GUJARAT TECHNOLOGICAL UNIVERSITY

Post-graduate Research Center for Cyber Security

NETWORKs of RESEARCHERs at GTU

Report of Cyber Security Research Group Meeting

17th April-2015

Gujarat Technological University is developing e-Raksha Research Centre associated with Post-graduate Research Centre in Cyber Security. To establish this Research Centre GTU has invited advisors from concerned industries and cyber security agencies working in this area. The first meeting of the Advisory Board for development of the **e-Raksha Research Centre** was held on 27th January-2014.

Gujarat Technological University has established the Cyber security Research Group for creating a network of researchers and Faculty Members, working in the area of Cyber Security in all the Colleges, so that they can jointly inter-act with the rest of the world, grow themselves and develop the profile of their respective Departments and Colleges.

During GTU Post-graduate Research Week 2015, more than 100 workshops were organized at GTU. These are being recorded / broadcast live to achieve greater reach. GTU PG Center for Cyber Security wants to create awareness about the recent research & development work in areas like vulnerability, security policy, localization, critical information infrastructure etc.

Continuing with the efforts to involve the GTU community, GTU invited Faculty Members, researchers and students, working in the area of Cyber Security to a brain-storming meeting on 17th April-2015.

Agenda of the meeting:

- About Indigenous OS & software development
- How to develop Indigenous network security equipment?
- How to realize Hardware Security?
- Software and Hardware Certification
- Use of Vulnerability Assessment
- Application Development Using Big Data for cyber security

- Big Data Storage, Analytics & visualization in cyber security

DR. P.K. Srivastava (GTU – Advisor) shared the GTU vision about forming Cyber Security Research Group and the concept & purpose of the e-Raksha Research Centre.

The discussion was initiated on the above topics one by one.

Dr. Varang N Acharya said to arrange awareness programs on **Cyber Laws** should be conducted in every GTU affiliated colleges and Faculty Development Program in Cyber Security should be organised by GTU.

Prof. Tejendrakumar Thakur said to increase research on **zero day vulnerabilities especially in web applications and also to develop a research lab for it**.

Mr. Parth Patel is interested in **Network Security** and wants to work in **vulnerability assessment** in future.
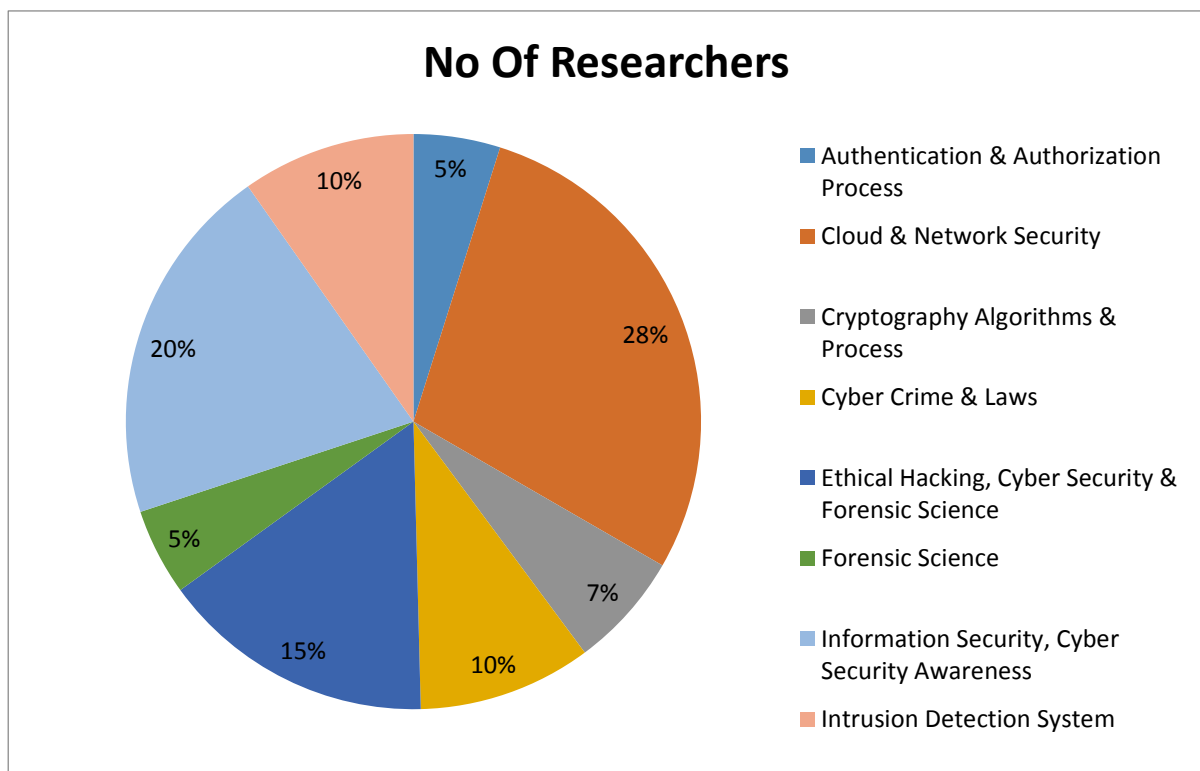
Mr. Meet Tilva said to improve knowledge of cyber security laws & cyber awareness in students by conducting various workshop/hands-on sessions.

Mr. Vivek Rajani discussed about **Net-banking and algorithms used in cyber security areas**.

Mr. Ashok Yadav wants GTU to develop **a lab for bug findings.** He is also interested in the **Metasploit Project** and **Metasploit Framework.**

Mr. Bhadreshsinh Gohil discussed about **wireless hacking and penetration testing on web applications** for cyber security.

Research Member's Areas of Interest

No Of Researchers

- Authentication & Authorization Process — 5%
- Cloud & Network Security — 28%
- Cryptography Algorithms & Process — 7%
- Cyber Crime & Laws — 10%
- Ethical Hacking, Cyber Security & Forensic Science — 15%
- Forensic Science — 5%
- Information Security, Cyber Security Awareness — 20%
- Intrusion Detection System — 10%

Cyber Security Research Group Faculty Members from GTU Colleges:

- Mr. Dharmeshkumar Girishbhai Patel From - MBICT
- Prof. Sunil R Solanki From - Govt. Polytechnic, Dahod
- Mr. Jignesh Harenkumar Vania From - LJIET
- Prof. Mihir Dinesh Mehta From - HGCE
- Mr. Dikshan Nareshbhai Shah From - S S Agrawal Institute Of Computer Science
- Ms. Riddhi K. Kantharia From - Sabar Institute Of Technology For Girls
- Mr. Mihir B. Chauhan From - Sabar Institute Of Technology For Girls
- Ms. Pinal Dineshkumar Salot From - Pacific School Of Engineering
- Prof. Dhaval R Patel From - Gujarat Power Engineering & Research Institute
- Mr. Pradeep Navinbhai Patel From - GEC, Gandhinagar
- Prof. Ashish M Maheta From - IITE
- Mr. Vinodray Dhanjibhai Thumar From - Sabar Institute Of Technology For Girls
- Prof. Chirag H Bhatt From - Universal College Of Engineering And Technology
- Prof. Maulik D Trivedi From - Darshan Institute Of Engineering & Technology
- Prof. Hardik Prahladbhai Jagad From - GEC Modasa
- Dr. Chirag Nitinchandra Paunwala From - Sarvajanik College Of Engg And Tech
- Prof. Ashish Arvindbhai Gajjar From - Ahmadabad Institute Of Technology
- Prof. Chetan Jivanlal Shingadiya From - Dr. Subhash Technical Campus
- Mr. Sanket R Trivedi From - Narmada College Of Computer Application, Bharuch
- Prof. Shyam Chandrakant Nathwani From - Darshan Institute Of Engineering & Technology
- Prof. Varsha Shirish Naregalkar From - Babariya Institute Of Technology
- Ms. Twinkle Rajendrakumar Patel From - ITM Universe Vadodara
- Ms. Vishakha Bharatkumar Sanghavi From - V.V.P. Engineering College
- Dr. Avani R. Vasant From - V.V.P. Engineering College
- Prof. Nirajkumar Pankajbhai Thakor From - Shree Swaminarayan Institute Of Technology
- Mr. Prajeshkumar Maheshbhai Mer From - Amrut Institute Junagadh
- Dr. Fareed Fatehali Khoja From - SRK Institute Of Managment And Computer Education, Sapeda.
- Prof. Mitul P Maniar From - Gandhinagar Institute Of Technology
- Prof. Ravi Nareshbhai Chauhan From - Shree Swaminarayan Institute Of Technology
- Prof. Bakul B. Panchal From - L. D. College Of Engineering
- Prof. Jinal Hiral Tailor From - S. S. Agrawal Institute Of Computer Science
- Prof. Ashishsingh T Bhatia From - Chaudhari Technical Institute
- Prof. Rushal Gautambhai Chauhan From - Universal College Of Engineering And Technology
- Dr. Mina K Talati From - Shroff S R Rotary Institute Of Chem. Tech.
- Prof. Bhadreshsinh Gambhirsinh Gohil From - GTU Pg School
- Prof. Jasmin Vasantbhai Amrutia From - Smt.R.O.Patel Women's MCS College, Morbi
- Mr. Pradeep Kumar Laxkar From - ITM Universe Vadodara
- Prof. Kaustubh Shailesh Arekar From - Laxmi Institute Of Computer Application
- Prof. Sampan N. Shah From - L. D. College Of Engineering
- Prof. Jabbar Valibhai Kureshi From - L. D. College Of Engineering
- Mr. Sudhirkumar Jagadishbhai Patel From - D. L. Patel Institute Of Mgt And Tech. MCA College
- Dr. Varang N Acharya From - Parul Institute Of Engineering & Technology - MCA
- Mr. Shyju - Raju From - L. J Polytechnic

- Prof. Ujjaval Yagneshbhai Nanavati From - Government Polytechnic, Chhotaudepur
- Mr. Vinay Pragjibhai Viradia From - Chandubhai S Patel Institute Of Technology, Changa
- Prof. Hardik H Bhatt From - Gandhinagar Institute Of Technology
- Ms. Snehal Pradeep Patel From - Babariya Institute Of Technology
- Mr. Mayur Shashikant Padia From - Darshan Institute Of Engineering & Technology, Rajkot
- Mr. Nishidh Dahyalal Patel From - Samarth College Of Engineering And Technology
- Prof. Kunjan Pravinkumar Maheta From - Gandhinagar Institute Of Technology
- Prof. Leena B Patel From - Gandhinagar Institute Of Technology
- Dr. Chanduji Popatji Thakor From - VJKM Institute Of Management And Computer Studies
- Prof. Akash H Bhatt From - Universal College Of Engineering And Technology
- Prof. Hardik Girishbhai Upadhyay From - Gujarat Power Engineering And Research Institute
- Dr. Dipesh Girinbhai Kamdar From - VVP Engineering College
- Mr. Parvez K Faruki From - Sir BPTI Bhavnagar
- Prof. Tejendrakumar L Thakur From - Universal College Of Engineering & Technology
- Mr. Makwana Chintan Himatlal From - GEC, Modasa
- Mr. Ishit Ashish Shah From - Leads Istitiute Of Technology And Engineering
- Prof. Hiren Ramanbhai Raotole From - Bhagwan Mahavir College Of Management-MCA
- Prof. dipika gopaldas narsingyani-LJIET
- Mr. Chiragkumar Baldevbhai Patel-SAL ENGINEERING AND TECHNICAL INSTITUTE
- Dr. Paresh Ravindra Modha-A. D. Patel Instiute of Technology, Karamsad
- Mr. Tejas Prataprai Patalia-VVP Engineering College
- Ms. Vinod Vijayan Pillai-Chaudhari Technical Institute
- Ms. Nirali Bhagvandas Gondalia-Atmiya Institute of Technology & Science for Diploma Studies
- Mr. DARSHAN MANSUKHBHAI TANK-L E COLLEGE, MORBI
- Ms. Hiren Kantilal Niranjani-Kalyan Polytechnic
- Prof. Akshay Rameshchandra Kansara-S P B Patel Engineering College
- Prof. KRUNAL RAMABHAI PATEL-S.P.B.PATEL ENGINEERING COLLEGE
- Dr. ANIKET RAJENDRAKUMAR PATEL-S P B PATEL ENGINEERING COLLEGE
- Mr. Nandish Kirankumar Chauhan-S P B PATEL ENGINEERING COLLEGE
- Prof. PARIMAL ASHVINBHAI PATEL-S P B PATEL ENGINEERING COLLEGE

Cyber Security Research Scholars:

- Mr. Kaushalkumar Navaneetray Rojesara From - L C Institute Of Technology
- Mr. Manojkumar Himmatbhai Radadiya From - GTU PG School - Gandhinagar
- Mr. Moin Abdulrahim Khorajiya From - GTU PG School - Gandhinagar
- Mr. Utpal Alpeshkumar Upadhyay From - GTU PG School
- Mr. Ketan Gordhanbhai Ginoya From - L.D Engineering College
- Mr. Manojkumar Pratap Shahu From - L.D.College Of Engineering, Ahmedabad
- Mr. Arpan Himmatlal Raval From - L. C. Institute Of Technology, Bhandu
- Mr. Tariqahmad Abdul Sherasiya From - GTU PG School - Gandhinagar
- Mr. Neel Kamalkumar Raval From - GTU PG School, Gandhinagar
- Mr. Vivek Devshibhai Rajani From - GTU PG School, Gandhinagar
- Mr. Neel Nitinkumar Shah From - GTU PG School
- Mr. Nirav Rajendrakumar Prajapati From - Merchant Engineering College
- Mr. Dipak Himmatbhai Patel From - Shantilal Shah Engineering College
- Mr. Kaushlendra Kamlendra Bhadauria From - Shantilal Shah Engineering College

- Mr. Baudhik Dhirubhai Dudhatra From - Dr. Subhash Pethaljibhai Chavda Ahir Kelvani Mandal's Group Of Institutions Engg, Junagadh
- Mr. Rasesh Rashmikant Jani From - Silver Oak College Of Engineering And Technology
- Mr. Sagar Kamleshbhai Jani From - L. D College Of Engineering, Ahmedabad
- Mr. Bhatt Harsh Abhilash From - GTU PG School - Gandhinagar
- Mr. Vivek Rajendrabhai Patel From - Hasmukh Goswami Collage Of Engineering
- Mr. Krunal S Patel From - Ahmedabad Institute Of Technology
- Mr. Rajat Bharatbhai Mehta From - Atmiya Institute Of Technology & Science
- Ms. Rupal Dineshbhai Raviya From - GTU PG School
- Mr. Dhaval P Satasiya From - GTU PG School
- Mr. Vivek Chimanbhai Khirasaria From - GTU PG School
- Mr. Parth Rajendrabhai Patel From - GTU PG School
- Mr. Darshak A Modi From - MEC Basna
- Mr. Suleman Salim Khoja From - Shivam Pharmaceutical Studies And Research Center
- Mr. Naman Sharad Khandelwal From - Sarvajanik College Of Engineering And Technology
- Mr. Ashok Khimabhai Yadav From - GTU PG School, Gandhinagar
- Mr. Ritesh Kumar Prajapati From - Shantilal Shah Engineering College
- Mr. Niraj Manharbhai Savaliya From - Government Engineering College Gandhinagar
- Prof..Dhaval P Satasiya-GTU PG School
- Prof..Meet Anilkumar Tilva-GTU PG School
- Mr..Hardik Parshottambhai Tarpara-Saffrony Inst. Of Technology
- Mr. Divyesh Mansukhbhai Shani From - Saffrony Institute Of Technology

Today in this cyber security research group, we have 123 members including Faculty Members & research scholars.

Researchers, who wants to join this research centre may contact:

Mr. Darshan Patel (Asst. Prof) (ap_darshan@gtu.edu.in)
Ms. Kinjal Dave (Asst. Prof) (kjdave-itsns@gtu.edu.in)
Mr. Bhadreshsinh Gohil (Asst. Prof) (bhadresh-wimc@gtu.edu.in)

Appendix:

Post-graduate Research Centres, Research Groups and Boards at GTU

The **Post-graduate Research Centres** work as catalysts for infusing the spirit of innovation and research among the GTU community, through actively involving Faculty Members of Engineering, Architecture, Planning and Management and post-graduate students in research and development. The Centres are supposed to encourage Faculty Members and research students to apply for research grants and establish research laboratories. The Centres are to establish active linkages with the industry and research institutions in India and abroad.

The Centres also aim to become institutional 'public intellectuals' or independent think-tanks to which scholars of the whole world should be invited and where they would like to come to expound their ideas to a receptive, knowledgeable but critical audience.

The Post-graduate Research Centre in Cyber Security is one of the 14 Research Centers of GTU.

The Research Groups are associated with the Research Centers. Every Group is designed to involve researchers and Faculty Members in all the Colleges in research in a hub-and-spoke model, with the Center working as the coordinating hub. GTU provides all the necessary infrastructural support in addition to organizing Seminars, Workshops and Expert Lectures, in the areas of interest to the Research Groups. The Research Groups provide an opportunity to the researchers and Faculty Members in the Colleges to grow themselves and to develop the profile of their respective Departments and Colleges by taking advantage of the facilities and activities of the Post-graduate Research Centres.

The Cyber security Research Group is one of the 16 Research Groups of GTU.

The **Boards** are for involving the Faculty Members and research students with the whole of the society.

e-Raksha Research Centre is one of the three Research Boards, established by GTU.