



Gujarat Technological University

RESEARCH WEEK 2013

Engineering • Pharmacy • Management

Gujarat Technological University conducted the Research Week 2013 for the Post Graduation and Ph.D. students of Engineering, Pharmacy & Management stream. Many evaluators from all over the country and also from foreign countries were invited to review the work of students. Many senior professors and experts from several universities of Pune, Pondicherry, Lukhnow, Indore, Amritsar and many more evaluated student's work during the research week. Experts from foreign universities like University of Virginia, University of North Carolina, IOWA State University, University of Rochester and many more participated in the evaluation during the Research Week 2013, along with many other professors from GTU Affiliated colleges.

The Research Week 2013 was scheduled in three different phases for each stream during the months of March and April 2013.

Engineering Research Week - 18th March to 30th March 2013

Pharmacy Research Week - 2nd April to 13th April, 2013

Management Research Week – 24th April to 27th April, 2013

GTU campus was buzzing with knowledge sharing interactions among students and faculties.

All the faculties from different universities appreciated the initiative of organizing such Research Week. Faculties from other universities were impressed with the work of many students. They found the topics of research and work of students relevant to the need of industries and society. Some students showcased the unique and innovative presentations which can also lead to innovation in future. Such combination of students and faculties made the Research Week Event a successful initiative of GTU.

Out of **1469** students, **1448** students of ME attended the Research Week 2013 (**98.57 %** Participation). Total Ph.D. Students of **Batch 2011** were **86**, out of which **85** students were present (**98.83%** participation). Around 40 Ph.D. students of **Batch 2012** also attended the research week.

For evaluation of the projects, we were able to have **67** experts from NITs, IITs and some foreign Universities.

The external experts also conducted the workshop. A total of **54** workshops were conducted during **12** days of Research Week -2013.

Workshops Conducted During Engineering Research Week 2013

No.	Expert	Topic
1	Prof. Deepankar Choudhury	Research Ethics
2	Prof. Patterson	Computational Intelligence , basics to add medical decision making
3	Prof. Shankar Narayan Swami	Numerical Modeling of Welding process
4	Prof. Amit Bhatt	Mobile Processor Ecosystem
5	Prof. Dr Buddhadev	Android Programming
6	Prof. Shiv Shenmugam	Finite Element Simulation of BioMechanical models.
7	Dr. D L Shah,MS University	Ground improvement technique
8	Prof Dwarkanath Kale	General Topic
9	Prof. GOWDARA PANDU/Dr Sushanta Karmakar	Professional approach towards the corporate world and career opportunities.
10	Dr.P.V.Ramana	Research Methods
11	Dr. Devesh Jinwala	General Topic
12	Dr. Sushanta Karmakar	WILL GIVE A GENERAL TOPIC or Self-stabilizing distributed system
13	Dr Sanjay Kumar Singh	Multi-modal Biometrics
14	Prof. Manoj Gaur	Multi Core Architecture and Network on Chip
15	Prof. P.D. Solanki	Guidance for Literature review & Finalization of Topic
16	Prof. K N Jha	Issue and opportunities in formwork for concrete structures
17	Prof. GOWDARA PANDU	Professional approach towards the corporate world and career opportunities.
18	Prof. Mukopadhyay	Control of AirPollution in Industry.
19	Prof. Sumit Roy	What is Research
20	Prof. Sumit Roy	What is Research
21	Prof. Anil Kulkarni	Design Optimization of Hybrid, Small, Decentralized Power Plants for Remote/Rural Areas
22	Prof. Anil Kulkarni	Design Optimization of Hybrid, Small, Decentralized Power Plants for Remote/Rural Areas
23	Prof. Sumit Roy	What is Research
24	Prof. Sumit Roy	What is Research
25	Prof. Srinivas Palanki	Real time optimization and control of chemical process,process design for hydrogen economy

Workshops Conducted During Engineering Research Week 2013

26	Prof. Anil Kulkarni	Design Optimization of Hybrid, Small, Decentralized Power Plants for Remote/Rural Areas
27	Prof. Srinivas Palanki	Real time optimization and control of chemical process,process design for hydrogen economy
28	Prof. Arun Somani	computer architecture, gpu data processing,optical networking,image-processing applications or
29	Prof. Arun Somani	computer architecture, gpu data processing,optical networking,image-processing applications or
30	Prof. Anil Kulkarni	Design Optimization of Hybrid, Small, Decentralized Power Plants for Remote/Rural Areas
31	Prof. Anil Kulkarni	Design Optimization of Hybrid, Small, Decentralized Power Plants for Remote/Rural Areas
32	Prof. Arun Somani	computer architecture, gpu data processing,optical networking,image-processing applications or
33	Prof. Anil Kulkarni,Prof. Vinay Dayal	Topic as per the Expert's Choice
34	Prof. Shrinivas Palanki,spalanki@southalabama.edu	Real time optimization and control of chemical process,process design for hydrogen economy
35	Prof. Sumit Roy,roy@ee.washington.edu	Emerging Research themes in wireless communication/Networking
36	Dr. Chetan Kotwal	Reactive Power Compensation using FACTS Controllers
37	Prof. Pramod Verma	Emerging science of complex network
38	Prof. Shishir Shah	Wide Area Surveillance
39	Prof. R S Tare	Experimental Skills in power electronics research
40	Prof. Pramod Verma	Emerging science of complex network
41	Prof. Vinay Dayal	Mechanics of Composite and combined materials
42	Prof. Sandeep Chaudhry	Recent Trends in reseach in civil Engineering
43	Prof. Giovaani	Energy Conversion
44	Prof. Gaurav Sharma	Colour Imaging
45	Prof. Shishir Shah	Wide Area Surveillance
46	Prof. Ramki Thurimella	network security
47	Prof. Giovaani	Materials and devices for energy conversion.
48	Prof. A K Gupta,	Durability aspects of masonry heritage structures.
49	Prof. Ramki Thurimella	Network Security
50	Prof. Gaurav Sharma	Colour Imaging
51	Prof. Giovaani	Materials and devices for energy conversion,synthesis and characterization of magnetic materials,electrochemical deposition of films
52	Dr Vinay Dayal	Composite Materials Technology and NDE
53	Prof. Patterson	Computational Intelligence , basics to add medical decision making
54	Prof. Teresa Dahlberg	Computing and informatics for the 21st century.

The experts from the foreign universities expressed their view on the quality of the research project of the students. Some of expert's opinions are as follows:



Dr. Giovanni Zangari (University of Virginia):

“GTU students are always well prepared. Young students are dedicated and engaged in research work.”



Dr. Teresa Dahlberg (University of North Carolina):

“This is a great thing. I am really happy to come here. Students are dedicated. GTU is working a lot for its students.”



Dr. Vinay Dayal (IOWA State University):

“I am enjoying .The idea of foreign experts and external examiners reviewing projects is great.”



Dr. Gaurav Sharma (University of Rochester):

” This is a wonderful thing. External review provides great opportunity for the students to make their projects flawless.”



Dr. Ramki Thirumella (University of Denver):

“I am honoured to come here and help students in their projects. It is good to have external examiners to review students’ projects. The **Vice Chancellor of GTU Dr. Akshai Aggarwal** has made good efforts to improve the quality of the students.”



Dr. Raghu Echempati (University of Florida, Ohio State University, USA, visiting faculty at IIT Gandhinagar):

“There are some extremely good quality projects .They are very high level real industrial projects, students have made good choices. I am very impressed.”



Dr. Patrick Patterson (Texas Tech University):

“This is a unique idea, it is wonderful .Projects are tough, innovative, quite different and interesting. All projects must work and must be patented, so that they can be presented at international level. I am impressed.”

Out of **1898** students, **1870** students of M. Pharm attended the Research Week 2013 (**96.36 %** Participation). Total Ph.D. Students were **55**, out of which **54** students were present (**98.85%** participation).

There were around **52** experts from NIPER and other premier institutions to evaluate the projects of the students.

The external experts also conducted the workshop. Total **32** workshops were conducted during **11** days of Research Week -2013.

Workshops Conducted During Pharmacy Research Week 2013

No	Expert Speaker	Topic of Workshop
1	Dr. G.B.Shah, KBIPER, Gandhinagar	Recent Advances in Immuno Pharmacology
2	Dr. Anurag Mehta	Quality Assurance through Good Manufacturing Practices
3	Dr. R.H.Parikh	Pulmonary Drug Delivery
4	Dr. R.K.Goyal, Ahmedabad University	Dilemma of a Pharmacologist : Basic Research or Clinical Research , Some Experiences
5	Dr. J.B.Dave, Shri Sarvajani College, Mehsana	From Basic GMP to Pharmaceutical Quality Systems
6	Dr. Narmada G. Y., VIPS, Banglore	Recent Advances in Transdermal Drug Delivery System
7	Dr. Rema Razdan, Banglore	The search for animal alternatives in pharmaceutical research using new technologies.
8	Dr. Kamala Vasu, Perd Centre	Drug Design, Discovery and Development
9	Dr. Padmin Buch	Innovations and IPR
10	Dr. Daved Banji, Hydrabad	Stem cells as newer therapeutic agents
11	Dr. R.C.Mashru , MSU, Baroda	Total Quality Management – TQM
12	Dr. Yuvrajshih Tanvar, Udaipur	Liposomes – A Vesicular Drug Delivery System
13	Dr. K. Shreedhara R. Pai, Manipal	Challenges in Translational Research – From bench to bedside challenges in anti-cancer drugs
14	Dr. Shailendra K. Saraf, Lucknow	Carbon Nanotrophs : Chemistry and Applications
15	Dr. Shubhini Saraf, Lucknow	Lipoidal Nanotechnology : Challenges and path ahead
16	Dr. Raju Koneri, KCP	Liposomes- A Vesicular Drug Delivery System
17	Dr. M.R.Yadav, MSU, Baroda	Selective alkylation of 3 – Benzazepinone for CNS Activity
18	Dr. N. Narayanan, Director * Professor MBA, PH.D.,M.Pharm Jaya Collage of Pharmacy, Chennai	Newer and Innovative Technologies/ Information of Nasal Products and Metered Drug Inhalers
19	Shri Kanu Panchal, Vadodra	Overview of Quality System in Pharmaceutical Industry
20	Dr. S.Y. Gabhe	Regio & Stereospecific generation of enolate anions & asymmetric aldol reaction
21	Dr. Girish K. Jani	Use of statistics in research
22	Dr. K.S.Jain, Professor & Director of research , Sinhgad Inst. Of Pharmacy, Pune	Microwave Assisted Synthesis Theory and Applications
23	Dr. B. Panigrahi, Asst. Manager – Dr. Reddy's Lab	Degradation Pathways of Active Pharmaceutical Ingredients
24	Dr. Vallabh Pansoriya, VP – R&D, J.R. Chemicals	Quality by Design
25	Dr. Pramil Tiwari, NIPER	Priorities of Clinical Pharmacy Research
26	Dr. Tushar Mehta	Approaches to Method Development for LC Based Applications Column Selection
27	Dr. Sunita Dahiya	Studies on Development of Some Formulations Containing Poorly Water Soluble Drugs
28	Dr. Venu Gopal, Principal , Registrar Academic, Pondicherry institute	Current Trends in Pharmacognosy or Problems faced in Industrial Pharmacognosy and their solutions

Workshops Conducted During Pharmacy Research Week 2013

29	Dr. Nayan Kshatri, DGM Cadila Pharmaceuticals	Residual Solvents – USP Chapter 467
30	Dr. Vinay Chawla, BBDNIIT, Lucknow	Solid Lipid Nanoparticles : Current Trend and Future Perspectives
31	Dr. J.B.Dave	Road Map to Global Regulatory Compliances
32	Dr. Atmaram Pawal	Nanophytomedicine

The experts from different universities expressed their view on the quality of the research project of the students. Some of expert's opinions are as follows:



Dr. Raju Koneri, KCP

GTU is doing excellent job by organizing such amazing research week. I really appreciate that. Around 70% of the presentations we have studied are very good. Rest 30 % of the students are asked to re-do their presentation work as the contents were not satisfactory. Students must be more serious. Students have become very smart and they try to find the easy way out which is a global problem. Teachers must see that the good students must not face injustice. Some students have given really good research and have made presentation on the toxicity of drug compound already available in market. Such presentations were found unique and interesting.



Dr. K.S.Jain (Professor & Director of research, Sinhgad Inst. Of Pharmacy, Pune):

Research week is a very good gesture by GTU I have come here for the 4th time. The students work is good they are well prepared. I am very happy with today's presentations. Some 4 to 5 presentation were extraordinary which can lead to innovation in future and university can look forward to patent them once finished.

Suggestions: Students curriculum should be divided properly so that they get proper time to finish project work.



Dr. V. Gopal (Principal, Registrar Academic, Pondicherry institute)

Research week is a good thought and is extraordinarily planned. Work of students is good but there is a scope of improvement. Students need more inspiration and direction with more research facilities. "Wisdom is more important than knowledge."



Dr. Bibhuranjan Panigrahi (Asst. Manager – Dr. Reddy's Lab):

"It really gave me a great pleasure by going through the way of initiative taken by GTU". The works of students are somewhat satisfactory but a lot many improvements can be made to achieve the real milestone. It is really a different and distinguished approach to evaluate and enhance the research work so far as the technical course is concerned.

Out of **40** students, **39** students of Management attended the Research Week 2013 (**97.5 %** Participation)

There were around **52** experts from all over India to evaluate the projects of the students.

The external experts also conducted the workshop. Total **12** workshops were conducted during **4** days of Research Week -2013.

Workshops Conducted During Management Pharmacy Research Week 2013

No	Expert Speaker	Topic of Workshop
1	Dr. M. Tripalraji, Director , Indian Insti. Of Capital Markets, Mumbai	Indian Initial Public Offer (IPO) Market : Who Makes Money And Who Loses
2	Dr. Nand Dhameja, Professor, MDI, Gurgaon	PE Disinvestment – Process & Policy : A Strategy “Towards PE Reforms
3	Dr. M. Tripalraju, Director, Indian Institute of Capital Markets, Mumbai	Listing on SME Segment : Early Evidence
4	Dr. Pramod Verma, Former Professor, IIMA, Ahmedabad	Research In H.R.
5	Dr. Y.S.Patil, Asso. Prof. Vaikunta Mehta National Insti. Of Co-operation Management, Pune	Literature Review in Research
6	Dr. Nilay Yagnik, Professor, NMIMS, Mumbai	Emerging Areas of Research in Information Systems for Management
7	Dr. Sarla Achutan, Director, BK School of Management, Ahmedabad	Data Analysis
8	Dr. G. Somayajulu	Qualitative Research Techniques in Marketing
9	Dr. Hemant Trivedi, Director, PDIM, Ahmedabad	Social Media Use and Application in Marketing and Research
10	Dr. Hemant Trivedi	Social Media Use and Application in Marketing and Research
11	Dr. Shrimali, Professor, MDI, Gurgao	-
12	Dr. Nand Dhameja, Professor, MDI, Gurgaon	-

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Dr. Nilay Yagnik (Professor, NMIMS, Mumbai)

Research Week is an excellent initiative. It gives opportunity to Ph.D. students to reflect on their own research. They also get to learn from others research and methodology which is essential part of research. It is a platform giving an opportunity to learn. Research is a journey. It is a continues exercise of improving. Many students I reviewed today are doing research on topics which can contribute to national level once completed.



Dr. Nand Dhameja (Professor, MDI, Gurgaon)

Research Week was a good event. Participants were not well prepared. Concepts were not clear. They need more inputs from supervisor. More and more reviews should be done. In many students titles of research and objectives were not matching. Some students had done very good job. More of the topics were on microfinance, it should be diversified.



Dr. Charles Savage (Guest faculty from Germany)

Organizing such Research Week is a great idea. When we did our studies we did not had such facilities. It is a wonderful thing under the leadership of Dr. Akshai Aggarwal. He can bring GTU at world level with such efforts. Topics of the students were good and they I am impressed with their determination. Faculties should guide students to ask right questions.



Dr. Sarla Achutan (Director, BK School of Management, Ahmedabad)

I have come to the Research Week 2nd time. It is a very good initiative. It is very useful to students as they can connect to each other and with the experts. They get exposure to different methodology and different topics. Some students have done good job but some were also below expectation. Some students were lacking in clarity of subject so it need to be resolved.



Dr. Ashish Sadh (Assistant Professor, IIM Indore)

Research Week is fantastic. I have come to the research week in GTU for the first time. It is a good concept. When students don't get periodic feedback and when things go wrong in the final presentation it disappoints them. Such reviews help them to ensure the quality of the research they are pursuing. I could see efforts and sincerity in students work. They are on the midway of finishing their work so I would not comment on the quality as final output is yet to come.

Photo Gallery

