

A
Report of Pharmacy Research Week-2014
(RW-2014)

Organized during
20th February 2014 to 6th March 2014

At



Gujarat Technological University (GTU)
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1. OVERVIEW OF PHARMACY RESEARCH WEEK - 2014

Gujarat Technological University (GTU) organized Pharmacy Research Week-2014 for all the students of M. Pharm (Sem IV) and PhD (Pharmacy) from 20th February to 6th March 2014 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. In the mornings, the works of students are reviewed by 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. In the afternoons, workshops are organized for students and experts to discuss about new frontiers of research.

During this Research Week-2014, 1,612 students of M. Pharm and 71 students of PhD presented their research work. During the week, the visiting experts conducted 29 workshops for GTU's researchers".

To do the evaluation of research work done by the students, industrial experts, academic experts from outside the Gujarat as well as from within the state and some from outside India were available. Foreign experts who have remained present include Prof. Vasu Appanna, Dean, Faculty of Science & Engineering, Laurentian University (LU), Sudbury, Canada and Prof. Abdel Wahab Omri, Professor of Chemistry, Laurentian University (LU), Sudbury, Canada. National experts included Dr. K. Manjunath, Principal of Siddaganga College of Pharmacy, Karnataka; Prof. K. S. Jain from Pune University; Dr. V. K. Mourya, Principal, Nagpur University. Industry experts includes Dr. B. Panigrahi, Novartis, Hyderabad; Dr. Kanu Panchal, JB Chemicals, Vapi; Dr. Shailesh Patel from Synzeal, Dr. Pathik Brahmsatria from Oxygen Healthcare; Mr. Tarun Patel from Amneal Pharmaceuticals; Dr. Ashutosh Jani and Dr. Rajesh Gondalia from Accutest, Mr. Bharat Patel from Cadila Pharmaceuticals, Dr. Haresh Patel from Sun Pharmaceuticals. Besides 240 experts from GTU affiliated Pharmacy Colleges were invited during this Research Week 2014.

2. LIST OF EXPERTS FOR WORKSHOP

Sr No	NAME	Date of Workshop	INST. NAME	Desi.	MO.NO.	EMAIL ID	SUBJECT
1	Dr. K. Manjunath	20-02-2014	Sree Siddaganga College of Pharmacy, Tumkur - 572 102 Karnataka	Professor	9900499134	manju_kop@yahoo.com	Nanotechnology in drug Discovery
2	Dr. Haresh Patel	20/02/2014	Sun Pharma	Scientist	9924336233	patelhary@gmail.com	Bioanalytical method development & Validation and study sample analysis
3	Dr. R. C. Mashru	21/02/2014	MSU, Baroda	Professor	9428977923	rajshreemashru@yahoo.com	Quality Assurance Systems
4	Dr Praful Bharadia	21/02/2014	B.S. Patel Pharmacy College, Linch	principal	9099063140	pdbharadia@yahoo.com	CGMP issues in Parentals
5	Dr Yogesh Rai Chandani	22/02/2014	Alembic	Sr Executive Scientist	9428495864	yraichandani@gmail.com	Enhancing Bioavailability: Nanotechnology and other Practical Approaches
6	Dr. B. Panigrahi	22/02/2014	Novartis, Hyderabad	Scientist	8686123282	bibhu_lmcp@yahoo.co.in	Degradation pathway of API(Active Pharmaceutical Ingredients)
7	Prof. Abdul Omri	24/02/2014	Laurentian University, Canada	Professor		aomri@laurentian.ca	Drug Delivery System

8	Dr. Kanu Panchal	24/02/2014	J B Chemical Pvt Ltd	Manager	9998014375	kanu.panchal@jbcpl.com	GMP and its elements
9	Dr J K Patel	2/25/2014	Nootan Pharmacy College, Visnagar	Principal	9825565796	jayvadan04@yahoo.com	How to Write Research paper
10	Dr. Vijay D. Wagh	2/25/2014	R.C. Patel Institute of Pharmaceutical Education and Research, Sirpur , Maharashtra	Professor	9923072990	drvijaydwagh@gmail.com	Enterpreneush ip Contract Manufacturing: A New Era In Pharmaceutical Manufacturing
11	Dr. Jitendra Jain	26/02/2014	Cadila Helth care, Abd	Manager	9974051896	jitendrajain@zyduscadila.com	New regulatory challenges for Pharma industries and recent chromatographic development
12	Mr Dhaval Patel	26/02/2014	SPARC , Vadodara	Assist . Manager IPR	8980923943	dhaval.ipr@gmail.com	Patent Application Instead of Research Article
13	Dr. Umathe	28/02/2014	Nagpur	Professor	9373102858	umathesn@hotmail.com	Endocannabioi d Receptor, a novel target for future therapeutics
14	Dr.Vasu Apanna	28/02/2014	Laurentian University, Canada	Dean		vappanna@laurentian.ca	Oxidative Stress And Diseases
15	Dr. Mahesh Burande	28/02/2014	Pune	Director	9822016759	mahesh.burande@gmail.com	Challenges And Opportunities for Indian Pharma Industries to become Pharma

							Superpower in 2020
16	Dr. Kavita Gulati	28/02/2014	Delhi	Professor	9899233085	kavgul2002@yahoo.com	Pharmacovigilance-Concepts & Application
17	Dr. Pathik Brahmks hatriya	28/02/2014	Oxygen Healthcare, Ahmedabad	Team leader	9427418618	pathik26@yahoo.com	Importance of Experimental Medicinal Chemistry in Drug Discovery
18	Dr. Tushar Mehta	3/1/2014	Thermofisher	Director	8980009413	tushar.mehta@thermofisher.com	U S Pharmacopoeia and Case Studies
19	Dr M C Gohel	3/1/2014	Anand pharmacy College (Ex-Principal L M college of Pharmacy)	Professor	9825011795	mukeshgohel@hotmail.com	QbD Compliant Performance Test
20	Dr G K JANI	03-03-2014	Pharmacy college Sylvasa	Principal	9898765642	girishkjani2002@yahoo.com	Interpretation of contour plot and 3D surface plots in Pharmaceutical Research
21	Dr. Anil Bhandari	03-03-2014	Dean, Faculty of Pharmaceutical Sciences, Jodhpur National University, Jodhpur	Dean	9829252600	anilnishit@rediffmail.com	How to Develop New Drug

22	Dr. S. J. Rajput	04/03/2014	MSU	9998309662	sjrajput@rediffmail.com	Application of QBD concepts for Analytical method development
23	Mr Tarun J Patel	04/03/2014	Amneal	Assist . Mana ger F & D	9974162831	tarun.pharma@gmail.com	MUPS Technology and Processing
24	Dr V K Mourya	05/03/2014	Nagpur University	Princi pal, GEC	9890183001	vkmourya@gmail.com	IVIVC
25	Dr. S. Y. Gabhe	05/03/2014	Pune	Profe ssor	9820726284	sy52gabhe@gmail.com	QbD & Process Standardization
26	Dr. K. M. Bhat	06/03/2014	Manipal	Profe ssor	9845801575	km.bhat@manipal.edu	Writing a Good research paper
27	Dr P K Puranik	06/03/2014	Nagpur University	Profe ssor	8888836438	pkpuranik@yahoo.com	Nanocarriers: P hytosomal Drug Delivery System
28	Dr N R Sheth	06/03/2014	Saurashtra University	Profe ssor	9099939417, 9428202492	navin_sheth@yahoo.com	Research in Pharmacology Problems & Opportunity
29	Dr V Gopal	06/03/2014	Puducherry	Profe ssor	9894832221	gopalveni@yahoo.com	A Win-Win Policy for all stakeholders of herbal medicine

3. REVIEW OF EXPERTS FOR RW-2014

Date: 20th February 2014, Thursday (Day 01)

Dr. Haresh Patel, Sun Pharmaceuticals

Dr. Haresh Patel is working with the R & D department of Sun Pharmaceuticals. He is an expert associated with GTU since last four years. This is the 3rd Research Week he is attending and is 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 have improved compared to earlier research weeks. 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 100 % due to lack of availability of instruments which cost in millions, which no university can invest in. In such cases if the institute and industry make collaboration, students can get access to these expensive instruments available in their R & D department. Such association can be beneficial to the students as well as the industry.

Dr. Haresh also conducted a workshop on “**Bio Analytical Method Development & Validation and Study Sample Analysis.**”



Dr. K. Manjunath, Professor, Siddaganga College Of Pharmacy, Karnataka

Dr. K. Manjunath has come to the GTU Research Week for the first time and is extremely impressed with the review system. He said that generally Ph.D. students prepare their research work and synopsis and present it in front of their guide. Idea of presenting the work in form of a presentation in front of external experts will give them an exposure and

will prepare them to lead in conferences they go to in future. They can break their inferiorities and exam fear. He said that as it is my first day at the Research Week and as I have reviewed only 6 students today, I cannot talk about quality of the work and students. Dr. Manjunath also said that many students lose the interest in publishing their work after they pass out, so university should encourage them to publish their work before getting the degree or university should make it compulsory that every student give a note to publish along with the dissertation itself which can be sent to publishing house. This will benefit not only the students but also the university as more number of research articles can be published in journals, which will be a value addition to University too. University can also announce Gold Medal or Young Researcher Award for the students who publish highest number of journals in peer reviewed journals.

Dr. K. Manjunath conducted a workshop on “**Nanotechnology in Drug Discovery**”.

Date: 21st February 2014, Friday (Day 02)

Dr. R. C. Mashru, Associate Professor, MSU, Baroda

Research Week is a very good idea said Dr. Mashru during her interview. She said that at one point, we thought that bringing experts from outside and gathering students at the University campus in Ahmedabad from different places seems very hectic but then it is an opportunity for students to see the efforts and expenses that the University is doing to make their learning better. I have reviewed 10 M. Pharm students on 20th and 8 M.



Pharm students on 21st February 2014, both the days were very different. Yesterday, all the students were extremely good but today it was totally opposite. Dr. R. C. Mashru suggested for creating more awareness about the e-Library of the university so that students get good reference books for their research work. University should inspire students to publish high quality journals.

I am really impressed to see the messages of VC being put up on the website, which can straight away reach the students and faculties. I heard the speech of Dr. Akshai Aggarwal in the inauguration ceremony of the Research Week and his words inspire the students and teachers to bring the level of research up. At last Dr. Mashru said that “Dr. Akshai Aggarwal is a strong leader, if roots are very strong, the tree will flourish within a few years and will shade like anything.”

Dr. Mashru also conducted a workshop on “**Quality Assurance Systems**”.

Dr. Praful Bharadia, Principal, B. S. Patel Pharmacy College, Saffrony Institute of Technology, Mehsana



Concept of research week is very good. At this platform, students get a chance to see the work of others and get a chance to learn from others. They come to know what people are doing at other places. Dr. Bharadia is associated with GTU since beginning and he has

participated in all the Research Weeks organized earlier. On 21st February 2014, he reviewed 9 M. Pharm students. He said that in the present state, many students are running behind for getting the degrees only. But ideally they should give more focus on innovative learning.

Talking on the work of students, Dr. Bharadia said that Masters does not mean creating brilliant people only but it also means creating people compatible to the industry. Students need to understand that there are two types of knowledge one is “Must Know” and the second is “Good to Know”. Teachers should make the students understand the “Must Know” factor. At last he suggested to publish the Research Week schedules for reviewers at least a week before so that they can plan their calendar much in advance to visit the Research Week for review without disturbing their own calendar.

Dr. Bharadia also conducted a workshop on “**cGMP issues in Parenterals**”.

Date: 22nd February 2014, Saturday (Day 03)

Dr. Yogesh Raichandani, Team Leader, R &D (Formulation department), Alembic Pharmaceuticals, Vadodara

Dr. Yogesh Raichandani has done his B. Pharm, M. Pharm and PhD from M. S. University, Vadodara. He is currently working with Alembic Pharmaceuticals, Vadodara as Team Leader, R & D (Formulation department).



He came for the first time at GTU to conduct the exam of M. Pharm students. He said that he liked the orientation program very much which gave him clear cut instructions about what to do as an examiner. He also appreciated the management done for Research Week. Today he evaluated 10 M. Pharm students. He said that the overall performance of students was 60-65%, which can be improved a lot if necessary guidance was given to students at this juncture.

He further suggested that in the evaluation part, if percentage or rating has been given for each parameter then it would be easy for evaluators to give marks on that basis and it will also reduce the chances of subjective variation in evaluation.

Dr. Raichandani has taken an expert session on “**Enhancing Bioavailability: Nanotechnology & other approaches.**”

Dr. B. Panigrahi, Scientist, Novartis, Hyderabad

Dr. B. Panigrahi has done B. Pharm from Odisha University, M. Pharm from L. M. College of Pharmacy and PhD from North Gujarat University, Patan. He has 2.5 years of academic experience and 5 years of industrial experience. Currently he is working as a Scientist, Department of Pharmaceutical Analysis, Novartis, Hyderabad.



This is his 2nd visit to GTU. He mentioned that this is really an innovative and positive approach that GTU has started by inviting experts from reputed academia and industry to do evaluation of Master and PhD students at the central level. This will reduce the gap between industry and academia. He has evaluated 9 M. Pharm students today.

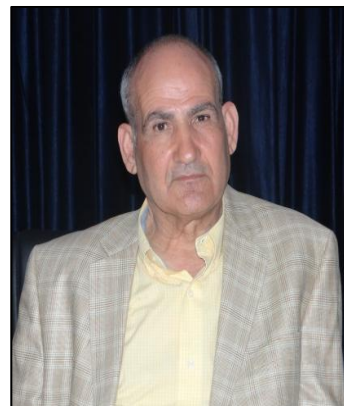
He suggests that for better output, University has to organize “**Training the Trainers**” program about current affairs and research happening in Industry, so that faculty can guide their students about current expectation of industry in terms of research in a better way.

Dr. Panigrahi conducted workshop on “**Recent Trends in Quality Assurance.**”

Date: 24th February 2014, Monday (Day 4)

Dr. Abdel Omri, Professor, Laurentian University, Canada

Dr. Abdel Omri has come to India for the very first time. GTU has signed MoU with Laurentian University, Sudbury, Canada under which students of GTU are visiting the Laurentian University since last two years under the 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 the ones in Canada. Even the topics are quite similar”. Some of the project works are found to be patentable. Dr. Omri is evaluating students since 21st February 2014.

During his conversation, Dr. Omri said that in Canada the students also have the research projects but the evaluation system is different. In Canada, we have a Research Day. On the Research Day, students display their work on posters like exhibitions and multiple evaluators visit them and choose three best papers at the University level. Later, the winners participate in the state level competition. The Research Day Exhibition is open for all and the students also prepare a 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 provided is very good.**

Dr. Abdel Omri also conducted a workshop on **“Novel Drug Delivery System”**.

Mr. Kanu Panchal, GM- Quality Assurance – J.B. Chemical Pvt. Ltd.

Mr. Kanu Panchal is one of the experts from industry at Research Week 2014.

Mr. Panchal had participated in the earlier Research Week 2013. He said that I found the quality of the students same as the earlier. **Topics of the research are either related to “Process validation” or “Method validation”.** There is much more scope in choosing the topics related to industry requirement.

Students should select the topics which are more logical, patent oriented and good for their further career. Mr. Kanu Panchal reviewed 9 M. Pharm & 1 Ph.D. student on 24th February 2014.

The assessment process has improved a lot. Overall, the idea of organizing research week is very good. Students are able to learn about the need of the industry today from external experts and industry experts, who can guide them in a very practical manner.

Mr. Kanu Panchal also conducted a workshop on **“GMP and its Elements”**.



Date: 25th February 2014, Tuesday (Day 05)

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. **Dr. Patel said that in the 1st Research Week, we were doing the evaluation on a blank piece of paper while in the second year we had a questionnaire but this year the evaluation method is excellent. The close ended question method used this year will not only help the evaluators but also 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. Dr. Patel evaluated 9 M. Pharm and 1 Ph.D. Student on 25th February 2014.

Further, Dr. Patel also mentioned that this year as students are sorted topic wise instead of branch wise and college wise, it will reduce the chances of groupism. **Dr. Patel also suggested that GTU should also decide the criteria for evaluator in terms of minimum number of quality research papers published in the journals. It will also motivate the students to publish more number of quality research papers.**

Dr. J. K. Patel also conducted a workshop on “**How to Write a Research Paper**”.

Prof. Vijay D. Wagh, Professor, R. C. Patel Institute of
Pharmaceutical Education & Research, Shirpur ,
Maharashtra



Prof. Vijay has come to the GTU Research Week for the first time and he is extremely happy to see the set-up. He said that the idea is excellent and even I am thinking of replicating it at our institute. Prof. Wagh evaluated

10 M. Pharm students on 25th February 2014. Talking on the reviews, he said that most of the students of Quality Assurance have worked on the topics of Reverse phase HPLC. **Students can also work on Herbal and Ayurveda Medicine. Today, especially in Ahmedabad, the scope is quite good if students take up a topic around herbal medicines.**

Prof. Wagh also suggested that university can publish a 40 to 50 pages book comprising the list of the industry oriented topics for research and names of the industry that has collaboration with the University for Research. Such book can provide good direction to the students since beginning. At last Prof. Wagh said that the Research Week is an excellent idea and is also very well organized.

Prof. Vijay Wagh also conducted a workshop on **“Entrepreneurship Pharmaceutical Manufacturing: A new era of Pharmaceutical Manufacturing”**.

Date: 26th February 2014, Wednesday (Day 06)

Mr. Dhaval Patel, Assistant Manager–IPR, Alembic Pharmaceuticals, Vadodara



Mr. Dhaval Patel has come to the GTU Research week for the very first time. During his interview Mr. Dhaval said that the concept is extra ordinary. I evaluated 9 M.Pharm students today. **The work of one of the students was very nice and I believe that his project can be patented in the near future. Quality of the work is good but students need to have new topics now.** They should study the industry need before selecting the topics. **University can ask the students to choose the topic in the 2nd Semester of 1st year itself so that they get enough time to search and decide on the topic.** Students should do the industry visit to understand the need of the time. They should understand that the **“Ultimate Goal of the research is that it should be beneficial to the society.”**

Mr. Dhaval said that the management of the Research Week is really good. I liked the concept as evaluators like us get to know about the new things going around and students will also get the benefit of expert’s knowledge.

Dr. J. K. Patel also conducted a workshop on **“Patent Application Instead of Research Article”**.

Dr. Jitendra Jain, Senior Manager, QC Department, Zydus Cadila Health Care, Ahmedabad



Dr. Jitendra Jain is a Senior Manager in the Quality Control Department at Zydus Cadila Pharmaceutical which is one of the leading pharma companies in India. During his conversation with media officer, **Dr. Jitendra said that we do interview of 200 candidates every month at our company but it is very difficult to find candidates as per our expectation. This happens because objectives of students are not clear. They know the theory part**

but lack in practical implications of the same. In the long run, when they have not practiced the practical part, they forget the theory part also. Therefore at Zydus Cadila, we first give practical training to the selected candidates and then absorb them if they are found competitive. Currently, there is a requirement of 50 to 60 B. Pharm students. Students can approach the HR department at Zydus Cadila and can go for the screening process. Even colleges can approach the HR department for the student's placement. For the training also we select the candidates carefully.

Talking about the current trend in the industry, he said that Quality Control has a very big role to play now and in the future. In today's time, drug quality has been a major issue worldwide and quality control experts are in great demand.

Talking about the Research Week concept of GTU, he said that this is a very good initiative of the University. Such activities were not conducted by any university in our time. This can definitely benefit the students.

Dr. Jitendra also conducted a workshop on **“New regulatory challenges for Pharma industries and recent chromatographic development”**.

Date: 28th February 2014, Friday (Day 07)

Dr. Vasu Appanna, Dean, Faculty of Engineering & Science, Laurentian University, Sudbury, Canada

Dr. Vasu Appanna is the Dean of Faculty of Engineering and Science at Laurentian University, Sudbury, Canada. GTU and LU have collaborated for International Experience Program (IEP). Dr. Vasu Appanna plays the role of Mentor for GTU students at LU during IEP. Dr. Vasu has come to GTU for the second time but he is participating in the Research Week for the very first time.



Dr. Vasu is impressed with the concept of the Research Week. Dr. Vasu reviewed around 30 students during 26th, 27th & 28th February 2014. Talking about the reviews of students work, Dr. Vasu said that the work of students is satisfactory. I did not see any student failing. He said that the work of some of the students was 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 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 student has 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 practicals. 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 practicals.

Dr. Vasu also conducted a workshop on “**Oxidative Stress and Diseases**”

Dr. Kavita Gulati, Associate Professor, Vallabhbhai Patel Chest Institute, University of Delhi, New Delhi

Dr. Kavita Gulati has come to the GTU Research Week for the 2nd Time. Dr. Kavita had attended the very 1st Research Week of GTU in 2012. She reviewed 8 M. Pharm Students on 28th February 2014. She said Research Week is a very good concept. When students get the suggestions from 3rd person they find all new approach. It is good for the students as well as for teachers.



Talking about the work of students Dr. Kavita said that in the 1st Research Week, I had found work of students much relevant to the industry needs while this time I feel this factor is missing. There is both type of work. Many students do not have clear idea about the research they are doing. Today, 2 of the students were very clear about the basics of their research topics while rest of them were not clear about the research they were doing. Dr. Kavita said that for such problems industry collaborations play a major role. Probably the two students did well because they might be closely working in the industry or they must have got placement in the field. If the students get to work in collaboration with the industry they have temptation of getting a job in the same company and they pay more attention to the work. University should motivate such practice. Else the arrangements at the Research Week are excellent.

Dr. Kavita also conducted a workshop on “**Pharmacovigilance-Concepts & Application**”.

Prof. Sudhir N. Umathe, Principal, Kamla Nehru College of Pharmacy, Nagpur

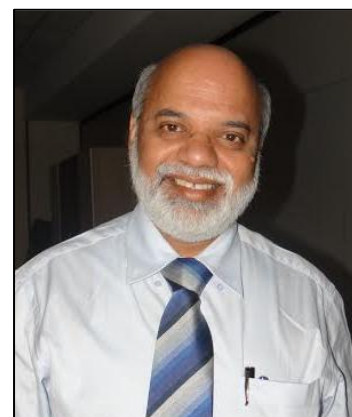
Dr. Sudhir Umathe is also ex-HOD of Department of Pharmaceutical Sciences at RTM Nagpur University. Dr. Umathe has come to the GTU Research Week 2nd time. He said that the concept of the Research Week is very good. Talking about the work of students, he said that I feel that novelty in research is



missing. Dr. Umathe reviewed 8 M. Pharm and 1 Ph. D student. He said that I found work of two students good but the rest were average. Students have done their work but the topics are much generalized. They need to understand the fundamentals of research. If each student chooses different and correct topics in research, India will be world leader in science. Else there are so many diseases in India that needs the research and development. I suggest students to work on those drugs that are of more use in India then other foreign countries. Select a topic that may make you a good researcher. Don't follow the trend.

Dr. Sudhir also conducted a workshop on **“Endocannabinoid Receptor, a novel target for future therapeutics”**.

Dr. Mahesh Burande, Director at Institute of Pharmaceutical Education and Research, Pune



Dr. Mahesh Burande is a very senior person in Pharmaceutical Education. He is also an advisor to many of the Pharmaceutical Companies which make him a bridge between industry and academia. Mr. Mahesh is attending the Research Week since last three years and is quite impressed with the concept. He reviewed 10 M. Pharm students and 1 Ph. D student on 28th February 2014. Dr. Mahesh said that it is a very good step that university has taken to evaluate students work. The evaluation system is very systematic. Quality of the students is very good. **The only concern is that the correlation of industry and academia should improve.** Commercial aspect of research projects should be taken care of.

Students can also look in to the economic aspect of Pharma industry that how they can create quality drugs at an economic cost. Else now-a-days, Pharma D is very popular which is about Pharmaceutical Care. Not only creating but keeping of drugs is also an area of concern now. University can offer some specialization in the field too.

Dr. Mahesh also conducted a workshop on **“Challenges and Opportunities for Indian Pharma Industries to become Pharma Superpower in 2020”**

**Dr. Pathik Brahmkshatriya, Team Leader, O₂H
Healthcare, Ahmedabad**

Dr. Pathik has come to the GTU Research Week 2nd 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 “**Importance of Experimental Medicinal chemistry in Drug Discovery**”

Date: 1st March 2014, Saturday (Day 08)

Dr. Mukesh C. Gohel, Professor and Director (PG), Anand Pharmacy College, Anand

Dr. Gohel was the former principal of L. M. College of Pharmacy, Ahmedabad and after retirement has recently joined as Director (PG), Anand Pharmacy College, Anand. Dr. Gohel was involved with all three Research weeks conducted by GTU. In fact, 1st research week was organized under his coordination at L M College of Pharmacy in the year 2012.

He has evaluated 10 M. Pharm students today and said that students need to do more focused research work rather than superficial work. He appreciated the efforts of GTU to excel in terms of academic research but he also emphasized that now the University has to find out the ways to bridge the gap between Industry and Academia.

He has also conducted a workshop in post lunch session on “**QbD Compliant Performance Test**”.

Dr. Tushar Mehta, Associate Director, Thermofisher (India) Ltd., Ahmedabad

Dr. Tushar Mehta is currently associated with Thermofisher (India) Pvt Ltd. and looking after its technical division for pharmaceutical and scientific instruments at Ahmedabad. He is coming 3rd time at GTU for Research Week. He appreciated the changes and up gradation that have happened in terms of process and conduction of the research week.

He has evaluated 9 M. Pharm students and mentioned that out of these, few were very good, but others were not up to the mark. He mentioned that today the student’s focus is on end goal i.e., getting job but to reach up to that goal, they missed their attention to develop necessary soft skills and analytical skills required to achieve that goal.

He has also conducted a workshop in post lunch session on “**US Pharmacopoeia & its Case Study**”.

Date: 3rd March 2014, Monday (Day 09)

Dr. G. K. Jani, Principal, Pharmacy College, Silvassa, Gujarat

This is the 2nd Research Week Dr. Jani is attending at GTU. Dr. Jani evaluated 9 M. Pharm Students on 3rd March 2014. Talking about the concept of GTU Research week, Dr. Jani said that it is a great concept and I admire it. Talking about the work of students, Dr. Jani said that I found the work of majority of



students was moderate and topics were non-conventional. **Dr. Jani suggested that GTU should also prepare a comparison report of the Research Week showing the status of number of Research Papers published or patents filed before they started the research week and after that to see the impact of this process.** He appreciated the management of Research Week.

Dr. Jani also conducted a workshop on **“Interpretation of contourplot and 3D surface plots in Pharmaceutical Research”**

Dr. Anil Bhandari, Dean, Faculty of Pharmaceutical Sciences, Jodhpur National University, Rajasthan

Dr. Bhandari said that the concept of the Research Week is really nice. Students get exposure to different experts. Dr. Bhandari evaluated 9 M. Pharm students on 3rd March 2014. He said the group of students I evaluated today had the same topics and were from same college. I think that the teacher should give different topics to each student so that students can learn from each other. Else I found



that students need to improve their writing skills. **University should provide them a single format to prepare the presentation.** The management of Research Week is very good. I am also going to evaluate students tomorrow.

Dr. Anil also conducted a workshop on **“How to Develop New Drug”**.

Date: 4th March 2014 (Day 10)

Dr. (Mrs.) S. J. Rajput, Professor, Department of Pharmaceutical Sciences, MS University, Vadodara

Dr. (Mrs.) Rajput came 2nd time after 2012 to conduct exam at Research Week. She appreciated the efforts of GTU for continuous monitoring of research work done by master and Ph D students and she mentioned that this innovative practice is not in any of the Universities in India.

Today she has evaluated 10 M. Pharm students and mentioned that two student's work was excellent. To achieve the objective of Research week, she mentioned that access to latest E-Journals is essential component and University has to develop central facility for E- library.

She has also conducted a workshop on **“Application of QbD concepts for analytical method development”**.

Mr. Tarun J. Patel, Asst. Manager (F & D), Amneal India Pvt. Ltd., Ahmedabad

Mr. Tarun appreciated the concept of Research Week initiated by GTU to check the progress of research done by Master and PhD students. He mentioned that inviting industrial experts at this juncture will provide a platform to students to understand current industry requirements.

He has evaluated 10 M. Pharm students and observed that one of the student's project work was excellent and patentable too. He suggests that such efforts to invite industry experts should also be done before selection of research projects, so that students can select the projects, which are in need by industry. He suggested that University can organize a series of workshops in this regard to get maximum outcome at the end of research projects.

He has also conducted a workshop on **“MUPS technology & Processing”**.

Date: 5th March 2014 (Day 11)

Dr. S. Y. Gabhe, Professor of Analytical Chemistry, Pune University, Pune

This is Dr. Gabhe's 3rd 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 10 M. Pharm students and expressed that some of them have really done 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 mentor 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 "**QbD and Process Standardization**".

Dr. V. K. Mourya, Principal, Government Pharmacy College, Amravati, Maharashtra

This is Dr. Mourya's first visit to GTU. He mentioned that this is really a unique approach adopted by GTU to strengthen Pharmacy Education and Research. He admires the vision of **Hon'ble Dr. Akshai Aggarwal**, VC of GTU to see that GTU becomes world class University.

He is to review the work of M. Pharm students tomorrow.

He has conducted workshop on "**IVIVC**".

Date: 6th March 2014 (Day 12)

Dr. V. Gopal, Professor, Government College of Pharmacy, Pondicherry



This is the 3rd Research Week Dr. V Gopal is attending at GTU. Dr. V Gopal evaluated 8 M. Pharm Students on 6th March 2014. Talking about the concept of GTU Research week Dr. V Gopal said that it is an excellent concept. Works of 70 % students were really good while 30% need to still improve. But here guides also play a very important role. Some of the guides are scientific and good while some of them are not. 6 of the students were working on excellent topics while the rest were not nice and I have suggested alternatives to them as I can change their topics now.

Else, overall the documentation done is very good. But I suggest if the previous reviews and work of students is sent to the evaluator before they can give much better suggestions to students as they get time to think as to in which direction this project can be taken further. Else the review format is good but I believe SWOT analyses should be the part of it so that the students are aware of all the aspects of the research they are doing. Sometimes students have done the good work but they are not able to present it well or fail to argue despite knowing facts. SWOT analyses can help in such situations.

Dr. V Gopal also conducted a workshop on “**A Win-Win Policy for all stakeholders of herbal medicine**”

Dr. Navin R. Sheth, Professor & Head, Department of Pharmaceutical Science, Saurashtra University, Rajkot



This is the 1st Research Week Dr. Sheth is attending. He said that I really appreciate the concept of Research Week. University is doing really well and now it is the time that students should also understand the importance of this exercise and be more active in the field of Research. Concept of PSAR for

M. Pharm students is really good. Talking about the work of students he said that except the work of 1 student remaining topics were conventional. It has no commercial value and they are good for academic purpose only. Topic of one of the students was really good and I think she can also file a patent in future. She was mentored by Dr. Mamta B. Shah and I believe her mentoring was quite good in this case. Mentoring is very important. Students are quite enthusiastic and they need proper guidance only.

Dr. Sheth also conducted a workshop on **“Research in Pharmacology Problems & Opportunity”**

Dr. K. N. Bhat, Professor & Head, Pharmaceutical Quality Assurance, Manipal University, Karnataka



Dr. Bhat has come to GTU Research Week for the first time. He reviewed 14 students of M. Pharm. He said that the documentation process here is really good and concept of PSAR is excellent. Dr. Bhat found the work of students moderate. About the review method he suggested that GTU is able to take some great steps to make the evaluation process online where the entire database of previous reviews and current reviews and marks are uploaded. Students can share their online reviews with the people across the world to take further help with a login ID. Same way the faculties also can log in and review the work of students and post comments at any time. This will also reduce the risk of manipulation and create a very transparent system. If online updates are not possible the university can also upload the data offline for further references. At Rajiv Gandhi University of Health Science a system is developed where reviewers have to upload the scores within two hours of completion of examination.

Dr. Bhat also conducted a workshop on **“Writing a Good research Paper”**

Dr. P. K. Puranik, Professor, Nagpur University, Nagpur

This is the 1st Research Week Dr. Puranik is attending. He evaluated 10 M. Pharm students. He said that the concept of Research Week is Excellent. He said that out of the 10 students evaluated, 4 had done a very good job, 4 had done a relatively good job but 2 were really poor. It is difficult to make out a reason of poor performance as we don't know whether they were not good in defense or their mentoring was not proper or the topic was not current. PSAR study concept is good but it has limitations. University should organize an exhibition where students showcase their work on poster form and reviewers can select a few unique projects that can be sent to patent attorney to file patents.



Dr. Puranik also conducted a workshop on “**Nanocarriers: Phytosomal Drug Delivery System**”

4. ANALYSIS OF FEED BACK GIVEN BY EXPERTS DURING RESEARCH WEEK -2014

GTU has organized Research Week-2014 for Pharmacy during 20th February to 6th March 2014. During these days, total 1,612 M. Pharm students and 71 PhD students have been reviewed. To do evaluation during these days, total 303 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

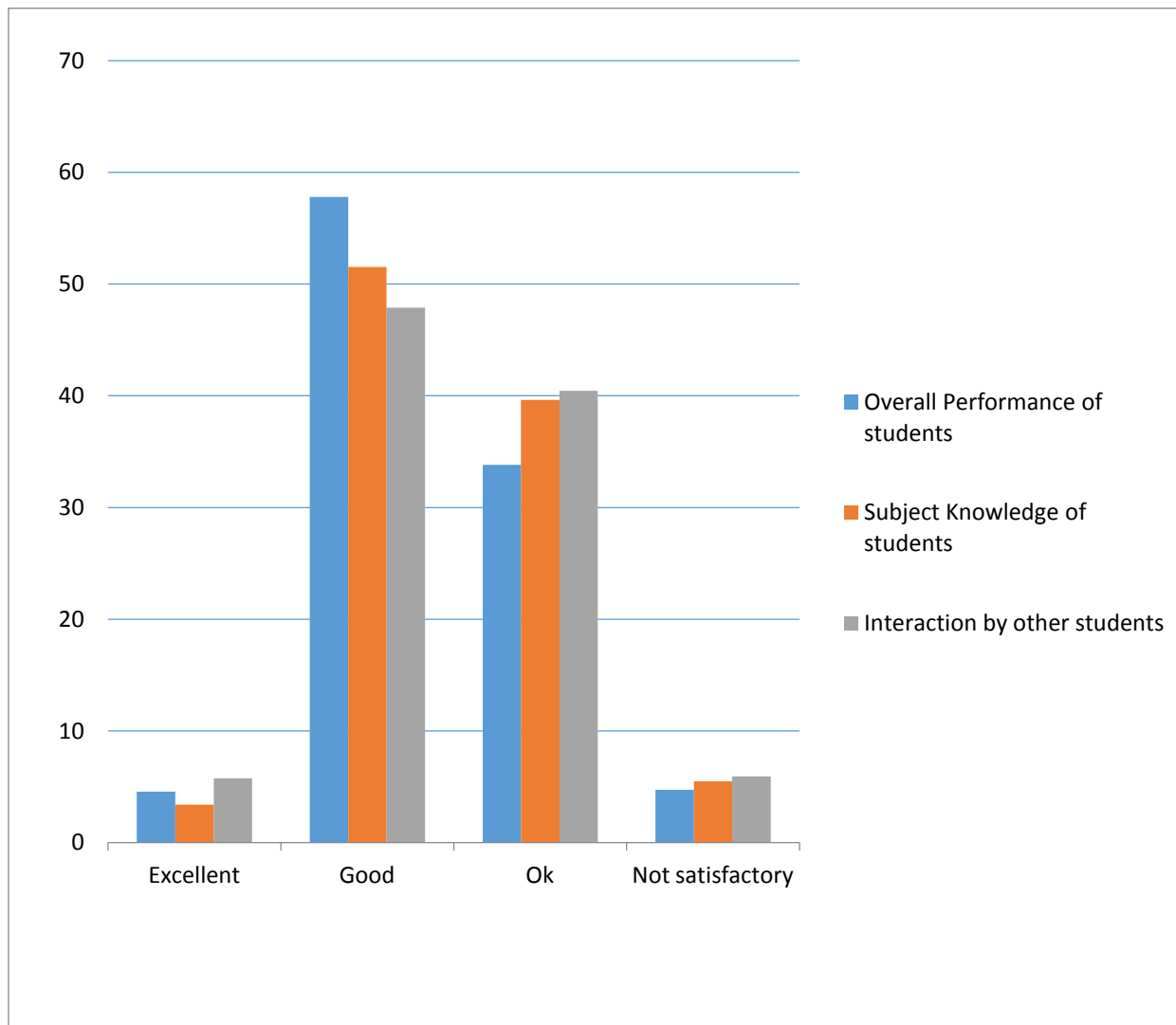
[C] General category

Feedback forms of total 303 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 -2014

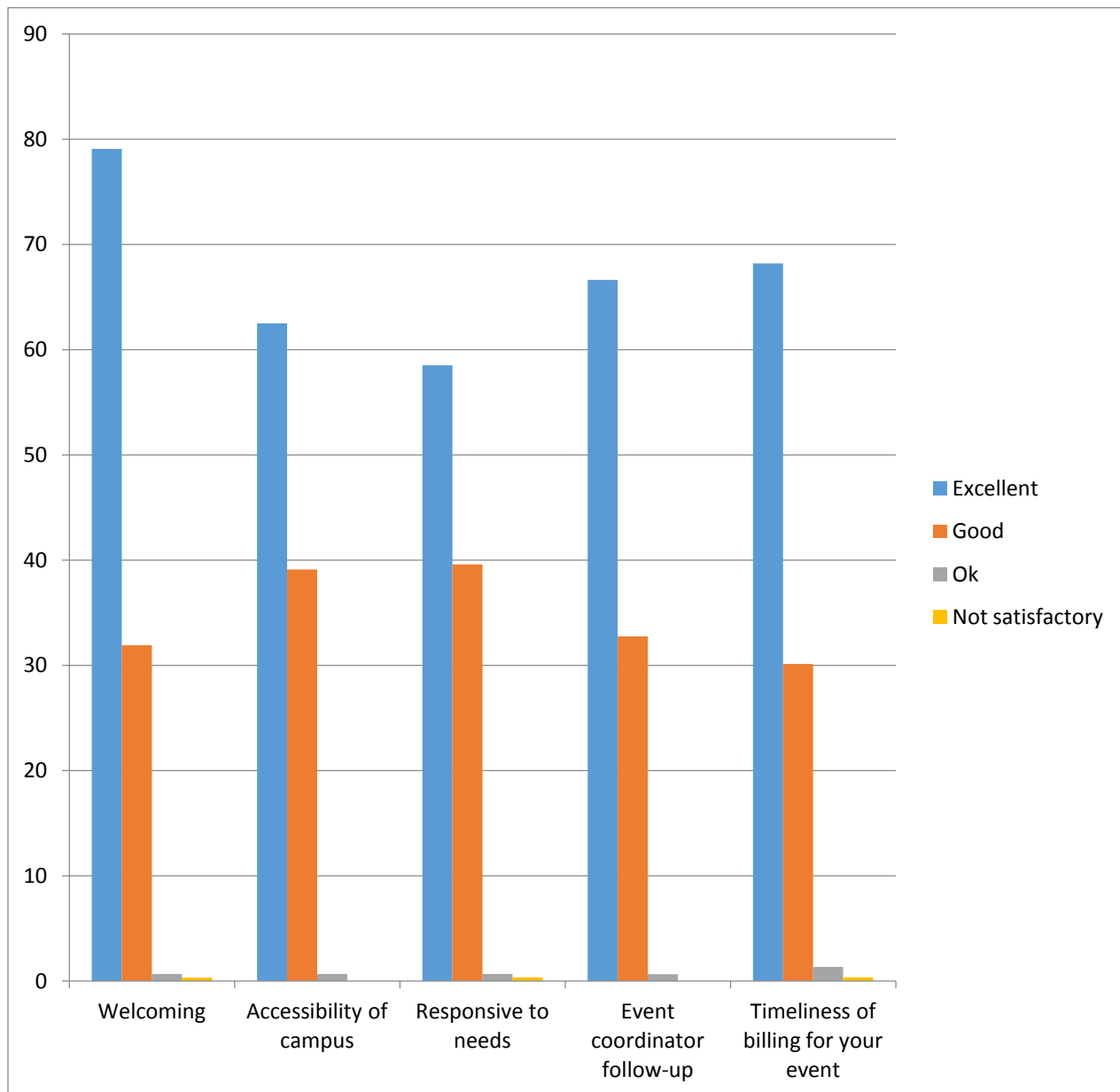
(20th February 2014 to 6th March 2014)



NB: 1) Y axis denote % for respective parameters

2) Response of 303 experts who came during 20th February to 6th March is combined over here to do analysis.

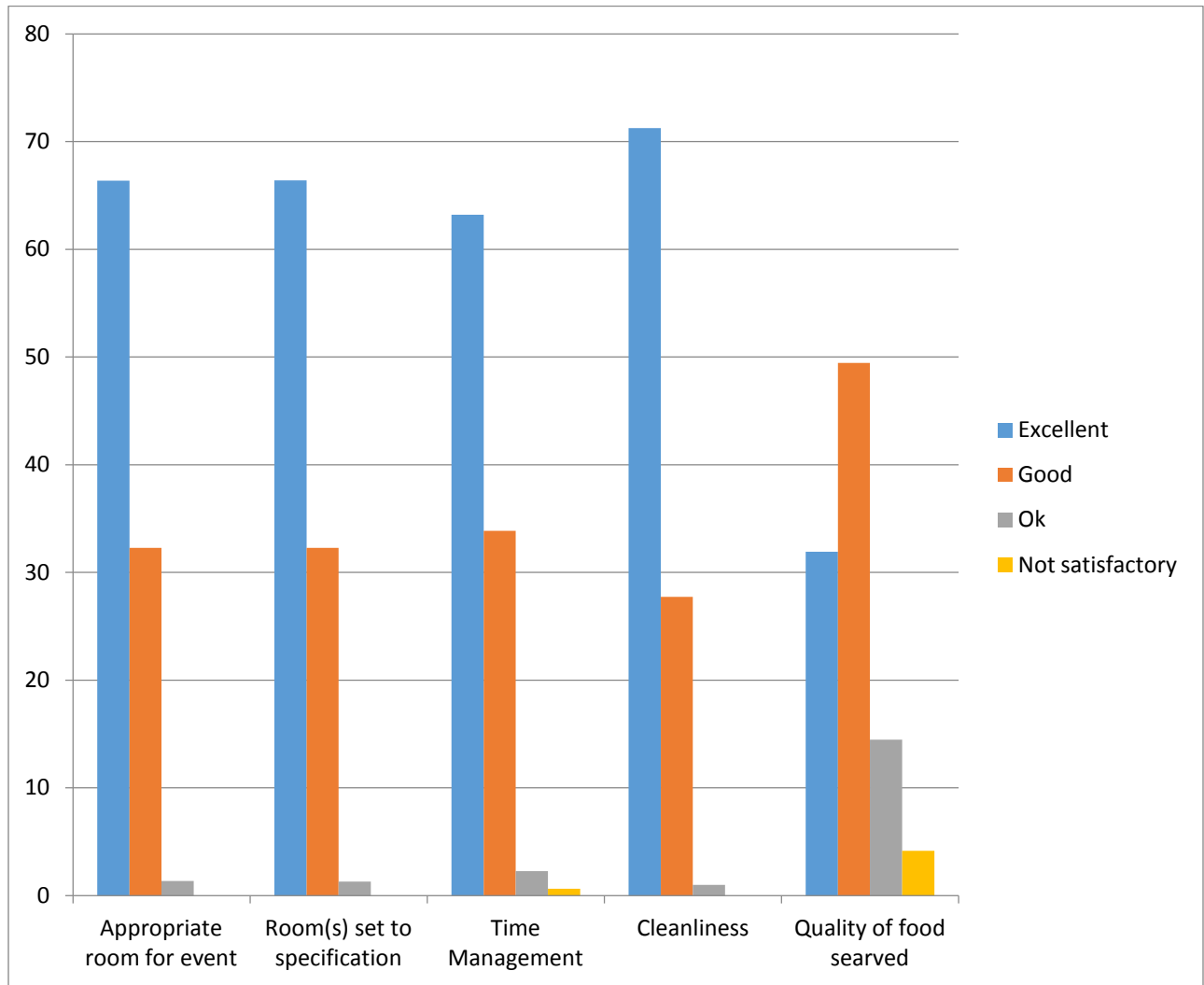
**[B] Experts Feedback for ADMINISTRATIVE aspects for
Pharmacy Research Week -2014**



NB: 1) Y axis denote % for respective parameters

2) Response of 303 experts who came during 20th February to 6th March is combined over here to do analysis.

[C] Experts Feedback for GENERAL aspects for Pharmacy Research Week -2014



NB: 1) Y axis denote % for respective parameters

2) Response of 303 experts who came during 20th February to 6th March is combined over here to do analysis.

5. COMMENTS/ REMARKS/ SUGGESTIONS OF EXPERTS GIVEN DURING PHARMACY RESEARCH WEEK-2014

Student should present to their own research group before presenting in the exam session for better performance. – **Dr. Vasu Appanna**, Laurentian University, Canada

A good and unique initiative should be continued and proper follow up of the comments should be ensured to maintain standards. – **Dr. Shailendra Saraf**, Global Pharmacy College, Bhopal, MP.

The review of research work is very essential. This is a very good work done by any university. I must congratulate the University for doing such a good work. Keep doing. – **Dr. Viresh Virapur**, Tumkur, Karnataka

PSAR report is good initiative done by GTU. GTU in future can provide with such more initiative. – **Dr. Prafulla Sable**, Nagpur, Maharashtra

Title of the Ph. D & M. Pharm project may be sent before exam by e-mail. PSAR is one of the good practices. – **Dr. K. Shreedhara R. Pai**, Manipal University, Karnataka

University should provide standard referencing style and literature review done by the students. - **Dr. Sunita Dahiya**, Bhopal

Good effort by GTU. GTU is role model for other Universities. The topic of students should be informed in advance. – **Dr. S. G. Vashantharaju**, Manipal, Karnataka

All the arrangements were good. Some students are really brilliant on an average but some require basic knowledge. - **Prof. P. K. Puranik**, Amravati University, Maharashtra.

Please try to keep 1 - 2 work shop on research methodology & reference writing style & different research area for students in pharmacy. – **Dr. Vijay D. Wagh**, Sirpur, Maharashtra

External examiners need to be informed well in advance about their confirmation by University. This enables them to plan the travel. – **Dr. K. Manjunath**, Siddhganga College of Pharmacy, Karnataka.

PSAR concept is good. Student will definitely be benefited by it but proper implementation of PSAR is missing. Proper guidance should be given to students in colleges by guides regarding those patent search. – **Dr. Nirav Patel**, Saurashtra University, Rajkot

GTU has done good work by classifying exam according to topic & expert knowledge. Very good work and support. – **Dr. Hitesh Patel**, Ganpat University, Mehsana

Providing payment to examiner at hall side itself is really a good practice. – **Dr. Falgun Mehta**, Indukaka Ipcowala College of Pharmacy (213), VV Nagar

As all the similar topics are brought under one umbrella, it is convenient for the examiners to evaluate the same. - **Mrs. Vidhya Sabale**, Baroda College of Pharmacy (215), Waghodia, Vadodara.

Honb. VC sir's address on Inaugural day was inspiring and reflecting the GTU and its official commitment to improve quality of teaching (Research not only to meet the need of testing times for improve profession but to enable the University) to emerge as a leading institute of repute.- **Dr. J. B. Dave**, Director (PG), Sarvajanic Pharmacy College (245), Mehsana

Very poor hot tea in cold condition. Breakfast was unchewable, hopeless. – **Dr. B. N. Suhagia**, DDIT, Nadiad

Catering service poor, unhygienic, food not up to the mark. – **Dr. D. R. Shah**, Dean, Faculty of Pharmacy (GTU) and Provost, UkaTarasadia University, Bardoli.

Make planning in such a way so that students of one college should be on one day. All teachers of an institute cannot come multiple times if students are scattered on different days. – **Dr. Dushyant Shah**, Principal, APMC College of Pharmacy (207), Himmatnagar.

There was frequent electricity break down. So make provision for electricity back up in next exam. – **Dr. R. K. Parikh**, LM College of Pharmacy, Ahmedabad.

Food quality is very poor. Also make provision for power back up. – **Dr. C. N. Patel**, Dean, Faculty of Pharmacy (GTU), Principal, Sarvajanic Pharmacy College (245), Mehsana.

ITD should be incorporated in M. Pharm (Sem II) instead of Sem III, so that students get enough time to do quality research work. – **Dr. G. K. Jani**, Principal, Sylvassa Pharmacy College, Sylvassa.

Incorporate PSAR in the phase of ITD and not in the phase of Mid Sem Review. – **Dr. Rajesh Patel**, KJ College of Pharmacy (257), Vadasama.

6. MEDIA COVERAGE OF PHARMACY RESEARCH WEEK-2014



જમ્પસુ આયોજન કરાયું હતું.
ફોટો: સુરેશ મિસ્ત્રી

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એલ.ડી.માં અલગ અલગ ફિલ્ડની મહિલાઓ આપશે સ્પીચ

ના રીને આપણી ભારતીય સંસ્કૃતિમાં નારાયણીનું સ્વરૂપ કહેવામાં આવ્યું છે. લેડી ફર્સ્ટના સિધ્ધાંત હેઠળ આજે દરેક ભારતીય સમાજમાં સ્ત્રીઓને આદરની ભાવાનાથી જોવામાં આવે છે. સ્ત્રી પણ આજે દરેક ક્ષેત્રમાં પુરૂષ સમોવડી બનીને દરેક ક્ષેત્રમાં પોતાનું ભગીરથી યોગદાન આપી રહી છે. એલ.ડી. એન્જિનિયરિંગ કોલેજના ગુગલ સ્ટુડન્ટસ ક્લબ અને ઈ-ચાય વેન્ચર દ્વારા આજે ઈ ચાય વુમન ઈન બિઝનેસ હેઠળ એક વ્યાખ્યાનમાળાનું આયોજન કરવામાં આવ્યું છે. જેમાં વિવિધ ક્ષેત્રમાં સ્ત્રી હોવા છતાં પોતાના કામ થકી ઝંઝા લહેરાવ્યા હોય તેવી તેજસ્વી મહિલાઓના લેક્ચરના પ્રોગ્રામનું આયોજન એલ.ડી કેમ્પસ ખાતે યોજવામાં આવ્યું છે. જેમાં પોતાના જીવનમાં કઈ રીતે તેઓ સ્ટ્રગલ કરીને આગળ આવ્યા હોય તેની સક્સેસ સ્ટોરી ટેલિંગનું આયોજન કરવામાં આવ્યું છે.

જીટીયુના રિસર્ચ વર્ક કેનેડીયન સ્ટાન્ડર્ડ પ્રમાણે છે

ગુ જરાત ટેકનોલોજીકલ યુનિવર્સિટી દ્વારા પી.એચ.ડી અને એમ.ફાર્મ.ના અંતિમ વર્ષના સ્ટુડન્ટસના ટીસિસ મુલ્યાંકન માટે રિસર્ચ વીકનું આયોજન કરવામાં આવ્યું હતું જેમાં વિદેશની ૨ અને ગુજરાત બહારની ૧૦ યુનિવર્સિટીના ગુજરાતની અન્ય યુનિવર્સિટીઓના ૪ તથા જીટીયુના ૩ સહિત ૨૯ તજજ્ઞ ઉપસ્થિત રહ્યા હતા. જીટીયુના રિસર્ચ વીકમાં ભાગ લેવા કેનડાના લોરેન્શીયન યુનિ. ના ડીન અને ડૉ એબડલ ઓમરી ખાસ ઉપસ્થિત રહ્યા હતા. આજે સ્ટુડન્ટસમાં થિયરી બેઝ નોલેજ વધારે હોય છે પણ પ્રેક્ટિકલ નોલેજનો અભાવ હોય છે. જેને પ્રોત્સાહન આપવા માટે આપણે સ્ટુડન્ટસને રીસર્ચ તરફ વાળવાની જરૂર છે જેના ઉપર ખાસ ભાર આપવાના હેતુથી જીટીયુ ખાતે આ રિસર્ચ વીકનું આયોજન કરવામાં આવ્યું હતું. આ વર્ષના રિસર્ચ વીકમાં

જીટીયુના રિસર્ચવર્કમાંથી ઘણા બધા રિસર્ચ વર્ક કેનેડીયન સ્ટાન્ડર્ડના છે. સ્ટુડન્ટસ પ્રેઝન્ટેશનની પેટર્ન અને ટોપિક્સ પણ ઘણા મજબૂત આવે છે. જે જીટીયુના સ્ટુડન્ટસનું સ્ટાન્ડર્ડ ટેખાડે છે. જે તેને જાળવી રાખવી જોઈએ.
- ડૉ.વાસુ અપર્ના, ડીન, કેનડાના લોરેન્શીયન યુનિ



કેનેડામાં ખાસ રિસર્ચ ડે નું આયોજન કરવામાં આવે છે. જ્યાં સ્ટુડન્ટસ પોતાના રિસર્ચ કાર્યનું પોસ્ટર ફોર્મમાં પ્રેઝન્ટેશન કરે છે અને વિવિધ તજજ્ઞો સ્ટુડન્ટસના કાર્યનું મુલ્યાંકન કરે છે. આ મુલ્યાંકન પ્રથમ વડે તેમને ગ્રોથ વધે છે.
- ડૉ.એબડલ ઓમરી, લોરેન્શીયન યુનિ



ગુજરાત ટેકનોલોજીકલ યુનિવર્સિટીના રિસર્ચ વર્કમાં ફોરનથી એક્સપર્ટ આવ્યા

જીટીયુ દ્વારા એમ. ફાર્મ. ફાઈનલયરના સ્ટુડન્ટસ માટે સર્ચ એન્ડ એનાલિસિસ રિપોર્ટ તૈયાર

કરવાનો ફરજિયાત બનાવવામાં આવ્યું છે. સ્ટુડન્ટમાં રિસર્ચ સબજેક્ટને લઈને નવિનતા જોવા મળે અને કોઈ એક રિપોર્ટ પર રિપિટ વર્ક ન થાય તેવા ઉદ્દેશ્ય સાથે રિસર્ચ વીકનું આયોજન કરાયું છે. એન્જિનિયરિંગના સ્ટુડન્ટસને પ્રક્ટિકલ થિંકિંગ કરતાં થાય અને પોતાના વર્કને લાઈવ ડેમોન્સ્ટ્રેશન પોતાના વર્ક અને એક્સપર્ટ કરે તે હેતુ રાખવામાં આવ્યો છે.

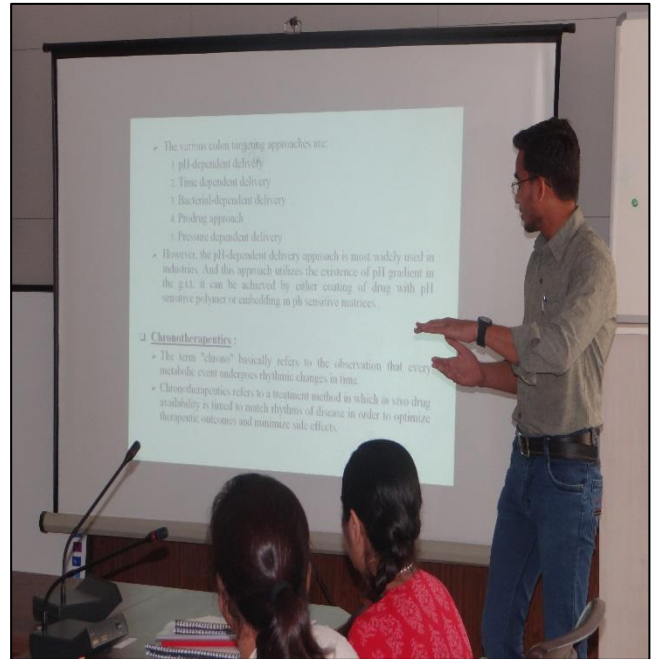
Pray Samachar Plus 5/31/14

7. PHOTO GALLERY OF RESEARCH WEEK – 2014





Mid Semester Review Presentation by students during RW-2014





Felicitation Of Experts During RW- 2014













8. LIST OF ORGANIZING COMMITTEE MEMBERS

Honb. Dr. Akshai K. Aggarwal

(Vice Chancellor, GTU)

Dr. G. P. Vadodaria

(I/c Registrar)

Shri. J. C. Lilani

(I/c Controller of Examination)

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. Alamas Juneja
- 2) Mr. Dhaval Gohil
- 3) Mr. Gopal Bhatt
- 4) Mr. Vivek Joshi
- 5) Mr. Anil Tiwari

Media Section: Ms. Bhavita Shukla

Store Section: Ms. Pinki Panchal

Special invited member: Dr. M. T. Chhabria

Faculty of Pharmacy at GTU

- 1) Dr. Manish A. Rachchh
- 2) Shri Pankajkumar Bayati
- 3) Ms. Anal Shah
- 4) Ms. Hetal Mehta
- 5) Mr. Neeraj & 6) Ms. Roochi

Account Section

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

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