



Thadomal Shahani Engineering College
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EXTC EXPRESS



Department of Electronics and Telecommunication

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The latest in EXTC

It is often said 'Nothing is impossible'.....this quote can be, at all times, applied to the field of Electronics and Telecommunication. This is because, over the years, we have witnessed that this field has delivered things that one could have only imagined in their dreams or, things that are, at times, simply unimaginable! The journey still continues and is here to continue...thanks to the ingenious minds tirelessly striving to make the impossible possible. To abreast our readers let's look into what's in and up in this ever growing field....making a mention of a few of the many we have.....

Software Defined Radio for RFID Application: Radio Frequency Identification (RFID) is currently the hottest technology in wireless applications area as it has its unique advantages.

3D Holographic Projection Technology: Holography is a technique that allows the light scattered from an object to be recorded and later reconstructed making the image appear three dimensional.

5G Mobile Technology: 5G technologies will change the way most high-bandwidth users access their phones. With 5G pushed over a VOIP-enabled device, people will have a new experience all together.

Blu Ray Advances: The thrust for an advanced format of data storage on optical disc led to revolutionary introduction of BLU-RAY DISC. It has high storage capacity, advanced security and privacy features and the A/V high quality O/P (generally video) of the media files stored on it makes it quite unique & gives an edge over the others, letting BD to be widely adaptable in every application possible.

Li-Fi (Light Fidelity)-The future technology In Wireless communication: is bidirectional, high speed and fully networked wireless communications, like *Wi-Fi*, using light. It can be a complement to Wi-Fi or Cellular network, or a replacement in contexts of data broadcasting.

Going through the above one can say-

Innovations don't just solve problems ...

It is about providing solutions on ones finger tips to the problems no one sees!!!

Accolades to Faculty's Accomplishments

- **Orientation Program in the subject Computer Communication Networks (VI Sem EXTC) was organized and addressed by Dr. Ashwini Kunte on 8th January, 2014 which was attended by 20 faculty members from Mumbai University.**
- **Prof. Jyoti Kashyap was the resource person in the orientation program for the subject Radio frequency Modeling and Antennas(VI sem EXTC) organized by the Bharatya Vidhya Peeth College of Engineering, CBD, on 11th July, 2014.**
- **Prof. K.Y. Rajput attended a meeting of University development committee with Vice chancellor on 17th July 2014 to discuss the pending issues.**
- **Prof. Medha Somalwar, Prof. Anushree Gupta ,Prof.Uttara Bhatt & Emtron technologies jointly organized a 3 day workshop on Embedded Systems & AVR 'C' programming from 1st to 3rd August, 2014 at TSEC which was attended by 70 students.**
- **Prof. M. Mani Roja and Telelabs Wireless organized a 2 day workshop on 2G, 3G data communication on 26th and 27th September,2014 which was attended by 50 students.**
- **Prof. M. Mani Roja and Prof. Shrishti Bhatia organized a ISTE sponsored 2 week STTP program on the topic "Advances in Wireless Communication and Network" from 10th to 21st November, 2014 which was attended by 30 faculty members from various Engineering colleges from all over Maharashtra.**
- **Prof. Medha Somalwar, Prof. Jyoti Kashyap, Prof. Neeru Pathak, Prof. Uttara Bhatt, Prof. Sharmila Barve attended two week ISTE sponsored STTP on Advance in wireless communication from 10th to 21st November, 2014.**
- **Prof. Uttara Bhatt, Prof. Sharmila Bharve and Prof. Shrishti Bhatia attended two week ISTE sponsored STTP on "Big Data Analytics" from 1st Dec to 12th Dec, 2014.**
- **Prof. Uttara Bhatt completed her M.E degree with Distinction as a rank holder from Mumbai University.**
- **Many of our faculty members actively participated in the syllabus revision committee meetings and attended the orientation programs.**
- **Prf. K.K Mathew has attended a one week Faculty development Programme on Innovative Teaching methods in Project Management organized by NITIE, Powai from 11th Feb to 15th Feb. 2015.**

Publications from Faculty and Students

- Uttara Bhatt, Deepak Bhoir & K. Naraynan, “High Speed Multiplier using Vedic c Mathematics”, IJREI Volume 3, Issue 1, Jan. 2014, PP:548-552, ISSN No: 2319-1163
- Divyashree Shinde, Gaurav Dharra, Parmeet Singh Bathija, Rohan Patil and M.Mani Roja, “Sign Language Interpreter”, IJERT, Vol.3, Issue 5, May 2014, PP1093-1100, ISSN: 2278-0181.
- Himanshu Punjabi, Ruchika Nanwani, Aakash Vaswani, Ronak Jotwani and Dr. Ashwini Kunte, “Intelligent pothole detection System”, IJETA, Vol 4, Issue 7, July, 2014, PP590-595, ISSN: 2250-2459.
- Aditya Bagri, Riccha Netto and Dhruvil Jhaveri, “Supervisory Control and Data Acquisition”, IJCA, Vol.102, Issue 10, September 2014, PP: 1-5, ISSN.No. : 0975-8887.
- Savni Ankalikar, Tania Bhatia, Shreya Choudhary and M.Mani Roja, “Fuzzy Controller Based Pothole Detection System”, IJCTA, Vol. 5, Issue 5, September, 2014, PP: 1763-1767, ISSN: 2229-6093.
- Suraj Bhatia, Jatin Bajaj and M.Mani Roja, “Technology, Systems and Implementation of a smart Home Automation System: A review”, IJCTA, Vol.5, issue 5, September 2014, PP: 1690-1695, ISSN: 2229- 6093.
- Mr. Amit S. Hatekar, Ms. Poorva G. Waingankar and Dr. Sangeeta Joshi, “Efficient video compression using EZWT”, IJERA, Vol. 4, Issue 9, September 2014, pp.67-72, ISSN: 2248-9622.
- Nimisha Limaye and Siddharth Verma, “5 degrees of Freedom Robotic Arm controlled using PS/2 Mouse”, IJETR, Vol.2, Issue 11, November 2014, PP: 201-203, ISSN:2321-0869.
- Shubham Singh, Siddharth Verma and Vikrant Vaze, “Cursor Control Using Pupil Tracking”, IJETR, Vol.2, Issue 11, November 2014, PP: 204-206, ISSN:2321-0869.
- A. S. Hatekar and P.G. Waingankar, “Video Compression “A New Need – A study” published in proceedings of ICWET-2015, ISBN: 978-0-9884925-8-5
- Lekha Asnani and Prof. Shrishti Bhatia, “SMS Based Wireless Notice Board with Monitoring System”, International Journal of Modern Communication Technologies & Research (IJMCTR) ISSN: 2321-0850, Volume-2, Issue-4,42 – 44, April 2014

Special Accolades to Students' Accomplishments

- **Shrish Dhar scored a 119/120 in the TOFEL bagging the 2014 Scholarship Award of \$ 8,000 funding his Masters Degree in the US.**
- **Karan Meghnani- Management -CET scores-137/ 200- Percentile-99.58**
- **Vipul Kundnani – Management -CET scores-140/ 200- Percentile-99.75**
- **Sneha Chandwani- GATE Score -763 AIR- 792**
- **Chirag Wadhvani and Siddharth Makhija stood second in the Zonal Round of RoboTryst-2014, Organized by the Robosapiens Technologies Pvt Ltd. in association with Tryst-2014, IIT, Delhi.**
- **Tanmay Thakur and Inder Wadhwa stood first in the TPP conducted by IEEE-MHSSCOE between 17th to 19th February, 2014.**

Scholastic Accomplishments

Second Year (with GPA)

Semester III

Avinash Sharma- 9.81

Jivesh Shanbhag-9.42

Bhagyashree Soman-9.31

Semester IV

Omkar Dhomane-8.93

Prathamesh Sanjay Desai-8.75

Jivesh Shanbhag-8.5

Year Topper: 2013-14

Avinash Sharma -9.03

Omkar Dhomane-8.97

Jivesh Shanbhag-8.96

Third Year (with Total)

Semester V

Ayesha Chimnani-717

Shirish Dhar- 714

Shreya Chowdhary-710

Semester VI

Shirish Dhar- 710

Jatin Bajaj-700

Clarissa Sequeria-694

Year Topper: 2013-14

Shirish Dhar-1424

Jatin Bajaj-1409

Ayesha Chimnani-1392

Fourth Year (with Total)

Semester VII

Divyashree Shinde-625

Seema Wadhwani-587

Vihanga Bare-573

Semester VIII

Seema Wadhwani-605

Gaurav Dharra-594

Divyashree Shinde-568

Year Topper: 2013-14

Divyashree Shinde-1193

Seema Wadhwani-1192

Gaurav Dharra-1162

Divyashree Shinde has received an award from Vice Chancellor, Mumbai university for securing third rank in Mumbai University BE (EXTC) exam.



Editorial Team-

Pranav Batra

Laura Pereira

Ronak Laungani

Prof. M.Mani Roja

Dr.Ashwini Kunte(H.O.D. EXTC)