

A
Report of Pharmacy Research Week-2015
(RW-2015)

Organized during
18th February 2015 to 28th February 2015

At



Gujarat Technological University (GTU)
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1. OVERVIEW OF PHARMACY RESEARCH WEEK - 2015

Gujarat Technological University (GTU) has organized Pharmacy Research Week-2015 for all the students of M. Pharm (Sem IV) and PhD (Pharmacy) from 18th February to 28th February 2015 at GTU, Chandkheda Campus, Ahmedabad.

Each year GTU is organizing this Research week during the month of Feb-March, to see the progress of research carried out by Master and PhD students. The works of students are going to examine by the eminent experts of related fields. This mechanism provides a platform to students to get a deeper insight into his/her respective research area. Experts are sharing their experience and give valuable suggestions to research students for value addition in their respective dissertation work.

During this Research Week-2015 total **1,121** students of M. Pharm and **76** students of PhD (Pharmacy) have presented their progress of research in front of experts.

To do the evaluation of research work done by the students, experts from foreign countries, industrial experts and academic experts from outside the Gujarat as well as within the state have been invited. Foreign experts who have remained present include Prof. Vasu Appanna, Dean, Faculty of Science & Engineering, Laurentian University (LU), Sudbury, Canada and Prof. Abdelwahab Omri, Professor of Chemistry, Laurentian University (LU), Sudbury, Canada.

National experts includes Dr. Sanjay S. Toshniwal, Principal of Vidarbha Institute of Pharmacy , Washim, Aurangabad ; Dr. M. B. Shankar J. Director, PLIM, Ghaziabad; Dr. S.G. Vasantharaju, Professor, Manipal College of Pharmaceutical Sciences and like.

Industry experts includes Mr Saurin Amin, Sr Research Scientist, Xylophia labs; Dr Nitesh Shah Head -Technical Services- Pharma Polymer & Services-Nutrition & Care- South Asia- Evonik Industries, Mumbai, Dr. Pathik Brahmshatria from Oxygen Healthcare; Dr. Haresh Patel from Sun

Pharma; Dr. Shivprakash Managing Director, Synchron Research, Ahmedabad, Dr. Anish Gandhi, MD, Accutest Research Lab, Ahmedabad and like.

During this RW-2015, each M. Pharm student has to do poster presentation too, which was evaluated in post lunch session by another experts. This new initiative provides a chance to student to learn poster preparation and presentation skill.

Further, on each day after poster evaluation, workshop of all eminent experts have been organized on recent trends in their respective research domains. So that students can get a new horizon of research.

Apart from these 300 experts from GTU affiliated Pharmacy Colleges have been invited during this Research Week 2015.

In brief, this research week was aimed to provide extended platform for learning and exploring new areas of research to all M. Pharm and Ph.D students of GTU.

To make this Research Week a successful event, under the visionary leadership of **Honb. Dr. Akshai K. Aggarwal**, Vice Chancellor of GTU and **Shri J. C. Lilani**, I/c Registrar of GTU, below mentioned team of Faculty of Pharmacy of GTU along with Deans of Pharmacy have done their great efforts.

2) LIST OF ORGANIZING COMMITTEE MEMBERS

Honb. Dr. Akshai K. Aggarwal

(Vice Chancellor, GTU)

Shri. J. C. Lilani

(I/c Registrar and I/c COE)

Deans of Pharmacy

- 1) Dr. C. N. Patel
- 2) Dr. D. R. Shah
- 3) Dr. J. R. Chavda
- 4) Dr. Tejal Gandhi
- 5) Dr. Anita Mehta

Ph. D. / Conference Section

- 1) Mrs. Mona Chorasiya
- 2) Dr. Sarika Srivastva
- 3) Mr. Dhaval Gohil
- 4) Mr. Gopal Bhatt
- 5) Mr. Bhavik Chauhan
- 6) Mr. Anil Tiwari

Media Section: Ms. Pina Bhatt

Store Section: Ms. Pinki Panchal

Special invited member: Dr. M. T. Chhabaria

Faculty of Pharmacy at GTU

- 1) Dr. Manish A. Rachchh
- 2) Ms. Hetal Mehta
- 3) Ms. Maitry Modi
- 4) Mr. Neeraj Chauhan
- 5) Ms. Ruchi Shah

Account Section

- 1) Dr. Ramsinh Rajpoot
- 2) CA Chitrali Parmar
- 3) Shri Mukesh Parmar
- 4) Mr. Rohan Mehta
- 5) Mr. Dharmesh Keshawala
- 6) Mr. Kanu Panchal

Photography: 1) Mr. Ankit Rana

3. LIST OF EXPERT'S WORKSHOP DURING RW-2015

Sr. No.	Exam Date	Examiner Full Name	Examiner Inst Name	Email of Examiner	Title
1	18-02-2015	Dr Thimmasetty	Bapuji pharmacy College, Davangere, Karnataka	thimmasetty@yahoo.com	Polymorphism in pharmaceutical solids
2	19-02-2015	Dr Mukesh C Gohel	Anand Pharmacy College, Anand	mukeshgohel@hotmail.com	Quality by Design and Process analytical Technology
3	20-02-2015	Dr. Y. S. Tanwar	Bhupal Nobles' College of Pharmacy, Udaipur-313002, Rajasthan	yuveraj2000@yahoo.co.in	Overview and Applications of Liposomes
4	21-02-2015	Dr R K Maheshwari	Deptt of Pharmacy,SGSITS, Indore Madya Pradesh	rkrkmaheshwari@yahoo.co.in	Novel Ecofriendly Pharmaceutical Applications of Hydrotrophy, Mixed Hydrotrophy and Mixed Solvency Concept
5	18-02-2015	DR. VEERESH P. VEERAPUR	Sree Siddaganga College Of Pharmacy	veeresh36@gmail.com	Importance of Analytical tools in Drug discovery and development process
6	19-02-2015	Dr.JAYANT B DAVE	Shri Sarvajanic Pharmacy College, Mehsana	drjbdave@yahoo.co.in	
7	20-02-2015	Dr. Sanjay S. Toshniwal	Vidarbha Institute of P{harmacy , Washim, Aurangabad	toshniwal_ss@yahoo.com	BRIDGING EFFECTIVELY IPR AND REGULATORY IN PHARMACEUTICALS
8	21-02-2015	Dr. M. B. Shankar	J. Director, PLIM, Gaziabad	madhirag@gmail.com	Quality Management System
9	23-02-2015	Dr Nitesh Shah	Evonics Pharma, Mumbai	nitesh.shah@evonik.com	Novel Drug Delivery Systems
10	24-02-2015	Dr Tejal Shah	Nirma inst of pharmacy, Ahmedabad	tjshah3@gmail.com	Nose to Brain Nano particulate Drug Delivery Systems: Challenges and Opportunities
11	25-02-2015	Dr J K Patel	Nootan Pharmacy College, Visnagar	jayvadan04@yahoo.com	Research Funding-An important Component in Acedemia

12	25-02-2015	Dr Abdul Omeri	Laurentian Uni, Canada	abdelwahab.omri@gmail.com	Liposomes as a Drug Delivery System for the treatment of Pseudomonas Aerenosa Infection
13	26-02-2015	Mr Saurin Amin	Sr Research Scientist, Xylophia labs	saurinamin@yahoo.com	Strategies in formulation for product development
14	27-02-2015	Dr Alpesh Chudasama	Manager, Amneal Pharmaceuticals	alpesh1212@yahoo.co.in	Recent Changes by FDA from industry point of view
16	23-02-2015	Dr. S.G. VASANTHARAJU	Manipal College of Pharmaceutical Sciences	sgvasanth@yahoo.co.in sgvasanth65@gmail.com, sg.vasanthraj@manipal.edu	Challenges in Bio-analysis
17	24-02-2015	Dr. Anil Bhandari	Jodhpur	anilnishit@rediffmail.com	Correction and Preventive Action (CAPA) in Quality Control
18	25-02-2015	Dr. Krishnamurthy Bhat	Manipal College of Pharmaceutical Sciences	km.bhat@manipal.edu	Trouble shooting in HPLC
19	26-02-2015	Dr. S. Y. Gabhe	Puna University	sy52gabhe@gmail.com	How To Write Thesis / Scientific Paper
20	23-02-2015	Dr Nitesh Shah	Head -Technical Services- Pharma Polymer & Services-Nutrition & Care- South Asia- Evonik Industries	nitesh.shah@evonik.com	Novel Drug Delivery Systems
21	23-02-2015	Dr. S.G. VASANTHARAJU	Associate Professor Dept. of Pharmaceutical Quality assurance, Manipal College of Pharmaceutical Sciences, Manipal	sgvasanth@yahoo.co.in sgvasanth65@gmail.com, sg.vasanthraj@manipal.edu	Challenges in Bio-analysis
22	24-02-2015	Dr. Tejal Shah	Nirma inst of pharmacy, Ahmedabad	tjshah3@gmail.com	Nose to brain nanoparticulate drug delivery systems : Challenges and Opportunities
23	24-02-2015	Dr. Anil Bhandari	Dean, Faculty of Pharmacy, Jodhpur University, Jodhpur	anilnishit@rediffmail.com	Correction and Preventive Action (CAPA) in Quality Control

24	25-02-2015	Mr Atul Kathiriya	Manager F &D Amneal	atulhpatel18@yahoo.co.in	Basics Biostatistics in Design of Experiment
26	25-02-2015	Dr. Krishnamurthy Bhat	Manipal College of Pharmaceutical Sciences	km.bhat@manipal.edu	Trouble shooting in HPLC
27	26-02-2015	Dr Abdul Omeri	Professor of Pharmaceutics, Laurentian Uni, Canada	abdelwahab.omri@gmail.com	Liposomes as a Drug Delivery System for the treatment of Pseudomonas Aeruginosa Infection
28	26-02-2015	Dr. S. Y. Gabhe	Puna University	sy52gabhe@gmail.com	How to Write Thesis / Scientific Paper
30	27-02-2015	Dr Vasu Appana	Professor of Bio chemistry, Laurentian Uni, Canada	vappanna@laurentian.ca	Metabolite based therapy for Alzheimer's disease
31	27-02-2015	Dr. K.Sreedhara R. Pai	Manipal College of Pharmaceutical Sciences	ksr.pai@manipal.edu	Cancer Research at MCOPS, Manipal
32	27-02-2015	Dr. Pathik Brahmkshatriya	O2H	pathik26@yahoo.com	Innovating Drug Discovery: Hit to Lead to Drug
33	27-02-2015	Dr. Shivprakash	Managing Director, Synchron Research, Ahmedabad	drshiv@synchronresearch.com	Past and Future of Clinical Research in India
34	28-02-2015	Dr. Prashant K. Puranik	Professor, Nagpur University, Nagpur	-	Ethosome: A novel Drug Carrier
35	28-02-2015	Dr. Vimal Kumar	Professor in Pharmacognosy, Nirma University, Ahmedabad		Supercritical Fluid Technology in Herbal Drug Discovery
36	28-02-2015	Dr. Haresh Patel	Sun Pharma	patelhary@gmail.com	Regulatory requirement for BA/BE studies

4. REVIEW OF EXPERTS FOR RW-2015

4.1 Date: 18th February 2015, Wednesday (Day 01)

A| Workshop 1 (Pharmaceutics)

Dr. J. Thimmasetty, Professor & HOD, Bapuji Pharmacy College, Karnataka

He has delivered a talk on "**Polymorphism in pharmaceutical solids**".



Abstract: A polymorph is a solid material with at least two different molecular arrangements giving distinct crystal species. These differences disappear in a liquid or vapour state. Of concern are their relative stabilities. The highest melting species is generally stable, others are metastable and convert. There are also large differences in their physical properties so that they behave as distinct chemical entities. Polymorphism is remarkably common, particularly within certain structural groups, pharmaceutical substances are not exceptional for this. More details about polymorphs, structures, properties, and characterization will be discussed.

“In my 20 year of experience this is the first time, I am observing any University conducting ‘Research week’!!! This is a novel idea. Many senior teachers are called across the country to share their knowledge with the students. Ultimately post graduate students take the benefit of the presence of experienced teachers. As far as the arrangement of GTU for this program is concerned, all the members of the team have taken active participation. I appreciate everyone in this aspect. Travel arrangement, food arrangements, seminar arrangement, etc are good. This type of program should continue which in future remain as model for other university.”

- Dr. Thimmasetty about RW-2015 of GTU



B) Workshop -02 (Quality Assurance)



Dr. Veeresh P. Veerapur, Sree Siddaganga College of Pharmacy, Tumkur - 572 102, Karnataka, INDIA

He has delivered a talk on **“Drug Discovery and Development process: Emphasis on Analytical tools”**

Abstract

In the present scenario the discovery of new drug is very essential as emergence of newer disease conditions viz., Ebola, H₁N₁ or development of complications/resistance in existing disorders (Cancer, diabetes etc.). Drug discovery and development is a very complex process, requires lots of time (10-17 years) and money (approximately 800 million dollars) to reach one drug into the market, and also challenging because of fierce competition between different drug companies. Pharmaceutical R&Ds are making involvement of over 100 different disciplines as a part multi-disciplinary team to achieve this goal. Analytical department play a very important role as it involved in almost all sections of drug discovery and development process. This presentation will be emphasis on the different analytical tools useful in the discovery and development of drug-like candidates from synthetic, semisynthetic and natural origin. Also importance of herbal standardization in routine quality control process will be discussed. Overall, how one can use analytical tools with careful observation in routine laboratory experiments will fetch newer horizons in research.

“This is my third visit to GTU as an expert examiner. I am feeling good to be in the campus and interacting with GTU students. The custom of hospitality arrangement of scientific deliberations are

very high standard. I felt very glad about the system of examination and reviewing of students research work. This is only University in India where mid sem-review will be conducted at regular basis and very systematically to impart research scrutiny which allow the overall development. I will congratulate the Hon'ble Vice-Chancellor Dr. Akshai Aggarwal and Dr. Manish Rachchh and other official for their effort in this regards."

- Dr. Veerapur about RW-2015 of GTU



4.2 Date: 19th February 2015, Thursday (Day 02)

A] Workshop 1 (Pharmaceutics)

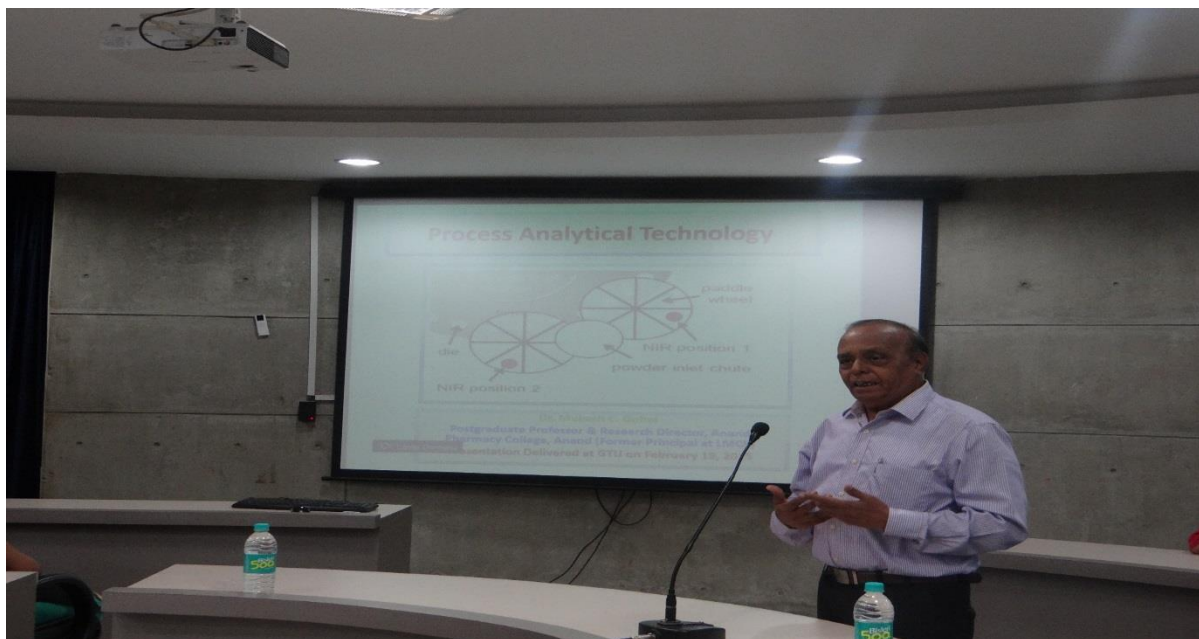
Dr Mukesh C. Gohel

Ex-Principal of LM College of Pharmacy &
Director PG, Anand Pharmacy College, Anand

He has taken a topic of “**Quality by Design and Process Analytical Technology**” in his afternoon workshop.

“The very basic purpose of conducting the Research week at GTU is excellent, since the students requirements are considered by the experienced examiners. Therefore, the quality of the Research work and moral of the students will rise-up. The novel experiment of presenting poster is also worth appreciating the student’s ability to combine, present and express their dissertation topics. The staff

member assistance of GTU is worth appreciating and the facilities are excellent. For the Ph. D students, GTU may think about starting publication of own Research journal to cut down the time of publication, which delays the award of the degree. All students will be benefited since in the afternoon experienced faculty members deliver the lecture on contemporary topics.” – **Dr. M. C. Gohel** about RW-2015.



B] Workshop -02 (Quality Assurance)

Dr. J. B. Dave

Professor, Shri Sarvajani Pharmacy College, Mehsana

He has taken a topic of “**Quality Assurance in Pharmaceutical Academia and Industry**”.

“Quality Research and Quality manufacturing are pillar of any industry and in a similar fashion Quality Research and Quality teaching are pillars of any academic institution including a University. The initiative of GTU to celebrate Research Week by combining exam of PG / Ph.D students with scientific presentations by experts from industry and academia is truly meaningful. The comments of the Honb. VC during the orientation session was very much relevant and served an important point for the experts to consider during evaluation. Inclusion of poster presentation is added feather in the cap this time, which is also appreciating steps and help to improve presentation skills of students.” – Dr. J. B. Dave about RW-2015



4.3 Date: 20th February 2015, Friday (Day 03)

1) Workshop- 01 (Pharmaceutics)

Dr. Yuveraj Singh Tanwar

Professor & Head in Pharmaceutics,

Bhupal Nobles' College of Pharmacy, Udaipur, Rajasthan, India.

E-mail: yuveraj2000@yahoo.co.in Mobile: +91-9828081843



He has taken a topic on “**Overview of Liposomal Drug Delivery System**”.

Dr. Y. S. Tanwar is Pharmaceutical teacher and researcher with Ph.D., M. Pharm. (Pharmaceutics) and B. Pharm. degree in Pharmaceutical Sciences with more than 15 years of teaching experience. Qualified GATE-98 conducted by IIT, Delhi. Dr. Tanwar is having P.G. teaching experience of more than 13 years in M. Pharm. (Pharmaceutics). Presently involved in supervising research work of Doctorate and Post-graduate research scholars and also teaching Pharmaceutics subjects to post-graduate and undergraduate pharmacy students. Work experience in development and evaluation of conventional dosage forms and novel drug delivery systems, plant tissue culture techniques. Areas of interest include formulation development and novel drug delivery systems. Cooperative team player, equally effective and self-motivated working independently, organized and goal-directed professional.



2) Workshop – 2 (Quality Assurance)

Dr. Sanjay S. Toshniwal

Vidarbha Institute of Pharmacy, Washim, Aurangabad

He Has Taken A Session On “Bridging Effectively IPR, Wealth And Regulatory Affairs”.



“Today I was an expert at M.Pharm / Ph. D (Quality Assurance) mid-term review process. I was really delighted to see the system established by GTU. Travelling all over India for such and other universities, GTU-systems are Unique in experience.”

I would like to particularly point out below mentioned good points of GTU system:

- *Time Management is excellent.*
- *Centralised arrangement is making students competitive, serious and provide chance to upgrade themselves.*
- *Since the examiners are from all over India including industry professionals, this has given great opportunities of learning to students and faculty.*
- *The working system has included the parameters such as PSAR, who will definitely boosts literature search in scientific and systematic manners.*
- *The system is totally transparent and performance based.*

I would like to further provide my suggestion for improvement as per below:

- *PSAR reports carried out by students/faculty can be placed at all stages and evaluations i.e ITD/MTR it can definitely strengthen the novelty and innovativeness.*
- *Students and faculty should be motivated for publications in good journals even for M. Pharm thesis.*
- *Students need to be improved in overall presentations skills.*
- *Oral and poster presentation seems to be dual method of evaluations which seems to bridge the industry viewpoint with that of academia at a proper level.*

I feel honored to be here as a part of the evaluation system.



4.4 Date: 21st February 2015, Saturday (Day 04)

A] Workshop 1 (Pharmaceutics)

Dr. R. K. Maheshwari

Professor, Department of Pharmacy, SGSITS, Indore, Madhya Pradesh



He has taken a topic on “**Eco friendly solubilization techniques**”.

Abstract: Various organic solvents like ethanol, methanol, dimethylformamide, acetonitrile ethylacetate, toluene, chloroform, benzene, dichloromethane, carbon tetrachloride, acetone, hexane etc. have been employed for spectrophotometric estimations of poorly water-soluble drugs. Similarly, various organic solvents like ethanol, methanol, dimethylformamide etc have been employed for titrimetric estimations of poorly water-soluble drugs. Drawbacks of organic solvents include higher cost, toxicity and pollution. Organic solvents have innumerable adverse effects caused by single exposure like dermatitis, headache, drowsiness, nausea, eye irritation and long term exposure causes serious effects such as neurological disorders, chronic renal failure, liver damage, necrosis, mutagenesis disorder. They should be replaced by other eco-friendly alternative sources.

“GTU Centralized examination system is very nice. I have not seen such type of nice and uniform system of examination till this time. I really praise the system. Also the students got the appropriate direction for their research projects.” - Dr. R. K. Maheshwari



B] Workshop -02 (Quality Assurance)

Dr. M. B. Shankar

Joint Director, Pharmacopoeial Laboratory for Indian Medicine (PLIM), Ghaziabad, UP

He has taken a topic on **“Quality Management System”**



Abstract: Understanding ‘Quality’, Quality Assurance, Quality Management System and its principles, General Perspective QMS, QMS Standards - ISO 9001: 2008. Brief Introduction on Implementation of QMS to a Manufacturing Facility or Research Facility.

“I got really good opportunity to contribute in the excellent system of examination made by GTU to motivate and guide the students through various guides and experts from varied streams of academia, industry as well as from regulatory agencies. I observed during my interaction with students, that such system has a motivational impact on the students. Though it is a central program of university and students are coming from all places of the state, this gives a good exposure to them. The workshop sessions by various eminent experts also provide exposure to the students with current happening in the professional world. Many students are working on innovative approaches and problem solving methods in their thesis and presentations were really good. I appreciate such initiatives of GTU for building up a competent Human Resource to country at large.”- Dr. M. B. Shankar



4.5 Date: 23rd February 2015, Monday (Day 05)

A] Workshop 1 (Pharmaceutics)

Dr. Nitesh Shah (Head -Technical Services- Pharma Polymer & Services-Nutrition & Care- South Asia- Evonik Industries)

Dr. Nitesh Shah is serving as Head of Technical Services of South Asia for Health Care division of Evonik Industries. Nitesh holds expertise in Enteric coated formulation development, QbD & GMP.



“I take this opportunity to thank GTU for inviting me to deliver a talk on NDDS. I was surprised to see the way GTU works, highly professional and as per corporate style. I never imagined University being so innovative and working almost up to international standards. Special thanks to Dr. Manish Rachchh sir for making me comfortable to the environment and towards the hospitality extended by him. I am sure Gujarati researchers and students would benefit from infrastructure provided by GTU. During my interaction with students and other faculty members, I was very proud to see the knowledge level they had for their subjects. Overall at university staff, teachers and students thank you again for extending an invitation to me to deliver the talk.”



B] Workshop 2 (QA)

Dr. S.G. VASANTHARAJU



Manipal College of Pharmaceutical Sciences

Associate Professor Dept. of Pharmaceutical Quality assurance, Manipal College of Pharmaceutical Sciences, Manipal

“I take this opportunity to thank GTU for inviting me to research week 2015. This is the first of its kind in India where students of the pharmacy will be trained and evaluated. This is a great move to train the students of various stages and such initiatives will take them and their work towards

bright future. Now GTU is going to set up its pharmacy instrument lab, which will further add value to the research. The research week concept is good and should be continued. It gives a good platform for faculty and students to interact with staff and experts. I am very thankful to GTU for giving me the opportunity.”



4.6 Date: 24th February 2015, Tuesday (Day 06)

A] Workshop 1 (Pharmaceutics)

Dr. TEJAL MEHTA

Professor, Nirma Institute of Pharmacy, Ahmedabad had given a session on following topic *Nose to brain nano-particulate drug delivery systems: Challenges and Opportunities*

“I am highly thankful to GTU for providing me an opportunity for evaluating students in mid semester review (MSR) & conducting workshop for them. MSR helps the students for better way towards research project. It strengthens the project & expert’s comment helps them in providing in-depth view of their project. I appreciate the initiative taken by GTU by adding poster presentation evaluation, preparing project in form of poster then inviting experts. It further helps students in guidance as well as increase their communication skills, presentation skill and confidence. It also provides opportunity for other students to see the on-going projects of other institutes of Gujarat.

Workshop for the Students by experts takes the student in practical aspects of research which is very essential for handling obstacles in projects. They will be aware about latest topics and techniques. The arrangements for one to one communication by GTU were very good.”



B] Workshop 2 (QA)

Dr. Anil Bhandari

Dean, Faculty of Pharmacy, Jodhpur University, Jodhpur

“GTU is organizing a unique way of promoting research and via this way students are subjected to interact with industry experts and academicians. This time GTU had added the flavor of poster presentation which is also beneficial to students. The total approach by University is excellent. I personally congratulate the team of GTU for excellent organization of research week.”



4.7 Date: 25th February 2015, Wednesday (Day 07)



A] Workshop 1 (Pharmaceutics)

Dr. J. K. Patel,

Principal, Nootan Pharmacy College, Visnagar

Dr. J.K. Patel is associated with GTU since its beginning. This is the 3rd Research Week he is attending. D. J. K. Patel was extremely happy while talking about the progress he has noticed gradually.

“In the 1st Research Week, we were doing the evaluation on a blank piece of paper while in second year we had a questionnaire but this year the evaluation method is excellent. The close ended question method used this year will help not only the evaluators but also to the students in understanding the clear reviews given by the evaluator. It reduces the chance of miscommunication and students get the clear cut idea about the direction to move further.”

The initiative of GTU for organizing the workshop for students during research week is highly appreciated. The Research week -2015 is unique with the poster presentation activity. Different examiners had evaluated the individual projects. Such initiatives will be helpful in future for international conference organization at university.”

Dr. J. K. Patel also conducted a workshop on **Research Funding-An important Component in Academia.**

B] Workshop 2 (QA)

Dr. K. N. Bhat,

Professor & Head, Pharmaceutical Quality Assurance,
Manipal University, Karnataka

“The organization of Research Week is an excellent idea of GTU. The ever growing enthusiasm of GTU is very encouraging and appreciable. The online mark entry system is a very useful and important new addition to the system. Poster presentation and its evaluation part is very useful for grooming the students for new challenges.”

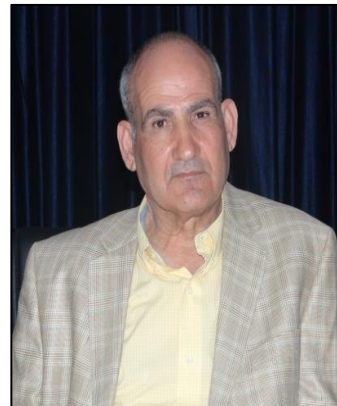


Dr. Bhat also conducted a workshop on **Trouble shooting in HPLC.**

4.8 Date: 26th February 2015, Thursday (Day 08)

A] Workshop 1 (Pharmaceutics)

Dr. Abdel Omri, Professor, Laurentian University, Canada



Dr. Abdel Omri came to India for the second time. GTU has signed MoU with Laurentian University, Sudbury, Canada under which students of GTU are visiting the Laurentian university since last three years under International Experience Program (IEP).

Dr. Abdel is extremely impressed with the concept of Research Week. Talking about the quality of the work done by students, Dr. Abdel said that “I found many projects which have standards like projects in Canada. Even the topics are quite similar’. Some of the project works found to be patentable.” During his conversation, Dr. Omri said that in Canada also students have the research projects but the evaluation system is different. In Canada, we have a Research Day. On Research Day, students display their work on posters like exhibitions and multiple evaluators visit them and choose three best papers at university level. Later the winners participate in the state level competition. The Research Day Exhibition is open for all and students also prepare 2 minute video of their research work in public interest which is quick and easy to understand. Research Day is organized to popularize the research among citizens and create awareness. This exercise also brings in donations for research work.

Dr. Abdel is really impressed to see the environment at the Research Week of GTU. Dr. Abdel said that *“We have learnt from the Students. Students are very smart over here.”* He said that *Research week is very well organized. He also said that people here are very nice and the hospitality is very good around here”*

Dr. Abdel Omri also conducted a workshop on **Liposomes as a Drug Delivery System for the treatment of Pseudomonas Aeruginosa Infection**

B] Workshop 2 (QA)

Dr. S. Y. Gabhe,

Professor of Analytical Chemistry, Pune University, Pune

This is Dr. Gabhe's 4th consecutive visit to GTU on the eve of Research week. He appreciated the continuous efforts of GTU to benchmark quality standard in Pharmaceutical Research & Development.

Today he evaluated 08 M. Pharm students and expressed that some of them have did really appreciable work. But he suggested that *“Selection of research projects still required much more exercise and hard work from the student's side as well as from their supervisor side. He mentioned that University should conduct workshop during 2nd semester of M. Pharm for Research methodology, so that learned experts can guide the students and their mentors about crucial steps of selection of research problem”*.

He has also conducted a workshop on **How to Write Thesis / Scientific Paper**.

4.9 Date: 27th February 2015, Thursday (Day 09)

A] Workshop 1 (Med Chem)

Dr. Pathik Brahmshatriya

Senior Team Leader in O2h, Ahmedabad



Dr. Pathik has come to the GTU Research Week 4th time and evaluated 8 M.Pharm and 1 Ph.D students. In a quick interview he said that *“The concept of the research week is very good. Work of students is mixed as some are very good and some are not. Else being a state university GTU is doing best of the efforts and it is quite good.”*

Dr. Pathik also conducted a workshop on **“Innovating Drug Discovery: Hit to Lead to Drug”**

B] Workshop 2 (Pharmacology)

Dr. K. Sreedhara Ranganath Pai

Professor and Head, Department of Pharmacology, Manipal College of Pharmaceutical Sciences, Manipal University, Manipal-576104, Karnataka



Dr. Pai has appreciated work done by GTU to improve quality of research at Master and PhD level. He has discussed about evaluation of anti-cancer activities of herbal drugs. In our research of the last decade, we have screened many potential plant drugs for their anticancer activity through robust in vivo and in vitro methods. We have achieved some success in verifying claims in folk medicine through our screening programmes. This presentation aims to highlight the work in our laboratory for

C] Workshop 3 (Pharmacology)



Dr. Vasu Appanna,

Dean, Faculty of Engineering & Science,
Laurentian University, Sudbury, Canada

Dr. VasuAppanna is a Dean of Faculty of Engineering and Science in Laurentian University, Sudbury, Canada. GTU and LU have collaborated for International Experience Program (IEP). Dr. VasuAppanna plays the role of Mentor for GTU students at LU during IEP. Dr. Vasu came to GTU third time.

Dr. Vasu was impressed with the concept of the Research Week. Dr. Vasu reviewed around 30 students during 24th, 26th & 27th February 2015. Talking about the reviews of students work, Dr. Vasu said that the work of students is satisfactory. I did not see any students failing. He said that work of some of the students were really good. **Some presentations were as good as the presentations we see in Canada.** During the interactions with students we discovered that students

do have the basic knowledge about the topic of research which is a good sign. As GTU has introduced PSAR this time, it is a very good concept.

Dr. Vasu also shared some very interesting suggestions. Dr. Vasu said that *“Whatever research students do, cannot have regional approach. Research is for the use of entire world. So it is very important to stay updated with what is happening around in the world in the field of Research. Students should join the Common Research Clubs like Research Gate where they can discuss several works. Through such clubs students can learn if any other students have published any article in any other country on the same topic.”*

Dr. Vasu said that *“In Canada there are labs where students can go and conduct practical. There is a special Cell Imaging Laboratory in our town where students of pharmacology can go and conduct the cell tests. They all are state university owned labs as there is no trend of privatization in education in Canada. Students here should explore the labs available around in the city to conduct practical”*.

Dr. Vasu also conducted a workshop on **Metabolite based therapy for Alzheimer's disease**

4.10 Date: 28th February 2015, Thursday (Day 10)

Dr. Haresh Patel,

Sun Pharmaceuticals & Advance Research Center (SPARC),
Vadodara

Dr. Haresh Patel is working with R & D department of Sun Pharmaceutical. He is an expert associated with GTU since last four years. This is his 4th Research Week he is attending and happy to see the improvement in the work of students. While Dr. Patel was interacting with media team he had already reviewed 1 Ph.D. and 9 M. Pharm students in the morning. Dr. Patel said that basic concept and guidelines has improved compared to earlier. The presentations are much clear and have improved. He also shared some suggestions saying that if the supervisors also join the students it can give better impact.



Dr. Haresh also said that *“Many times students are unable to finish their research to 100 % due to lack of availability of instruments which cost in millions. In such case if institute and industry make collaboration, students can get excess to these expensive instruments available in their R & D department. Such association can be beneficial to the students as well as industry”*.

Dr. Haresh also conducted a workshop on **“Regulatory requirement for BA/BE studies.”**

5. ANALYSIS OF FEED BACK GIVEN BY EXPERTS DURING RESEARCH WEEK -2015

GTU has organized Research Week-2015 for Pharmacy during 18th February to 28th February 2015. During these days, total 1,121 M. Pharm students and 76 PhD students have been reviewed. To do evaluation during these days, total 290 experts including faculty from GTU colleges, other University within the state, out state as well as from Laurentian University, Canada and industrial experts have been invited. All the external experts have appreciated the initiative started by GTU under the leadership of **Honb. Dr. Akshai K. Aggarwal** sir to increase the novelty component in the pharmacy research.

The feedback form has been given to all the experts asking their remarks for different heads viz.

[A] Academic

[B] Administrative

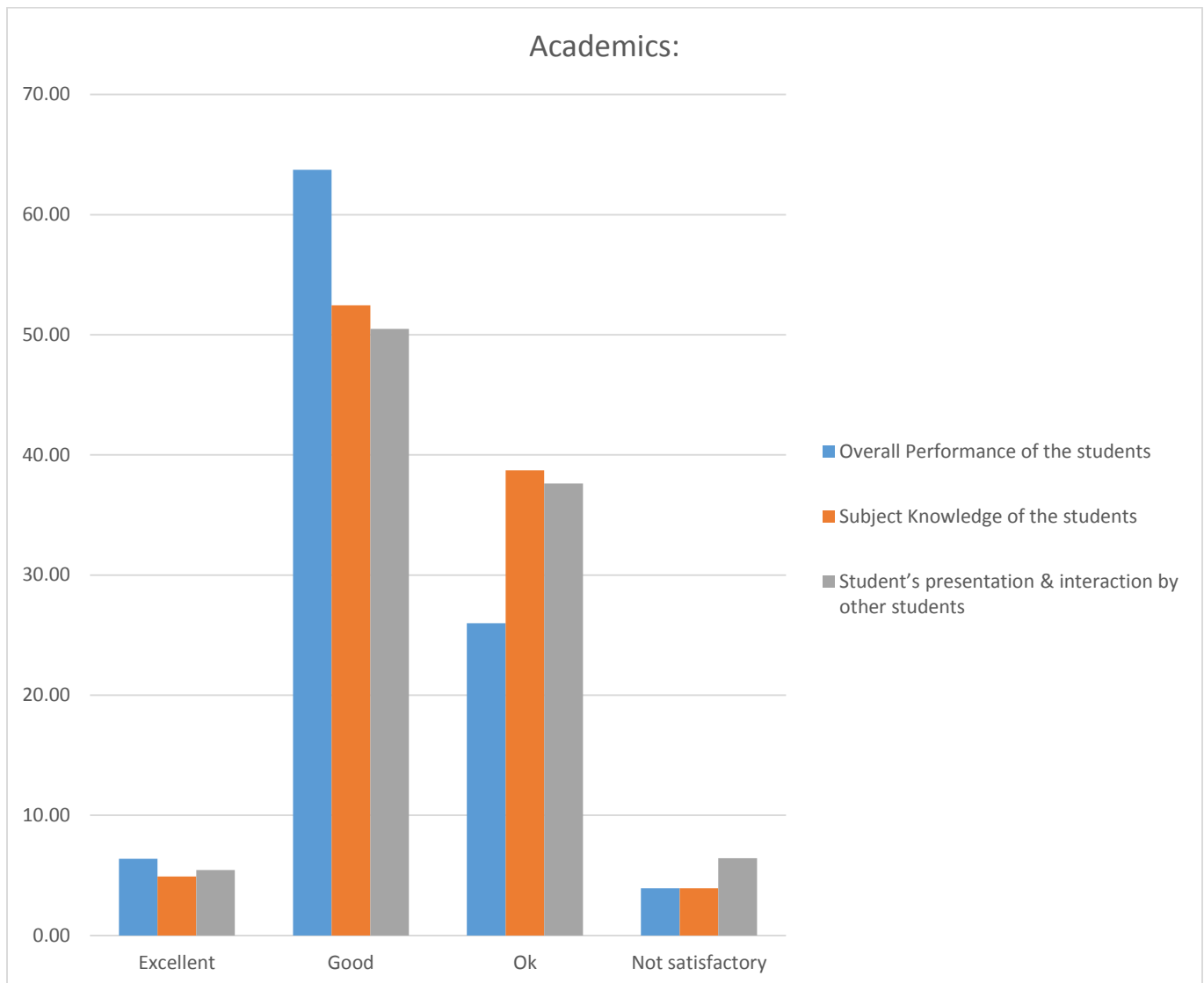
[C] General category

Feedback forms of total 290 experts, who have been invited to conduct Mid Sem Review exam of M. Pharm students, are compiled in the analysis presented overleaf.

[A] Experts Feedback for ACADEMIC aspects for

Pharmacy Research Week -2015

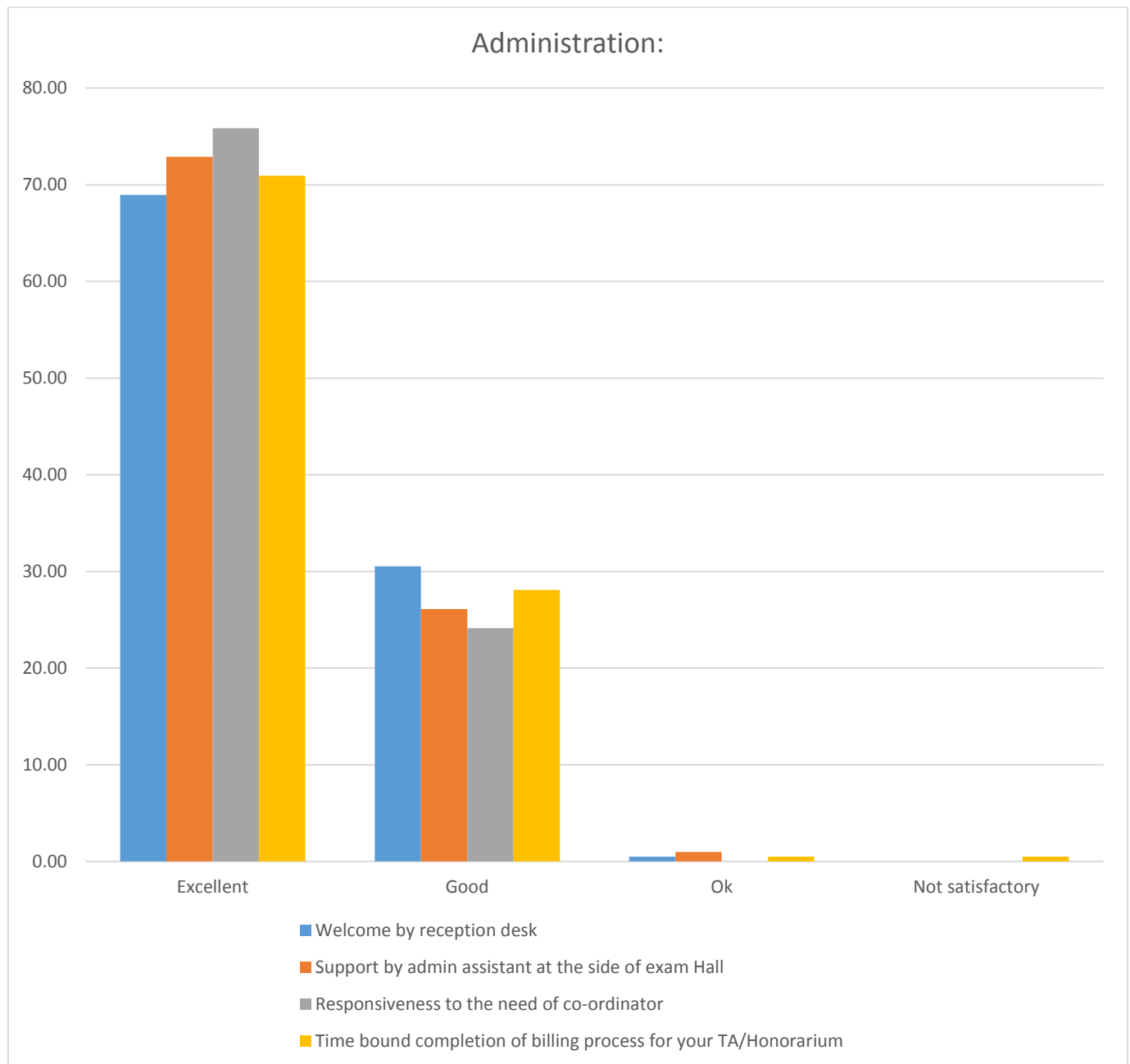
(18th February 2015 to 28th February 2015)



NB: 1) Y axis denote % for respective parameters

2) Response of 290 experts who came during 18th February to 28th February 2015 is combined over here to do analysis.

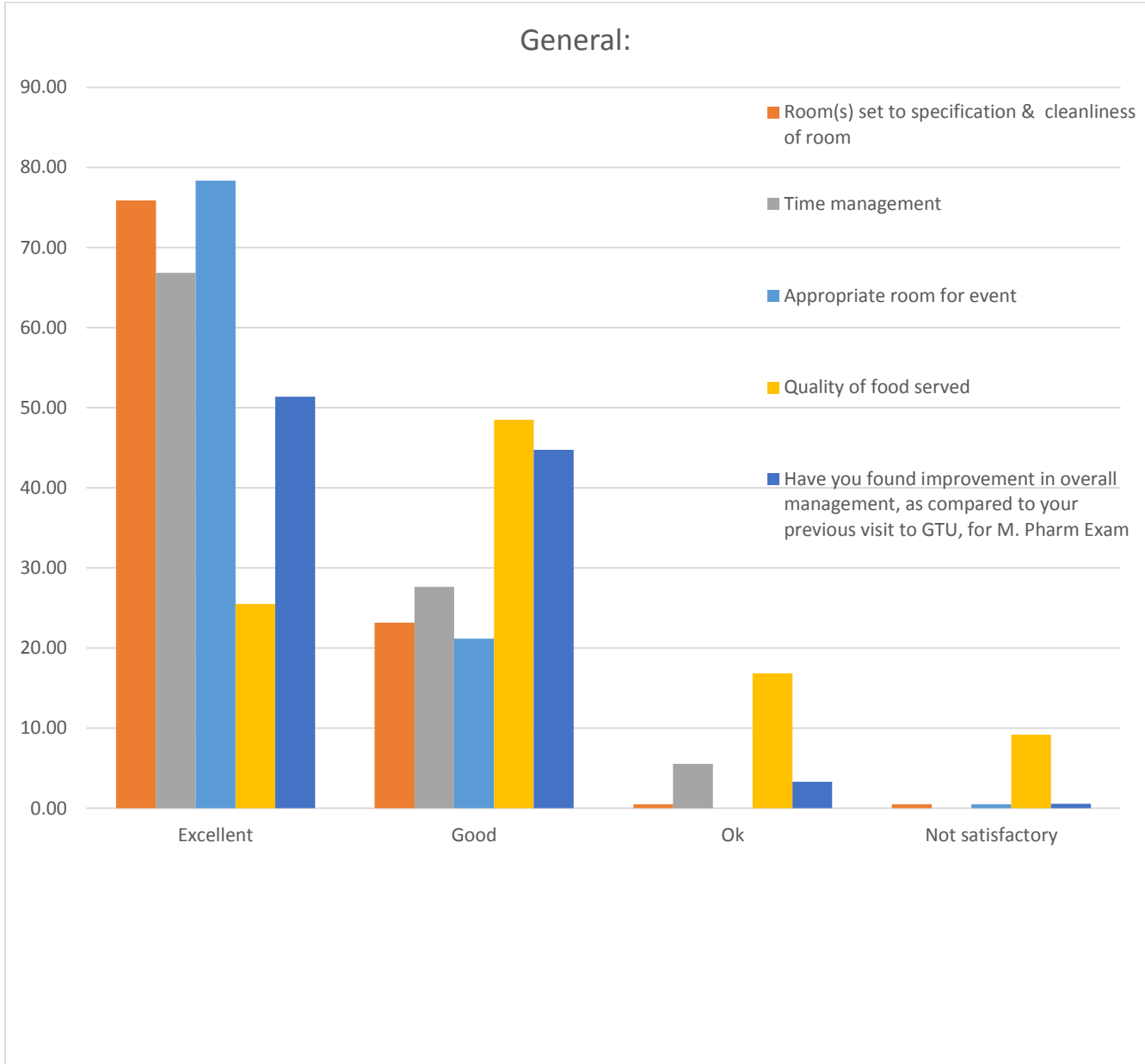
**[B] Experts Feedback for ADMINISTRATIVE aspects for
Pharmacy Research Week -2015**



NB: 1) Y axis denote % for respective parameters

2) Response of 290 experts who came during 18th February to 28th February 2015 is combined over here to do analysis.

[C] Experts Feedback for GENERAL aspects for Pharmacy Research Week -2015



NB: 1) Y axis denote % for respective parameters

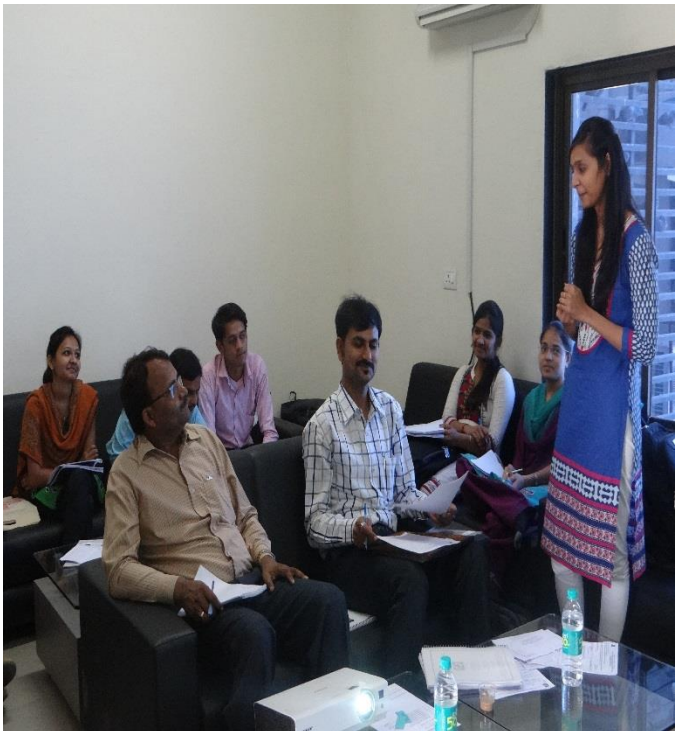
2) Response of 290 experts who came during 18th February to 28th February 2015 is combined over here to do analysis.

6. PHOTO GALLERY OF RESEARCH WEEK – 2015

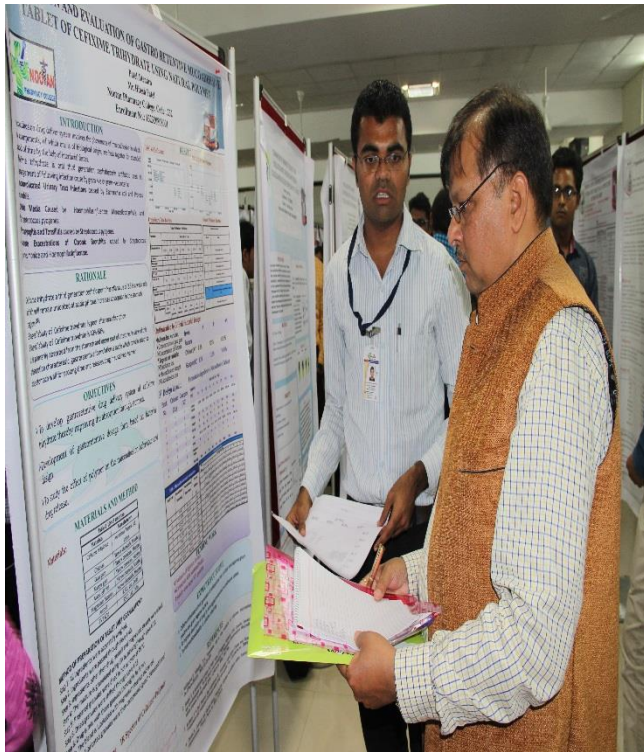




Mid Semester Review Presentation by students during RW-2015



Mid Semester Review Poster Presentation by students during RW-2015





Felicitation Of Experts During RW- 2015





