GUJARAT TECHNOLOGICAL UNIVERSITY

(Established under Gujarat Act No. 20 of 2007)
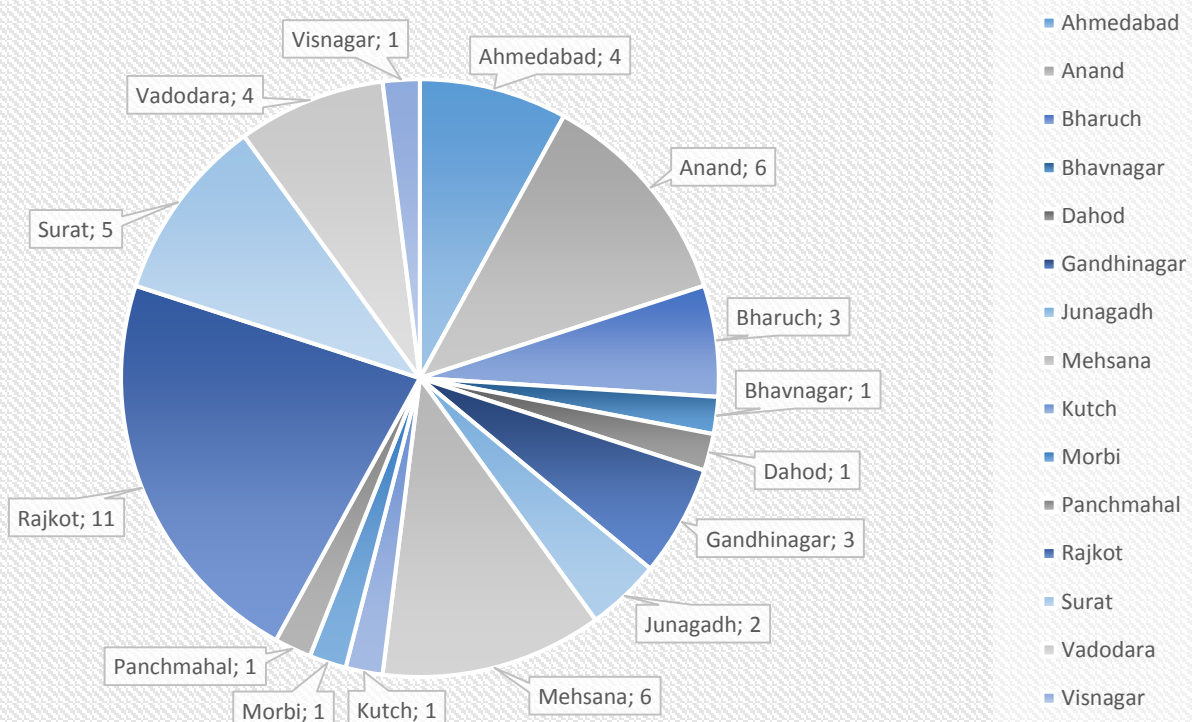
NETWORKS of RESEARCHERS at GTU

REPORT OF MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP MEETING

OBJECTIVE OF THE GOOGLE HANGOUT MEETING

Gujarat Technological University (GTU) has around 17,000 faculties working across Gujarat at its affiliated institutes. Bringing these faculties on one platform for a brainstorming or a meeting is a great challenge. GTU research groups has started organizing regular meetings using Google Hangout tools to develop effective communication and supporting Research through Networks.
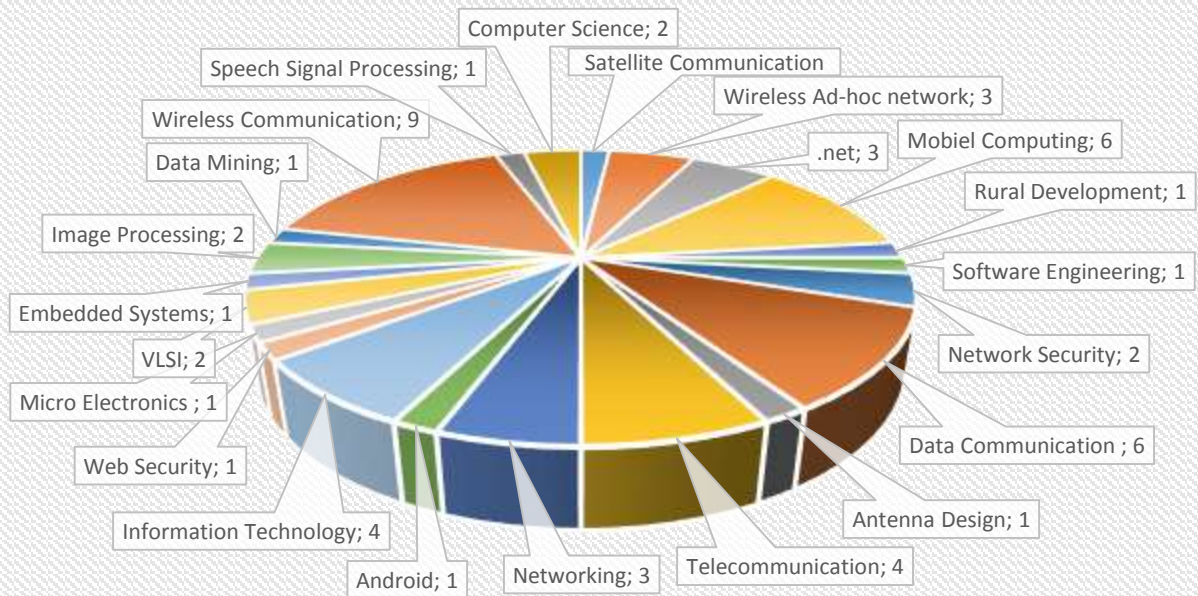
GTU has established **GTU-MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP** for faculties interested in advance Mobile Computing & Wireless Technology and are bringing them together on one platform to explore common areas of interest. (www.gtu.ac.in/circulars/15feb/02022015_08.pdf)

Forming NETWORKS of RESEARCHERS in GTU's geographically distributed academic institution system. Faculties from below cities are interacting through Hangout Meeting.

Pie chart legend and values:
- Ahmedabad; 4
- Anand; 6
- Bharuch; 3
- Bhavnagar; 1
- Dahod; 1
- Gandhinagar; 3
- Junagadh; 2
- Mehsana; 6
- Kutch; 1
- Morbi; 1
- Panchmahal; 1
- Rajkot; 11
- Surat; 5
- Vadodara; 4
- Visnagar; 1

Research Group Members Area of Expertise

Legend:
- Satellite Communication
- Wireless Ad-hoc network
- .net
- Mobiel Computing
- Rural Development
- Software Engineering
- Network Security
- Data Communication
- Antenna Design
- Telecommunication
- Networking
- Android
- Information Technology
- Web Security
- Micro Electronics
- VLSI
- Embedded Systems
- Image Processing
- Data Mining
- Wireless Communication
- Speech Signal Processing
- Computer Science

Chart data labels:
- Computer Science; 2
- Satellite Communication
- Speech Signal Processing; 1
- Wireless Ad-hoc network; 3
- Wireless Communication; 9
- .net; 3
- Mobiel Computing; 6
- Data Mining; 1
- Rural Development; 1
- Image Processing; 2
- Software Engineering; 1
- Embedded Systems; 1
- Network Security; 2
- VLSI; 2
- Data Communication ; 6
- Micro Electronics ; 1
- Antenna Design; 1
- Web Security; 1
- Information Technology; 4
- Android; 1
- Networking; 3
- Telecommunication; 4

GTU-MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP
Google Hangout meeting were organized for faculties who have an interest in various areas like; Satellite Communication, Wireless Ad-hoc network, Mobile Computing, Antenna Design, Telecommunication, Networking and Wireless Communication etc. as a part of this initiative. Mr. Naresh Jadeja Deputy Director-GTU shared the vision of Honorable Vice Chancellor Dr. Akshai Aggarwal for forming GTU-MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP. These meeting were coordinated by Mr.Margam Suthar, Mr.Vagmin Joshi, Mr.Jaimin Dave, Mr.Ravish Hirpara.

Meeting started with the Introduction of group members which are from Mobile Computing and Wireless Technology background and their current activities in related research field. They discuss technical innovation & activities they did. They shared their ideas about what further activity they want to do in Mobile Computing and Wireless Technology Research Group. These meeting were followed by faculties providing feedback form.

Mr. Margam Suthar shared vision of honorable Vice Chancellor for forming MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP and asked Faculty Members to start interacting with one other to take lead in the Mobile Computing & Wireless Technology Research. He explained the concept of Hub and Spoke model being followed at GTU and how GTU plans to encourage Research through Networks.

Agenda for the Meeting:

1. Challenges in Current Research Trends.

    *   Current trends in Wireless Communication (4G)
    *   Emerging trends in Wireless Communication (5G & beyond)
    *   Robotics
    *   Automobile future
    *   Computer & Networking
    *   Information & Communication Technology
    *   Health Care through Tele health care systems
    *   Green Communication
    *   Smart Phones
    *   Cooperative communication and Cognitive radio
2. Requirement of hardware & software to establish research lab for Mobile Computing and Wireless technologies.
3. How to Write Research Proposal.
4. How to submit Research Proposal to funding agencies.
5. Types of Research Proposals.
6. Structure/Format of the Proposal

GTU-MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP

GOOGLE HANGOUT MEETING

GTU Research group has 51 experts working in Research area of Mobile Computing and Wireless Technology from all across Gujarat.

(Date: 27th February, 2015. 3 PM to 4 PM)

Following suggestions were received from these experts during and After Google Hangout meeting.

*   **Prof. Darshan Tank from L.E.College,Morbi**

    "Would like to be a part of team to make a good research platform for GTU students."
    o   He shared his experience in the field of Wireless Communication.

- **Dr. Varang N. Acharya from Parul Institute Of Engineering & Technology – MCA, Vadodara**

  "Increase interaction in the area of Mobile Computing - Current Trends & Activities, Research. Developed few prototype android apps. As part of PhD Thesis for Rural Development.

  Motivate students to develop need base mobile applications at grassroots level for betterment of people/society/organizations"

- **Prof. Gautam D. Makwana from Sankalchand Patel College of Engineering, Visnagar**

  "As RF-Microwave and Antenna field are high demanding. There is lack of resources in terms of software tools and fabrication facilities. If it is possible to procure electromagnetic simulation tools such as HFSS, ADS, and CST then many M.E. Students and PhD scholars can get benefit for their simulation.

  Also for validation, experimental measurements are required. For this, it is required following major equipment's such as Network Analyzer, An-echoic chambers, stepper motor system. For fabrication of RF and Microwave components, it is required low loss dielectric material from Arlon and Roger suppliers.

  If GTU setup these kind of facilities at university level, then many researchers will get exposure in high demanding area."
  - He shared his experience in the field of RF-Microwave and Antenna

- **Prof. Kathiriya Bhavesh B. From A.V. Parekh Technical Institute, Rajkot**

  "Performance Analysis of OFDMA (Orthogonal Frequency Division Multiple Access) In Matlab".

- **Prof. Mary Grace Shajan from Parul Institute of Engineering and Technology, Vadodara**

  "Meeting with expert in the field of MCWT for discussing the emerging trends in the fields of Wireless Communication and Networks.

  - He shared his experience in the field of Ad-hoc Network & Wireless Communication"

- **Prof. Akshay Kansara from S.P.B Patel Engineering College, Mehsana**

  "Taught Mobile Computing Subject in UG and one week STTP or workshop on Wireless Technology & Mobile Programming".

Our other MOBILE COMPUTING & WIRELESS TECHNOLOGY RESEARCH GROUP members are

- Prof. AshishSingh T.Bhatia from Chaudhari Technical Institute.
- Prof. Virendra Abhesing Patel from Bhagwan Mahavir College of Engineering and Technology, Surat
- Prof. Ashish Arvindbhai Gajjar from Ahmedabad Institute of Technology
- Prof. Zarana C. Padia from Shree Laxminarayan Dev College of Computer Applications.
- Prof. Vinay   Pragjibhai Viradia from Chandubhai S.Patel Institute of Technology,Changa
- Prof. Varang N. Acharya   from Parul Institute of Engineering & Technology.
- Prof. Sunil R. Solanki from Govt. Polytechnic, Dahod
- Prof. Bhaveshkumar   Babubhai   Kathiriya from A. V. Parekh Technical Institute, Rajkot.
- Prof. Ratansing Nanjibhai Patel from S.P.B.Patel Engineering College, Mehsana
- Prof. Naren   V. Tada from V.V.P. Engineering College, Rajkot.
- Prof. Harniya Manish Keshavjibhai from Darshan Institute of Engineering and Technology, Rajkot.
- Prof. Jasmin Vasantbhai Amrutia from Smt.R.O.Patel women's MCA College, Morbi.
- Prof. Vijay Muralidhar Patil from A.Y.Dadabhai Technical Istitute, Kosamba.
- Prof. Dharmeshkumar Girishbhai Patel from MBICT, Anand.
- Prof. Ishit A. Shah from Leads Institute of Engineering and Technology, Bharuch.
- Prof. Smit M. Thacker from HJD Institute of Technical Education and Research, Kutch.
- Prof. Gautam Durlabhji Makwana from Sankalchand Patel College of Engineering, Visnagar.
- Prof. Nirali Chirag Shah from SAL-Institute of Tech. and Engg. Research, Ahmedabad.
- Prof. Dhruvi Navinbhai Marsonia from Shantilal Shah Engg. Collage, Bhavnagar.
- Prof. Dhavalkumar B. Patel from Vidhyadeep Institute of Management and Technology, Anita, Olpad
- Prof. MehulKumar Chandulal Modhiya from Om Institute of Technology, Vantavachhoda, Panchmahal
- Prof. Mehulkumar   Surendrabhai Patel from B.R.Patel Institute of Computer Applications, Anand.
- Prof. Satyadev J Vyas from Ahmedabad Institute of Technology, Ahmedabad.
- Prof. Darshan Mansukhbhai Tank from L E College, Morbi
- Prof. Lokesh Pitambar Gagnani from Kalol Institute of Technology & Researach Centre (KITRC), Kalol
- Prof. Bhavin S. Sedani from V.V.P Engineering College, Rajkot
- Prof. Paresh M. Dholakia from V.V.P Engineering College, Rajkot
- Prof. Vishal D. Nimavat from V.V.P Engineering College, Rajkot
- Prof. Nency Vinay Patel from B.R.Patel Institute of Computer Applications, Anand
- Prof. Ankita Krishnakant Panchal from Leads Institute of Technology & Engineering, Bharuch.

- Prof. Chandrasinh Dhirubha Parmar from B.H.Gardi College of Engineering & Technology, Rajkot.
- Prof. Krunal Ramabhai Patel from S.P.B.Patel Engineering College, Mehsana.
- Prof. Khyati Rishit Zalawadia from BITs edu campus,Varnama,Vadodara.
- Prof. Hardik Hariprasad Bhatt from Gandhinagar Institute of Technology.
- Prof.Twinkle Bipinchandra Ankleshwaria from Bhagwan Mahaveer College of Engineering and Technology (BMCET), Surat.
- Prof. Akshay Rameshchandra Kansara from S.P.B Patel Engineering College, Mahesana.
- Prof. Ninad Sunilkumar Bhatt from C. K. Pithawalla College of Engg. & Tech., Surat.
- Prof. Parthesh R Mankodi from G. H. Patel College of Engineering and Technology, Vallabh Vidyanagar.
- Prof. Jignesh H. Vania from L.J. Institute Of Engineering And Technology,Ahmedabad
- Prof. Yogesh Naranbhai Kakadiya from S.P.B Patel Engineering College, Mehsana.
- Prof. Mayur Mansukhlal Vegad from BVM Engineering College, Vallabh Vidya Nagar, Anand.
- Prof. Chirag Vallabhabhi Rachchh from Narandas Jethalal Sonecha Management & Technical Institute, Junagadh
- Prof. Anand Bhagavanjibhai Kanabar from Narandas Jethalal Sonecha Management & Technical Institute, Junagadh
- Prof. Jasmin Kamleshbhai Jasani from Shri Sunshine Group of Institutions, Rajkot.
- Prof. Bhagirathsinh Pratapsinh Rajput from Sunshine Group of Institutions, Rajkot.
- Prof. Rashmi Amar Gandhi from Sunshine College, Rajkot
- Prof. Vinita Narayan Nair from Shri Jairambhai Patel Institute of Business Management and Computer Applications (NICM), Gandhinagar.
- Prof. Mary Grace Shajan from Parul Institute of Engineering and Technology, Vadodara
- Prof. Chaita Kiritkumar Jani from Kalol Institute of Technology.
- Prof. Anuradha Prakash Gharge from Parul Institute Of Engineering & Technology,Limda, Vadodara.

THE RESEARCHERS AND FACULTY MEMBERS WHO WANT TO JOIN THIS GTU'S MCWT RESEARCH GROUP MAY REGISTER AT THE FOLLOWING LINK.

https://docs.google.com/a/gtu.edu.in/forms/d/1D87cpj_ZVRE6CI2CNnOErKp7Ww7_0HTR4KWUU4vgqFQ/viewform

If you have any suggestion or innovative ideas in the field of Mobile Computing & Wireless Technology and want to carryout research activity related to it, please send your proposal through mail e-mail at *ap1_mcwt@gtu.ac.in* or contact us on *07923267587 / 8000685058.*