



Laxmi Singh Charitable Trust's (Regd.)

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous College Affiliated to University of Mumbai, Approved by AICTE & Govt. of Maharashtra)

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

Programmes Accredited by National Board of Accreditation (NBA, New Delhi)*

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

Among Top 200 Colleges in the Country where Ranked 193rd in NIRF India Ranking 2019 in Engineering College category

*Permanent Affiliated UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (w.e.f. A.Y. 2015-16)

• Electronics Engineering (w.e.f. A.Y. 2017-18)

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1st cycle of NAAC Accreditation : • "A" Grade for 5 years (w.e.f. 30-10-2017)

A - Block, Thakur Educational Campus,
Shyamnarayan Thakur Marg, Thakur Village,
Kandivali (East), Mumbai - 400 101.

Tel.: 6730 8000 / 8106 / 8107

Fax : 2846 1890

Email : tcet@thakureducation.org

Website : www.tcetmumbai.in • www.thakureducation.org



REPORT

Date: 16/03/2020

International Conference on Trends in Electronics & Communication - 2020

- **Conference Dates:** 28th & 29th February, 2020
- **Conference Venue:** Thakur College of Engineering & Technology, Kandivali (E), Mumbai-400101, Maharashtra, India
- **About the Conference:**

International Conference on Trends in Electronics & Communication (IC-TELCON-2020) aims to bring together researchers, engineers, and scholar students to exchange and share their experiences, new ideas, and research results about all aspects in the field of Electronics Engineering and communication. IC-TELCON-2020 looks to provide a platform to researchers and practitioners from both academia as well as industry to meet and share cutting-edge development in the field and it aims to provide an opportune forum and vibrant platform for Researchers.

The tracks of the conference included:

1. *Communication, Antenna & Microwave Engineering (CAME)*
2. *Signal Processing & Applications (SPA)*
3. *Electronic Components, Devices and VLSI (ED&V)*
4. *Robotics Automation & Embedded Systems (RA & ES)*

I. Keynote Addresses:

IC-TELCON 2020 encompassed one keynote address on Day 1 (28th February, 2020)

Day 1, Keynote Address:

Topic: Telecom -Technology Trends and Challenges

Speaker: Mr. Ramani Iyer, EX CEO MTNL Mumbai

No. of Participants: 42

Overview: The key highlights of the talk was use of artificial intelligence and neural networks for diagnosis of human critical diseases. These methods will aid doctors in early diagnostics of any medical emergency. He also discussed use of mathematics in modeling of methods for brain image analysis showing various images of similar appearance but having different diseases. He discussed about how to derive the equations used for medical applications and innovative research. As he is a member of editorial board of various reputed journals working as a reviewer, he also provided inputs for paper writing from editor's point of view for selection in reputed international journal. He also channelized researchers to prioritize their work for doing research.



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II. Resource Person Feedback:

1. **Mr. Ramani Iyer:** Commendable efforts in organizing MULTICON 2020. An excellent opportunity for the students to broaden their horizon.
2. **Mr. Prasad Rangnekar:** Excellent student interaction, Kuddos to staff and student of TCET.
3. **Dr. Nita Thakare:** Excellent event.
4. **Mr. Pradeep Sharma:** Very nice efforts
5. **Ms. Jayasudha Koti:** Good exposure to students.

III. Conference Participation Details:

Paper Details	TCET	External	Total
Total Papers Received:	160	20	180
Total Papers Registered:	154	20	174
Total Papers Scheduled:	160	20	180
Total Papers Presented out of Scheduled:	111	12	123
% Presentation out of registered:	72.08%	60%	70.69%

IV. Conference Evaluation Details:

After a thorough evaluation of papers presented, the session chairs identified the following papers as the most contributive papers:

• Details of Most Contributive Papers Identified by Session Chairs:

Sr. No.	Paper ID	Paper Title	Author Names	Affiliation	Strength	Session Chairs
1	3	Some Studies on Haze Mitigation and Visibility Restoration in Foggy Conditions for Vehicles	Prashila Borkar Deepali Raikar	Goa College of Engineering	Impressive work	Mr. Dnyaneshwar Kamble Dr. Mrs. Neeta Thakare Dr. Sangeeta Mishra
2	57	Determining Blood Type using Image Processing Techniques	Tejal Deshpande Stella J	Xavier Institute of Engineering	Good results	Mr. Dnyaneshwar Kamble Dr. Mrs. Neeta Thakare Dr. Sangeeta Mishra
3	87	Channel Models for Optical Wireless	Depika Prabhu Ameeta Sinai	Goa College of	Impressive work	Mr. Pradeep Sharma



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		Communication Systems: A Survey	Amonkar	Engineering		Dr. Vinitkumar Dongre
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• Details of Most Contributive Internal Papers (Final-year students) identified by Session Chairs:

Sr. No.	Paper ID	Paper Title	Author Names	Strength	Session Chairs
1	15	Online Signature Verification using HWT with Neural Network Classifier	Shobhit Mishra Anushka Rane and Rahul Wadhwa	Looks to be a nice concept, team also has good clarity about the work being done.	Mr. Dnyaneshwar Kamble Dr. Mrs. Neeta Thakare Dr. Sangeeta Mishra
2	32	Design of IOT Based Generator Management System	Deepak Verma Sumit Pai and Krishna Vishwakarma	Overall good work and team looks confident of their skills.	Mr. Dnyaneshwar Kamble Dr. Gayatri Phade Dr. Sangeeta Mishra
3	90	Enhanced Surface Passivation with P3HT and Additional Interfacial layer for MIS Solar Cells	Sukruti Kaulgud Rajani Sharma, Lochan Jolly and B. K. Mishra	Good concept. It will be good if implemented practically.	Mr. Pradeep Sharma Dr. Sandhya Save
4	103	Implementation of Autonomous Drones using Robotic Claw for Search and Rescue Operations	Anjali Mishra Yash Deora and Sonia Behra	Good idea	Dr. Gayatri Phade Dr. Payel Saha
5	96	SDWAN- Evolution of the Networks	Megha Gupta Bhargav Upadhyay Pushkar Bagayatkar	Good idea, could answer all questions, showing the team has good knowledge	Mr. Dnyaneshwar Kamble Dr. Gayatri Phade Dr. Sangeeta Mishra
6	19	Design of Assistive Glove for Visually Impaired People Using DSP Algorithm	Pranav Singh Prasann Patil and Chandan Singh	Good idea	Ms. Jayasudha Koti Mr. Sanjeev Ghosh
7	20 and 26	Design & Implementation of FAIR System Using IoT for Public Transport System Development of electronic passport verification using near field communication (NFC) method.	Rajan Singh Nitin Kapri and Shashikant Maurya Vishal Nerkar Nidhi Agarwal and Ashwini Borhade	Good presentation and work done is impressive	Mr. Dnyaneshwar Kamble Dr. Gayatri Phade Dr. Sangeeta Mishra
8	53	Implementation of Healthcare Model for Industrial Gearbox	Raman Mishra Rahul Patil and Smit Malik	Good idea	Mr. Dnyaneshwar Kamble Dr. Payel Saha



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9	52	Implementation of Structural Health Monitoring System Using Fiber Bragg Grating	Sanjeeva Bhandari Zohrabano Khan and Vikram Gaud	Good team work and presentation	Mr. Dnyaneshwar Kamble Dr. Mrs. Neeta Thakare Dr. Sangeeta Mishra Dr. Payel Saha
	188	Gaming Addiction: The Emergence of a New Clinical Disorder	Kapil Bidikar Rishabh Kanojiya, Akshar Pandey and Aradhana Manekar	Good presentation and work done is impressive	
10	174	Improvising the SVC 2004 Database for Online Signature Verification System	Prachi Prashant Phatale Sneha Rajesh Raj and Aasawari Ashok Shete	Good idea	Dr. Mrs. Neeta Thakare Mr. Sanjeev Ghosh

• **Scope of Improvement in Paper Preparations and Presentations:**

The goal of the conference is to create a world-class forum for discussing cutting edge research, and directions for new innovations and technology. To accomplish the goal in paper presentations by internal students, following improvements are suggested:

1. More experimental results should be added to the paper rather than just a survey or a review.
2. Several papers encompass only the proposed methodology – its implementation is not included in the paper. A high-quality paper demands showing results and its discussion.
3. More articles should be referred while preparing the paper and hence more references should be cited and listed.

V. Feedback Survey:

• **Findings from the survey:**

The survey conducted on Day 1 and Day 2 shows that proper conduct of the conference. Some of the major appreciations include:

- 1) Well management and organization of the conference.
- 2) The contributions of session chairs are extremely valuable.
- 3) Excellent knowledge sharing platform.
- 4) Keynote address was very good, but it was domain specific. Different domain keynotes should be arranged and audience should be segregated as per their domain choice.
- 5) Motivational speech during inauguration.

• **Recommendations:**

- 1) Concepts are very good, but hardware efforts are not made.



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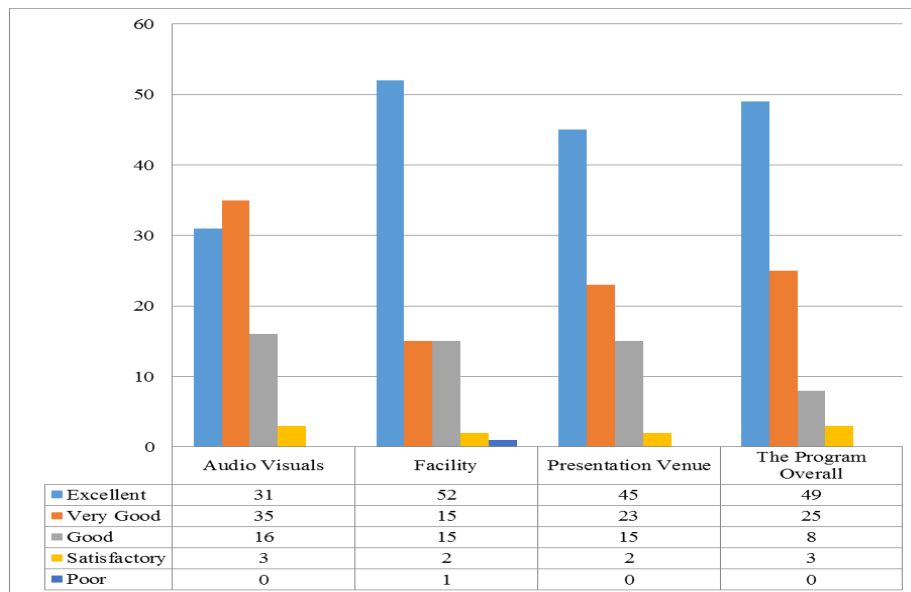
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- 2) Some papers had very basic presentation topics. Application and implementation based explanation is needed.
- 3) Certificates should be provided to all members of group who pay full registration fees (with no additional cost).
- 4) Conference fees should be decreased.

• Feedback

Rated very high with the following notes from the delegates:

1. Excellent Coverage, Good Technical Presentation
2. Great hospitality and excellent transportation arrangement
3. State-of-art infrastructure, proper venue management and guidance
4. Cooperative staff members, Conducive environment
5. Good Affiliation for the Proceedings publication



Session Chairs for Presentation:

Externals:

1. Dr. P. Chakrabarti, Director, Indian institute of Engineering Science & Technology, Shibpur
2. Dr. Mrs Thakare, HOD, Computer Technology, Priyadarshini College of Engineering, Nagpur
3. Dr. Gayatri Phade, HOD, E&TC, Sandip Foundation, SandipInstitute of Engineering & Management
4. Dr. D.G. Wakde, Director, P.R. Pote college of Enginnering and Research, Amravati



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5. Dr. Mrs. S.D. Wakde, Principal, P.R. Pote college of Engineering and Research, Amravati
6. Mr. Sandip Dalvi Manager, Adani Electricity (2/3 Sessions on 29/02/2020),
7. Mr. S.V. Rasal, Managing Director, IDEMI, Mumbai
8. Mr. Dnyaneshwar Kamble, Co-founder R2IW, Mumbai
9. Mr. Shekhar Bandhavkar, Director, Track RF Link Pvt. Ltd. Mumbai

Internals:

1. Dr. Sandhya Save (Convener, HOD, ELEX)
2. Dr. Vinitkumar J. Dongre (Convener, HOD, E&TC)
3. Dr. S. C. Patil (Co. Convener, Dy. HOD, ELEX)
4. Mr. Sanjeev Ghosh (Co. Convener, Dy HOD, E&TC)
5. Dr. Payel Saha (Professor, E&TC)
6. Mr. Hemant Kasturiwale (Associate Professor ELEX)
7. Dr. Sangeeta Mishra (Associate Professor, E&TC)
8. Ms. Poorva Waingankar (Associate Professor, ELEX)

Key arrangements

1. Venue arrangement :

- i. Paper presentation: B 110 and B 111 (1st Floor)
- ii. SE Poster Presentations: B 115 (1st Floor)
- iii. Inaugural function: Auditorium (2nd Floor)
- iv. Keynote and Valedictory function: Library Reading Room, (4th Floor)
- v. Food arrangement: TSAP, Multipurpose Hall

2. Registration kit – Registration desk

Kit Distributed

Full Kit (Big) :18

Events Attendance

Participation		Participants / Delegates		
Sr. No.	Event	Day 1	Day 2	Day 1 + Day 2
1	Key Note address	42	-	42
2	Inaugural & Valedictory Function	42	30	72

Conference Statistics:

Papers Received	180
Total Paper Registered	174
Total Paper Presented	123
Total Authors	480
Camera Ready Copy	102



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Two Days Presentation Details:

1. Total Papers Received: 180 (480 Authors)
2. Total Papers Scheduled: 180/180 (100%)
3. Total Papers Registered: 174/180 (96.67%)

Day 1: 28th February 2020

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	CAME (Venue 110)	21/30	40	70.00%
2.	RA&ES (Venue 112)	17/24	49	70.83%
3.	SE In-House Poster Presentation (115)	12/20	24	60%

Day 2: 29th February 2020

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	CAME (Venue 110)	33/41	21	80.48%
2.	RA&ES (Venue 112)	28/43	48	65.11%
3.	SE In-House Poster Presentation (115)	12/22	38	54.54%

Day 1 + Day 2 (Consolidated)

Sr. No	Conference Particulars	No. of Papers Presented	No. of Students Attended	Consolidated Percentage
1.	SPA, CAME (Venue 110)	54/71	61	76.06%
2.	ED&V, RA&ES (Venue 112)	45/67	97	67.16%
3.	SE In-House Poster Presentation (115)	24/42	62	57.14%

VI. SWOC Analysis:

1.	Strength	<ol style="list-style-type: none"> 1. Conference organized jointly by Electronics and Electronics Telecommunication department with Paper presentations along with three workshops for SE and TE students. 2. Association with reputed journals like: <ol style="list-style-type: none"> i. International Journal of Engineering and Advanced Technology (IJEAT) (Scopus) ii. International Journal of Innovative Technology and Exploring Engineering (IJITEE) (Scopus) iii. International Journal of Recent Technology and Engineering (IJRTE) (Scopus) iv. International Journal on Emerging Technologies (IJET) (Scopus) v. International Journal of Information Technology (BJIT) (Springer)
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		<p>vi. International Journal of Electronics, Communications, and Measurement Engineering (IJECME) (IGI Global)</p> <ol style="list-style-type: none"> 3. Apple Academics, McGraw Hill Association 4. Single Platform offering wide variety of Event available for participant to choose from. 5. Personalization of quality service, learning atmosphere and food to provide the ultimate satisfaction. 6. Location is very much flexible. 7. Creative team with impressive list of technical experience of team. 8. Strong and varied advisory board. 9. Highly Qualified Staff Members for managing the conference. 10. Significant experience working together 11. Cross disciplinary approach. 12. Good contacts in teaching and industry, hence we have a very good pool of experts. 13. Excellent Infrastructure 14. In house publication 15. Large number of publicity database.
<p>2.</p>	<p>Weakness</p>	<ol style="list-style-type: none"> 1. Quality of technical papers at initial stage 2. CRC was not received in time. 3. Response from outside India is less 4. High startup and event management cost increases publication fees 5. 88.88% internal and 12.22% external papers out of total papers 6. Less no. of Ph.D. and M. E. papers 7. Parallel activities of internal students
<p>3.</p>	<p>Opportunities</p>	<ol style="list-style-type: none"> 1. Publicity can be started 6-8 months in advance to get good papers so that authors get good time to do research 2. Listing this event would boost our branding with various institutes all over the world 3. Ability for attracting more external from various states of India and world 4. This event would offer the platform for academic, research and practitioner community to promote and share the research ideas to drive "Make in India" 5. Add more people from outside India in the conference committee
<p>4.</p>	<p>Challenges</p>	<ol style="list-style-type: none"> 1. Growing number of conferences by nearby institutes 2. Less participation from external delegates and industry experts



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		<p>3. Less sponsorship offered by external institutions</p> <p>4. International bodies are reluctant for the affiliation, mainly due to quality of papers</p> <p>5. Detecting and correcting plagiarized papers</p> <p>6. Involvement of alumni's and stake holders</p>
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Prepared By:

Ms. Rutvi Thakar (E&TC)

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(Coordinator – IC TELCON 20)

Checked By:

Dr. S. C. Patil (ELEX)

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Proposed By:

Dr. Sandhya Save (ELEX)

Dr. Vinitkumar Dongre (E&TC)
(Convenor – IC TELCON 20)

Reviewed and Recommended By:

Dr. Lochan Jolly
(Dean SSW and Technical Chair – IC TELCON 20)

Dr. Deven Shah
(Vice-Principal and Program Co-Chair - IC TELCON 20)

Approved By:

Dr. B.K. Mishra
(Principal & Program Chair - IC TELCON 20)