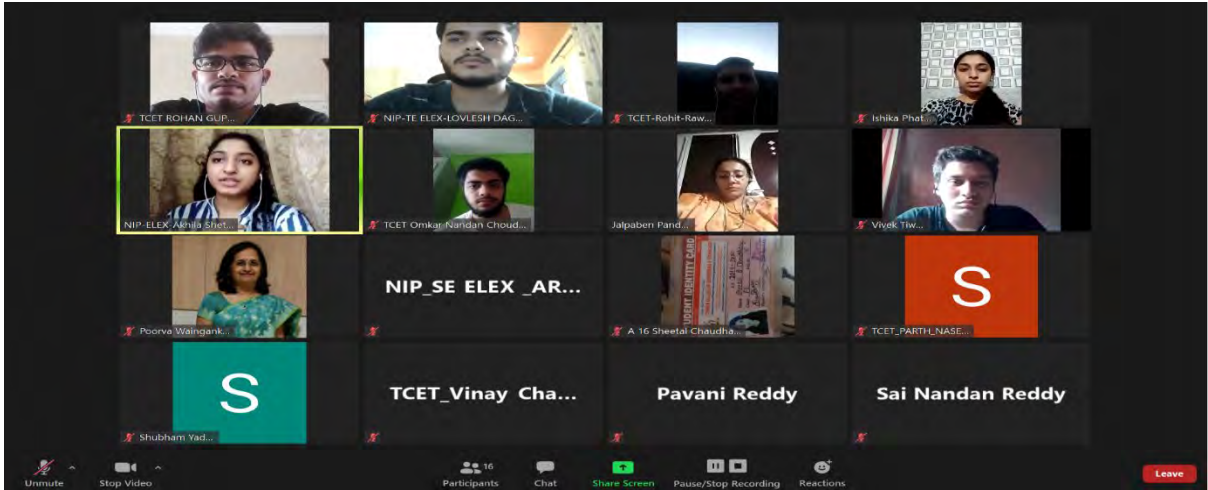
Track	Registered	Day 1 Morning	Day 1 Evening	Day 2 Morning	Day 2 Evening	Day 3 Morning	Day 3 Evening
UXD	49	33	23	30	24	24	20
AWS	108	88	87	93	75	80	68
MidasGEN	107	103	30	69	11	35	15
Solidworks	78	34	26	27	15	24	17
VLSI	35	19	16	14	12	22	9
IOT	134	123	107	91	63	72	72
LD	48	21	14	18	14	20	18
<b>Total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

**Number of participants in Collaborative Project Development and Paper Writing on Branch Specific Recent Trends**

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

**Glimpses of the Program**







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

Recording...

Hi !! Lets learn cloud computing !!

## 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

Participants (93)

Find a participant

- 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

Unmute | Stop Video | Security | Participants | Polls | Chat | Share Screen | Reactions | More | End

Zoom Meeting | You are viewing Host BE E&TC A&B's screen | View Options

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
- TV TECET\_09\_MECH\_TE\_B\_Vinay Ver...
- VJ vaishnavi joshi KBTCOE\_TE
- K VMEG\_Kartikeya\_P
- V VMEG\_Akhila\_Kodam
- V VMEG\_Harshitha\_Patil
- VMEG\_kanchan\_bhavani
- VA VMEG\_Karthik A
- VMEG\_Mattam\_Nithin
- V VMEG\_Pavani\_Enjamoori
- V VMEG\_PRANEETH\_SUNKAVALLI
- VK vmeg\_sindhu kasturi
- S VMEG\_Sowmyasree\_Hanumandla
- V VMEG\_Srinivas\_Kommana

Unmute | Start Video | Security | Participants | Chat | Share Screen | Record | Reactions | Leave

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

The screenshot shows a Zoom meeting in progress. The main window displays a grid of 16 participants, each with a video thumbnail and name. The names include Rajeshwar Deshmukh, NIP MECH Dhruv Tiwari, NIHARIKA RANE, TCET SALMA, KLS Mayuri P N..., NIP MECH ABHASH..., Vaibhav Madane, NIP MECH ATHARVA..., KLS VAIBHAV..., KLS MUDASSIR..., Ndmvp\_Jaydatt..., KLS Shane Fern..., NDMVP Deepak Yadav, Krishna Galkwad, TCET\_Chaitanya\_Mish..., KLS\_DARSHAN\_MAR..., TCET\_Shreya\_Gupta, TCET\_Vimlesh\_Kaul, TCET\_SHUBHAM\_OJ..., TCET\_HIMANSH..., TCET\_Jacky\_Chaurasia, TCET\_Vansh\_Gupta, TCet Anand pash, and TCET-Dharmendra-ya... The bottom toolbar shows options for Mute, Stop Video, Security, Participants (33), Chat, Share Screen, Power/Stop Recording, and Reactions. On the right, a 'Participants (33)' sidebar is visible, listing participants and providing a 'Zoom Group Chat' with instructions for NDMVP and GEC students, including a WhatsApp link and a feedback link.

The screenshot shows a presentation slide titled "Testimonials" with a video thumbnail of a woman in the top right corner. The slide contains several testimonials:

- Great speaker actually time allotted was short & simple. Because we can do an ML/Big data / Data science/ openCV projects live demonstrating an AWS instances would be great. As a hobby, Deep & has been can perform shows in different platforms & educate more people like me. Big Thanks 🙌❤️** - Sneha R. Sinha
- The entire session is really helpful** - Aakarisha Maurya
- Its Fantastic, Need More Like this. You all are doing amazing jobs to educate about AWS.** - Parth Patel
- Good Work, being more session like this in coming semesters too. Very thing was good** - Suchasata Mehta
- The speaker is doing a great job. He is seamlessly explaining Cloud Computing at a very fundamental level. The TCET organizers of the Zoom session have organized the webinar in a perfect manner. We had more hands-on experience along with balanced pace of learning.** - Karan Jain
- You all are fantastic.** - Parth Patel
- Loved this webinar. I gained real basic without more experience.** - Mohan Maurya
- The speakers are very polite and very kind as they are clearing all the doubts without hesitation which is really great.** - Anshu Sachchandan
- Great job guys. Thank you for providing us such great practical knowledge even though the meeting is online.** - Bhanu Ghatal
- The speakers absolutely great. The effort put to educate about AWS is really appreciated. Very nicely explained all the concepts, with real life examples. Just Perfect.** - Mansi & Sai Phirantar

The slide also features a video thumbnail of a woman named Aayushi Sarda. At the bottom, the text "GMT20200926-113952\_TCET-NIP-V\_1600x720" is displayed. The Windows taskbar at the bottom shows the time as 0:40:44 and the system tray with icons for volume, network, and power.