Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa

Curriculum feedback analysis and action taken report
Academic Year: 2015-2016

Stake holder	No of feedback received	% feedback analysis	Major concerns	Action taken
Students	55	80	The curriculum should prepare the students for all sorts of career options, academic or outside academia.	Choice based credit system was incorporated to make the students ready for the career options of their choices. (Annexure-I: Minutes of 17th joint meeting of Board of Studies and Faculty Board)
Alumni	63	81.19	The curriculum should show relevance to the real life situation and it should include training/ project component.	The curriculum offered various elective courses at institute as well as university level, both with a small practical/project component. (Annexure-II: Scheme of Teaching and Evaluation)
Employers	4	85.05	No major concern was shown by the employers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Teachers	5	87.80	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Parents	28	83.6	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

17

Annexure-I: CBCS Implementation for B. Pharm and M. Pharm all programs

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY (CHARUSAT)
JOINT MEETING OF BOARD OF STUDIES IN PHARMACY & FACULTY BOARD OF PHARMACY

Date: 24/08/2016 **Time: 10:30 a.m.**

Place: RPCP Conference room

MINUTES

Members Present (Enclosure I)

1	**Dr.Anuradha Gajjar**	Chairperson for the joint meeting of Board of Studies in Pharmacy & Faculty Board of Pharmacy (Dean, Faculty of Pharmacy)
2	**Dr. Manan Raval**	Member - Faculty Board of Pharmacy and Chairperson –Board of Studies in Pharmacy
3	**Dr. Gaurang B. Shah**	Member -Board of Studies in Pharmacy
4	**Dr. M.T. Chabaria**	Member -Board of Studies in Pharmacy
5	**Dr. Samir Patel**	Member -Board of Studies in Pharmacy
6	**Ms. Payal Shah**	Member -Board of Studies in Pharmacy
7	**Ms. Jalpa Suthar**	Member -Board of Studies in Pharmacy
8	**Dr. Vijay Parmar**	Special Invitee
9	**Dr. Gayatri Patel**	Special Invitee

Following members could not attend the meeting due to their other preoccupations:

10	**Dr. R.S.R. Murthy**	Member - Faculty Board of Pharmacy
11	**Dr. S.B. Roy**	Member - Faculty Board of Pharmacy
12	**Mr. Bhavesh Patel**	Member -Board of Studies in Pharmacy & Faculty Board of Pharmacy
13	**Prof. A.N. Misra**	Member -Board of Studies in Pharmacy
14	**Dr. Dushyant R. Patel**	Member -Board of Studies in Pharmacy
15	**Mr. V.S. Patel**	Member -Board of Studies in Pharmacy
16	**Dr. N.R. Sheth**	Member -Board of Studies in Pharmacy & Faculty Board of Pharmacy

Item No. 17.1 *To approve the minutes of Joint Meeting of Board of Studies and Faculty Board of Pharmacy, circulated through e mail, dated 12/04/2016*

Proceedings

Minutes of last submission to the board members vide e mail, and the minutes of that circulation, were read by Dr. Manan Raval in meeting. The Chairperson invited suggestions from the members present. There were no suggestions.

Resolution:

Minutes of the meeting convened through circulation were confirmed.

Item No.17.2 *To review and recommend syllabus of courses to be offered by Faculty of Pharmacy as University Level Electives to PG students of CHARUSAT*

Proceedings

The Chairperson briefed the members that, different faculties of CHARUSAT have proposed University Level Electives for PG students, which were recommended by

their respective boards. The same were reviewed with syllabi collectively (across the university) and Faculty of Pharmacy was requested to submit new University Level Electives. The following two University Level Electives, to be offered by Faculty of Pharmacy to PG students are proposed.

Semester	Course Code	Title of Course	Syllabus Drafted By
1st	PH825	Community Pharmacy Ownership	Dr. Jalpa Suthar, Asst. Prof, Dept of Pharmacology and Clinical Pharmacy, RPCP
2nd	PH826	Intellectual Property Rights	Dr. Samir Patel, Assoc. Prof, Dept of Chemistry and Pharm. Analysis. RPCP

Following suggestions were received from the members of the Boards:

Sr. No.	Course (No. ,	Suggestion from	Suggestion/Comment
1	PH825, Community Pharmacy Ownership	Dr. G.B. Shah	Incorporation of more components of pharmacy practice regulation
2		Dr. M.T. Chhabria	This course may not attract engineering students although few students of Nursing & Physiotherapy may be interested.
3	PH826, Intellectual Property Rights	Dr. Anuradha Gajjar	Chapter on Case Study may be taken up as a part in pedagogy and so the syllabus may contain three topics.

Resolution:

The Board recommended the scheme of teaching, scheme of evaluation and syllabus of elective courses to be offered in 1st and 2nd Semester of Post Graduate programmes under different faculties of CHARUSAT as per Enclosure II.

Item. No.17.3. *To review and recommend altered scheme of teaching of M.Pharm programme*

Proceedings

Dr. Anuradha Gajjar explained to the members about total credits of PG programme offered by Faculty of Pharmacy was higher when compared to those with PG programmes offered by other faculties in CHARUSAT. There was an attempt to reduce the total credits of the programme with minimum alteration in the existing structure of approved scheme of teaching and evaluation. This was done by reduction in the credits of dissertation components.

The members were also briefed about the need of changing the course code of existing courses, in newly implemented CBCS, to attain similarity with courses of other faculties in CHARUSAT.

The members suggested the need of adopting the uniform and documented methodology for continuous assessment of dissertation work by internal evaluator. The Dean- Faculty of Pharmacy accepted the suggestion along with other suggestions of members, including exploring the possibility of issuing the laboratory note to the students working for dissertation and evaluation of students performance and learning

by the internal evaluator on the basis of pre set learning attributes.

Resolution:
It was resolved to reduce the credits allocated to dissertation courses in semester 3 and in semester 4 of all postgraduate programmes offered by Faculty of Pharmacy. The course common to all postgraduate programmes PH 824.01 Scientific Communication was discontinued from existing scheme of teaching and evaluation for all post graduate programmes.

The course codes of all the courses have been changed.
Altered scheme of teaching and evaluation for different post graduate programmes to be offered by Faculty of Pharmacy is attached as Enclosure III.

Item. No.17.4 *To review and recommend altered scheme of teaching of B.Pharm programme*

Proceedings
The Chair person briefed the members about guidelines of UGC for implementation of CBCS. After considering the guideline, current credit allocation to the practical component had to be reduced to half of the existing, which might create the total credits of semester in decimal digit. To make sum of the digits of credit an integer for each semester of B.Pharm programme, few practical courses were allocated 2 credits and few were allocated 1 credit. Credits for tutorials in courses offered by Department of Mathematics were proposed to be discontinued.

Resolution:
The Members of the Boards were of the opinion that, the reduction in the credits of practical components as compared to theory courses, might affect the importance of practicals. The altered scheme of teaching of B.Pharm programme was recommended to Academic Council (Enclosure IV). However, the members have recommended that in the next major revision in B.Pharm structure, care should be taken to have due weightage/ number of credits for practical courses.

Item. No.17. 5 **To discuss the new pedagogy adopted at RPCP**

Proceeding:
Dr. Manan Raval briefed the members about the new pedagogy adopted at RPCP by faculty members, as in Enclosure V.

Resolution:
The Members of the Boards appreciated the enthusiasm of the faculty members and suggested to evaluate the effectiveness of these new methods in learning enhancement through appropriate approaches.

Item. No.17. 6 **To review and discuss the result analysis of B.Pharm programme**

Proceeding and Resolution:
Dr. Anuradha Gajjar introduced the members to new format of result analysis (Enclosure VI). She stressed up on the need of the detailed analysis as well as need of evaluating the data comparatively each time with past data.
The members noted the result analysis and accepted this new approach of presenting and comparing the result analysis to ascertain the improvement in result of university examinations.

Item. No.17. 7 To review and discuss – Quality of Question Papers of University Examination

Proceeding and Resolution:

1. Question Papers of all courses of 1st to 8th Semester of B.Pharm Programme of Academic Year 2014-15 and Academic Year 2015-2016 to be assessed for quality by Subject Expert. A questioner was prepared for the purpose.
2. Dr. M.T. Chhabria assessed question papers of Pharmaceutical Chemistry and Analysis Department, Dr.B.G.Shah evaluated question papers of Pharmacology and Clinical Pharmacy Department.
3. It was proposed that Dr.N.R.Sheth would be requested to evaluate question papers of Pharmacognosy Department.

As external subject experts from the discipline of Pharmaceutics were not present in the meeting, members of the board authorized the Dean- Faculty of Pharmacy to get them assessed by identifying appropriate experts. The Board resolved to submit comprehensive report to the university.

Item. No.17. 8 To approve Panel of Examiners for different programmes offered by Faculty of Pharmacy

Resolution:

It was resolved to approve the proposed Panel of examiners for different courses of B. Pharm. programme, M.Pharm. programme (Pharmaceutical Technology, Quality Assurance, Pharmacology, Clinical Pharmacy and Pharmaceutics: (Drugs Regulatory Affairs) and Certificate Programme (Certificate Programme in Cosmetic Technology and Certificate Programme in Packaging Technology). The panel of examiners was submitted to Deputy Registrar – CHARUSAT (Exam) separately.

Item. No.17. 9 To review and recommend Programme Educational Objectives [PEOs] for B.Pharm programme

Proceeding and Resolution:

The members reviewed and recommended the Progrmme Educational Objectives, prepared by the group of the faculty members after considering the Mission Statement of the Institute as well the university as CHARUSAT. They also considered the Graduate Attributes proposed by the NBA, while drafting PEOs. (Enclosure VII). The members reviewed the PEOs and recommended the same.

Item No.17.10

1 Approval of the Synopsis submitted by Research Scholar Mr. Umang Shah
Title of the thesis to be submitted is "Design, Synthesis and Biological Evaluation of Some Heterocycles as Non Steroidal Aromatase Inhibitors"
Research Supervisor: Dr. Samir Patel, Associate Professor – Pharma. Chem. and Analysis, RPCP, CHARUSAT and review of the Panel of Examiners suggested by the Research Supervisor

2 Approval of the Synopsis submitted by Research Scholar Ms. Gopi Shah
Title of the thesis to be submitted is " Development of Hepatotoxicvity Model in Rats and Its Application in Evaluation of Hepatopretctive Activity of Cell Wall Contents of Probiotics"
Research Supervisor: Dr. B.G.Patel, Provost –CHARUSAT and review of the Panel of Examiners suggested by the Research Supervisor

3 Approval of the Synopsis submitted by Research Scholar Ms. Gopi Shah
Title of the thesis to be submitted is "Oral Bioavailability Enhancement of

3 Approval of the Synopsis submitted by Research Scholar Ms. Gopi Shah
Title of the thesis to be submitted is "Oral Bioavailability Enhancement of Ganciclovir Through Polymeric Nanoparticles Development and Use of Permeation Enhancer"
Research Supervisor: Dr. Balaram Gajra, Former Assoc. Prof –CHARUSAT. Co Supervisors 1. Dr.R.H.Parikh, Former Prof and Principal – RPCP, 2. Dr.Gayatri Patel, Assoc. Prof. Pharmaceutics Department, RPCP and review of the Panel of Examiners suggested by the Research Supervisor

Resolution:

1. ***The Board Members reviewed the synopsis submitted by Mr. Umang Shah, Ms. Gopi Shah and Ms. Rutu Patel and recommended for further processing.***

2. ***The Dean of the Faculty revealed the panel of the examiners suggested by respective Research Supervisor/s for Evaluation of the thesis. The Board Members approved the panel submitted by the Research Supervisor. The panel of examiners would be submitted to Deputy Registrar – CHARUSAT (Exam) separately.***

Item No.17.11 Any other matter with the permission of Chair Person

1 To review revised syllabus of courses offered by Department of Mathematics to B.Pharm programme

Proceeding and Resolution
Department of Mathematics offers three courses to B.Pharm programme. Board of Studies of Department of Mathematics recommended the revision in two courses offered by the department to B.Pharm students in 1st and 2nd Semester B.Pharm (Enclosure VIII).
The board members reviewed the courses and found them competent enough for B.Pharm students

2 To explore the possibility of altering existing course PH 421 Environmental Sciences to be replaced with common course of CL 141Environmental Science

Proceeding and Resolution:
UGC made it compulsory to introduce a course on Environmental Science for undergraduate programme. A course has been introduced for B.Pharm programme. CHARUSAT requested to explore scope of incorporation of general course CL 141 Environmental Science (Enclosure IX) to B.Pharm programme as replacement of this course.

The members reviewed the content of the course and found the structure of the course to be general type instead more inclined towards engineering side. They were of the opinion that the components of Pharmaceutical Sciences and their impact on environment with approaches adopted by Pharmaceutical plants to minimize environmental damage should be present in syllabus for pharmacy students. It was advised not to alter the course PH421 Environmental Sciences.

The meeting concluded with vote of thanks.

Dr. Manan Raval
Chairperson
Board of Studies in Pharmacy
CHARUSAT

Dr.Anuradha Gajjar
Chairperson
Faculty Board of Pharmacy
CHARUSAT

(Dr. AnuradhaGajjar)
Chairperson- Joint Meeting

Enclosu

Enclosu

Ramanbhai Patel College of Pharmacy
Charotar University of Science & Technology
Joint Board of Faculty Board of Pharmacy & Board of Studies in Pharmacy

---

SIGNATURE SHEET

DATE: 24/08/2016

TIME: 10.30 a.m.

Venue: Conference Room, Ramanbhai Patel College of Pharmacy, Changa

Sr. No.	List of Members	Designation	Signature
1.	Dr. Anuradha Gajjar	Chairman for the Faculty Board of Pharmacy Internal Member for the Board of studies in Pharmacy.	
2.	Dr. N. R. Sheth	External Member for the Faculty Board of Pharmacy External Member for the Board of studies in Pharmacy	
3.	Mr. Bhavesh Patel	External Member for the Faculty Board of Pharmacy External Member for the Board of studies in Pharmacy	
4.	Prof. A.N.Misra	External Member for the Board of studies in Pharmacy	
5.	Dr. M.T.Chabaria	External Member for Board of studies in Pharmacy	24.8.16
6.	Dr. Gaurang.B.Shah	External Member for the Board of studies in Pharmacy	
7.	Dr. Dushyant.R.Patel	External Member for the Board of studies in Pharmacy	
8.	Mr. V.S.Patel	External Member for the Board of studies in Pharmacy	
9.	Dr. Manan Raval	Internal Member for the Faculty Board of Pharmacy Chairmen for the Board of studies in Pharmacy	
10.	Dr. Samir Patel	Internal Member for the Board of studies in Pharmacy	
11.	Ms. Payal Shah	Internal Member for the Board of studies in Pharmacy	
12.	~~Ms.~~ Dr. Jalpa Suthar	Internal Member for the Board of studies in Pharmacy	
13.	Dr. Gayatri Patel	Special Invitee- Joint Meeting of Board of studies and Faculty Board of Pharmacy, RPCP	
14.	Dr. Vijay Parmar	Special Invitee- Joint Meeting of Board of studies and Faculty Board of Pharmacy, RPCP	

Semester-I

Encl-II

Community Pharmacy Ownership (Elective) (PH825)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the Course

Community pharmacy is concerned with promoting the safe and appropriate use of drugs and common medical devices.

Ownership concept in Community Pharmacy is required to create for the effective delivery of pharmacy services in an regulated environment in which the nature of pharmacy is clearly evolving from the supply of goods (pharmaceuticals under prescription, pharmacist and pharmacy only medicines, and other goods) to the supply of services designed to support the optimal use of medication as part of a wider health care strategy.

Student Learning Outcomes

At the end of the course, the student will be able to understand

- The concept of Community Pharmacy Ownership and its scope
- Students understand the role of the pharmacist in community and development
- Able to learn skill require to set Pharmacy store & its management

Instructional Methods and Pedagogy:

The content of the syllabus would be transmitted through different pedagogy tools, as follows:

Sr.No	Particular	Hours Allotted
1	Class-room interaction	12
2	Group discussion	05
3	Seminar/Assignment	08
4	Case studies	05

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weight age %
1	Introduction to Community pharmacy	12	40
2	Community Pharmacy Management	08	27
3	Pharmacy Business Plan	10	33
	Total	30	100%

Detailed Syllabus

Sr no	Unit Details	No. of Hours
1	**Introduction to Community pharmacy**: Roles & Responsibility, relationship with other health care providers, Prescribed medication order interpretation including OTC medicines, Safe use of medical devices, Introduction to Pharmacy Practice regulations 2015	12
2	**Community Pharmacy Management:** discuss role, process and scope of Community Pharmacy Management, modern technologies, financial, material, staff management and Drug store management, Code of ethics for Pharmacy	08
3	**Pharmacy Business Plan:** Creating a Successful Pharmacy Business Plan, Business Owner Roles, Responsibilities, and Management Styles, The Shops and Establishment Act, 1954, Legal, Financial and Accounting Advice for the Beginning Owner, Marketing of Pharmacy Practice	10

References:

1. Mohd. Aquil, Practice of Hospital, clinical & Community Pharmacy Elsevier
2. Paul Rutter, Community Pharmacy E-Book, Symptoms, Diagnosis and Treatment,3rd Edition
3. A Textbook of Clinical Pharmacy Practice: G. Parthasarathi, Karin Nyfort-Hansen and Milap Nahata, Universities Press.
4. A textbook of Forensic Pharmacy by B. M. Mithal.
5. A textbook of Forensic Pharmacy by N. K. Jain, Vallbh Prakashan.
6. Research articles as per the assignment

Semester-II

Intellectual Property Rights (Elective) (PH 825)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objectives of the course:

- To acquaint the students with the basic concepts of Intellectual Property Rights;
- To develop expertise in IPR related issues,
- To sensitize the students with the emerging issues in IPR and the rationale for the protection of IPR, and;
- To explore practical aspects repeated to patenting.

Students Learning Outcomes:

- At the end of the course, the student will be able to understand the fundamental concepts of Intellectual Property Rights which further will be helpful in understanding other advanced aspects of Patent and Trademark applications in various scientific research and innovation.
- At the end student would gain experience in filling and drafting procedure of Patent.

Instructional Methods and Pedagogy:

- The content of the syllabus would be transmitted through different pedagogy tools, as follows:

Sr. No	Particular	Hours Allotted
1	Class-room interaction	15
2	Group discussion	05
3	Case studies	05
4	Practice Session for Patent Drafting	05

Outline of the course:

Sr. No.	Title of Unit	No. of Contact Hours.
1	Intellectual Property Concepts	07
2	Practical aspect of patenting	20
3	IPR related treaties	03

Syllabus Topics:

Sr. No.	Topics	No. of Hours
1	**Intellectual Property Concepts:** • Concept of property, conventional property Vs Intellectual Property • Basic aspect of the 8 different IPR mechanism Viz. Patents, Copyright, trademark, industrial design, layout design of integrated circuits, geographical indicators, plant varieties & trade secrets. • Benefits of IPRs to improve the quality of research work • Strategies for avoiding research duplications, infringements	07
2	**Practical aspect of patenting:-** • **Indian patent act and its recent amendment with respect to following aspect**: Patentable and non-patentable inventions, Essential criteria for filing a patent, Filling a patent in India and abroad, Drafting of patent application • **Patent Filling and Commercialization:** Procedure for patent obtaining in India, National and International Patent Search, Patent Analysis, Patent Drafting and Filling Procedure in India, Patent Specification and Claims, How to right a Claim of Patent, Pre/Post Grant Issues in Patenting, Opposition of Patent Granting, Infringement Analysis, Ground of Defense, Intellectual Property Appellation Board (IPAB), International Filing: PCT System • **Patent and Biodiversity Act** • **Introduction to World Intellectual Property Organization. (WIPO)** • **Commercialization of patent: Need for Commercialization of research and role of IPRs in research Commercialization.** • **Benefit/Disadvantages of patenting to the society** • **Latest Amendment/Emerging Issues in Patenting**	20
3	**IPR related treaties:-** • Patent co-operative treaty • Budapest treaty	03

Recommended Study material

1. Intellectual Property Right basic Concept, by M. M. S. Khatri, Atlantic Publisher and Distributors Pvt. Ltd., New Delhi.
2. Epstein on Intellectual Property: 5th Edition by Michael M. Epstein, Wolters Kulwer India Pvt. Ltd. Gurgaon, India.
3. Intellectual Property Right and Human Development in India by Shabana Talwar, First Edition, Serials Publications, New Delhi, India.
4. IPR Handbook for Pharma Students and Researchers, Parikshit Bansal, Pharma Book Syndicate, Hyderabad, India.
5. Patents, N. R. Subbaram, Pharma Book Syndicate, Hyderabad.
6. Intellectual Property Right by Nikolaus Thumm, Springer-Verlag Publications, Germany.
7. Intellectual Property - Patents, Copyright, TradeMarks and Allied Rights by Cornish, Aplin and Llewelyn, Sweet and Maxwell – Thomson Publishers, New Delhi, India
8. The Enforcement of Intellectual Property Rights: A Case Book by Louis Tc. Harms, WIPO Publishing House, Geneva.
9. Intellectual Property: From Creation to Commercialization - A Practical Guide for Innovators & Researchers by John P., MC Manus, Oak Tree Press, Ireland

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

M. Pharm. (Clinical Pharmacy)

SEMESTER-I

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC004	Analytical Techniques	Programme Level	Core Course	4	-	--	4
PHCP001	Clinical Pharmacy Practice	Programme Level	Core Course	5	--	--	5
PHCP002	Pharmacotherapeutics -I	Programme Level	Core Course	5	--	--	5
PHCP003	Advance Pharmacokinetics & Clinical Applications	Programme Level	Core Course	4	--	--	4
PHCP004	Clinical Pharmacy Practical-I	Programme Level	Core Course	--	3	--	3
PHCP005	Practical-II (Analytical Techniques)	Programme Level	Core Course	--	3	--	3
HS701 B	Advance Critical Thinking and Logic	University Level	Core Course	2	--	--	2
---	Elective	University level	Elective Course	2	--	--	2
				22	06		28
Total credits: 28							

SEMESTER-II

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC006	Research Methodology	Programme Level	Core Course	2			2
PHCP006	Pharmacotherapeutics –II	Programme Level	Core Course	5	--	--	5
PHCC005	Clinical Research	Programme Level	Core Course	5	--	--	5
PHCP007	Advance Hospital pharmacy Management	Programme Level	Core Course	4	--	--	4
PHCP008	Clinical Pharmacy Practical-III	Programme Level	Core Course	--	3	--	3
PHCP009	Clinical Pharmacy Practical-IV	Programme Level	Core Course	--	3	--	3
PHCP010	Dissertation- Part-I	Programme Level	Core Course	--	--	3	3
HS702 B	Academic Writing and Communication Skills	University Level	Core Course	--	2	--	2
	Elective	University Level	Elective Course	2	--	--	2
				18	08	03	29
Total credits: 29							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. (Clinical Pharmacy)

Semester-3
Scheme of teaching

Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHCP011	Dissertation Part-II	--	--	36	36	--	--	18	18
Total		--	--	36	36	--	--	18	18
Total credits: 18									

Semester-4
Scheme of teaching

Part I: 10 weeks									
Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHCP012	Dissertation Part-III	--	--	36	36	--	--	18	18
Part II: 5 Weeks									
PHCP013	Industrial Training	--	--	--	--	--	--	2	2
Total		--	--	--	--	--	--	20	20
Total Credit :20									

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

M. Pharm. [Pharmaceutics: (Drugs Regulatory Affairs)]

SEMESTER-I

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC001	Basic Analytical Techniques	Programme Level Core	Core Course	4	--	--	4
PHCC002	Biopharmaceutics & Pharmacokinetics	Programme Level Core	Core Course	4	--	--	4
PHRA001	Pharmaceutical Formulation Development	Programme Level Core	Core Course	5	--	--	5
PHRA002	Drug Regulatory Affairs-I	Programme Level Core	Core Course	5	--	--	5
PHRA003	Drug Regulatory Affairs Practical-I	Programme Level Core	Core Course	--	3	--	3
PHRA004	Drug Regulatory Affairs Practical-II	Programme Level Core	Core Course	--	3	--	3
HS701B	Advance Critical Thinking and Logic	University Level Core	Core Course	2	--	--	2
	Elective	University Level Core	Elective Course	2	--	--	2
				22	06		28
Total credits: 28							

SEMESTER-II

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC006	Research Methodology	Programme Level Core	Core Course	2			2
PHCC003	GMP,QA & Process Validation	Programme Level Core	Core Course	4	--	--	5
PHRA005	Drug Regulatory Affairs-II	Programme Level Core	Core Course	5	--	--	5
PHRA006	Drug Regulatory Affairs-III	Programme Level Core	Core Course	5	--	--	4
PHRA007	Drug Regulatory Affairs Practical-III	Programme Level Core	Core Course	--	3	--	3
PHRA008	Drug Regulatory Affairs Practical-IV	Programme Level Core	Core Course	--	3	--	3
HS702 B	Academic Writing and Communication Skills	University Level Core	Core Course	--	2	--	2
PHRA009	Dissertation part -I	Programme Level Core	Core Course	--	--	3	3
	Elective	University Level Core	Elective Course	2	--	--	2
				18	8	3	
Total credits: 29							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. [Pharmaceutics: (Drugs Regulatory Affairs)]

Semester-3
Scheme of teaching

Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHRA010	Dissertation Part-II	--	--	36	36	--	--	18	18
Total		--	--	36	36	--	--	18	18
Total credits: 18									

Semester-4
Scheme of teaching

Part I: 10 weeks									
Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHRA011	Dissertation Part-III	--	--	36	36	--	--	18	18
Part II: 5 Weeks									
PHRA012	Industrial Training	--	--	--	--	--	--	2	2
Total		--	--	--	--	--	--	20	20
Total Credit :20									

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

M. Pharm. (Quality Assurance)

SEMESTER-I

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHQA001	Modern Analytical Techniques	Programme Level Core	Core Course	4	--	--	4
PHQA002	QA, GMP, GLP	Programme Level Core	Core Course	5	--	--	5
PHQA003	Pharmaceutical Analysis - I	Programme Level Core	Core Course	5	--	--	5
PHQA004	Clinical research and Drug regulatory affairs	Programme Level Core	Core Course	4	--	--	4
PHQA005	Practical-I (Modern analytical Techniques and Biostatistics)	Programme Level Core	Core Course	---	3	--	3
PHQA006	Practical-II (Pharmacopoeial methods of Analysis)	Programme Level Core	Core Course	---	3	--	3
HS701 B	Advance Critical Thinking and Logic	University Level Core	Core Course	2	--	--	2
Total credits: 28							

SEMESTER-II

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC006	Research Methodology	Programme Level Core	Core Course	2			2
PHQA007	Pharmaceutical Validation and Documentation	Programme Level Core	Core Course	5	--	---	5
PHQA008	Pharmaceutical Analysis-II	Programme Level Core	Core Course	5	--	---	5
PHQA009	Quality Management of Pharmaceuticals	Programme Level Core	Core Course	4	--	---	4
PHQA010	Practical-III (Advanced Pharmaceutical Analysis)	Programme Level Core	Core Course	--	3	--	3
PHQA011	Practical IV (Pharmaceutical Validation & Documentation)	Programme Level Core	Core Course	--	3	--	3
HS702 B	Academic Writing and Communication Skills	University Level Core	Core Course	--	2	--	2
PHQA012	Dissertation Part I	Programme Level Core	Core Course	---	---	3	3
	Elective	University Level Core	Elective Course	2	--	--	2
				18	8	03	29
Total credits: 29							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. (Quality Assurance)
Semester-3
Scheme of teaching

Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHQA013	Dissertation Part-II	--	--	36	36	--	--	18	18
	Total	--	--	36	36	--	--	18	18
Total credits: 18									

Semester-4
Scheme of teaching

Part I: 10 weeks									
Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHQA014	Dissertation Part-III	--	--	36	36	--	--	18	18
Part II: 5 Weeks									
PHQA015	Industrial Training	--	--	--	--	--	--	2	2
Total		--	--	--	--	--	--	20	20
Total Credit :20									

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. (Pharmacology and Toxicology)
SEMESTER-I
Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC004	Analytical Techniques	Programme Level Core	Core Course	4	-	--	4
PHCT001	Biological Evaluation of Drugs	Programme Level Core	Core Course	5	--	--	5
PHCT002	Pharmacology –I	Programme Level Core	Core Course	5	--	--	5
PHCT003	Cellular and molecular basis of pharmacology	Programme Level Core	Core Course	4	--	--	4
PHCT004	Pharmacology Practical-I	Programme Level Core	Core Course	--	3	--	3
PHCT005	Practical-II (Analytical Techniques)	Programme Level Core	Core Course	--	3	--	3
HS701 B	Advance Critical Thinking and Logic	University Level Core	Core Course	2	--	--	2
	Elective	University Level Core	Elective Course	2	--	--	2
				22	6		28
Total credits: 28							

SEMESTER-II
Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC006	Research Methodology	Programme Level Core	Core Course	2	---	---	2
PHCC005	Clinical Research	Programme Level Core	Core Course	5	--	--	5
PHCT006	Pharmacology -II	Programme Level Core	Core Course	5	--	--	5
PHCT007	Toxicology	Programme Level Core	Core Course	5	--	--	5
PHCT008	Pharmacology Practical-III	Programme Level Core	Core Course	--	**2.5**	--	2.5
PHCT009	Pharmacology Practical-IV	Programme Level Core	Core Course	--	**2.5**	--	2.5
PHCT010	Dissertation- Part-I	University Level Core	Core Course	--	--	3	3
HS702 B	Academic Writing and Communication Skills	University Level Core	Core Course	--	2	--	2
	Elective	University Level Core	Elective Course	2	--	--	2
				19	7	3	29
Total credits: 29							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. (Pharmacology and Toxicology)
Semester-3
Scheme of teaching

Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHCT011	Dissertation Part-II	--	--	36	36	--	--	18	18
Total		--	--	36	36	--	--	18	18
Total credits: 18									

Semester-4
Scheme of teaching

Part I: 10 weeks									
Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHCT012	Dissertation Part-III	--	--	36	36	--	--	18	18
Part II: 5 Weeks									
PHCT013	Industrial Training	--	--	--	--	--	--	2	2
Total		--	--	--	--	--	--	20	20
Total Credit :20									

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

M. Pharm. (Pharmaceutical Technology)

SEMESTER-I

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC001	Basic Analytical Techniques	Programme Level Core	Core Course	4	--	--	4
PHCC002	Biopharmaceutics & Pharmacokinetics	Programme Level Core	Core Course	4	--	--	4
PHPT001	Novel Drug Delivery Systems-I	Programme Level Core	Core Course	5	--	--	5
PHPT002	Pharmaceutical Product Development	Programme Level Core	Core Course	5	--	--	5
PHPT003	**Pharmaceutical Technology** Practical-I	Programme Level Core	Core Course	--	3	--	3
PHPT004	**Pharmaceutical Technology** Practical-II	Programme Level Core	Core Course	--	3	--	3
HS701 B	Advance Critical Thinking and Logic	University Level Core	Core Course	2	--	--	2
	Elective	University Level Core	Elective Course	2	--	--	2
Total credits: 28							

SEMESTER-II

Scheme of Teaching

Course		Classification of Course as Per CBCS		Credits			
Code	Name	General Classification	Specific Classification	Theory	Practical	Project	Total
PHCC006	Research Methodology	Programme Level Core	Core Course	2			2
PHCC003	GMP,QA & Process Validation	Programme Level Core	Core Course	4	--	--	5
PHPT005	Novel Drug Delivery Systems -II	Programme Level Core	Core Course	5	--	--	5
PHPT006	Pharmaceutical Production Management, Technology And Drug Regulatory Affairs	Programme Level Core	Core Course	5	--	--	4
PHPT007	**Pharmaceutical Technology** Practical-III	Programme Level Core	Core Course	--	3	--	3
PHPT008	**Pharmaceutical Technology** Practical-IV	Programme Level Core	Core Course	--	3	--	3
HS702 B	Academic Writing and Communication Skills	Programme Level Core	Core Course	--	2	--	2
PHPT009	Dissertation part -I	Programme Level Core	Core Course	--	--	3	3
	Elective	University Level Core	Elective Course	2	--	--	2
				18	08	3	29
Total credits: 29							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
M. Pharm. (Pharmaceutical Technology)

Semester-3
Scheme of teaching

Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHPT010	Dissertation Part-II	--	--	36	36	--	--	18	18
Total		--	--	36	36	--	--	18	18
Total credits: 18									

Semester-4
Scheme of teaching

Part I: 10 weeks									
Course		Contact Hours/Week				Credits			
Sr. No.	Name	Theory	Practical	Project	Total	Theory	Practical	Project	Total
PHPT011	Dissertation Part-III	--	--	36	36	--	--	18	18
Part II: 5 Weeks									
PHPT012	Industrial Training	--	--	--	--	--	--	2	2
Total		--	--	--	--	--	--	20	20
Total Credit :20									

Classification of Courses According to CBCS
BACHELOR OF PHARMACY (B. Pharm.) PROGRAMME
Proposed From Academic year: 2016-2017
SEMESTER-1
SCHEME OF TEACHING

Course Code	Course Name	Classification of Course as Per CBCS		Credit- Existing			Credit – Proposed		
		General Classification	Specific Classification	Theory	Practical	Tutorial	Theory	Practical	Tutorial
PH112	Human Anatomy & Physiology-I	Programme Level Course	Foundation Course	3	---	---	3	---	---
PH122	Elementary Pharmacognosy	Programme Level Course	Foundation Course	3	3	---	3	1.0	---
PH123	Pharmaceutical Chemistry-I	Programme Level Course	Foundation Course	3	3	---	3	2.0	---
PH124	Pharmaceutical Engineering-I	Programme Level Course	Foundation Course	3	3	---	3	1.0	---
PH116	Pharmaceutical Biology-I	Programme Level Course	Foundation Course	2	---	---	2	---	---
MA121	Basic Mathematics	Programme Level Course	Foundation Course	3	---	2	3	---	---
H101B – HS106B	A Course From Liberal Arts	University Level Course	Core Course	---	2	---	---	2	---
			Total	17	11	2	17	6.0	---
				30			23		

SEMESTER-2

SCHEME OF TEACHING

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing			Credit – Proposed		
		General Classification	Specific Classification	Theory	Practical	Tutorial	Theory	Practical	Tutorial
PH125	Human Anatomy & Physiology-II	Programme Level Course	Foundation Course	3	3	---	3	1.0	---
PH126	Pharmacognosy-I	Programme Level Course	Foundation Course	3	3	---	3	2.0	---
PH127	Pharmaceutical Chemistry-II	Programme Level Course	Foundation Course	3	3	---	3	1.0	---
PH128	Pharmaceutical Engineering-II	Programme Level Course	Foundation Course	3	3	---	3	2.0	---
PH121	Pharmaceutical Biology-II	Programme Level Course	Foundation Course	2	---	---	2	---	---
MA122	Advanced Mathematics	Programme Level Course	Core Course	3	---	1	3	---	---
HS121B	English Language & Literature	University Level Course	Core Course	2	---	---	2	---	---
			Total	19	12	1	19	6.0	---
				31			25.0		

Semester-3

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH215	Pharmacology-I	Programme Level Course	Core Course	3	---	3	---
PH226	Pharmacognosy-II	Programme Level Course	Foundation Course	3	3	3	1.0
PH227	Pharmaceutical Chemistry-III	Programme Level Course	Foundation Course	3	3	3	2.0
PH228	Hospital and Dispensing Pharmacy	Programme Level Course	Core Course	3	3	3	1.0
PH229	Pharmaceutical Engineering-III	Programme Level Course	Foundation Course	3	3	3	2.0
PH230	Pharmaceutical Software	Programme Level Course	Core Course	---	3	---	1.0
HS122B	Values and Ethics	University Level Course	Core Course	2	---	2	---
			Total	17	15	17	7.0
				32		24.0	

Semester-4

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH231	Pharmacology-II	Programme Level Course	Core Course	3	3	3	2.0
PH232	Phytochemistry I	Programme Level Course	Core Course	3	3	3	2.0
PH233	Pharmaceutical Biochemistry	Programme Level Course	Foundation Course	3	3	3	1.0
PH224	Pharmaceutical Jurisprudence	Programme Level Course	Core Course	3	---	3	---
PH234	Physical Pharmaceutics	Programme Level Course	Foundation Course	3	3	3	2.0
MA221	Biostatistics	Programme Level Course	Core Course	---	3	---	1.0
---	Elective Course	University Level Course	Elective Course	2	---	2	---
			Total	17	15	17	8.0
				32		25	

Semester-5

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH332	Pharmacology-III	Programme Level Course	Core Course	3	3	3	2.0
PH333	Medicinal Chemistry I	Programme Level Course	Foundation Course	3	3	3	1.0
PH334	Pharmaceutical Analysis-I	Programme Level Course	Core Course	3	3	3	1.0
PH318	Biopharmaceutics and Pharmacokinetics	Programme Level Course	Foundation Course	3	---	3	---
PH335	Pharmaceutical Microbiology and Biotechnology*	Programme Level Course	Foundation / Core Course	3	3	3	1.0
PH320	Pharmaceutical Management	Programme Level Course	Core Course	4	---	4	---
HS124	Professional Communication	University Core Course	Core Course	---	2	---	2
			Total	19	14	19	7
				34		26	

Microbiology is Foundation course for Biotechnology

Semester-6

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH336	Pharmacology-IV	Programme Level Course	Core Course	3	3	3	1.0
PH322	Phytochemistry-II	Programme Level Course	Core Course	3	---	3	---
PH337	Medicinal Chemistry-II	Programme Level Course	Core Course	3	3	3	2.0
PH338	Pharmaceutical Analysis-II	Programme Level Course	Core Course	3	3	3	2.0
PH339	Pharmaceutical Technology-I	Programme Level Course	Core Course	3	3	3	1.0
PH340 / PH345	Elective – I	Programme Level Course	Elective Course	2	---	2	---
HS125	Society, Governance and International Studies	University Core Course	Core Course	2		2	
				19 + 12		19	8.0
				31		27	

Semester-7

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH428	Clinical Pharmacy and Pharmacotherapeutics-I	Programme Level Course	Core Course	3	3	3	1.0
PH429	Traditional Medicine and Herbal Drugs Technology	Programme Level Course	Core Course	3	3	3	2.0
PH430	Pharmaceutical Analysis-III	Programme Level Course	Core Course	3	3	3	2.0
PH418	Medicinal Chemistry-III	Programme Level Course	Core Course	3	---	3	---
PH431	Pharmaceutical Technology-II	Programme Level Course	Core Course	3	3	3	2.0
PH432-PH437	Elective-II	Programme Level Course	Elective Course	2	---	2	---
PH421	Environmental Sciences	Programme Level Course	Core Course	2	---	2	---
			Total	19	12	19	7.0
				31		26	

Semester-8

Scheme of Teaching

Course Code	Course Name	Classification of Course as Per CBCS		Credit - Existing		Credit – Proposed	
		General Classification	Specific Classification	Theory	Practical	Theory	Practical
PH438	Clinical Pharmacy and Pharmacotherapeutics-II	Programme Level Course	Core Course	3	3	3	2.0
PH439	Medicinal Chemistry-IV	Programme Level Course	Core Course	3	3	3	1.0
PH440	Dosage Form Design	Programme Level Course	Core Course	3	3	3	2.0
PH425	Novel Drug Delivery Systems	Programme Level Course	Core Course	2	---	2	---
PH441-PH446	Elective-III	Programme Level Course	Elective Course	3	3	3	1.0
PH447	Entrepreneurship for pharma professionals	Programme Level Course	Core Course	3	3	3	1.0
			Total	17	15	17	7.0
				32		24.0	

Summary

Semester	Existing		Proposed	
	Theory	Practical	Theory	Practical
1	17	11+2*	17	6.0
2	19	12+1*	19	6.0
3	17	15	17	7.0
4	17	15	17	8.0
5	19	14	19	7.0
6	19	12	19	8.0 6.0
7	19	12	19	7.0
8	17	15	17	7.0
Total	144	106+3*	144	56 5H
Total Credit	**253**		**200** 198	

*Tutorial

New Pedagogy Adopted at RPCP

17.5.1 Princ. B.I.Patel Human Research Development Centre conducts sessions for faculty members of constituent institutes. One such session was arranged on application of Information and Communication Technology (ICT) in teaching and learning in higher studies. The faculty members were introduced to Learning Management System (LMS). There are few such online system available, which facilitates the learning of students.

Teachers created group of students on course account. A teacher is always administrator for the account. He/She can conduct tests (different types), seminar allocation and submission, assignment work as well as group activities. These systems facilitate not only learning but provide the facility to teacher to get feedback from students anonymously. Many teachers of RPCP has adopted EDMODO™ , system from current academic year.

17.5.2 RPCP has procured Impartus Lecture Capture System™. This system enables students to review class room recording at any time any where. Nearly, 80 classes for 3rd Semester B.Pharm have been recorded using this system and students have started using those.

17.5.3 One of the major outcomes of courses offered by Pharmacognosy Department in early semesters of B.Pharm programme is to make students capable of identifying the prototype medicinal plant specimens as well as adulteration in those samples, through morphological as well as microscopical evaluation.

At the institute, for long time, it has been realized that such pharmacognostic studies of medicinal plants, involving morphological evaluation of medicinal plant specimens, became monotonous and students found little or no learning components in these studies. It was thought to incorporate field based study component in practical sessions to make the studies interesting as well as challenging.

The students along with the teacher started visiting herbal garden of the institute, where teacher showed them the plant of the studies in natural habitat with similar looking other plants too, up to the extent possible. The students learnt the ways of comparative preliminary identification of such medicinal plants at the location with the help of teacher.

A survey is going to be conducted to access the effectiveness of this newly introduced field based learning.

Enclosure VI

Based on Percentage - Sem - 2 - 2015-16 (Theory Courses)						
Subject Code		AA	AB		DD	FF
		TH	TH	Total	TH	TH
PH117	HUMAN ANATOMYY & PHYSIOLOGY-II	5.00%	8.00%	13.00%	17.00%	17.00%
PH121	PHARMACEUTICAL BIOLOGY-II	00	9.00%	9.00%	28.00%	10.00%
PH118	PHARMACOGNOSY-I	9.00%	12.00%	21.00%	22.00%	19.00%
PH119	PHARMACEUTICAL CHEMISTRY II	16.00%	8.00%	24.00%	16.00%	26.00%
PH120	PHARMACEUTICAL ENGINEERING -II	7.00%	15.00%	22.00%	14.00%	7.00%
MA141.1	ADVANCED MATHEMETICS	29.00%	8.00%	37.00%	14.00%	28.00%
HS121 B	ENGLISH LANGUAGE AND LITERATURE	6.00%	24.00%	30.00%	1.00%	2.00%
Based on Percentage - Sem - 2 - 2015-16 (Practical Courses)						
Subject Code		AA	AB		DD	FF
		PR	PR	Total	PR	PR
PH117	HUMAN ANATOMYY & PHYSIOLOGY-II	8.00%	19.00%	27.00%	4.00%	7.00%
PH121	PHARMAXCEUTICAL BIOLOGY-II			0.00%		
PH118	PHARMACOGNOSY-I	16.00%	14.00%	30.00%	7.00%	15.00%
PH119	PHARMACEUTICAL CHEMISTRY II	15.00%	14.00%	29.00%	7.00%	6.00%
PH120	PHARMACEUTICAL ENGINEERING -II	2.00%	14.00%	16.00%		9.00%
MA141.1	ADVANCED MATHEMETICS			0.00%		
HS121 B	ENGLISH LANGUAGE AND LITERATURE	34.00%	37.00%	71.00%		10.00%
Based on Percentage - Sem - 4 - 2015-16 (Theory Courses)						
Subject Code		AA	AB		DD	FF
		TH	TH	Total	TH	TH
HS123 B	CRITICAL THINKING AND LOGIC	30.00%	18.33%	48.33%	1.67%	5.00%
PH221	PHARMACOLOGY -II	6.67%	11.67%	18.34%	28.33%	11.67%
PH222	PHYTOCHEMISTRY-I		8.33%	8.33%	26.67%	26.67%
PH223	PHARMACEUTICAL BIOCHEMISTRY	1.67%	6.67%	8.34%	31.67%	16.67%
PH224	PHARMACUTICAL JURIPRUDENCE	25.00%	23.33%	48.33%		5.00%
PH225	PHYSICAL PHARMACEUTICS	16.67%	18.33%	35.00%	6.67%	6.67%
MA331.1	BIOSTATISTICS			0.00%		
Based on Percentage - Sem - 4 - 2015-16 (Practical Courses)						
Subject Code		AA	AB		DD	FF
		PR	PR	Total	PR	PR
HS123 B	CRITICAL THINKING AND LOGIC			0.00%		
PH221	PHARMACOLOGY -II	21.67%	16.67%	38.34%	3.33%	1.67%
PH222	PHYTOCHEMISTRY-I	3.33%	16.67%	20.00%	10.00%	10.00%
PH223	PHARMACEUTICAL BIOCHEMISTRY	11.67%	8.33%	20.00%	1.67%	6.67%
PH224	PHARMACUTICAL JURIPRUDENCE			0.00%		
PH225	PHYSICAL PHARMACEUTICS	26.67%	28.33%	55.00%	1.67%	3.33%
MA331.1	BIOSTATISTICS	21.67%	11.67%	33.34%	3.33%	10.00%

Enclo

Based on Percentage - Sem - 6 - 2015-16 (Theory Courses)

Subject Code		AA	AB		DD	FF
		TH	TH	Total	TH	TH
PH308	PHARMACOLOGY-III	2.86%	2.86%	5.72%	25.71%	11.43%
PH309	PHARMACOGNOSY & PHYTOCHEMISTRY - IV	8.57%	4.29%	12.86 %	11.43%	5.71%
PH310	MEDICINAL CHEMISTRY-II	4.29%	11.43%	15.72 %	21.43%	10.00%
PH311	PHARMACEUTICAL BIOCHEMISTRY-II	4.29%	8.57%	12.86 %	20.00%	7.14%
PH312	BIOPHARMACEUTICALS	8.57%	20.00%	28.57 %	11.43%	
PH313	BIOPHARMACEUTICS & PHARMACOKINETICS	2.86%	7.14%	10.00 %	24.29%	10.00%
PH314	PHARMACEUTICAL MANAGEMENT-I			0.00%		
MB301	PHARMACEUTICAL SOFTWARES	5.71%	41.43%	47.14 %	2.86%	

Based on Percentage - Sem - 6 - 2015-16 (Practical Courses)

Subject Code		AA	AB		DD	FF
		PR	PR	Total	PR	PR
PH308	PHARMACOLOGY-III	8.57%	31.43%	40.00%		
PH309	PHARMACOGNOSY & PHYTOCHEMISTRY - IV	27.14%	21.43%	48.57%		
PH310	MEDICINAL CHEMISTRY-II	15.71%	32.86%	48.57%		
PH311	PHARMACEUTICAL BIOCHEMISTRY-II	8.57%	10.00%	18.57%		
PH312	BIOPHARMACEUTICALS	45.71%	28.57%	74.28%		
PH313	BIOPHARMACEUTICS & PHARMACOKINETICS			0.00%		
PH314	PHARMACEUTICAL MANAGEMENT-I	40.00%	30.00%	70.00%		
MB301	PHARMACEUTICAL SOFTWARES			0.00%		

Based on Percentage - Sem - 8 - 2015-16 (Theory Courses)

Subject Code		AA	AB		DD	FF
		TH	TH	Total	TH	TH
PH408	CLINICAL PHARMACY & PHARMACOTHERPUTICS-II		3.39%	3.39%	23.73%	1.69%
PH409	HERBAL DRUGS TECHNOLOGY-II	3.39%	23.73%	27.12%	3.39%	1.69%
PH410	MEDICINAL CHEMISTRY-IV	1.69%	1.69%	3.38%	27.12%	3.39%
PH411	PHARMACEUTICAL ANALYSIS-IV	5.08%	3.39%	8.47%	15.25%	3.39%
PH412	PHARMACEUTICAL TECHNOLOGY-II	5.08%	11.86%	16.94%	1.69%	3.39%
PH413	NOVEL DRUG DELIVERY SYSTEM	5.08%	11.86%	16.94%	5.08%	1.69%
MB402	ENTERPRENURESHIP FOR PHARMA PROFESSIONAL	3.39%	20.34%	23.73%		1.69%
PH414.01	ELECTIVE-II (PHARMACEUTICAL INSTRUMENTATION & TECHNOLOGY-II)			0.00%		
PH414.02	ELECTIVE-II (PHARMACEUTICAL DOCUMENTATION-II)			0.00%		
PH414.03	ELECTIVE-II (PHARMACEUTICAL MARKETING-II)			0.00%		
MB402 (P)	ENTERPRENURESHIP FOR PHARMA PROFESSIONAL (P)			0.00%		

Based on Percentage - Sem - 8 - 2015-16 (Practical Courses)						
Subject Code		AA	AB		DD	FF
		PR	PR	Total	PR	PR
PH408	CLINICAL PHARMACY & PHARMACOTHERPUTICS-II		11.86%	11.86%	1.69%	1.69%
PH409	HERBAL DRUGS TECHNOLOGY-II			0.00%		
PH410	MEDICINAL CHEMISTRY-IV	10.17%	33.90%	44.07%		1.69%
PH411	PHARMACEUTICAL ANALYSIS-IV			0.00%		
PH412	PHARMACEUTICAL TECHNOLOGY-II	6.78%	18.64%	25.42%		1.69%
PH413	NOVEL DRUG DELIVERY SYSTEM			0.00%		
MB402	ENTERPRENURESHIP FOR PHARMA PROFESSIONAL	10.17%	11.86%	22.03%		1.69%
PH414.01	ELECTIVE-II (PHARMACEUTICAL INSTRUMENTATION & TECHNOLOGY-II)		14.71%	14.71%	5.88%	2.94%
PH414.02	ELECTIVE-II (PHARMACEUTICAL DOCUMENTATION-II)	25.00%	70.00%	95.00%		
PH414.03	ELECTIVE-II (PHARMACEUTICAL MARKETING-II)			0.00%		
MB402 (P)	ENTERPRENURESHIP FOR PHARMA PROFESSIONAL (P)	94.92%	1.69%	96.61%		1.69%

Vision and Mission of the Institute

Vision

To Become a Premier Pharma Institute By Creating World Class Pharmacists And Researchers For Dissemination And Creation Of Knowledge

Mission:

To Develop Entrepreneurial Pharmacist with a Penchant for Research and Development

Programme Education Objectives (PEO)

1. To disseminate knowledge and train in skill development in all areas of pharmacy, which will be helpful to students for their future professional development, as well as in advance studies.
2. To encourage students for self learning through modern information resources
3. To make students aware about advances in pharmacy and to orient towards socially relevant research and development.
4. To develop effective communication and critical thinking abilities for societal responsibilities.
5. To nurture and facilitate Entrepreneurial capabilities and expose to them the opportunities available as an Entrepreneur

Enclos

BASIC MATHEMATICS (MA121)
(Theory)
B.Pharm 1st Semester

Credits: 3 (Theory) Contact Hours per week: 3 (Theory)

Objective of the Course: To introduce the basic concepts of Mathematics to students passing HSC with B-group.

Pre-requisite: No additional Pre-requisite required.

Methodology: The emphasis during Lecture sessions will be on Understanding of Concepts rather than on complexities of Computational Techniques. . Relevant illustrations will be provided from the Real World processes. Sufficient home assignments will be given to the students which will test their fundamentals and ability to relate Mathematical concepts with reality. Tutorials for practicing of solving mathematical problems discussed in lectures will be conducted.

Outline of the Course

No.	Unit	Minimum No. of Contact Hours	Approx. Weightage %
1	Sets, Relations and Functions	6	14
2	Trigonometry	8	18
3	Limit, Continuity and Differentiation	9	20
4	Integration	8	18
5	Determinants and Matrices	7	15
6	Equations and their solutions	7	15
Total		45	100 %

Detailed Syllabus:

No.	Unit details	Contact hours	Approx. Weightage %
1	**Sets, Relations and Functions**	6	14
1.1	Sets, Number systems (Real and Complex numbers)		
1.2	Cartesian Product of sets, Relation		
1.3	Functions and their types		
1.4	Types of function: One-One, Many-One, into, onto		
1.5	Classification of function : Algebraic , Transcendental-exponential and logarithmic functions		
1.6	Visualization of graphs of standard functions		
1.7	Application of logarithms in pharmaceutical computations		
2	**Trigonometry**	8	18
2.1	Measurement of angle and trigonometric functions		
2.2	Trigonometric -ratios, addition, subtraction and transformation formulae,		
2.3	Trigonometric -ratios of multiple, submultiple,		
2.4	Allied and certain angles.		
3	**Limit, Continuity and Differentiation**	9	20
3.1	Limits of functions and evaluation		
3.2	Continuity of functions		
3.4	Differentiation		
3.5	Derivatives of Standard Functions and evaluation		
3.7	Derivative as a Rate of Change		

3.8	Visualization of graphs of Continuous and Differentiable functions		
4	**Integration**	8	18
4.1	Indefinite Integrals (Primitives / Anti derivatives)		
4.2	Primitives of Standard Functions		
4.3	Methods of Integration		
4.4	Definite Integral		
4.5	Integration as Area under the curve		
5	**Determinants and Matrices**	7	15
5.1	Determinants (up to order 3) and their properties		
5.2	Cofactor expansion		
5.3	Matrices		
5.3	Matrix Operations		
5.4	Properties of Matrix Operations		
5.5	Some special matrices		
6	**Equations and their solutions:**	7	15
6.1	Polynomial equations in single variables and solution		
6.2	Quadratic equations and their solutions		
6.4	Solution of System of Linear equations using Cramer's rule and Matrix Inversion		
6.5	Fundamental theorem of algebra		

Instructional Method and Pedagogy:

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi-media projector, black board, OHP etc.
- Attendance is compulsory in lectures/laboratory which carries a 5% component of the overall evaluation.
- Minimum two internal exams will be conducted and average of two will be considered as a part of 20% overall evaluation.
- Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval. It carries a weight age of 5%.

Recommended study materials:

1. Kreyszig, Erwin. Advanced engineering mathematics. John Wiley & Sons, 2010.
2. Stewart, James. "Calculus: Early Transcendentals, 6E." Belmont, CA: Thompson Brooks/Cole (2006).
3. Wylie, C. R., and L. C. Barrett. "Advanced Engineering Mathematics." McGraw-Hill,1982
4. Greenberg, Michael D. Advanced engineering mathematics. Prentice-Hall, 1988.
5. Thomas, G. B., and R. L. Finney. "Calculus with Analytic Geometry (9th Edition), 1996.", Addison Wesley Publishing.
6. Stewart, James, Lothar Redlin, and Saleem Watson. Algebra and trigonometry. Nelson Education, 2015.

ADVANCED MATHEMATICS (MAI22)
(Theory)
B.Pharm 2nd Semester

Credits: 3 (Theory) Contact Hours per week: 3 (Theory)

Objective of the Course: To introduce the basic concepts of Mathematics to students passing HSC with B-group.

Pre-requisite: No additional Pre-requisite required.

Methodology: The emphasis during Lecture sessions will be on Understanding of Concepts rather than on complexities of Computational Techniques. Relevant illustrations will be provided from the Real World processes. Sufficient home assignments will be given to the students which will test their fundamentals and ability to relate Mathematical concepts with reality. Tutorials for practicing of solving mathematical problems discussed in lectures will be conducted.

Outline of the Course:

No.	Unit	Minimum No. of Contact Hours	Approx. Weightage %
1	Mean value theorems and expansion of functions	06	14
2	Ordinary Differential Equations	08	18
3	Linear Differential Equations	06	14
4	Mathematical modelling	10	20
5	Analytical Plans Geometry	08	18
6	Basic Statistics	07	16
Total		45	100 %

Detailed Syllabus:

No.	Unit details	Contact hours	Approx. Weightage %
1	**Mean value theorems and expansion of functions**	06	14
1.1	Differentiation of functions		
1.2	Roll's theorem, Lagrange's and Cauchy mean value theorems		
1.3	Taylor Series Expansion and Maclaurin Series Expansion		
2	**Ordinary Differential Equations**	08	18
2.1	Introduction to ODE		
2.2	General and particular solutions		
2.3	Methods of variable separable and Homogeneous method		
2.4	Linear and Exact differential equations		
3	**Linear Differential Equations**	06	14
3.1	Complementary function and particular integral		
3.2	LDE of higher order with constant coefficients		
3.3	Methods for finding particular integrals by variation of parameters		
4	**Mathematical modelling:**	10	20
4.1	Introduction to mathematical models		
4.2	Growth of bacteria , rate of decay		

4.3	Newton's law of cooling, diffusion and Fick's law of diffusion		
4.4	Spread of infectious diseases		
5	**Analytical Plane Geometry:**	08	18
5.1	Cartesian co-ordinates		
5.2	Distance between two points, area of triangle, slope of a line		
5.3	Equation of straight line in plane: Two-point form, intercept form, slope-intercept form, slope-point form		
5.4	Parallel and Perpendicular lines		
6	**Basic Statistics**	07	16
6.1	Ungrouped and Grouped data		
6.2	Diagrammatic Representation of Data		
6.3	Measures of Central Tendency		
6.4	Measures of Dispersion		

Instructional Method and Pedagogy:

- At the start of course, the course delivery pattern, prerequisite of the subject will be discussed.
- Lectures will be conducted with the aid of multi-media projector, black board, OHP etc.
- Attendance is compulsory in lectures/laboratory which carries a 5% component of the overall evaluation.
- Minimum two internal exams will be conducted and average of two will be considered as a part of 20% overall evaluation.
- Assignments based on course content will be given to the students at the end of each unit/topic and will be evaluated at regular interval. It carries a weightage of 5%.

Recommended study materials:

1. Kreyszig, Erwin. Advanced engineering mathematics. John Wiley & Sons, 2010.
2. Narayan, Shanti. Integral calculus. S. Chand, 2005.
3. Narayan, Shanti, and P. K. Mittal. Differential calculus. Shyamlal Charitable Trust, 1942.
4. Stewart, James. "Calculus: Early Transcendentals, 6E." Belmont, CA: Thompson Brooks/Cole (2006).
5. Wylie, C. R., and L. C. Barrett. "Advanced Engineering Mathematics." McGraw-Hill,1982
6. Greenberg, Michael D. Advanced engineering mathematics. Prentice-Hall, 1988.
7. Thomas, G. B., and R. L. Finney. "Calculus with Analytic Geometry (9th Edition), 1996.", Addison Wesley Publishing
8. Stewart, James, Lothar Redlin, and Saleem Watson. Algebra and trigonometry. Nelson Education, 2015.

Electives for B.Pharm Programme

Scehme of Teaching and Evaluation for Elective Courses

Semester-6

Scheme of Teaching

Sr. No.	Course Code	Course Name	Contact hours per week		Credit	
			Theory	Practical	Theory	Practical
1	PH326.1	Pharmacy Practice - I	2	---	2	---
2	PH326.2	Herbal Formulations- I	2	---	2	---
3	PH326.3	Production Of Bulk Drugs And Drug Intermediates I	2	---	2	---
4	PH326.4	Pharmaceutical Quality Assurance And Quality Control - I	2	---	2	---
5	PH326.5	Drug Regulatory Affairs- I	2	---	2	---
6	PH326.6	Sterile Product Techonology- I				

Scheme of Evaluation

Course Code	Course Name	Theory			Practical		
		University	Institute	Total	University	Institute	Total
PH326.1	Pharmacy Practice - I	50	50	100	---	---	---
PH326.2	Herbal Formulations- I	50	50	100	---	---	---
PH326.3	Production Of Bulk Drugs And Drug Intermediates I	50	50	100	---	---	---
PH326.4	Pharmaceutical Quality Assurance And Quality Control - I	50	50	100	---	---	---
PH326.5	Drug Regulatory Affairs- I	50	50	100	---	---	---
PH326.6	Sterile Product Techonology- I	50	50	100	---	---	---

Semester-7

Scheme of Teaching

Sr. No.	Course Code	Course Name	Contact hours per week		Credit	
			Theory	Practical	Theory	Practical
1	PH420.1	Pharmacy Practice - II	2	---	2	---
2	PH420.2	Herbal Formulations- II	2	---	2	---
3	PH420.3	Production Of Bulk Drugs And Drug Intermediates II	2	---	2	---
4	PH420.4	Pharmaceutical Quality Assurance And Quality Control - II	2	---	2	---
5	PH420.5	Drug Regulatory Affairs- II	2	---	2	---
6	PH420.6	Sterile Product Techonology- II				

Scheme of Evaluation

Course Code	Course Name	Theory			Practical		
		University	Institute	Total	University	Institute	Total
PH420.1	Pharmacy Practice - II	50	50	100	---	---	---
PH420.2	Herbal Formulations- II	50	50	100	---	---	---
PH420.3	Production Of Bulk Drugs And Drug Intermediates II	50	50	100	---	---	---
PH420.4	Pharmaceutical Quality Assurance And Quality Control - II	50	50	100	---	---	---
PH420.5	Drug Regulatory Affairs- II	50	50	100	---	---	---
PH420.6	Sterile Product Techonology - II	50	50	100	---	---	---

Semerstser 8
Scheme of Teaching

Sr. No.	Course Code	Course Name	Contact hours per week		Credit	
			Practical	Project	Practical	Project
1	PH426.1	Pharmacy Practice - III	3	3	3	3
2	PH426.2	Herbal Formulations- III	3	3	3	3
3	PH426.3	Production Of Bulk Drugs And Drug Intermediates III	3	3	3	3
4	PH426.4	Pharmaceutical Quality Assurance And Quality Control - III	3	3	3	3
5	PH426.5	Drug Regulatory Affairs- III	3	3	3	3
6	PH426.6	Sterile Product Techonology - III	3	3	3	3

Scheme of Evaluation

Course Code	Course Name	Practical			Project		
		University	Institute	Total	University	Institute	Total
PH426.1	Pharmacy Practice - III	50	50	100	50	50	100
PH426.2	Herbal Formulations- III	50	50	100	50	50	100
PH426.3	Production Of Bulk Drugs And Drug Intermediates III	50	50	100	50	50	100
PH426.4	Pharmaceutical Quality Assurance And Quality Control - III	50	50	100	50	50	100
PH426.5	Drug Regulatory Affairs- III	50	50	100	50	50	100
PH426.6	Sterile Product Techonology - III	50	50	100	50	50	100

Elective on
Pharmacy Practice

Semester-VI

Pharmacy Practice - I (Elective-I) (PH326.1)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the Course

Students will gain a broader understanding of pharmacy practice, standards and regulations. The goal of this course is for each student to appreciate the clinical and operational aspects of pharmacy practice

Student Learning Outcomes / Objectives

At the end of the course, the student will be able to understand

- The concept of Pharmacy practice and its scope
- Students understand the role of the pharmacist in epidemiology study and development and concept of clinical informatics
- Able to learn skill require to provide drug and poison information to healthcare professionals

Instructional Methods and Pedagogy:

The content of the syllabus would be transmitted through different pedagogy tools, as follows:

Sr.No	Particular	Hours Allotted
1	Classroom interaction	13
2	Group discussion	5
3	Seminar/Assisgnment	5
4	Case studies	7

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weight age %
1	Introduction to Pharmacy practice	05	17
2	Public Health & Epidemiology	10	33
3	Drug & Poison Information	08	27
4	Advances in clinical pharmacy informatics	07	23
	Total	**30**	**100%**

Detailed Syllabus

Sr no	Unit Details	No. of Hours
1	Introduction to Pharmacy practice: Scope in India & international prospectives	05
2	Public Health & Epidemiology: Introduction and advance pharmacopeidemiology study	10
3	Drug & Poison Information: Drug information resources introduction	08
4	Advances in clinical pharmacy informatics: introduction to informatics tools use in Healthcare	07

References:

1. A Textbook of Clinical Pharmacy Practice: G. Parthasarathi, Karin Nyfort-Hansen and Milap Nahata, Universities Press.
2. Practice of Hospital Clinical and community pharmacy Mohd Aqil
3. http:// www.who.int (World heath organization guidelines for poison control)
4. http://www.nhscareers.nhs.uk/
5. http://www.healthcare-informatics.com/
6. Adam Woolley. A guideline to Practical Toxicology: Evaluation, prediction and risk. Second edition, Informa Healthcare.
7. American Society of Health-System Pharmacists.Mission statement of the American Society of HealthSystem Pharmacists. Am J Health-Syst Pharm
8. Hospital Pharmacy. Mukul Singh, Sujata K. Dass, Shree Publisheres & Distributers
9. Hospital & Community Pharmacy by Ms. Anuja Kukkarni & Mr. Rajesh B. Patil.
10. http://www.ashp.org
11. http://apps.who.int/medicinedocs/documents/s19622en/s19622en.pdf

Semester-VII

Pharmacy Practice -II (Elective-II) (PH420.1)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the Course: Students will gain a broader understanding of pharmacy practice, standards and regulations. The goal of this course is for each student to appreciate the clinical and operational aspects of pharmacy practice

Student Learning Outcomes / Objectives: At the end of the course, the student will be able to understand

- The concept of health economics
- Students understand the role of the pharmacist in Ethics and roles in Ethical issues in pharmacy practice research
- Students can develop skills of research in clinical pharmacy practice

Instructional Methods and Pedagogy:

The content of the syllabus would be transmitted through different pedagogy tools, as follows:

Sr.No	Particular	Hours Allotted
1	Classroom interaction	13
2	Group discussion	5
3	Seminar/Assisgnment	5
4	Case studies /Audio Visual	7

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weight age %
1	Role of Pharmacist in Healthcare research, policy and economics	08	25
2	Ethical issues in clinical pharmacy practice research	08	25
3	Research in clinical pharmacy practice	14	50
	Total	**30**	**100%**

Detailed Syllabus

Sr no	Unit Details	No. of Hours
1	Role of Pharmacist in Healthcare research, policy and economics: Pharmacist or clinical pharmacist involvement in framing health care policy in various countries	08
2	Ethical issues in clinical pharmacy practice research:History, Codes, declarations and guidelines, basic principle of research, roles and responsibilities of ethics committee	08
3	Research in clinical pharmacy practice:Types of research, role of Pharmacist in clinical practice research	14

References:

1. A Textbook of Clinical Pharmacy Practice: G. Parthasarathi, Karin Nyfort-Hansen and Milap Nahata, Universities Press.

2. Practice of Hospital Clinical and community pharmacy, By Mohd Aqil.
3. Indian Guidelines for Ethical conduct of research in Human Subjects
4. Developing Pharamcy Practice: A focus on patient care. Handbook 2006 edition.
5. Research, review and other literature from internet sources

Semester-VIII

Pharmacy Practice - III (PH426.1)

Credits: 3 (Practical) **Contact Hours per week: 3(Practical)**
Credits: 3 (Project) **Contact Hours per week: 3 (Project)**

Students learning outcomes/objectives:
The aim of this practical is to - help you get a training period in a professional manner - help to understand the different functions and services provided by the hospital pharmacy - help students use different sources of drug information and initiate into the concept of Pharmacy practice - help to gain knowledge and practical tools for future professional career

Instructional Methods and Pedagogy:
- Lab Hours / Practicals (15 hours)
- Case studies (15 hours)
- Interaction with members of healthcare team at Hospital (15 hours)

List Practical:

Sr.No	Aim of Practical
1	To Familiarize with the functions of the hospital and the pharmacy department.
2	To understand different drug information resources and exercise based on it
3	To study Medication Use Processes with the help of case study
4	To study medication error and visit to hospital and evaluate cases related to different types of error
5	To study Drug Use Management and to study role of Pharmacist in formulary & DTC preparation.
6	To study drug therapy monitoring & to understand concept of ward round
7	To study concept of appropriate & rational use of medicine
8	To study main economic indicators of the hospital pharmacy
9	To study Drug information chart review and medical counseling
10	To study medical literature preparation and review for rationality

Project Guidelines:
Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

Proposed Project Area
1. Survey based: Survey of Incidence, prevalence and occurrence of diseases or any condition (field work)
2. Meta analysis
3. Drug utilization
4. Drug safety, Pharmacovigilance
5. Pharmacoepidemiology study
6. Risk factor identification

7. Pharmacist role in Hospital (ward round)
8. Drug information bases
9. Patient Counseling
10. E Prinscribing
11. Essential drug list preparation
12. Formulary preparation, audit and comparison
13. Softwares used in Health services
14. Lab data interpretation
15. Medication error
16. Drug interaction

Elective on
Herbal Formulations

SEMESTER-6

HERBAL FORMULATIONS-I (PH326.2)

Credits: 2 **Contact Hours per week: 2**

Objective of the Course:

To impart knowledge about role of herbal drugs in health care. Various approaches to be put up to utilize herbs as medicines. Students will also be exposed to different methods proposed to evaluate herbal raw materials.

Student Learning Outcomes / Objectives:

At the end of the course, the student should understand importance of herbal drugs.
The students are expected to

- Acquire the knowledge about importance of herbal medicine.
- Different methods for evaluation of herbal raw material.
- Role of herbal medicine in worldwide healthcare.

Instructional Methods and Pedagogy:

The content of syllabus would be delivered by following pedagogy,

Sr. No.	Particular	Hours Allotted
1	Classroom interaction	15
2	Group discussion	5
3	Seminar/Assignment	5
4	Skill development exercise	5

Outline of the Course:

No.	Unit	Minimum Contact Hours	Approx. weightage %
1	Herbal materials and its utilization worldwide.	4	15
2	Herbal raw materials and quality assessment	8	25
3	**Manufacturing of perfumes and fragrances.**	8	25
4	Regulatory status of herbal drugs worldwide.	10	35
Total		**30**	**100**

Detailed Syllabus:

No.	Unit details	Contact Hours	References
1	**Herbal materials and their utilization worldwide.** Scenario of utilization of herbal drugs in India and worldwide as medicine as well as in cosmetics .	4	2,4,5
2	**Herbal raw materials and quality assessment** Herbal raw materials, their procurement, storage and quality evaluation.	8	1,5
3	**Manufacturing of perfumes and fragrances.** Present scenario and status of natural perfumes worldwide. Different extraction and isolation processes of isolating fragrant principles from plants. Manufacturing and evaluation of perfumes.	8	3, 4
4	**Regulatory status of herbal drugs worldwide.** GMP for Herbal and Ayurvedic Formulations. Schedule T of Drugs & Cosmetics act. Regulatory guideline for herbal drugs.	10	1,5

Recommended study materials:

1. WHO guidelines on good manufacturing practices (GMP) for herbal medicines
2. Herbal Drug Industry. Chief Editor R.D. Chaudhary, 1st Edition, 1996. Eastern Publishers, New Delhi.
3. Perfumery technology-Art :science : Industry, by F.V. Wells and Marcel Billot, 2nd edition
4. Poucher's Perfumes, Cosmetics and Soaps, H. Butler, 10th edition, Kluwer Academic Publishers
5. Quality Control of Herbal Drugs: Mukherji P. K., Business Horizon Pharma. Publishers, 1st Edition, 2002.

SEMESTER-7
HERBAL FORMULATIONS-II (PH 420.2)

Credits: 2 **Contact Hours per week: 2**

Objective of the Course:
The course is designed to incorporate application of herbs in therapeutical as well as cosmetic formulations

Student Learning Outcomes / Objectives:
At the end of the course, the student should understand the demand of herbal drugs and excipients.
The students are expected to

- Development of Rational formulation

Instructional Methods and Pedagogy:
The content of syllabus would be delivered by following pedagogy,

Sr. No.	Particular	Hours Allotted
1	Classroom interaction	15
2	Group discussion	5
3	Seminar/Assignment	5
4	Skill development exercise	5

Outline of the Course:

No.	Unit	Minimum No. of Contact Hours	Approx. weightage %
1	Preformulation and Formulation Design	5	25
2	Preparation of Herbal Therapeutic Formulations	15	40
3	Herbal Cosmetics and Nutraceuticals	10	35
Total		**30**	**100**

Detailed Syllabus:

No.	Unit details	Contact Hours	References
1	Concept of preformulations studies and fundamentals of formulation design.	5	1,2,3,4,6
2	Herbal formulations- topical, tablets, syrups, dentrifices	15	2,3,4,5,6
3	Herbal cosmetics- skin care and hair care.	10	5,6

Recommended study materials:

1. Harry's Cosmeticology, Radelph Harry, 8th edition, Chemical Publishing Company.
2. Perfumes, Soaps, Detergents and Cosmetics, S.C. Bhatia, 1st edition, CBS publishers
3. Handbook of Cosmetic Science and Technology, Andre Barel, Marc Paye, Howard I. Maibach, CRC Press.
4. Herbal drug technology, S. S. Agrawal and M. Paridhavi, Univeristies Press, 1st Edition, 2007.
5. Quality Control of Herbal Drugs: Mukherji P. K., Business Horizon Pharma. Publishers, 1st Edition, 2002.
6. Indian Herbal Pharmacopoeia, Volume I and II, 1999. A Joint Publication of IDMA and RRL, Jammu –Tawi.

SEMESTER-8

HERBAL FORMULATIONS-III (PH426.2)

Credits: 3 (Practical) **Contact Hours per week: 3(Practical)**
Credits: 3 (Project) **Contact Hours per week: 3 (Project)**

Objective of the Course:
The course focuses on imparting the skill of development of rational formulation and preparation in laboratory including evaluation of prepared formulations.

Student Learning Outcomes / Objectives:
At the end of the course, the student should be able to understand the fundamental of rational behind selection of appropriate herbal drugs and extracts to develop a new formulation. He/She should be able to evaluate the formulation as well.

Instructional Methods and Pedagogy:
The content of syllabus would be delivered by

- Class room teaching and discussion
- Skill development exercise
- Theoretical project or seminar and their presentation
- Practical related to development and standardization of herbal formulation and evaluation of marketed Ayurveda formulation.

Detailed Syllabus Project: (03 Hr. /Week)

Project Guidelines:

Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

The project will be based on following topics;

1. Preparation and Evaluation of Herbal Formulation and Herbal Cosmetics
2. Comparative Evaluation of Marketed Herbal Formulations
3. Market Survey on Herbal Formulation and Herbal Cosmetics
4. Branding and Marketing of Herbal Formulations
5. Clinical and Preclinical Reviews of herbal Drugs and Herbal Formulations
6. Regulatory status of Herbal Formulations in Various Countries

Practicals to be offered:

No.	Aim of the Practical
1	Formulation development & standardization of herbal cream.
2	Formulation development & standardization of herbal gel.
3	Formulation development & standardization of herbal shampoo.
4	Formulation development & standardization of herbal toothpaste.
5	Formulation development & standardization of herbal tablet.
6	Formulation development & standardization of herbal syrup.
7	Evaluation of marketed Ayurveda formulation.

Recommended study materials:

1. Herbal Drug Industry. Chief Editor R.D. Chaudhary, 1st Edition, 1996. Eastern Publishers, New Delhi.
2. The ayurvedic Formulary of India, Part I and II, Department of Indian system of Medicine and Homoeopathy, Govt, of India, 1st English Edition, 2000.
3. Herbal drug technology, S. S. Agrawal and M. Paridhavi, Univeristies Press, 1st Edition, 2007.
4. Handbook of Cosmetic Science and Technology, Andre Barel, Marc Paye, Howard I. Maibach, CRC Press.
5. Cosmetic technology, Nanda S, Nanda A, Khar RK., Birla Publications Pvt. Ltd
6. Cosmetics: Science and Technology, Balsam S.M. and Sagarin Edward, 2nd Ed, Wiley Interscience.

Elective On
Production of Bulk Drug and Drug Intermediates

Semester-VI

Production of Bulk Drugs and Drug Intermediates I (PH326.3)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the Course:

The course is designed to make students familiar with various approaches used for production of bulk drugs and intermediates. The course will also provide knowledge regarding various processes and parameters useful for the same.

Students learning outcomes/objectives:

By the end of this course, the student should have a good understanding of the basic concepts of process chemistry. They are expected to gain the knowledge of route selection, processing and optimization of various synthetic methodologies. They would also understand various processes used for bulk drug production.

Instructional Methods and Pedagogy:

- Interactive Teaching (15 hr)
- Discussion (10 hr)
- Case studies (05 hr)

Outline of the Course:

No.	Unit	Minimum Contact Hours	Approx. weightage %
1	Basic Concepts of Process Chemistry	20	67
2	Processing techniques in bulk drugs and intermediate production	07	23
3	WHO Good Manufacturing Practices for active pharmaceutical ingredients	03	10
Total		**30**	**100**

Detailed Syllabus (Theory):

No.	Unit details	Contact Hours	References
1	**Basic Concepts of Process Chemistry** - Concept of Basic Process Research and implication on Process Research and Development & Production - Synthetic Route Finding and Selection – Concept, Application and Case Studies. - Synthone approaches applied to drugs and drug intermediates. - Knowledge of the concepts of route enabling and synthesis optimization: “green” choice of solvent, reagent, catalysts, etc. - Knowledge of applications & the use of catalysis in PRD	20	1,2,3,4,5
2	**Processing techniques in bulk drugs and intermediate production** Liquid- Liquid Processing, Evaporation And Fractional Distillation, Adsorption From Solution, Crystallization From Solution, Solid – Liquid Processing and Separation, Solid Finishing – Drying.	07	1,2,3,4,5
3	WHO Good Manufacturing Practices for active pharmaceutical ingredients	03	6,7

Recommended study materials:

1. Process Chemistry in the Pharmaceutical Industry, Volume 1edited by Kumar Gadamasetti
2. N. G. Anderson, "Practical Process Research & Development", Academic Press 2000.
3. O. Repic, "Principles of Process Research and Chemical Development in the Pharmaceutical Industry, Wiley 1998.
4. N. Yasuda, “The Art of Process Chemistry”, Wiley 2010
5. R.A. Sheldon, I. Arends, U. Hanefeld, "Green Chemistry & Catalysis", Wiley 2007
6. WHO Guideline.
7. ICH Guidelines.

Semester-VII

Production of Bulk Drugs and Drug Intermediates II (PH420.3)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the Course:

The course is designed to make students familiar with various types or reactions and their processing, and unit operation related to those reactions. It will also explain the students for applicability of the mentioned reaction.

Students learning outcomes/objectives:

By the end of this course, the students would become familiar with the various types of reactions utilized for bulk drugs and intermediate production. They will also learn newer synthetic technologies which would me time saving and green and their applications.

Instructional Methods and Pedagogy:

- Interactive Teaching (15 hours)
- Discussion (10 hours)
- Case studies (5 hours)

Outline of the Course:

No.	Unit	Minimum Contact Hours	Approx. weightage %
1	Understanding of concepts of process chemistry with references to various unit processes	30	100
Total		**30**	**100**

Detailed Syllabus (Theory):

No.	Unit details	Contact Hours	References
1	**Understanding of concepts of process chemistry with references to various unit processes** - Route Enabling & Lab Optimization - Kinetics & Mechanism evaluation in PRD - Optimization by understanding impurities - New synthesis technologies like solid phase chemistry, flow chemistry, micro wave and aqua Chemistry - Advanced Asymmetric Synthesis & Catalysis - Knowledge of the concepts of asymmetric synthesis & applications - Applications of enzymes in organic synthesis - Understanding the above mentioned concepts with reference to unit process like: 1. Alkylation 2. Amination 3. Condensation and Addition 4. Esterification 5. Friedel-Crafts Reactions 6. Halogenations 7. Hydrogenation 8. Oxidation	30	1,2,3,4,5

Recommended study materials:

1. Process Chemistry in the Pharmaceutical Industry, Volume 1edited by Kumar Gadamasetti
2. N. G. Anderson, "Practical Process Research & Development", Academic Press 2000.
3. O. Repic, "Principles of Process Research and Chemical Development in the Pharmaceutical Industry, Wiley 1998.
4. N. Yasuda, “The Art of Process Chemistry”, Wiley 2010
5. R.A. Sheldon, I. Arends, U. Hanefeld, "Green Chemistry & Catalysis", Wiley 2007

Semester-VIII

Production of Bulk Drugs and Drug Intermediates III (PH426.3)

Credits: 3 (Practical) **Contact Hours per week: 3 (Practical)**
: 3 (Projects) **: 3 (Projects)**

Objective of the Course:
The course is designed to make students familiar with various types or reactions and their processing, and unit operation related to those reactions. It will also explain the students for applicability of the mentioned reaction.

Students learning outcomes/objectives:
By the end of this course, the students would become familiar with the various types of reactions utilized for bulk drugs and intermediate production. They will also learn newer synthetic technologies which would me time saving and green and their applications.

Instructional Methods and Pedagogy:
- Discussion and Case Study (20 hr.)
- ICT Based Demonstration of various Bulk Drug Processes (10 hr.)
- Interaction with Industrial Expert and industrial visit (15 hr.)
- Practical (45 Hrs.)

Detailed Syllabus of Project: (03 Hr. /Week)

Project Guidelines:

Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

The project will be based on following topics;
1. Solvent Purification Techniques
2. Crystallization Techniques
3. Structural Elucidation of Organic Compounds
4. Bulk Drug Process and Manufacturing: Case Study
5. Application of Green Chemistry
6. Application of Microwave Synthesis and its advantages over Conventional synthesis
7. Importance of QbD and DOE in API Manufacturing
8. Stereochemistry and Chiral Separation of Enantiomer
9. Synthon Approach
10. Protection and Deprotection Approach
11. Synthesis of API's (Laboratory Work)

Detailed Syllabus (Practical):(03 Hr./Week)

Topic No.	Aim of the Practical
1	Synthesis of Aspirin form salicylic Acid by Common synthetic route and Microwave Approach and compare the Practical yields.
2	Synthesis by Common synthetic route and reaction in aqueous medium and compare the Practical yields.
3	Use of different solvents for Synthesis (01 Practical)
4	Case study base practical (Bulk Drug Production Process of any two API's)

5	Reaction in Aqueous Medium (01 Practical)
6	Solvent Recovery Techniques (01 Practical)
7	Reaction by use of different Catalyst (Esterification) (01 Practical)
8	Crystallization from different solvents (02 Practical)
9	Structural Elucidation of Organic Compounds (02 Practical's)

References:

1. Vogel's Text Book of Practical Organic Chemistry- Brian Furniss, Antony Hannaford, Peter Smith, Austrin (Eds), 5th edition, ELBS Publication, Singapore, 1997.
2. Process Chemistry in the Pharmaceutical Industry, Volume 1edited by Kumar Gadamasetti
3. N. G. Anderson, "Practical Process Research & Development", Academic Press 2000.
4. O. Repic, "Principles of Process Research and Chemical Development in the Pharmaceutical Industry, Wiley 1998.
5. N. Yasuda, "The Art of Process Chemistry", Wiley 2010
6. R.A. Sheldon, I. Arends, U. Hanefeld, "Green Chemistry & Catalysis", Wiley 2007

Elective on
Pharmaceutical Quality Assurance and Quality Control

Semester-VI

Pharmaceutical Quality Assurance and Quality Control – I (PH326.4)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the course:

- To learn the concept of QA-QC-GMP-TQM, GLP-ICH.
- To understand the Quality Control Laboratory and its activities.
- To introduce the basic concepts of GLP and its implementation.
- To understand the In-Process Quality Control their Basic Concept, IPQC tests for Tablets and Capsules

Students learning outcomes/objectives:

Upon completion of the course, it is expected that the students will be able to (know, do and appreciate)

- Concepts of quality control and quality assurance and its implementation
- Regulatory guidance's and guidelines like ICH and other relevant documents
- Good Laboratory Practices, Good Manufacturing Practices(GMP)
- Quality Control Laboratory and its activities

Instructional methods and pedagogy:

- Interactive Teaching (15 hours)
- Discussion (07 hours)
- Case studies (05 hours)
- Visit to Pharmaceutical Manufacturing Plant (03 hours)

Outline Syllabus

No.	Unit	Minimum Contact Hours	Approx. weightage %
1	Concept and Philosophy of Quality, Quality Assurance and Quality Control	03	10
2	Interrelation of QA-QC-GMP-TQM, GLP	09	30
3	Quality Control Laboratory and its activities	09	30
4	Introduction to ICH and its guidelines for Quality	03	10
5	In-Process Quality Control:	06	20
Total		30	100

Detailed Syllabus (Theory):

No.	Unit	Minimum Contact Hours	References
1	Concept and Philosophy of Quality, Quality Assurance and Quality Control, Total Quality Management (TQM), Good Manufacturing Practices(GMP), cGMP, Good Laboratory Practices (GLP) in pharmaceutical and healthcare industries	03	
2	Interrelation of QA-QC-GMP-TQM, GMP: Elements and Overview of Regulatory requirements, GLP: Scope, History, Elements and Schedule L1 in brief.	09	
3	Quality Control Laboratory and its activities: Lab layout, Requirements of Facilities, Equipments, Personnel, Activities such as Calibration of QC equipments, Testing Procedures, Specification.	09	
4	Introduction to ICH and its guidelines for Quality	03	
5	In-Process Quality Control: Basic Concept, IPQC tests for Tablets and Capsules.	06	

Recommended study materials:

1. Good Manufacturing Practices for Pharmaceuticals, Sidney H. Willig, Drugs and Pharm. Sci. Series, Vol. 109, Marcel Dekker Inc., New York.
2. Good Manufacturing Practices for Pharmaceuticals, Joseph D. Nally, Drugs and Pharm. Sci. Series, Vol. 169, Informa healthcare.
3. Modern Pharmaceutics, G. S, Banker & C.T. Rhodes, Drugs and Pharm. Sci. Series, Vol. 121, Maracel Dekker Inc., New York.
4. How to practice GMPs, P. P .Sharma, Vandana Publication, Delhi.
5. Good Laboratory Practice Regulations, 2nd Edition, Sandy Weinberg Vol. 69, Marcel Dekker Series, 1995.
6. Good laboratory Practice Regulations – Allen F. Hirsch, Volume 38, Marcel Dekker Series, 1989.
7. Good Manufacturing Practices for Pharmaceuticals a plan for total quality control – Sidney H. Willig, Vol. 52, 3rd edition, Marcel Dekker Series

Semester-VII

Pharmaceutical Quality Assurance and Quality Control – II (PH420.4)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Objective of the course:

- To learn the concept of Qualification and Validation
- To train the students about the importance and requirement of good documentation practices.
- To learn about Analytical Method Validation & its Objectives, Methodology etc.
- To understand Quality Inspections and Audits.

Students learning outcomes/objectives:

Upon completion of the course, it is expected that the students will be able to (know, do and appreciate)

- Concepts of validation and its implementation
- Documentation in Pharmaceutical Industry i.e. Protocol preparation for documentation of various types of records (BFR, MFR, Quality audit Report, SOPs, etc.)
- Analytical Method Validation
- Documentation for audits and inspection of manufacturing facilities.

Instructional methods and pedagogy:

- Interactive Teaching (15 hours)
- Discussion (07 hours)
- Case studies (05 hours)
- Visit to Pharmaceutical Manufacturing Plant (03 hours)

Outline Syllabus

No.	Unit	Minimum Contact Hours	Approx. weightage %
1	Qualification and Validation	09	30
2	Analytical Method Validation	03	10
3	Documentation in Pharmaceutical Industry	09	30
4	Quality Inspections and Audits	09	30
Total		30	100

Detailed Syllabus (Theory):

No.	Unit	Minimum Contact Hours	References
1	Qualification and Validation: Definitions, Difference between Qualification and Validation. Introduction to the basic concept of Validation in Pharmaceutical Manufacturing, Process Validation: Types, Objective, how it differs from Qualification (DQ, IQ, OQ, PQ), Validation Master Plan	09	
2	Analytical Method Validation: Objectives, Method Characteristics, Assessment Methodology	03	
3	Documentation in Pharmaceutical Industry: Good Documentation Practices, Batch Formula Record, Master Formula Record, Quality Audit Report, SOP, Certificate of Analysis, Complaint and evaluation of complaint, Handling of returned goods, Recalling and Waste Disposal.	09	
4	Quality Inspections and Audits: Definitions- Inspection, Periodic evaluation and Audit, Types, Approaches, Benefits, Audit Report, Regulatory Audit	09	
Total		30	

Recommended study materials:

1. Pharmaceutical Process Validation, B. T. Loftus & R. A. Nash, Drugs and Pharm Sci. Series, Vol. 129, Marcel Dekker Inc., New York.
2. The Theory & Practice of Industrial Pharmacy, Leon Lachman, Herbert A. Lieberman, Joseph. L. Karig, Varghese Publishing House, Bombay.
3. Validation Master Plan, Terveeks, Davis Harwood International publishing.
4. Validation of Aseptic Pharmaceutical Processes, Carleton & Agalloco, Marcel Dekker Inc., New York.
5. Pharmaceutical Process Scale-Up", Michael Levin, Drugs and Pharm. Sci. Series, Vol. 157, Marcel Dekker Inc., New York.
6. Lachman L Liberman Theory and practice of industrial pharmacy by 3 rd edition
7. Sidney H Willing, Murray M, Tuckerman. Williams Hitchings IV, Good manufacturing of pharmaceuticals (A Plan for total quality control) 3rd Edition. Bhalani publishing house Mumbai.
8. Tablets Vol. I, II, III by Leon Lachman, Herbert A. Liberman, Joseph B. Schwartz, 2nd Edn.(1989) Marcel Dekker Inc. New York.
9. Text book of Bio- Pharmaceutics and clinical Pharmacokinetics by Milo Gibaldi, 3rd Edn, Lea & Febriger, Philadelphia.
10. Pharmaceutical process validation (Drugs and Pharmaceuticals Series), Ira R. Berry and Robert A. Nash, 2nd Edn.(1993), Marcel Dekker Inc., New York.
11. Good laboratory Practice Regulations – Allen F. Hirsch, Volume 38, Marcel Dekker Series, 1989.

Semester-VIII

Pharmaceutical Quality Assurance and Quality Control – III (PH426.4)

Credits : 3 (Practical) **Contact Hours per week : 3 (Practical)**
___ : 3 (Project) **: 3 (Project)**

Objective of the course:

- To learn about pharmaceutical documentation system
- To train the students about Regulatory guidance's and guidelines like ICH, ISO 9001 and other relevant documents

Students learning outcomes/objectives:

Upon completion of the course, it is expected that the students will be able to (know, do and appreciate)

- Preparation of SOP, validation protocol, validation report
- In-Process Quality Control tests for Tablet, Capsules etc.

Instructional methods and pedagogy:

- Lab hours (15 hours)
- Assignment (15 hours)
- Discussion (10 hours)
- Interaction with Experts from Industry (05 hours)

Syllabus

Detailed Syllabus (Practical):

Sr. No	Aim of the Practical
1	To perform IPQC tests for Tablets
2	To perform IPQC tests for capsules
3	To calibrate pH meter, analytical balance, volumetric glassware.
4	To calibrate UV spectrophotometer
5	To perform validation of autoclave and oven
6	To prepare SOP of any two analytical equipments
7	To prepare SOP of any two processing equipments
8	To prepare validation protocol.
9	To prepare validation report
10	To prepare record sheet
11	Case studies on Quality Risk Management, GMP non-compliance, Regulatory Audit
12	Any other relevant to topics covered in theory course 1 and 2 of elective on pharmaceutical quality assurance and quality control

Project:

Project Guidelines:

Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

Students are expected to pursue a project in the broad area of quality assurance and quality control. It may be specifically on development of protocol, preparation of standard operating procedure, validation of equipment, validation of process, validation of facilities, development and validation of analytical procedure, calibration master plan, Manufacturing Risk management, pharmaceutical quality system or any other area relevant to pharmaceutical quality assurance and quality control. The project may be individual or in group.

Recommended study materials:

1. Total Quality Management- Guiding Principle for Application, J. P. Peker, ASTM manual series, Philadelphia.
2. Total Quality Management – The Key to Business Improvemetn, Champman & Hall, Londan.
3. Quality Assurance Guide by Organisation of Pharmaceutical products of India.
4. A guide to Total Quality Management – Kaushik Maitra and Sedhan K.Ghosh.
5. ISO 9000 and Total Quality Management – Sadhank. G. Ghosh.
6. Quality Assurance of Pharmaceuticals – A compendium of guidelines and related materials Vol.1and Vol.2, WHO, (1999).
7. ICH guidelines

Elective on
Drugs Regulatory Affairs

Semester-VI

DRUG REGULATORY AFFAIRS- I (Elective-I) (PH326.5)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Course objective:

The objectives of this course are as follows:

- To get familiar with the process of getting the approval of drug in India.
- To understand provisions applicable to various regulatory agencies like USA, Australia, Europe, UK etc.
- To know the filing procedure of regulatory agencies like USA, Australia, Europe, UK etc.

Learning Outcomes

At the end of the course,

- One can know the process of product registration and marketing authorization in countries like USA, Australia, European and UK.
- Students can awake about the how the differences between the India and other countries likes USA, Australia, European and UK. Other than medicine, the registration process of medical devise, cosmetic product and biotechnological product registration process can be understood.

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weight age %
1	Drug regulatory authorities in India	05	18
2	Regulation and registration in India	13	42
3	Brief about the drug regulatory agencies in world	08	25
4	Brief study of regulatory documents	04	15
	Total	**30**	**100%**

Detailed Syllabus

Sr no	Unit Details	No. of Hours
1	Drug regulatory authorities in India- ▪ Central Drug Standard Control Organization (CDSCO) and State Food and Drug Control Administration (FDCA)	05
2	Regulation and registration of followings in India: - Drug - Medical devices - Cosmetics - Biologics & Biotechnological products	13
3	Brief about the drug regulatory agencies in world:- ▪ Medicines & Healthcare products Regulatory Agency (MHRA)- UK ▪ Therapeutic Goods Administration (TGA)-Australia ▪ European Medicines Agency (EMEA)-European ▪ Food and Drug Administration (FDA)- USA ▪ Health Canada- Canada	08
4	Brief study of regulatory documents: ▪ Common Technical Document (CTD), ▪ Electronic Common Technical Document (eCTD)	04

Pedagogy

The course will transact with aim of participation and one to one learning through active classroom interaction, group discussion and presentation mode.

- Classroom teaching :- 15 hrs
- Case study :- 05 hrs
- Group Discussions :- 05 hrs
- Students' Presentations :- 05 hrs

Recommended study materials:

1. FDA Regulatory Affairs: A Guide for Prescription Drugs, Medical Devices and Biologics, Edited by Douglas J. Pisano and David S. Mantus, published by informa healthcare.
2. Drugs and Cosmetics Act, 1940 and its rules, published by Ministry of health and family welfare, Government of India.
3. The Pharmaceutical Regulatory Process, 2nd ed. – Ira R. Berry, Robert P. Martin
4. Medical Product Regulatory Affairs: Pharmaceutical, Diagnostics, Medical Devices – John J. Tobin and Gary Walsh.
5. www.**mhra**.gov.**uk**/
6. http://www.fda.gov/
7. https://www.tga.gov.au/
8. http://www.ema.europa.eu/ema/
9. http://cdsco.nic.in
10. www.hc-sc.gc.ca/
11. www.ich.org

Semester-VII

DRUG REGULATORY AFFAIRS- II (Elective-II) (PH420.5)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Course Objectives:

- To introduce the students to the various guidelines of International Conference on Harmonization (ICH) and WHO.
- To familiar the students about ASEAN guidelines and its dossier preparation

Learning Outcomes

At the end of the course, the student should have capable:

- Understand the importance of guidelines of International Conference on Harmonization (ICH) and WHO relevant to the regulatory filing
- Preparation of dossier as per the guidelines of ASEAN countries.

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weight age %
1	International Conference on Harmonization (ICH) guidelines on stability relevant to the regulatory filing	14	47
2	WHO guidelines for the drugs and Pharmaceuticals	08	27
3	ASEAN guidelines: Study and dossier preparation as per the guidelines of ASEAN	08	26
	Total	**30**	**100%**

Detailed Syllabus

Sr no	Unit Details	No. of Hours
1	International Conference on Harmonization (ICH) guidelines on stability relevant to the regulatory filing: Stability Testing of New Drug Substances and Products Stability Testing , Photostability Testing of New Drug Substances and Products, Stability Testing for New Dosage Forms, Bracketing and Matrixing Designs for Stability Testing of New Drug Substances and Products, Evaluation of Stability Data, Impurities in New Drug Substances, New Drug Products	14
2	WHO guidelines for the finished products	08
3	ASEAN guidelines: Study and dossier preparation as per the guidelines of ASEAN	08

Pedagogy:

- Classroom teaching :- 15 hrs
- Case study :- 05 hrs
- Group Discussions :- 05 hrs
- Students' Presentations :- 05 hrs

References:

1. Medical Product Regulatory Affairs: Pharmaceuticals, Diagnostics, Medical Devices By John J. Tobin and Gary Walsh
2. FDA Regulatory Affairs: A Guide for Prescription Drugs, Medical Devices, and Biologics, Second Edition by Douglas J. Pisano and David S. Mantus
3. Good Drug Regulatory Practices: A Regulatory Affairs Quality Manual (Good Drug Development Series, Volume 1 by Helene I. Dumitriu
4. Encyclopedia of Pharmaceutical Technology, James Swarbrick and James C. Boylan, Marcel Dekker Inc., New York.
5. Guidelines for Developing National Drug Policies; WHO Publications, 1998.
6. **www.ich.org**
7. www.**who.int**/
8. www.**asean**.org/

Semester-VIII
DRUG REGULATORY AFFAIRS- III (Elective-III) (PH426.5)

Credits: 3(Practical) **Contact Hours per week: 3(Practical)**
Credits: 3 (Project) **Contact Hours per week: 3(Project)**

Objective of the Course:
To make students familiar with different regulatory related documentation practices followed in pharmaceutical industry.

Learning Outcomes
The students are expected to learn preparations of various documents involved in pharmaceutical industry in departments of regulatory affairs.

List of Practicals
- To prepare Master formula record (MFR) and study Batch formula record (BFR) for any two formulations.
- To prepare in process quality control (IPQC) protocol for any two formulations.
- To study and understand components of clinical research protocols.
- To prepare sample stability study protocol for any two formulations.
- To prepare sample Preclinical study reports and summaries.
- To prepare package design and package inserts for any two formulations.
- To study Specification and Method of analysis protocol for any one API.
- To prepare Analytical method validation protocol.
- To prepare modules of CTD document as per guidelines of regulatory agencies of different countries.
- To analyze cases related to the regulatory affairs.
- To study sample dossier for getting approval of solid dosage form (national and/or International) and to write dossier in group of 4-5 on any selected drug product.

Project Guidelines:
- Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

List of Projects
- Preparation of various document/s for registration of drug product in India.
- Preparation of drug master file for registration of drug in India, USA & EU.
- Analysis of cases related to the regulatory affairs.
- Preparation of modules as per ASEAN, ICH & WHO guidelines.
- Preparation of dossiers as per guidelines of regulatory agencies of different countries.

References:
1. Medical Product Regulatory Affairs: Pharmaceuticals, Diagnostics, Medical Devices By John J. Tobin and Gary Walsh
2. FDA Regulatory Affairs: A Guide for Prescription Drugs, Medical Devices, and Biologics, Second Edition by Douglas J. Pisano and David S. Mantus

3. Good Drug Regulatory Practices: A Regulatory Affairs Quality Manual (Good Drug Development Series, Vol. 1 by Helene I. Dumitriu
4. CGMP-a good manufacturing practice for pharmaceuticals, Manohar Potdar, Pharmamed press, 2008.
5. Validation in Pharmaceutical Industry (Concept, Approaches & Guidelines), P.P.Sharma, Vandana Publications, New Delhi.
6. Official website of regulatory agencies of different countries.

Elective on
Sterile Products Technology

Semester - VI

Sterile Products Technology (PH 326.6)

Credits: 2 (Theory) **Contact Hours Per Week: 2 (Theory)**

Course objective:

- To understand the basic fundamentals of sterile dosage forms.
- To know the types of sterile dosage forms used pharmaceutical field.
- To get familiar with the layout and GMP guidelines for sterile dosage forms.

Learning Outcomes:

- By the end of this course, the student should have good understanding of the basic concepts of sterile products in pharmacy.
- Students should gain knowledge of the sterile products' characteristics and their plant layout designing.

Outline of the course (Theory):

Sr. No.	Title of the unit	Minimum no. of contact hrs.	Approx. Weightage %
1	Introduction to Sterile Dosage Forms.	10	33
2	Design consideration for sterile production facility.	08	27
3	Environmental control in production of sterile dosage forms.	06	20
4	GMP Requirements for sterile products.	06	20
Total		**30**	**100%**

Detailed Syllabus

Sr. No.	Title of the Topic	Contact Hours	Reference No.
1	**Introduction to Sterile Dosage Forms:** Historical background, their importance, types with routes of administration, characteristics, WFI management.	10	1,2,3,5
2	**Design consideration for sterile production facility:** Plant Layout – small and large scale, flow of work, flow of material and flow of personnel, Instruments' location.	08	1,6
3	Environmental control in production of sterile dosage forms.	06	4
4	GMP Requirements for sterile products.	06	1,2

Pedagogy:

The course will transact with aim of participation and one to one learning through active classroom interaction, group discussion and presentation mode.

- Classroom teaching :- 15 hrs
- Case study :- 05 hrs
- Group Discussions :- 05 hrs
- Students' Presentations :- 05 hrs

Recommended Study Materials:

1. The theory and Practice of Industrial Pharmacy, Leon Lachman, Lea & Febiger, Varghese Publication House Bombay.
2. Remington's Pharmaceutical Sciences, Edited by A.R. Gennaro, Mack Publishing Co.
3. Pharmaceutical Dosage forms: Parenteral, Vol.: I,II, III, Leon Lachman, K.E. Avis, Marcel Dekker inc., NY.
4. Pharmaceutics: The science of dosage form design, Edited by M.E. Aulton. Churchill Livingstone, New York.
5. Indian Pharmacopoeia, Published by Indian Pharmacopoeial Commission, Ghaziabad.
6. Pharmaceutical Production Facilities, Design and Applications: Graham C. Cole, CRC Press In

Semester-VII

Sterile Products Technology –II (PH420.6)

Credits: 2 (Theory) **Contact Hours per week: 2 (Theory)**

Course Objective :

- To introduce about the routes of administration and the other anatomical aspects for the administration of sterile dosage forms.
- To understand the various approaches for the effective drug delivery through understanding of manufacturing and packaging equipments.
- To make students familiar with various sterile dosage forms and its applications.

Learning Outcomes:

- Students are expected to learn the formulation and quality control aspects of various sterile dosage forms with the specific emphasis on construction and working of equipments.
- Students should understand applications of sterile dosage forms in manufacturing and packaging of drugs/dosage forms.

Outline of course:

No.	Unit	Minimum No. of Contact Hours Approx.	Weightage %
1	Introduction to Sterile dosage forms	08	27
2	Formulation of Sterile dosage forms	12	40
3	Quality Control of Sterile Products	10	33
	Total	**30**	**100%**

Detailed Syllabus

Sr. no.	Unit Details	No. of Hours
1	Introduction to Sterile dosage forms: - Introduction of Parenteral and non-parenteral dosage forms. - Approaches for drug delivery and associated Complications. - Application of sterile dosage forms.	08
2	Formulation of Sterile dosage forms: - Formulation methods, Manufacturing and packaging of Parenterals with focus on equipment for Large volume parenterals (LVP), Small Volume parenterals (SVP), Suspension, Emulsion, Dry powders, Solutions etc. - Formulation methods, manufacturing & packaging of ophthalmic with focus on equipment for Eye drops, ophthalmic suspension, eye lotion, ophthalmic ointments, contact lens solutions etc.	12
3	Quality Control of Sterile Products: Evaluation of sterile products with respect to sterility and Package integrity.	10

Pedagogy:

The course will transact with aim of participation and one to one learning through active classroom interaction, group discussion and presentation mode.

- Classroom teaching :- 15 hrs
- Case study :- 05 hrs
- Group Discussions :- 05 hrs
- Students' Presentations :- 05 hrs

Recommended Study Materials:

1. The Theory & Practice of industrial pharmacy, Leon Lachman, Lea & Febiger, Varghese Publication House Bombay.
2. Pharmaceutical dosage forms: Parenteral, Vol.: 1, 2, 3, Leon, Lachman, K. E. Avis, Marcel Dekker inc. N.Y.
3. Pharmaceutics: The science of dosage form design, Edited by M.E. Aulton. Churchill Livingstone, New York.
4. Handbook of Pharmaceutical Manufacturing Formulations: Sterile Products, Sarfaraz K. Niazi Volume 6, Informa Healthcare USA, Inc.2009.
5. Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing, Michael J. Akers, Daniel S. Larrimore, and Dana Morton Guazz, volume 125.

SEMESTER - VIII

STERILE PRODUCTS TECHNOLOGY IV (PH426.6)

Credits: 3(Practical) **Contact Hours per week: 3(Practical)**
Credits: 3 (Project) **Contact Hours per week: 3(Project)**

Course Objective:

- To empower students to learn the industrial processes they encounter and to continue to appreciate it through qualification and inculcate in their technical skills.
- To demonstrate technical skills for Sterile Products Manufacturing and training of students for manufacturing of Sterile Preparations on Lab Scale

Learning Outcomes :

- The students are expected to learn formulation and development aspects of various sterile products
- Students expected to understand the concept of Lyophilization and critical parameters to be taken into consideration while developing a freeze drying cycle.

List of Practical:

- To prepare and evaluate 5% dextrose injection.
- To prepare and evaluate 0.5% ciprofloxacin eye drop.
- To demonstrate various aspects of environmental monitoring.
- To demonstrate freeze drying process and freeze drying cycle development.
- To develop freeze drying cycle for 5% Dextrose Solution.
- Freeze drying of Pharmaceutical product: To study the Annealing Phenomena.
- To study the Effect of freezing rate on Pharmaceutical product during Lyophilization process.
- To study the effect of different Lyo-protectant on Pharmaceutical product during Lyophilization process.
- To study the effect of different various concentration of Lyo-protectant on Pharmaceutical product during Lyophilization process.
- To evaluate marketed sterile implant/device product.
- To Design and develop of peptides, proteins & Medical device

Project Guidelines:

Individual /Group projects will be given to the students. The project can be a minor research / field work type, which could be conducted in-house or the students can be deputed for the same in any recognized academic, research or clinical organization.

Sr. No	Work	Hours allotted
1	Discussion with Mentor	10
2	Experimental project /Field work	25
3	Write up, analysis of data and compilation.	10

List of Projects:

- Study of different Lyo-protectant on Pharmaceutical product during Lyophilization process.
- Study of marketed sterile implant/device product.
- Design and development of peptides and proteins
- Design and development of Medical device
- Formulation, evaluation and packaging of parenteral products
- Formulation, evaluation and packaging of ophthalmic products

Recommended Study Materials:

1. The Theory & Practice of industrial pharmacy, Leon Lachman, Lea & Febiger, Varghese Publication House Bombay.
2. Remington's Pharmaceutical Sciences , Edited by A. R. Gennaro, Mack Publishing Co,

3. Pharmaceutical dosage forms: Parenteral, Vol.: 1, 2, 3, Leon, Lachman, K. E. Avis, Marcel Dekker inc. N.Y.
4. Indian Pharmacopoeia , published by Indian Pharmacopoeial commission, Ghaziabad
5. United State Pharmacopoeia, United State Pharmacopoeial convention INC.
6. British Pharmacopoeia , British Pharmacopoeia commission office, U.K.
7. Handbook of Pharmaceutical Manufacturing Formulations: Sterile Products, Sarfaraz K. Niazi Volume 6, Informa Healthcare USA, Inc.2009.
8. Encyclopedia of Pharmaceutical Technology, Jasmes Swarbrick and James C. Boylan, Marcel Dekker Inc., New York.
9. Achieving Sterility in Medical and Pharmaceutical Products, Nigel A. Halls, volume 64.
10. Development of Biopharmaceutical Parenteral Dosage Forms, edited by John A. Bontempo, volume 85.
11. Parenteral Quality Control: Sterility, Pyrogen, Particulate, and Package Integrity Testing: Third Edition, Revised and Expanded, Michael J. Akers, Daniel S. Larrimore, and Dana Morton Guazz, volume 125.
12. Ophthalmic Drug Delivery Systems: Second Edition, Revised and Expanded, edited by Ashim K. Mitra, volume 130.
13. Injectable Dispersed Systems: Formulation, Processing, and Performance, edited by Diane J. Burgess, volume 149.
14. Environmental Monitoring for Cleanrooms and Controlled Environments, edited by Anne Marie Dixon, volume 164.
15. Freeze-Drying/Lyophilization of Pharmaceutical and Biological Products: Second Edition, Revised and Expanded, edited by Louis Rey and Joan C. May, volume 137.

Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa

Curriculum feedback analysis and action taken report
Academic Year: 2016-2017

Stake holder	No of feedback received	% feedback analysis	Major concerns	Action taken
Students	83	74	The students must show holistic growth in terms of co and extracurricular activities along with the regular teaching and learning. The curriculum should make them technically sound to solve on-job problems.	Students were counselled and encouraged to participate in various technical and non-technical events organized with-in and outside the institute and university. (Annexure-I: Annual Report of RPCP-A. Y. 2017-18 highlighted a student participation in various technical and non-technical events organized by RPCP)
Alumni	14	94	No major concern was shown by the alumni for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Employers	5	96	No major concern was shown by the employers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Tèachers	20	92	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Parents	14	87	Academic avenues for teaching learning processes	The examination system has been modified to incorporate assignments and presentations as a part of continuous evaluation of students. The project component is also added in the final year elective course to imbibe research skills. (Annexure-II: Scheme to Teaching and Evaluation)

Manan

Ramanbhai Patel College of Pharmacy
CHARUSAT
CHANGA

RAMANBHAI PATEL COLLEGE OF PHARMACY

Annual Report



Academic Year: 2017-18

CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Accredited with "A" grade by NAAC, Govt. of India

RPCP JOURNEY SO FAR . . .

Ramanbhai Patel College of Pharmacy (RPCP) was established in the year 2004 with a view to promote excellence in pharmacy education and to prepare young talent to meet the challenges of Industrial Pharmacy and Pharmacy Practice. The institute has been patronized by Shree Pankaj Patel, Chairman and MD, Zydus Cadila Healthcare Ltd to commemorate his father, Late Shri Ramanbhai Patel. M.Pharm programs at RPCP are executed under the auspices of T.P.Patel Centre for PG studies in Pharmacy. The centre in patronized by Shri Jagdishbhai Patel, Principal Manager, KBR, USA and Shri H. T. Patel, Former President – API Business at Zydus Cadila Healthcare Ltd and their families to monumentalize their father, Late Shri T. P. Patel.

RPCP offers 1 UG (B.Pharm.) and 5 PG (M.Pharm.) programmes with specializations in Pharmaceutical Technology, Quality Assurance, Clinical Pharmacy, Pharmacology & Toxicology, and Pharmaceutics - Drug Regulatory Affairs.

Two post graduate diploma programs, namely Post Graduate Diploma in Cosmetic Technology and Post Graduate Diploma in Packaging Technology are also being offered.

The Doctorate program is offered in full time as well as part time mode in the areas of Pharmaceutics, Pharmaceutical Analysis, Pharmacognosy, Pharmacology, Clinical Pharmacy and Pharmaceutical Chemistry.

INFRASTRUCTURE AND LEARNING RESOURCES

The institute provides well furnished laboratories equipped with sophisticated instruments and equipments. There is also the facility of Cell culture laboratory, temperature and humidity controlled lab, Seminar Hall, Herbal garden, and CPCSEA approved Animal house. There are 2 Computer Labs equipped with more than 40 computers with latest configurations. RPCP Students have access to 100 mbps internet connectivity and Wi-Fi facility. Some softwares like Eigen Vector for Chemometrics, White Smoke for Proof reading, End note, Design expert and Turnitin are also used in research work.

The electronic learning environment is provided to the students through the use of Interactive Pads named eBeam for teaching and tablets for examination purpose. In addition to the resources available in the Central Library, Institute Library houses Books and CDs, Journals and Magazines along with Online Resources. The total number of books in RPCP library include 2686 titles in multiple volumes to give a total of 8036. Journals subscribed by the library include 32 national and 05 international, more than 135 e. journals and 32 eBooks. Additionally, there are more than 161 CDs for the students to refer to. Procuring new books, CDs, and subscribing new Journals is an ongoing process.

Academics And Examinations At Rpcp

ACADEMICS AND EXAMINATIONS AT RPCP

ADMISSION

Pharmacy was a less preferred choice among the XII standard pass out students which has been improved and it reflected as 115 admissions to First Year B. Pharm. Among the B. Pharm graduating students, continuing with Masters' program was less preferred. Total M.Pharm. students enrolled in this year are 40 in various departments. 13 research scholars joined the Doctoral program under faculty of Pharmacy.

INNOVATIONS IN CURRICULAR DESIGN AND TRANSACTION

The syllabi of the courses of B.Pharm program have been revised for the up-gradation and to add more subjects in elements of electives to mould the students for better market acceptability.

EXPERT LECTURES

Guest Lecture Series has been initiated at RPCP with the objective of providing a platform for discussion and deliberations to students with renowned researchers and academicians and learn from their experiences. It is expected that such interaction would light the spark in the minds of the students and persuade them to innovate and research. Guests are invited to visit RPCP, CHARUSAT and deliver lectures/ presentations every alternate Saturday.

Sr. No.	Academic Year	No. of Expert Lectures Organized
1	2011-12	04
2	2012-13	10
3	2013-14	14
4	2014-15	11
5	2015-16	10
6	2016-17	06
7	2017 -18	07

Item # RPCP-AB-4.02:

For information; Guest Lecture / Expert Lecture.

Guest Lecture Series has been initiated at RPCP with the objective of providing a platform for discussion and deliberations to students with renowned researchers and academicians and learn from their experiences. It is expected that such interaction would light the spark in the minds of the students and persuade them to innovate and research. Guests are invited to visit RPCP, CHARUSAT and deliver lectures/ presentations every alternate Saturday. In all 7 expert lectures were organized by experts from Industry and Academia from India as well as abroad. The following table provides the details of the expert lectures organized by RPCP for UG, PG and Ph.D. programmes.

Sr. No.	Name of the Guest Faculty	Date	Topic	Name of Faculty coordinator
1	Dr. RafiyuddinMathakiya	23/09/2017	Genetic Recombination	Dr. Ravish Patel & Dr. Amit Patel
2	Dr. Saikat Pande A. R. College of Pharmacy	05/10/2017	Bioavaibility	Dr. Mrunali Patel and Ms. Mansi Paradkar
3	Dr. Dharmendra Jani	21st August 2017, Monday	Introduction to Manufacturing of classical Ayurvedic formulations	Dr. Niraj Vyas
4	Dr. Anuradha Joshi	09/10/2017	Sources of errors in	Dr. Gayatri Patel and

			prescription	Ms.JagrutiPrajapati
5	Dr.Sunil Trivedi Professor, Institute of Human Genetics Ahmedabad	22/02/2018	Gene Therapy	Dr. Sandip Patel
6	Viral Jaggivala			
7	Dr. Prakash Koringa, Asst. Professor, AAU, Anand	12/03/2018	Genomics	Mr. Umang Shah

STUDENTS' ACTIVITIES

Achievements:

HiteshreeRaofromM.Pharm DRA Part II had secured **1st Prize** in Poster Presentation competitionof National Seminar on New insights into Molecular Structure: Problem to Solution, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT on 4th March, 2017.

Bansari Patel fromM.Pharm DRA Part II had secured **1st Prize** in poster presentation at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Janam DesaifromM.PharmQA Part II had secured **1st Prize** in Teacher's Day Celebration of Ramanbhai Patel College of Pharmacy.

Desai Vraj, SachiKalolaand **Patel Anjali**from 1st year B.Pharm had secured **1st position** in poster presentation competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

ShivkumarVijayakumarfrom 1st year B.Pharm had secured **1st position** in Youth Zest competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Urmit Patelfrom 1st year B.Pharm had secured **2nd position** in Sketch It competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

JhanviVyasfrom 1st year B.Pharm had secured **3rd position**at State Ancient Garba Competition, organized by Department of Youth and Cultural Events, Government of Gujarat, Gandhinagar on 22nd September, 2017.

Sweta Shah and**VishwaPatel** from 2nd Year B.Pharm had secured **1st position** in Poster Presentation competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

ShreyasChattbarfrom 2nd Year B.Pharm had secured **1st position** in Photography competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

RamizaMansuri and **TatveeMendha**from 2nd Year B.Pharm had secured **1st position** in debate competition, organized by Equal Oppurtunity Cell(EOC), CHARUSAT.

Rushi Joshi and **AshfakKaghzi** from 2nd Year B.Pharm had secured **1st position** in Debate competition on World Pharmacist Day celebration at Ramanbhai Patel College of Pharmacy, CHARUSAT.

Simmi Patel, JeetMunjani, Harman Bhagat and Heena Patelfrom2nd Year B.Pharmhad secured 1st position in Pharma race on World Pharmacist Day celebration at Ramanbhai Patel College of Pharmacy, CHARUSAT.

A **team of 10 students** from 2nd Year B.Pharm had presented a Skit on World Pharmacist Day celebration at Ramanbhai Patel College of Pharmacy, CHARUSAT and secured **1st position.**

JeetMunjanifrom 2nd Year B.Pharm had secured **2nd position** in photography competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

JeetMunjani, DrashtiMistryand **Nancy Banker** from 2nd Year B.Pharm had secured **2nd position** in Poster presentation competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Hinal Patel from 2nd Year B.Pharm had secured **2nd position** in Sketch It competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Nensi Patel and **Vaishnavi Patel** from 2nd Year B.Pharm had secured **2nd position** in Prep-o-spot event at Footprints'18, organized by M S University, Baroda in February, 2018.

JeetMunjani, **Vishwa Patel** and **Janvipatel** from 2nd Year B.Pharm had secured **2nd position** in Mind Spot event atConvegno, 2018, organized by I2IM, CHARUSAT.

JeetMunjani, **Vishwa Patel** and **Janvi Patel** from 2nd Year B.Pharm had secured **2nd position** in Case Analysis event at Convegno, 2018, organized by I2IM, CHARUSAT.

JhanviSoni from 2nd Year B.Pharm had secured **2nd position** in My Self medicine at National Pharmacy Week organized bySardar Patel Education Campus, December'17.

Megha Dave and **SwetaPatel** from 2nd Year B.Pharm had participated in Poster Presentation competition on World Pharmacist Day celebration at Ramanbhai Patel College of Pharmacy, CHARUSAT and secured **2nd position**.

MihirKachhia from 3rd yearhad achieved**High Recommendation** in first edition of CHARUSAT MUN.

Twinkle Patelfrom 3rd Year B.Pharm had secured 1st position in in Discuss throw and 2nd position in Ball throw competition of KhelMahakumbh2017 .

JeelChauhan from 3rd Year B.Pharm Pharm had secured **2nd position** in Youth Zest competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Darshan Contractor and**PoojaGori** from final year B.Pharm had secured **1st position** in Psycothon competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

PoojaGori and **Riya Patel**from final year B.Pharm had secured **2nd position** in Pharmapreneurcompetition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Harsh Kakkad, JenilPancholiand**Vatsal Patel**from final year B.Pharm had secured **2nd position** in Just Do It competition at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Participation:

Desai Janam and Shah HarshalfromM.PharmQA Part II had participated and presented poster in a two day National Seminar and Workshop on "Optimization and screening of variables by DoE", organized by SumandeepVidhyapeeth, Vadodara.

Desai Janam and Patel NidhifromM.Pharm QA Part II had participated and presented poster in 5th Indo-West Indies conference on "Mordern Trends In Pharmaceuticaleducation and Research", organized by Indubhai Patel College of pharmacy and reserch centre, Dharmaj.

Megha Dave,AyushiManjani and Sharvary PatelfromM.Pharm DRA Part II had participated and presented poster in National seminar on optimisation and screening of variables by DoE, organized by SumandeepVidhyapeeth.

Megha Dave and Sharvary Patel fromM.Pharm DRA Part II had attended a seminar on Interpretation and Application of DoE in pharmaceutical research", organized by Saurashtra University, Rajkot.

AyushiManjani and Sharvary Patel fromM.Pharm DRA Part II had attended and presented poster in 4th Nirma Institute of Pharmacy International Conference, organized by Institute of Pharmacy, Nirma University during 23-25 January 2018.

AyushiManjani and Sharvary Patel fromM.Pharm DRA Part II had attended and presented poster in Poster presentation at Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

9 students from M.Pharm (Clinical Pharmacy) and 3 students from M.Pharn (Pharmacology and Toxicology) had participated in ICMR sponsored one day seminar on "Pharmacovigilance : Recent Aspects and Future Prospectus" at Faculty of Pharmacy, Dharmsinh Desai University on 19th Januar,2018.

All the students from M.Pharm PT, DRA, QA, CP and CT had attended a National seminar on new insights into Molecular Structure: Problem to Solution, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT on 4th March, 2017.

Krishna Patel, Preksha Patel and **PushtiGandi** from 1st year B.Pharm had participated in Encuesta:The Quizzing Carnival, organized by Institute of Language Studies and Applied Social Sciences, VV Nagar on 24th February, 2018.

JhanviVyas from 1st year B.Pharm had participated in Vasantoutsav 2018, organized by Department of Youth and Cultural Events, Government of Gujarat, Gandhinagar on 24th February 2018.

JhanviVyas from 1st year B.Pharm had participated in44thIndian Tourist and Industrial Fair 2018, organized by Island Ground, Chennai-09 on 15th January 2018.

14 students from 1st year B.Pharm had participated inPharmafest'18, organized by PharmaGup-shup on 9th February 2018.

93 students from 1st year B.Pharm had participated in various events of Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

17 students from 2nd Year B.Pharm had participated and presented Posters at National Pharmacy Week celebration organised bySardar Patel Education Campus on 27th December, 2017.

Vishwatalati, **Vishwapatel** and **Sweta shah** from 2nd Year B.Pharm had attended NSS Camp at Khandli village from 1st January 2018 to 7th January, 2018.

JhanviSoni and Sweta Shah from 2nd Year B.Pharm had attended an International Conference organized by Indian pharmacological society (WRIPSCON), 19th August, 2017.

Jhanvisoni from 2nd Year B.Pharm had attended and given presentation at State Level presentation competition held at Gujarat University on 20th January, 2018.

72 students from 2nd year B.Pharm had participated in various events of Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Nandpal Manish from 3rd Year B.Pharm had participated in chess competition in Pharmafest'18 organised by Parul university on 8th February, 2018.

Ronak Parikh and **RashmiHemani**from 3rd Year B.Pharm had participated in Poster making competition at National Pharmacy Week Celebration, organized by Sardar Patel Education Campusduring 26th to 30thDecember 2017.

Neel Ghoghari and **Jigar Mehta**from 3rd Year B.Pharm had participated in Essay Writing Competition at National Pharmacy CelebrationWeek organized by Sardar Patel Education Campus on 26-30Dec'17.

Rahul Lalwani from 3rd Year B.Pharm had attended and participated in Powerpoint Presentation at Pharmavision'18,organized by Arihant School of Pharmacy.

Rahul lawanifrom 3rdyear B.Pharm had participated in Debate Competition, organized by EOC, CHARUSAT.

40 students from 3rdyear B.Pharm had participated in various events of Avalanche'18, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT during 15th and 16th February, 2018.

Sports:

A team of 15 players comprising of boys students and staff members of RPCP had participated in Cricket tournament held as part of PharmaRebattle 2017 during 10th to 12th October 2017 and had secured **runner up position.**

MihirKachhia from 3rd Year B.Pharm was awarded as **Bowler of the tournament in Boys** cricket at PharmaRebattle 2017, organized by RPCP, CHARUSAT during 10th to 12th October 2017.

A team of 15 players comprising of girls students of RPCP had participated in Cricket tournament held as part of PharmaRebattle 2017 during 10th to 12th October 2017 and had **secured 1stposition.**

Rashmi Hemani from 3rd Year B.Pharm was awarded as **Bowler of the tournament in Girls** cricket at PharmaRebattle 2017, organized by RPCP, CHARUSAT during 10th to 12th October 2017.

PoojaGori from final Year B.Pharm was awarded as **Batsman of the tournament inGirls** cricket at PharmaRebattle 2017, organized by RPCP, CHARUSAT during 10th to 12th October 2017.

A team of 12 players comprising of Boys of RPCP had Participated in Pharmacy sports championship'17 organised by KB Raval College Of Pharmacy during 16-17 September, 2017.

Dharmiki Patel from 1st year B. Pharm secured **Runner up** Position in Girls Badminton tournament held as part of PharmaRebattle 2017 during 10th to 12th October 2017.

Haritpatel from 2nd Year B.Pharm had represented the university cricket team and pariticpated in national cricket tournament organized in Bhopal during 17-18 Feb, 2018.

Princydobaria had represented the university volleyball team and pariticpated in West zone inter-university Volleyball Tournament, organized by Manipal University during October, 2017.

Vishwa Patel from 2ndYear B.Pharm had participated in Girls Table Tennis tournament held as part of PharmaRebattle 2017 during 10th to 12th October 2017 and secured **runner up position.**

NaziyaSaiyadfrom 3rd Year B.Pharm had participated in Girls Carrom tournament held as part of PharmaRebattle 2017 during 10th to 12th October 2017 and secured **1st position**.

Manish Nandpalfrom 3rd Year B.Pharm had participated in Chess competition held as part of PharmaRebattle 2017 during 10th to 12th October 2017 and secured **Runner up position**.

BrijeshVirpara from 3rd Year had represented the university Kabaddi team and pariticpated in GNLU organised on 9-12 Feb,2018 and PDPU organised on 16-17 February ,2018

MihirKachhia represented the university cricket team and pariticpated in West zone inter-university Cricket Tournament, organized by Barkatullah University , Bhopal during 17-18 February, 2017.

A team of 7 RPCP boys comprising of Deep Patel, MihirKachhia, Dhruvil Patel, Harsh Rajgor, JenilPanchali, DivyeshDobariya and Parth Shah hadsecured **Runners up position in** Boys Football tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

A team of 7 RPCP boys comprising of RajanSoni, BrijeshVirpara, DarshVyas, Keval Shah, Harit Patel, Manthan Shah, AshfakKagzi and Aditya Patel had secured **Runners up position in** Boys Kabaddi tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

A team of 7 RPCP boys comprising of AkhileshNadagouda, DivyeshDobariya, MihirKachhia, Dhruvil Patel, Aditya Patel and Raj Parmarsecured **Runners up position in** Boys Basketball tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

Cultural :

Fashion show:

A team of Boys and Girls of RPCP comprising of Mishi Dave, Jhanvi Patel, Dhvani Dave, Jahnavi Patel, Mehal Patel, JhanviThakkar, Dhruvi Patel, RamizaMansuri, Margi Shah, Manthan Shah, Siddharth Chokshi, Harit Patel, Shivam Patel, Meet Shah, AshfakKagzi, Aditya Patel And ParagKachhadiya secured **FIRST position** in Fashion Show Event held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Cartooing:

JeelChauhanfrom 3rd year B.Pharm had secured **FIRST position** in Cartooning Event held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Poetry writing:

Nehali Patel from final year B.Pharm had secured **FIRST position** in Poetry writing held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Photography:

Parth Shahfrom 3rd year B.Pharm had secured **FIRST position** and **Harman Bhagat**from 2nd year B.pharm had secured **SECOND position** in Photography held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Clay Modelling and Collage making:

JhanviSonifrom 2nd year B.Pharm had secured **FIRST position** in Clay Modelling and **FIRST position** in Collage making competitions held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Classical Dance:

Dhwani Dave from 3rd year B.Pharm had secured **FIRST position** in Classical Dance held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

STUDENT TRAINING

Following is the List Of Companies where UG And PG Students Placed For Project:

List of companies:

1. Cadila Healthcare Ltd.
2. Pharmenza Herbal Pvt. Ltd.
3. Zydus Cadila, Moraiya Plant
4. Umedica Laboratories Pvt. Ltd
5. Sidmak Laboratories (INDIA) Pvt. Ltd.
6. Relax biotech Pvt.Ltd.
7. Galen Pharmaceuticals Limited
8. Vovantis Laboratories Pvt. Ltd
9. Cadila Pharmaceuticals Ltd.

10. Baroque Pharmaceutical, Khambhat

List of Hospitals:

1. Kailash Cancer Hospital
2. Muljibhai Patel Research Society

EDUCATIONAL TOUR /VISIT

Sr. No	Name of the company	Date	Participation	Remarks
1	Cadila Healthcare Ltd, Moraiya Plant	02/08/2017	7th Semester B.Pharm	54 Students
2	Sotac Pharma, Sanand, Ahmedabad	15/03/2018	2nd Semester B.Pharm	115
3	Ayur Lab, Baroda	15/03/2018	4th Semester B.Pharm	92
4	SanjarPharma, Himatnagar	15/03/2018	8th Semester B.Pharm	58
5	Synchron Research Services Pvt. Ltd., Ahmedabad	13/02/2018	M.Pharm. (C.T. + C.P.)	11
6	Jai Research Foundation, Daman	In process	M.Pharm. (P.T. + Q.A. + DRA)	28

EVALUATION SYSTEM

PCI syllabus and scheme of evaluation is implemented from this A.Y.

RESULTS

Total graduated students = UG Students (63), PG Students (20)

	Result Analysis B.Pharm. and M.Pharm. (Updated till A.Y. 2017 – 2018 - till winter Dec 2017 examination)					
Class	**Total**	**Distinction**	**First Class**	**Second Class**	**Pass Class**	**Fail**
1st sem. B.Pharm.	115	31	55	00	00	29
2nd sem. B.Pharm.	94	46	34	03	00	11
3rd sem. B.Pharm.	92	44	32	05	00	11
4th sem. B.Pharm.	89	25	32	10	00	22
5th sem. B.Pharm.	90	21	37	09	00	23
6th sem.	56	20	20	04	00	12

B.Pharm.						
7th sem. B.Pharm.	53	20	19	06	00	08
8th sem. B.Pharm.	68	20	28	15	00	05

STUDENT PROGRESSION

Extra Curricular Activities

PHARMA REBATTLE 2017 (10-12 October 2017)

Boys Cricket tournament:

- A team of 15 players comprising of boys students and staff members of RPCP participated in Cricket tournament held as part of Pharma Rebattle 2017 during 10th to 12th October 2017.
- RPCP Boys cricket team secured 2nd rank in the tournament and awarded with certificates and trophy.
- MihirKachhia of 5th sem. B.Pharm was awarded as Bowler of the tournament in Boys cricket.

Girls Cricket tournament:

- A team of 15 Girls of RPCP participated in Cricket tournament held as part of Pharma Rebattle 2017 during 10th to 12th October 2017.
- RPCP Girls cricket team secured 1st rank in the tournament and awarded with certificates and trophy.
- Rashmi Hemani of 5th sem. B.Pharm was awarded as Bowler of the tournament in Girls cricket.
- Pooja Gori of 7th sem. B.Pharm was awarded as Batsman of the tournament in Girls cricket.

Badminton Tournament:

- Dharmiki Patel of 1st sem. B. Pharm secured Runner Up Position in Girls Badminton tournament.


CHARUSAT
13

SPOURAL 2018

Boys Football tournament:

A team of 7 RPCP boys comprising of **Deep Patel, MihirKachhia, Dhruvil Patel, Harsh Rajgor, JenilPanchali, DivyeshDobariya and Parth Shah secured Runners up position and awarded with certificates and trophy** in **football** tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

Boys Kabaddi tournament:

A team of 7 RPCP boys comprising of **RajanSoni, BrijeshVirpara, Darsh Vyas, Keval Shah, Harit Patel, Manthan Shah, AshfakKagzi and Aditya Patel secured Runners up position and awarded with certificates and trophy** in **Kabaddi** tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

Boys Basketball tournament:

A team of 7 RPCP boys comprising of **AkhileshAdagouda, DivyeshDobariya, MihirKachhia, Dhruvil Patel, Aditya Patel and Raj Parmarsecured Runners up position and awarded with certificates and trophy** in **Basketball** tournament held as part of SPOURAL 2018 during 1st to 8th January 2018.

ACHIEVEMENTS IN CULTURAL ACTIVITIES SPOURAL 2018

Fashion show:

Boys and Girls of RPCP comprising of **Mishi Dave, Jhanvi Patel, Dhvani Dave, Jahnavi Patel, Mehal Patel, Jhanvi Thakkar, Dhruvi Patel, RamizaMansuri, Margi Shah, Manthan Shah, SiddharthChokshi, Harit Patel, Shivam Patel, Meet Shah, AshfakKagzi, Aditya Patel And Parag Kachhadiya secured FIRST position and awarded with certificates and trophy** in **fFashion Show Event** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Cartooing:

Jeel Chauhan of RPCP **secured FIRST position and awarded with certificates and trophy** in **Cartooning Event** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Poetry writing:

Nehali Patel of RPCP **secured FIRST position and awarded with certificates and trophy** in **Poetry writing** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Photography:

Parth Shah of RPCP **secured FIRST position and Harman Bhagat of RPCP secured SECOND position and awarded with certificates and trophy** in **Photography**held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Clay Medelling:

JhanaviSoni of RPCP **secured FIRST position and awarded with certificates and trophy** in **Clay Modelling** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Collage making:

JhanaviSoni of RPCP **secured FIRST position and awarded with certificates and trophy** in **Collage making** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

Classical Dance:

Dhwani Dave of RPCP **secured FIRST position and awarded with certificates and trophy** in **Classical Dance** held as a part of SPOURAL 2018 cultural festival of University during 9-11 January 2018.

STUDENT SUPPORT

Placements A.Y. 2016 – 2017

Final Data for placement for batch 2016-17 (A.Y)
Companies Contacted for Placement: 22
Placement of Student (%):88

Students	Total Students	No. of students Shows willingness for Placement	Willingness After GPAT Result*	No. of students having offer from industry	No. of students have joined	% Placement as per offer received	% Placement as per Joined
UG	68	04	04	04	04	100	100
PG	31	21	NA	19	19	90.47	90.47

***We have received inquiry for recruitment from Vovantis Pharma, West Coast Pharmaceutical, JB Chemical and IPCA for B.Pharm and M.Phram Students. But students did not shown willing to appears interview in such companies**

Our students have offered and Placed in followings companies (09 Companies)

- Torrent Research Center, Bhat
- Synzeal Research, Ahmedabad
- Torrent Research Center, Bhat
- Cadila Healthcare Ltd., Ahmedabad
- Baroque Pharmaceuticals Pvt.Ltd., Khambhat
- Rathi Hospital, Ahmedabad
- BAPS Hospital, Surat
- APPLE Hospital, Surat
- Macleods Pharmaceutical Ltd., Ankleshwar

Campus drive organized at RPCP

1. Cadila Healthcare Ltd
2. Torrent Research Center
3. Intas Pharmaceutical Ltd
4. Baroque Pharma (Off Campus)

M.Pharm (Quality Assurance)

(12 Students of M.Pharm has shown willingness and Registered for placement Assistance by RPCP)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
15MPHQA001	BRAHMBHATT HARSHKUMAR R.	Torrent Research Center, Bhat	June 2017	2.50 lakh
15MPHQA002	DAVE BHUMI JAYANTKUIMAR	SynZeal Research, Ahmedabad	June 2017	1.85 Lakh
15MPHQA003	DESAI BHUMIKA SHAILESHBHAI	Torrent Research Center, Bhat	June 2017	2.50 lakh
15MPHQA004	DESAI KRINA SURESHBHAI	Accutest research center, Ahmedabad	Nov 2017	1.80 lakh
15MPHQA005	PATEL DIVYA DILIPBHAI	Torrent Research Center, Bhat	June 2017	2.50 lakh
15MPHQA006	PATEL NISHITKUMAR DINESHBHAI	Baroque Pharmaceuticals Pvt.Ltd., Khambhat/ Ph.D. at RPCP	June 2017	1.68 lakh
15MPHQA007	PATEL NIZAM MAHAMED	Glenmark Generics Limited	August 2017	1.80 lakh
15MPHQA008	PATEL PARTHKUMAR RAKESHBHAI	Higher Study		
15MPHQA009	PATEL PRARTHNA MAHESHBHAI	Maliba College of Pharmacy	August 2017	
15MPHQA010	PRAJAPATI URVISHABEN PRAKASHBHAI	Macleods, Ankleswar	June 2017	2.50 lakh
15MPHQA011	TELI KRUNAL LAXMANBHAI	Zydus Cadila Healthcare Ltd., Ahmedabad	June 2017	2.70 Lakh
15MPHQA012	PATEL DHAVALKUMAR	Baroque Pharmaceuticals Pvt.Ltd., Khambhat	June 2017	1.68 Lakh

15MPHQA013	SHARMA MAHAVIR	Baroque Pharmaceuticals Pvt.Ltd., Khambhat	June 2017	1.68 lakh

M.Pharm (Pharmaceutical Technology)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
15MPHPT001	PATEL KRIYESH NARESHBHAI	Higher study	--	---
15MPHPT003	RANA DHAVAL NAGINDAS	Healthcare formulation Pvt Ltd	August 2017	1.80 lakh

M.Pharm (Pharmaceutics- Drug Regulatory Affairs)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
15MPHRA003	GOHIL TEJASVINI MAHENDRASINH	Higher Study		
15MPHRA004	PATEL ANJALI JAGDISHBHAI			
15MPHRA005	PATEL ANUJ JAYANTIBHAI	Ph.D at RPCP		
15MPHRA006	PATEL BIJAL JAGDISHCHANDRA	Higher Study		
15MPHRA007	PATEL DHRUVI HARISHBHAI			
15MPHRA008	PATEL JANKI JAYESHBHAI	Higher Study		
15MPHRA009	PATEL MONIKABEN MANOJKUMAR	Higher Study		
15MPHRA010	PATEL SHACHIBEN RAKESHBHAI	Higher study		
15MPHRA011	SIJI JOHN .	Torrent Research Center, Bhat	June 2017	2.50 lakh
15MPHRA012	SINGH SHIVANGI DESHRATNA	Torrent Research Center, Bhat	June 2017	2.50 lakh
15MPHRA013	YADAV BINDU	Ph.D. at RPCP		

M.Pharm (Clinical Pharmacy)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
15MPHCP001	PATEL ASHITABEN DILIPBHAI	Rathi Hospital, Ahmedabad		
15MPHCP002	PATEL RIDDHIBEN BHUPENDRABHAI	Rathi Hospital, Ahmedabad		
15MPHCP003	PATEL SUCHITABEN SURESHBHAI	Higher study		
15MPHCP004	AVNI TANDEL	Apple Hospital, Surat	July 2017	2.0 Lakh
15MPHCP005	ISHITA CHAMPANERI	BAPS Pramukh Swami Hospital, Surat	July 2017	2.0 Lakh

Placement Details of B.Pharm

06 students were shown their willingness and eligible for placement.

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
12BPH025	PANDIT MRUGESH	CADILA HEALTHCARE LTD., AHMEDABAD	JUNE 2017	2.10
13BPH005	BITLA SPOORTHY	CADILA HEALTHCARE LTD., AHMEDABAD	JUNE 2017	2.10
13BPH012	JANI KRUPA ASHVINBHAI	CADILA HEALTHCARE LTD., AHMEDABAD	JUNE 2017	2.10
13BPH081	SHAH JAYKUMAR ANILKUMAR	CADILA HEALTHCARE LTD., AHMEDABAD	JUNE 2017	2.10

Placement - A.Y.2017 - 2018

Placement Summary

Students	Total Students	No. of students Shows willingness for Placement	Shown willingness for higher study	No. of students having offer from industry	% Placement as per offer received
UG	53	04	49	04	100
PG	19	13	06	05	38.46

Placement UG

RPCP ID No	Student Name	Job Offered	Salary Package
14BPH006	DALWADI KRUTI R.	Cadila Healthcare Ltd.	1.8
14BPH014	LIMBACHIYA VISHALKUMAR HASMUKHBHAI	Cadila Healthcare Ltd.	1.8
14BPH071	SAIYAD SOAEBALI PIRSABMIYA	Cadila Healthcare Ltd.	1.8
13BPH017	MOMIN ANISHA	Cadila Healthcare Ltd.	1.8

Placement PG

RPCP ID No	Student Name	Job Offered
16MPHQA003	DESAI JANAM DEVESHBHAI	Torrent Research Center, Bhat
16MPHQA004	MODHA AKSHAY	Higher studies
16MPHQA006	RAI AKSHITA	Torrent Research Center, Bhat
16MPHQA007	SHAH HARSHAL JAYESHBHAI	Torrent Research Center, Bhat
16MPHQA009	SHAH VIDHI ATULKUMAR	Torrent Research Center, Bhat

RPCP ID No	Student Name	Job Offered
16MPHRA002	MAJANI AYUSHI VINODBHAI	Torrent Research Center, Bhat
16MPHRA003	PATEL CHARMI JITESHBHAI	Higher Studies
16MPHRA006	RAO HITESHREE RAJESHKUMAR	Business

RPCP ID No	Student Name	Job Offered
16MPHCP001	PATEL HARSH	Higher Study
16MPHCP002	PATHAKDARSHAN	Family Business

RPCP ID No	Student Name	Job Offered
16MPHPT002	PATEL BANSARI A	Higher Study- Abroad
16MPHPT003	PATEL KAUSHALKUMAR KIRTIKUMAR	Family Business

Images:

Intas CDPC activities (Placement) :




CHARUSAT
Ramanbhai Patel
College of Pharmacy
VISION STATEMENT
MISSION STATEMENT



Entrepreneurship Development And Incubation Cell Of Rpcp (Rpcp-EDIC)

For Entrepreneurship Development, 'Business Plan Development Workshop' was organized from 19/02/2018 to 21/02/2018 in RPCP auditorium for final year B.Pharm. students sponsored by IIIM, CHARUSAT and in it, no. of Industry and Business Leaders were invited to discuss about their views with business plans.

RPCP-CHARUSAT AAPS STUDENTS CHAPTER

No any activity observed in this chapter.

ALUMNI ASSOCIATION

Total 2 alumni meets had been organized in this A.Y. 2017 - 2018

1st Meet at AMA, Ahmedabad

The Alumni meet 2017 was schedule on 14/10/2017 at Ahmedabad Management Association (AMA) ATIRA Campus, Dr. Vikram sarabhai Marg. Ahmedabad, Gujarat.

The event started at 5:30 onwards by registering all the present alumni, total 42 alumni were present during the events. Games were played and the alumni's participated very enthusiastically in the games. After registration welcome speech was given by Ms. Bindu Yadav she welcome all the alumni and wish them good luck in future. After welcome speech Principal Anuradha Gajjar mam addressed the Alumni, she informed them about the development happened in the Institutes and also made them aware about the technical events that are going to happen in the institutes such as Avalanche and spoural. Shradha mam informed about CHARUSAT Alumni Association (CAA) to the Alumni's and also about institutes after her speech regarding our institution.

Further Amit Patel Sir provided all the relevant information about institution its departments and also introduced the committee members of Alumni Association to Alumni's. He also told about the events held during 2017 such as Teachers day celebration, World Pharmacist day, Pharma Re-battle and also made them aware about the upcoming events that are going to take place in the institute like Refresher course, Avalanche 2k18 and Rapcopin 2k18. He also discussed about the meeting agenda to the Alumni and also he took suggestions from the Alumni's.

The following are the suggestion given by the Alumni's:

1) Effective communications like greetings should be provided to the Alumni's
2) Hard post letter should be send to the Alumni's
3) Proper link should be provided for the registration
4) Information should be gathered about the alumni's who are not in touch.
5) Contact list should be updated
6) Apps should be made for the registration of Alumni meet.

After taking all the suggestions we promised to the alumni's that there suggestions will be considered and fulfilled soon. At the end vote of thanks was given by Dr. JalpaSuthar mam.







2nd Meet in Avalanche 2018 at RPCP

The Alumni meet 2018 was schedule on 15/02/2018 at Ramanbhai Patel College of Pharmacy, Changa, Anand.

The event started at 5:30 onwards by registering all the present alumni, total 31 alumni were present during the events. After registration welcome speech was given by Mr. Amit Patel, he welcome all the alumni and wish them good luck in future. After welcome speech Principal Anuradha Gajjar mam addressed the Alumni, she informed them about the development happened in the Institutes and also made them aware about the technical events that are going on in the campus such as Avalanche and cultural night.

Further Amit Patel Sir provided all the relevant information about institution its departments and also introduced the committee members of Alumni Association to Alumni's. He also discussed about the meeting agenda to the Alumni and also he took suggestions from the Alumni's and also invited them to join cultural events in the evening. Present alumni's were felicitated by the chief guest Devang Joshi and Principal Anuradha Gajjar mam.

The following are the suggestion given by the Alumni's:

1) Effective communications like greetings should be provided to the Alumni's
2) Hard post letter should be send to the Alumni's
3) Proper link should be provided for the registration
4) Information should be gathered about the alumni's who are not in touch.
5) Contact list should be updated
6) Apps should be made for the registration of Alumni meet.

After taking all the suggestions we promised to the alumni's that there suggestions will be considered and fulfilled soon.

As a part of the meet, Notable alumni were felicitied by CHARUSAT Alumni Association, RPCP chapter.

1. **Successful entrepreneur**

A) Mr. Nisarg Mavani (2011 Batch)
Nisarg Mavani is a Successful entrepreneur. He had pursued his B.Pharm from RPCP during 2011 batch. He is MD at Inqenious Brandcare. He is active alumni member of RPCP.

B) Mr. Parth Beshaldia (2011 Batch)
Mr. Parth Beshaldia is a Successful entrepreneur. He had pursued his B.Pharm from RPCP during 2011 batch. He is MD at Lakshika Pharm.

C) Mr. Umang Panchal (2010 Batch)
Mr. Umang Panchal is a Successful entrepreneur. He had pursued his B.Pharm from RPCP during 2010 batch.

D) Mr.Hitesh Patel (2009 Batch)
Mr.Hitesh Patel is a Successful entrepreneur. He had pursued his B.Pharm from RPCP during 2009 batch.

2. Higher Studies with fellowship

A) Dr. Shreesha Bhat (2011 Batch)
Dr. Shreesha Bhat is a **PhD in Chemistry,** at School of Chemistry, University of Lincoln, United Kingdom. Working as a Chief Scientific Officer at WEPaint, Ahmedabad, India. Pursued her B.Pharm from RPCP during 2011 Batch.

Awards
University of Lincoln PhD Studentship, UK (2013-2017) amounting to £ 27,500
PhD research instrumental in securing an EPSRC grant (2015) worth £ 98,743
NIPER Fellowship for M.S. (Pharm.), India (2011-2013) amounting to Rs. 1,92,000

3. Achievement in industry & academic
Hitesh Kataria (M.Pharm)
Awarded as young scientist. He had Pursued M.Pharm from RPCP.

4. UPSC/GPSC
A) Mr. Ghanshyam
He is a class-II officer government of Gujarat (TDO)
B) Maharshi Raval
He is a class-II officer government of Gujarat (TDO)
C) Amita Pargi
She is a class-II officer government of Gujarat (TDO)
D) Mitul Patel
IT officer, Income tax Department, Mumbai
E) Divekant Patel
Officer, Comptroller and Auditor General of India (CAG), Ahmedabad

STUDENTS' COMPETITIVE EXAMINATION

Exams with no. of appeared students

1. GRE -05 Students
2. GPAT- Out of many 02 were qualified (Final year UG students: Darshan Contractor, Kruti Dalwadi)
3. IELTS - 04
4. SNAP-01
5. CAT-01

SCHOLARSHIPS/FELLOWSHIPS

Name of the Scholarship	UG No. of Students	Amount (Rs.)	PG No. of Students	Amount (Rs.)
CHARUSAT Scholarship			38	26,40,0000
GPAT	---	---	01 (12400)	1,24,000
Late Shankarbhai Chhaganbhai Patel Merit Scholarship	03 (9675)	29025	---	---
MYSY Scholarship	24	16,08,000	---	---
Freeship Card	04	Pending	01	Pending
Scholarship of Government (OBC Students)	02	Pending	02	Pending
Umedbhai Dharamdas Patel charitable trust Scholarship	05	Pending	----	---

EQUAL OPPORTUNITY CELL

Total 2 events were organized.

1. A Debate Competition on 'Pertinent ills of discrimination' at RPCP.

Date and Time of Event : 27th January, 2018 (10:00 a.m. to 12:00 Noon)

Event coordinator : Ms. Mansi Paradkar

Resource person details: NA

Sr. No.	Name of the resource person	Organization of resource person
NA	NA	NA

Event Schedule:

Date	Time	Session	Activity
27/01/2018	**10:00 a.m. to 12:00 Noon**	A Debate Competition on 'Pertinent ills of discrimination'	• Debate between the groups was carried out on the theme of the event

Summary of the Event (Maximum 200 words):

A Debate competition on 'Pertinent ills of discrimination' was held at Ramanbhai Patel College of Pharmacy at CHARUSAT campus. The theme of the event was communicated and explained to the students. The students participated as a team consisting of 2 members. Each team debated with the other team regarding the existing ills of discrimination. The team which put their views clearly against others was declared as winner. The runner up was also selected. The selection of winning team was judged by Mr. Dharmang Pandya, Assistant Professor, RPCP. The winners were given the cash prize of 1000/-Rs. And 500/- Rs. Respectively for 1st and 2nd position and both the teams received the certificates.

Registration fee (if any): NA

No. of Participants: 06 (Students)

List of Participants:

Sr. No.	Name of participant	ID No.
1.	Ramiza Mansuri	16BPH028
2.	Tatvi Mendha	16BPH034
3.	Meet Patel	16BPH057
4.	Vishal Goswami	16BPH018
5.	Rahul Lalwani	15BPH028
6.	Divya Gavaria	15EE027
7.	Karan Gandhi	16BPH016

8.	Shreyas Chhatbar	16BPH009

Accounts details:

Sr. No.	**Details**	**Rupees**
Income		
1.	NA	NA
Expenses		
1.	Award to winners (1st and 2nd winner)	1500/-
2.	Refreshment charges for students	200/-
3.	Photograph and certificate printing charges (Six photographs)	150/-
Total	**One thousand eight hundred fifty rupees only**	**1850/-**

Overall impact of workshop: Excellent/Very Good/**Good**/Average/Poor

Photographs of the event with captions (at least six photographs):










2. A Digital Poster Competition on 'Equal Opportunity in the University' at RPCP.

Date and Time of Event : 27th January, 2018 (10:00 a.m. to 12:00 Noon)
Event coordinator : Ms. Mansi Paradkar
Resource person details: NA

Sr. No.	Name of the resource person	Organization of resource person
NA	NA	NA

Event Schedule:

Date	Time	Session	Activity
27/01/2018	**10:00 a.m. to 12:00 Noon**	A Digital Poster Competition on 'Equal Opportunity in the University'	Poster Making through software on the theme of the event

Summary of the Event (Maximum 200 words):

A digital poster competition on 'Equal Opportunity in the University' was held at Ramanbhai Patel College of Pharmacy at CHARUSAT campus. The theme of the event was communicated and explained to the students. The students prepared the poster on the theme through Microsoft publisher in the computer lab during the time allotted to them. After the completion of event, the posters were judged by the member of EOC committee-Ms. Kanan Gamit, Assistant Professor, RPCP. The best poster was selected on the basis of concept execution and innovation. The winner was given the cash prize of 500/-Rs. And both the participants received the certificates.

Registration fee (if any): NA

No. of Participants: 02 (Students)

List of Participants:

Sr. No.	Name of participant	ID No.
9.	Parthvi Bhatt	14BPH070
10.	Jahanvi Soni	16BPH093

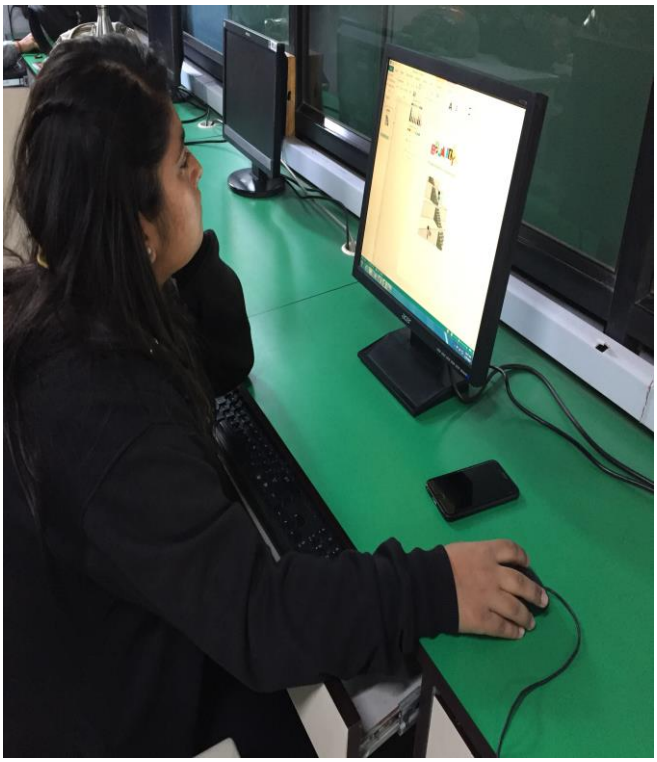
Accounts details:

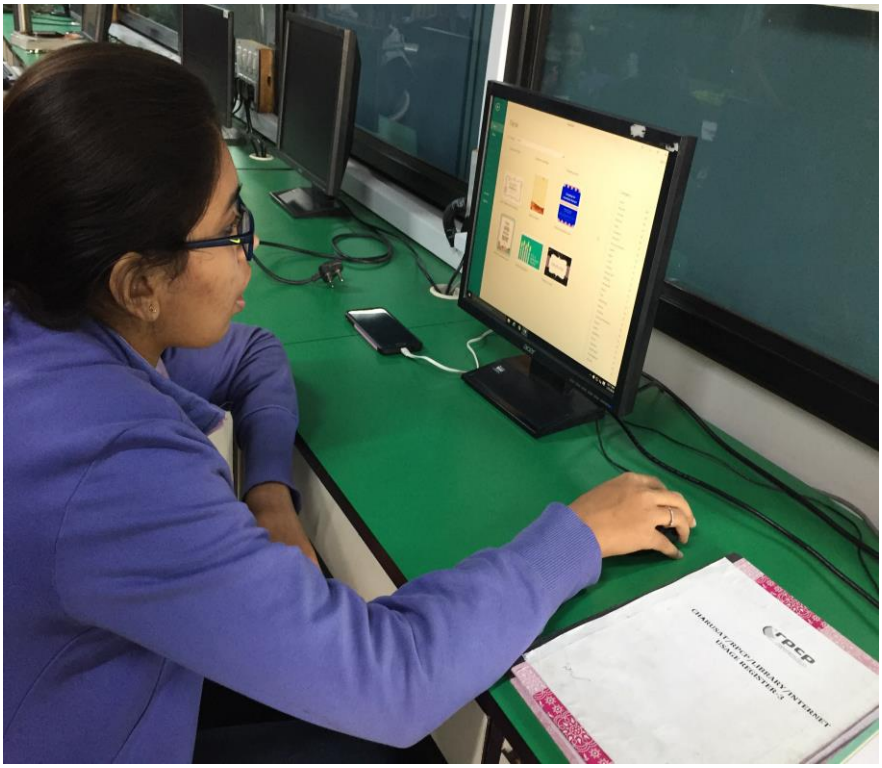
Sr. No.	Details	Rupees
Income		
1.	NA	NA
Expenses		
4.	Certificate and Award to winners (1st only)	500/-
5.	Refreshment charges for students	200/-
6.	Photograph printing charges (Six photographs)	
7.	Miscellaneous	100/-
Total		

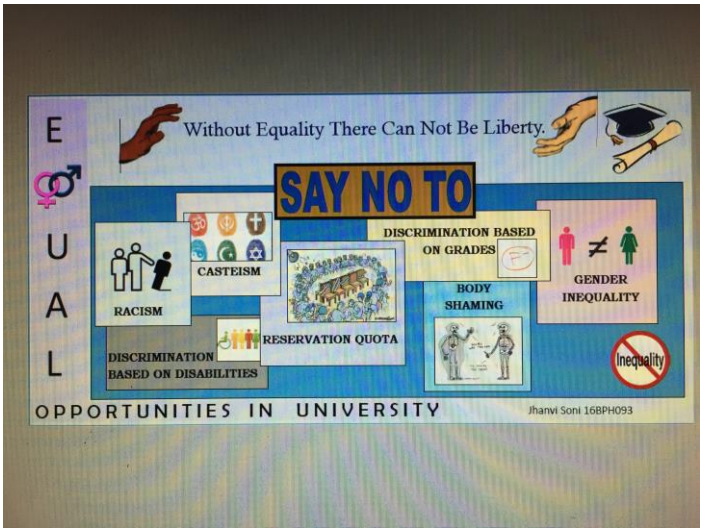
Overall impact of workshop: Excellent/Very Good/**Good**/Average/Poor

Name of winner (1st prize): Ms. Jahnvi Soni (16BPH093)

Photographs of the event with captions (at least six photographs):









EVENTS ORGANIZED AT RPCP

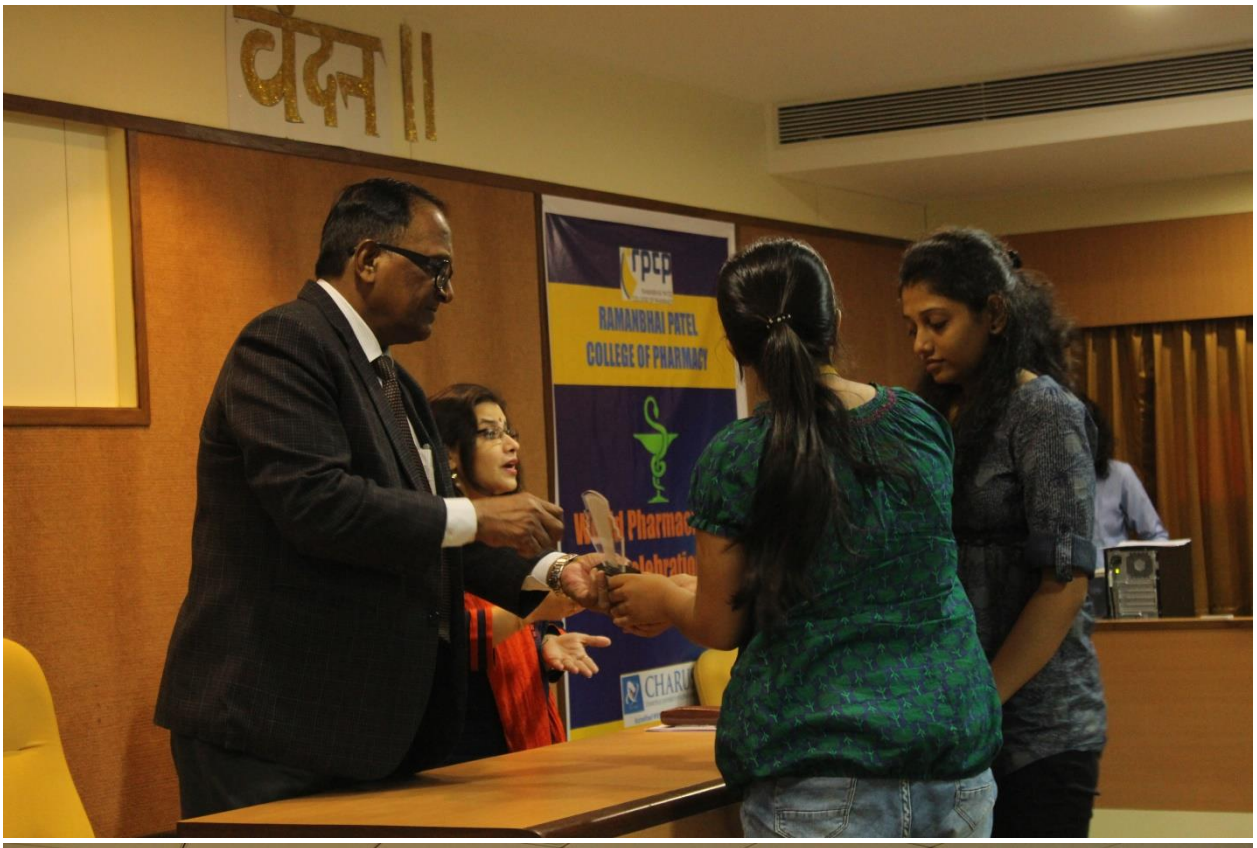
1. World Pharmacists' Day

From research to healthcare, the Pharmacist at your service. This is what the World Pharmacist day celebration was all about. We the students of Ramanbhai Patel College of Pharmacy celebrated the pharmacist day in unique way this year. World celebrates Pharmacist day on 25thSeptember but we celebrated it in two different ways on two different days, those were 23rd and 25th Sept.2017.On 23rd it was celebrated in our own college with multiple technical and non-technical events. The non-technical events included word warrior and minute to win it while technical events included infographics, pharma race and page to stage. The enthusiastic participation of students and faculty members along with the management and co-ordination of NSS team made the entire event a great success. The winners were acknowledged with trophies and all the participants were appreciated with

certificates. The celebration of this day ended well with inspiring words of Provost of CHARUSAT, Dr. B.G.Patel sir and Principal of RPCP, Dr. Anuraddha Gajjar madam.

On 25th September, the world Pharmacist day, the NSS team along with the participants of skit event, visited the neighboring schools to aware them about the multiple roles and responsibilities of pharmacist in the society. Our hard work was paid off when those school students took interest in the skit being performed. This is how our motto of celebrating The World Pharmacist Day in our college was fulfilled.




वंदन ॥
RAMANBHAI PATEL
COLLEGE OF PHARMACY


A 12 - 5
B 12 - 5





2. ICT Based Tools in teaching

1. Title : National Workshop on Integrating ICT Tools in Instructional Pedagogy in Pharmacy

2. Category: Workshop

3. Date: 4th January, 2018

4. Venue: Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa – 388 421.
Ta. Petlad, Dist. Anand, Gujarat.

5. Dignitary/s present at inaugural function:
(i) Name: Dr. B. G. Patel
(ii) Designation:Provost
(iii) Name of institute:CHARUSAT
(iv) Contact details: provostbgp@charusat.ac.in

6. Invited speaker / Expert
(i) Name : Dr. Anwar Shaikh
(ii) Designation : Professor
(iii) Name of institute :Allana College of Pharmacy
(iv) Contact details : 09420469659
(v) Topic of lecture : Animation – Innovative Method of Teaching
(vi) Lecture / presentation notes (Annexure – 1)

7. Total no. of participants (provide details if any) :29 (Annexure – 2)

8. Program summary (200 words):

Ramanbhai Patel College of Pharmacy, CHARUSAT organized a National Workshop on Integrating ICT Tools in Instructional Pedagogy in Pharmacy on January 4, 2018. Dr. Anwar Sheikh, Professor and Head, Department of Pharmaceutical Sciences, Allana College of Pharmacy, Punewas the Resource person for the workshop. More than fifty faculty members from 15 Pharmacy Institutes of Gujarat, Madhya Pradesh and Maharashtra participated in the workshop.

The aim of the workshop was to create awareness about the effective use of ICT tools in pharmacy curriculum, development of e-content and designing of online instructional materials. The workshop included demonstration of virtual laboratory available at CHARUSAT to the participants as well as training sessions for the use of ICT tools in pharmacy teaching. Participants were exposed to animation software, scientific animation making, advanced slide show and video preparation techniques and use of social media in 24X7 connectivity with students. Hands on training was also imparted to the participants.

Relevant software was provided to participants at the end of the workshop by the host institute.

9. Statement of Income and Expenditure : Annexure – 3
10. Utilization Certificate with signature & seal of head of the Institute: Annexure – 4
11. Copy of vouchers: Annexure - 5
12. Photograph (4 to 5): Annexure - 6
    (i) Caption photograph with banner
    (ii) Inaugural function.
    (iii) Expert delivery lecture.
    (iv) And Audience
13. Press Note / Media Report: Annexure - 7

3. "ENDOWMENT CHAIR ACTIVITY-2017" - 27TH FEBRUARY – 4TH MARCH, 2017

CHARUSAT fosters an aspiration of being a World Class University. It strives, initially, to be in the league of Top 20 Universities at National Level. As a step towards being a World Charotar University of Science and Technology (CHARUSAT), CHARUSAT has initiated an 'Endowment Chair Activities" for each department of CHARUSAT and as a part of it Ramanbhai Patel College of Pharmacy was organized an "Endowment Chair Activity-2017" from 27th February – 4th March, 2017. Dr. Satish Y. Gabhe, Professor, Department of Pharmaceutical Chemistry, Poona Collegeof Pharmacy, Bharti Vidyapeeth Deemed University, Pune was invited as a resource person. Out of six days, 5 days were exclusively reserved for interaction of RPCP faculty members, students of PG and Ph.D. Program and Alumni with Dr. S. Y. Gabhe sir. During the endowment chair activity following topics had been covered like: IUPAC Nomenclature of Organic Compounds, Stereochemistry: Cyclohexane to Steroids, Principle of IR Spectroscopy and It's Interpretation, Principle of Mass Spectroscopy, Interpretation of Mass Spectroscopy, Principle of Proton NMR Spectroscopy, Interpretation of Proton NMR Spectroscopy and Problem Solving Sessions fro each completion of the day. On 4th March National Seminar on "New Insights into Molecular Structure: Problem to Solution" was organized for participants outside RPCP, to facilitate their interaction with the resource person. The key area for the seminar included C^{13} – NMR Spectroscopy, Correlation Spectroscopy & Interpretation of Spectra, X-Ray Diffraction Spectroscopy and Interpretation of X-Ray Diffraction Spectra wherein the focus of the seminar was interpretation of spectral analysis of advanced analytical Techniques.

National seminar:

- Respected Dr. Satish Gabhe Sir, Professor, Pona College of Pharmacy, Bharti Vidyapeeth Deemed University, Pune, Dr. Sadhana Rajput Madam, Professor and Dean-Faculty of Pharmacy, The M. S. University of Baroda, other dignitaries off the dice, participants, Guests and Invitees were inaugurate the seminar.
- Total 139 participants has attend this seminar and 20 participants had presented posters.
- From Morning the first technical session covered by Dr. Sachin Kate, Application Scientist, Bruker Scientific india Pvt. Ltd. Mr. Kate covered the basic principle about 1D, 2D and C13

NMR spectroscopy and its instrumentation. Mr. Kate precisely focused on NOESY, TOCSY and NOE techniques which are now widely accepted for identification of complex chemical enitites along with recent applications of 1D, 2D and C13 NMR spectroscopy.

- The next technical session covered by Dr. S. Y. Gabhe Sir, Professor, Pona College of Pharmacy, Bharti Vidyapeeth Deemed University, Pune. Dr. Gabhe Sir talked about basic principles of C^{13}-NMR Spectrometry and followed by it's Interpretation. Sir taught very minute detailed about interpretation of NMR Spectroscopy in précised manner.
- After poster presentation the last technical session covered by Dr. Sadhana Rajput Madam, Professor and Dean-Faculty of Pharmacy, The M. S. University of Baroda. Madam precisely focused on basic aspects of XRD interpretation and its Pharmaceutical applications.

4. Avalanche 2018 (15^{th}-16^{th} February 2018)

We the family of Ramanbhai Patel College of Pharmacy organized a Pharma Tech Fest 'Avalanche '18' on 15^{th}-16^{th} February 2018.

Thelist of events is as follows:

1. Sketch It
2. Youth Zest
3. Poster Presentation
4. Quest for the Best
5. Pharmapreneur
6. Just Do It
7. Psychothon
8. Stride for Life
9. Photography

A splendid cultural night 'The Colosseum' was organized on the night of 15^{th} February with the talented RPCP students performing on the big platform. The students danced, sang, organized a fabulous Fashion show and played musical instruments thereby entertaining the delegates and the chief guests to the maximum.

This year we have an overwhelming response of over 359students over 500 registrations from the top 21 Pharmacy Colleges have participated in this two day carnival.

Finance management is the most important aspect in organizing any major event. Avalanche has been organized with the support of Charotar University of Science & Technology and our sponsors which have been around 21 sponsoring us for various means. The students managed to rope in about 21 companies to give their financial support generating a whooping sum of one lac forty four thousand five hundreds rupees (1.44lacs).

We also presented winner and runner up trophies along with certificates in all the individual sections of the events. This rounded up to 25 trophies in all. The list of winners has been attached.

Mementos were also presented with certificates to all the invited 15 judges coming from various pharmacy colleges, industries from the Campus Institute.

Participation certificates were given to all the students participating in the event. Certificate of appreciation was given to all event coordinators for their relentless input in the making of the event.

Dr. J B Dave, Professor & Director - PG Department, Shree Sarvajanik Pharmacy College, blessed the event with his presence as the Chief Guest in the inauguration function of the event on 15thFebruary,2018.

Mr. PadminBuch, Former Managing Director, GITCO Ltd. served as the chief guest in the valedictory functionon 16th February,2018 and also blessed students with his motivational and inspirational words.

All in all, 'Avalanche '18' turned out to be a grand success and RPCP will look forward to proceed with the trend and organize such events in the future.

5. Refresher Course

RPCP, CHARUSAT organized two days refresher course for registered pharmacist. It was organized on 4th -5th November, 2017. More than 70 participants were participated in the event. Mr. Gilbert Mekwan, Registrar, Gujarat state pharmacy council was present as chief guest and mr.kalpeshraval, Nodal officer Gujarat state, janaushadhi center was present as guest of honor. Participants enrich their knowledge about new era of pharmacy world. Speakers were invited from different field of pharmaceutical sector for delivering their talk.

FACULTY & STAFF: ASSETS OF RPCP

In RPCP, total staff members are 33 including a Principal, 6 associate professors, 12 assistant professors, 7 Laboratory Technicians, 4 Laboratory Attendants, 1 Library staff, 1 Personal Assistant and 1 peon.

FACULTY AND STAFF DEVELOPMENT

Publications

Journal Name	Paper Title	Main Author	Co-Authors	Journal Type	Publisher	Impact Factor	Impact Factor by Agency
International Journal Of Nanomedicine	Oral Bioavailability Enhancement Of Agomelatine By Loading Into Nanostructured Lipid Carriers: Peyer&#65533;s Patch Targeting Approach	JAGRUTI BRIJESH PRAJAPATI	AMIT AMBALAL PATEL	international	Dove Medical Press	4.3	tr
Pharma Science Monitor	DISSOLUTION ENHANCEMENT OF RALOXIFENE HCl BY LIQUISOLIDCOMPACTS TECHNIQUE	DHARMANG TANSUKHRAY PANDYA		international		0	
Pharma Science Monitor	Male Infertility: A Major Problem Worldwide And Its Management In Ayurveda	NIRAJ YASHVANTRAI VYAS	MANAN ARUNKUMAR RAVAL	international	Pharma Science Monitor	0	
Indian Journal Of Pharmacy Practice	Study Of Medication Error In Hospitalised Patients InTertiary Care Hospital	NILAY D SOLANKI, PRATIK PATEL		national		0	
Journal Of Drug Delivery Science And Technology	Peyere Patch Targeting Of Isradipine Loaded Solid Lipid Nanoparticles Its Cellular Uptake Study	JAGRUTI BRIJESH PRAJAPATI	Ravish J. Patel	international	Elsevier	1.194	tr
Indian Journal Of Pharmacy Practice	Study Of Medication Error In Hospitalised Patients In Tertiary Care Hospital	SANDIP BHIKHUBHAI PATEL	Ashita Patel	international	Association Of Pharmaceutical Teachers Of India (APTI)	0.223	sjr

Current Drug Delivery	Nanomedicine For Intranasal Delivery To Improve Brain Uptake	AMIT AMBALAL PATEL	Ravish J. Patel	international	Bentham Science Publishers	2.516	tr
Current Drug Discovery Technologies	Molecular Docking, Synthesis And Biological Evaluation Of Sul-phonylureas/guanidine Derivatives As Promising Antidiabetic Agent	Ishan Panchal	ASHISH PATEL	international	Bentham Science Publishers	1.5	sjr
Current Drug Discovery Technologies	Stability Indicating Reverse Phase HPLC Method For Estimation Of Rifampicin And Piperine In Pharmaceutical Dosage Form	UMANG HARISHCHANDRA SHAH	MANAN RAVAL	international	Bentham Science Publishers	1.5	sjr
Asian Journal Of Pharmaceutical And Clinical Research	TOXICOLOGICAL EVALUATION OF AYURVEDIC FORMULATION: GOKSHURADI GUGGULU	MITTAL JOSHI	Dr. MANAN RAVAL	international	Innovare Academic Sciences Pvt Ltd.	0.4	sjr
Journal Of Young Pharmacists,	Anti-Fibrotic Potential Of Nicorandil In The Treatment Of Bleomycin Induced Pulmonary Fibrosis	SANDIP BHIKHUBHAI PATEL	Nidhi Patel	national	Medknow Publications	0.23	sjr
International Journal Of Pharmacy And Pharmaceutical Sciences	PREPARATION AND REVIEW OF CHEMISTRY, MANUFACTURING	Badjatya Jitendra Kumar	AMIT AMBALAL PATEL	international	Innovare Academic Sciences	0.454	other

	AND CONTROL (CMC) SECTIONS OF CTD DOSSIER FOR MARKETING AUTHORIZATION						
Research Journal Of Pharmaceutical, Biological And Chemical Sciences	Rapid Validated HPTLC Method For Estimation Of Betulinic Acid In Madhucalongifolia Bark Extract	SANDIP BHIKHUBHAI PATEL	Nidhi Patel	national	Research Journal Of Pharmaceutical, Biological And Chemical Sciences	0.223	sjr
Letter In Drug Design And Discovery	Molecular Docking And In Silico ADMET Study Reveals Flavonoids As A Potential Inhibitor Of Aromatase	SAMIR GUNVANTBHAI PATEL	Jagat Upadhyay	international	Bentham	1.12	tr
Current Drug Discovery Technologies	Design, Synthesis And Molecular Docking Of 1-Cyclopropyl-6-Fluoro-4-Oxo-7-{4-[2-(4-Substituted-Phenyl)-2-(Substituted)-Ethyl]-1-Piperazinyl}-1,4-Dihydroquinoline-3-Carboxylic Acid As An Antimicrobial Agents	MEHUL MANUBHAI PATEL	Dr. Laxman J Patel	international	Bentham Science Publishers	1.45	sjr

Acta Chromatographica	Simultaneous Quantification Of Related Substances Of Ezetimibe And Simvastatin In Combined Dosage Form Using A Novel Stability-Indicating Liquid Chromatographic Method	Pritesh Desai	AVANI BHARATKUMAR CHOKSI	international	Uniwersytet Slaski W Katowicach	0.224	sjr
Journal Of Planar Chromatography	Stability Indicating High Performance Thin Layer Chromatographic Method For Simultaneous Estimation Of Active Pharmaceutical Ingredients Metolazone And Spironolactone	ARCHITA J. PATEL	Niranjan Kanki	international		0.638	tr

Participation by faculty members

Faculty members also attended various events which have proved beneficial to them in their routine academic endeavors as well as research. They have represented RPCP in a number of events in the different states of the country.

Name	Event Name	Event Type	Event Level	Target Audience	Start	End	Organizer
VIJAYKUMAR KUNVARJI PARMAR	Applied Pharmaceutical Analysis - India	Conference	International (within India)	Industry Professionals	25/02/2018	27/02/2018	Boston International Conferences
MEHUL MANUBHAI PATEL	NIPiCON 2018.	Conference	International (within India)	All	23/01/2018	25/01/2018	Nirma University
NIRAJ YASHVANTRAI VYAS	22nd National Convention Of Society Of Pharmacognosy And International Conference On Integrating Ayurveda & Herbal Drugs For Next Generation Therapeutics & Supplements Held At SKPCPER, Ganpat Universi	Conference	International (within India)	All	20/01/2018	21/01/2018	Society Of Pharamcognosy
SAMIR GUNVANTBHAI PATEL	69TH INDIAN PHARMACEUTICAL CONGRESS	Conference	National	All	22/12/2017	24/12/2017	INDIAN PHARMACEUTICAL CONGRESS ASSOCIATION
SAMIR GUNVANTBHAI PATEL	XXXV Annual Conference Indian Council Of Chemists	Conference	National	All	22/12/2017	24/12/2017	Indian Council Of Chemists
SAMIR GUNVANTBHAI PATEL	69TH INDIAN PHARMACEUTICAL CONGRESS	Other	National	All	22/12/2017	24/12/2017	INDIAN PHARMACEUTICAL CONGRESS

							ASSOCIATION
SAMIR GUNVANTBHAI PATEL	FACULTY TRAINING PROGRAMME	Other	Inter-Institute	All	13/11/2017	22/11/2017	CHARUSAT
SAMIR GUNVANTBHAI PATEL	FACULTY DEVELOPMENT PROGRAMME	Other	Inter-University	Academic Professionals	20/09/2017	20/09/2017	CII
RAVISH JANAKBHAI PATEL	Cell Culture Techniques	Workshop	Inter-Institute	Academic Professionals	27/06/2017	07-03-2017	Ramanbhai Patel College Of Pharmacy
NIRAJ YASHVANTRAI VYAS	Industrial Exposure Training 2017	Industrial Training	Inter-Institute	Academic Professionals	19/06/2017	24/06/2017	Ramanbhai Patel College Of Pharmacy, CHARUSAT
RAVISH JANAKBHAI PATEL	Industrial Training	Industrial Training	State	All	06-09-2017	15/06/2017	Nikol Healthcare Pvt Ltd.
NIRAJ YASHVANTRAI VYAS	Faculty Development Programme On Capacity Building	FDP	Inter-University	Academic Professionals	05-01-2017	05-06-2017	PRI. B.I.PATEL HUMAN RESOURCE DEVELOPMENT CENTRE, CHARUSAT
KANANKUMARI GAMANLAL GAMIT	Faculty Members Under The Caption "Capacity Building	FDP	Inter-University	Academic Professionals	05-01-2017	05-06-2017	Pri B I Patel Human Resource

Achievements of Faculty Members

UMANG HARISHCHANDRA SHAH	Best Poster Award @ 5th international conference entitled "Modern Trends in Pharmaceutical Education and Research" at Indubhai Patel College of Pharma	##########
RAVISH JANAKBHAI PATEL	Certificate of Merit. Dr. P.D. Sethi Memorial National Awards 2016	17/10/2017

Dr. Manan Raval

Sr.No	Event	Dates	Present as Poster/Oral/Judge/Faculty	Remarks
1	21st convention of society of Pharmacognosy at Aurangabad	16-17/03/17	Poster Preclinical and Clinical Evaluation of Standardized Ayurveda formulation as Spermatogenic and Aphrodisiac	Won second rank
2	3rd International Conference on Dravyaguna and Rsasastra-Nadiad	2-3/9/2017	Oral Presentation Comparative Studies on ability of different flexible laminates to preserve plant powder – A case study on seed powder of Mucunapruriense	Won First Rank

Dr. Mrunali Patel

One-day seminar on Intellectual Property Rights	29th August, 2017.	Vithalbhai Patel and Rajratan P. T. Patel Science College, Vallabh Vidyanagar,	Attended & Participated As Chief guest	Invited talk on Intellectual Property Rights

Dr. Gayatri Patel

1) Dr. Gayatri C. Patelhad Evaluated Posters Presentation for Two-Day National Conference On "**Nano Particulate Drug Delivery Systems: From Bench To Bedside Held On 9-10thMarch, 2018.**" at Maliba Pharmacy College Uka Tarsadia University, Bardoli, Surat, India.

2) Dr. Gayatri C. Patel was invited to judge **Rangoli Competition Held On 30thDec 2017 as a part of national pharmacy week celebration** at Sardar Patel University (SPEC) Bakrol Gate, Anand, India.

Others:

Sports and cultulral:

1. **Ms. Jagruti Prajapati**

a) Participated in Carron in Pharma Rebattle 2017 organized by RPCP during 10th to 12th October, 2017.
Secured 2nd Position

b) Participated In Vrund 2017 (Garba Festival) Organized by CHARSUAT on 6th October, 2017.
Secured 1st Position in Best Performance

2. **Avani Chokshi**

a) Participated in Carron in Pharma Rebattle 2017 organized by RPCP during 10th to 12th October, 2017.

b) Participated In Vrund 2017 (Garba Festival) Organized by CHARSUAT on 6th October, 2017.
Secured 1ST Position in Best DRESSING

3. **Dr. Niraj Vyas**

a) Participated in Cricket in Pharma Rebattle 2017 organized by RPCP during 10th to 12th October, 2017.

b) Participated In Vrund 2017 (Garba Festival) Organized by CHARSUAT on 6th October, 2017.
Secured 1st Position in Best Dressing

Achievements Through other publications

Publication Title	Publication Name	Publication Type	Publication Date	ISBN_Print	Author	Co-Authors	Publisher
In a first, “desi Viagra” chemicals identified	Times of India	Article (News Paper)	Feb-18		NIRAJ YASHVANTRAI VYAS	MANAN ARUNKUMAR RAVAL	Times of India
Excipients: Solubility and bioavailability considerations	Saffron Media Private Limited	Article (News Paper)	Nov-18		MRUNALI RASHMIN PATEL	Rashmin Bharatbhai Patel	Saffron Media Private Limited
Patents survey: Treatment of Alzheimer&#xFFFD;s disease through Nanotechnology based drug delivery system	Springer, Cham	Book Chapter	Sep-18	978-3-319-70298-8	Rashmin Bharatbhai Patel	MRUNALI RASHMIN PATEL	Springer, Cham
Nanoemulsion in Drug Delivery	Elsevier Inc. USA	Book Chapter	Jul-18	978-0-128-13741-3	MRUNALI RASHMIN PATEL	Rashmin Bharatbhai Patel	Elsevier Inc. USA
Pearson Guide To GPAT and other competitive examination in Pharmacy	PEARSON INTERNATIONAL	Book	Jun-18		UMANG HARISHCHANDRA SHAH	AMITKUMAR BASER	PEARSON INTERNATIONAL

Achievement through getting grant from Govt.

Jalpamam got travel grant for USA.
Vijaysir got workshop grant from GUJCOST – 20,000/- INR. (ICT based tools workshop)

Conference papers

NIRAJ YASHVANTRAI VYAS	MANAN ARUNKUMAR RAVAL	Isolation And Estimation Of Lupeol Derivative From Seeds Of Hygrophila Spinosa T. Ander Having Action On Leydig Cells	Mar-18
DHARMANG TANSUKHRAY PANDYA		Formulation And Development Of Curcumin Tablet By Inclusion Complexation Method For Anti ◆ Aging.	Feb-18
NIRAJ YASHVANTRAI VYAS	MANAN ARUNKUMAR RAVAL	Isolation And Estimation Of Alkaloidal Compound From Roots Of Argyreia Speciosa	Jan-18
DHARMANG TANSUKHRAY PANDYA	DHARMANG TANSUKHRAY PANDYA	Comparison Study On Registration Requirements For Drug Product In South Africa And East African Countries.	Jan-18
AMIT AMBALAL PATEL	SHACHI PATEL	Dissolution Enhancement Of Curcuminoids By Solid Dispersion	Dec-18
Ravish J. Patel		Microemulsion For Oral Delivery Of Linagliptin To Improve Bioavailability: Formulation, Development And Pharmacokinetic Studies	Nov-18

Expert lectures given by RPCP Faculty members

RAVISH JANAKBHAI PATEL	Publication and Reference Management	Technical	03-09-2018		All	Rungta College of Pharmaceutical Sciences and Research	Bhilai, Chhatissgarh
SANDIP BHIKHUBHAI PATEL	Rationale use of drugs	Technical	02-03-2018		All	Indubhai Patel College of Pharmacy	Anand
SAMIR GUNVANTBHAI PATEL	INTERPRETATION OF NMR SPECTRA	Plenary Talks	20/01/2018		All	INDUKAKA IPCOWALA COLLEGE OF PHARMACY	ANAND
NIRAJ YASHVANTRAI VYAS	Good Storage Practice of Pharmaceuticals	Technical	11-05-2017		All	Refresher course for registered pharmacists organized by RPCP-CHARUSAT	RPCP-charusat
AMIT AMBALAL PATEL	RationaL use of medicines	Technical	11-05-2017		All	Ramanbhai Patel College of Pharmacy	anand
RAVISH JANAKBHAI PATEL	Digitalization in Retail Drug Store	Technical	11-04-2017		All	Ramanbhai Patel College of Pharmacy	Changa, Anand
MANAN ARUNKUMAR RAVAL	Drug Discovery from Natural Product - A Prototype Study on Indian Medicinal	Plenary Talks	17/09/2017		All	Geetanjali Institute of Pharmacy, Geetanjali University	Udaipur

	Plant						
MRUNALI RASHMIN PATEL	Intellectual Property Rights	Technical	29/08/2017		All	Vithalbhai Patel and Rajratan P. T. Patel Science College	Anand
SANDIP BHIKHUBHAI PATEL	Patient Counselling	Technical	15/07/2017		All	Indukaka Ipcowala College of Pharmacy	Anand
SAMIR GUNVANTBHAI PATEL	Designing of Course Outcome and Programe Outcome	Non-Technical	24/05/2017		All	Faculty of Engineering, Parul University	Faculty of Engineering, Parul University
SAMIR GUNVANTBHAI PATEL	Designing of Course Outcome and Programe Outcome	Non-Technical	24/05/2017		All	Faculty of Engineering, Parul University	Faculty of Engineering, Parul University
SAMIR GUNVANTBHAI PATEL	Designing Syllabus based of CO and PO	Non-Technical	24/05/2017		All	Faculty of Engineering, Parul University	Faculty of Engineering, Parul University
SAMIR GUNVANTBHAI PATEL	Designing Syllabus based of CO and PO	Non-Technical	24/05/2017		All	Faculty of Engineering, Parul University	Faculty of Engineering, Parul University

VIJAYKUMAR KUNVARJI PARMAR	Bioanalysis in Pharmacy	Technical	19/05/2017		Academic Professionals	NITTTR	Ahmedabad
ANURADHA KETAN GAJJAR	Stereo chemistry in Drug Action	Plenary Talks	05-12-2017		Academic Professionals	R.C. Technical Institute and NITTTR	Ahmedabad

Professional services by RPCP faculty members outside CHARUSAT

Name	Event Type	Organizing Body	Venue	Event Level	Event Name	Event Start Date	Event End Date	Type of Service	Name of Committee
SAMIR GUNVANTBHAI PATEL	Other	INDIAN PHARMACEUTICAL CONGRESS ASSOCIATION	CHITKARA UNIVERSITY	National	69TH INDIAN PHARMACEUTICAL CONGRESS	22/12/2017	24/12/2017	LOCAL ORGANISING COMMITTEE MEMBER	MEDICAL SERVICE COMMITTEE

Patents

No patent filed during this A.Y.

Research Collaboration

Consultancy Projects

RPCP has explored its testing facility and generated income of around 75,000/- Rs. through consultancy projects pharmaceutical formulation and analysis.

Instruments' Purchase Details (From 01/04/2017)

Sr No.	Name of Equipment	Make/Model	Price Per Eqip.
1	Microscope	Labron	2,77,552.00(97950/-+87,701/-+91,901/-)
2	Refrigerator	Voltas	18,900.00
3	Waterbath	Durga Scientific	13,000.00
		Total	3,09,452.00

Details of the books at Library – RPCP

Sr. No.	Title	Volume
1	3153	8818

List of the dissertations for PG students

SUBJECT	STUDENT ID	STUDENT NAME	TITLE OF DISSERTATION	GUIDE/ SUPERWISOR NAME	CO-SUPERWISOR NAME	YEAR
MPHQA	14MPHQA002	Barot Tanvi D	Development and Validation of Stability Indicating RP-HPLC Method for the estimation of Bacoside-A from Bacopa Monnieri and Its Marketed formulation used in CNS Disorder.	Patel Samir G	–	2016
MPHQA	14MPHQA004	Mohanta Dipika B	Development and Validation of Chromatographic Method for Estimation of Berberine Chloride and Guggulsterone in Herbal Formulation	Dr. Vijay K Parmar	Mr. Mehul M Patel	2016
MPHPT	14MPHPT001	Desai Ayushi P	Formulation and in Vivo Characterization of Thermoreversible in Situ hydrogel for the treatment of wound.	Dr. Gaytri C Patel	–	2016
MPHPT	14MPHPT002	Patel Drashti R	Formulation and evaluation of silodosin by preparing chitosan nanoparticles.	Mr. Ravish J Patel	–	2016
MPHPT	14MPHPT003	Patel Shivani N	Formulation Development of Alendronate Loaded Chitosan Nanoparticles for Treatment of Osteoporosis	Ms. Payal Shah		
MPHPT	14MPHPT004	Patel Meghal D	Pulmonary Delivery of Liposomal Anticancer Agent	Dr. Rajesh Parikh	–	2016
MPHRA	14MPHRA001	Bahtt Bhagyashree D	Oral mouth spray formulation of Ondasetron Hydrochloride for treatment of Cancer Chemotherapy induced nausea and vomiting	Ms. Rupali Paranjape	Ms. Pooja S Aboti	2016

MPHRA	14MPHRA002	Ladani Bhumi S	Study of Registration requirements of finished Pharmaceutical Generic Product (i.e. Tablet) of five selected South African Development Community (SADC) Countries.	Mr. Nirav Patel	Dr. Gaytri C Patel	2016
MPHRA	14MPHRA003	Limbachiya Shraddha K	Pharmacovigilance- new challenge for pharmaceutical industry	Mr. Fenil Shah	Mr. Amit Patel	2016
MPHRA	14MPHRA004	Patel Arti I	PIC/S: A new era of pharmaceutical industry	Mr. Fenil Shah	Dr. R H Parikh	2016
MPHRA	14MPHRA005	Patel Yatra D	To study the registration guideline of the cosmetic products in Asean countries and prepare dossier of nature value bibioil.	Mrs. Nehal Bhavsar	Mr. Ravish Patel	2016
MPHRA	14MPHRA006	Prajapati Mayuri A	Comparative Regulatory prospective for drug product registration in ASEAN and US.	Mrs. Nehal Bhavsar	Ms. Payal Shah	2016
MPHRA	14MPHRA008	Jani Himali K	Registration requirements comparison between PIC/S countries (Australia, South Africa, Singapore, and Malaysia).	Mr. Nirav patel	Mr. Dharmang Pandya	2016
MPHRA	14MPHRA009	Ms. Bhoomi R Vyas	Preperation, compilation and filing of ANDA dossier of carboplatin injection as per USFDA guidelines.	Ms. Rupali Paranjape	Mr. Amit Patel	2016
MPHRA	14MPHRA0010	Sneha M Vaghela	To Study the Registration guideline of Nutraceutical Product in ASEAN Countries and to prepare a dossier of nutraceutical product.	Mrs. Nehal Bhavsar	Ms. Mansi Paradkar	2016
MPHCP	15MPHCP001	Patel Ashita	Study of Medication Error in Hospitalized Patients in Tertiary Care Hospital	Dr. Sandip Patel	Dr. Varsha Patel	2017

MPHCP	15MPHCP002	Patel Riddhi	Study of Prescribing Pattern and Evaluation of Risk Factors in Cardiovascular Conditions at Tertiary Care Hospital, Ahmedabad	Dr. Nilay Solanki	Dr. Varsha Patel	2017
MPHCP	15MPHCP003	Patel Suchita	Study of Maternal Morbidity Pattern & Evaluate Incidence Risk Factors and Outcome of Gestational Diabetes Mellitus (GDM) in Antental	Dr. Japla Suthar	Dr. Vincent J Christian	2017
MPHCP	15MPHCP004	Tandel Avni H	Study of Drug-Drug Interactions in hospitalised	Dr. Japla Suthar	Dr. Varsha Patel	2017
MPHCP	15MPHCP005	Champaneri Ishita	Study on Prescribing Trends Morbity Pattern and Potential Drug-Drug Interaction in Neurology Department at Multi Speciality Hospital	Dr. Nilay Solanki	Dr. Varsha Patel	2017
MPHQA	15MPHQA001	Brahmbhatt Harsh R	Development of rapid and sensitive spectroflourimetry method for determination of Polysorbate 80 from pharmaceutical formulation	Dr. Vijay Parmar		2017
MPHQA	15MPHQA002	Dave Bhumi J	Estimation of isolated alkaloids from bioactive fraction of *Argyreia Speciosa*	Ms. Kanan Gamit		2017
MPHQA	15MPHQA003	Desai Bhumika S	Development and Validation of chemometric assisted UV Spectroscopic Method for determination of Clotrimazole and Beclomethasone dipropionate in pharmaceutical dosage form	Mr. Umang Shah		2017

MPHQA	15MPHQA003	Desai Bhumika S	Development and Validation of Stability Indicating RP-HPLC method for determination of Fluocinolone acetonide and Miconazole nitrate in pharmaceutical dosage form	Dr. Gautam Ajmeri	Mr. Umang Shah	2017
MPHQA	15MPHQA004	Desai Krina S	Studies on alternative to conventional aluminum package with special reference to effervescent tablet	Mr. Manan Raval		2017
MPHQA	15MPHQA005	Patel Divya D	Development and Validation of analytical methods for simultaneous estimation of Teneligliptin Hydrobromide and Metformin Hydrochloride in bulk drug of combined dosage form	Dr. Mehul Patel		2017
MPHQA	15MPHQA005	Patel Divya	Development and Validation of Stability Indicating HPLC method for Determination of Ospemifene and its related substances in bulk drug and tablet dosage form	Mr. Dhaval Shah & Dr. Mehul Patel		2017
MPHQA	15MPHQA006	Patel Nishit D	Studies effect of temperature and humidity on ayurveda formulation " *Ashwagandhadi lehya*	Dr. Niraj Vyas		2017
MPHQA	15MPHQA007	Patel Nizam M	Development and Validation of HPTLC method for simultaneous determination of Salbutamol Sulphate and Beclomethasone Dipropionate from inhalation product	Dr. Vijay Parmar		2017
MPHQA	15MPHQA008		Development of Stability indicating analytical method of curcumin from fast dissolving tablet			

MPHQA	15MPHQA009	Patel Prarthana M	Development and Validation of HPTLC method for simultaneous estimation of Naphazoline nitrate and Hydrocortisone in bulk and combined dosage form	Ms. Avani Chokshi		2017
MPHQA	15MPHQA009	Patel Prarthana M	Development and Validation of RP-HPLC method for dissolution profile study of Ospemifene Tablets	Ms. Avani Chokshi		2017
MPHQA	15MPHQA010	Prajapati Urvisha P	Preparation and Evaluation of a novel form of Tadalafil	Mrs. Kunti Shah		2017
MPHQA	15MPHQA011	Teli Krunal L	Development and Validation of Stability Indicating RP-HPLC method for Crotamiton and its marketed formulation	Dr. Anuradha Gajjar	Dr. Samir Patel	2017
MPHQA	15MPHQA011	Teli Krunal L	Deveolopment and Validation of RP-HPLC Method for X-Drug	Dr. Anuradha Gajjar	Mr. Mohan Rao	2017
MPHQA	15MPHQA012	Patel Dhaval B.	Comparitive Evaluation of protecting affordability of flexibile luminates for *Bacopa monnieri* powder and its marketed formulation	Dr. Samir Patel		2017
MPHQA	15MPHQA013	Sharma Mahavir M	Development and Validation of Stability Indicating (Accelerated) Chromatographic method for the identification of Bacoside-A from *Bacopa monnieri* and its marketed formulation	Dr. Samir Patel		2017
MPHRA	15MPHRA003	Gohil Tejasvini M	Formulation and Development of Transdermal Spray of Ibandronate Sodium			2016

MPHRA	15MPHRA003	Gohil Tejasvini M	Preparation, compilation and submission of a dossier in ACTD format for marketing authorization of Cetrizine tablet in Cambodia	Mrs. Bhavika Mewada	Dr. Ravish Patel	2017
MPHRA	15MPHRA004	Patel Anjali	Comparison of registration requirements of generic products in southeast Asian countries (Thailand, Singapore, Malaysia, phillipines, Vietnam)	Mr. Nirav Patel	Ms. Jagruti Prajapati	2016
MPHRA	15MPHRA004	Patel Anjali	Formulation development and evaluation of sustain released pellets of Glibenclamide			2017
MPHRA	15MPHRA005	Patel Anuj	Formulation Development and Evaluation of Vancomycin HCL for the treatment of Bacterial Meningitis			2016
MPHRA	15MPHRA005	Patel Anuj	Study of registration requirements of finished pharmaceutical generic product of five western African countries (Ghana, morocco, Algeria, Nigeria, Liberia)	Mr. Nirav Patel	Ms. Mansi Paradkar	2017
MPHRA	15MPHRA006	Patel Bijal	Formulation and evaluation of Inclusion Complex of Silodosin	Dr. ravish Patel		2016
MPHRA	15MPHRA006	Patel Bijal	Preparation, compilation and submission of a dossier in ACTD format for marketing authorization of Atorvastatin tablet in Myanmar	Mrs. Bhavika Mewada	Dr. Ravish Patel	2017
MPHRA	15MPHRA007	Patel Dhruvi H	Dissolution enhancement of Efavirenz by Spray Drying method.	Dr. Amit Patel	Dr. Amit Patel	2016

MPHRA	15MPHRA007	Patel Dhruvi H	Preparation and Review of Chemistry, Manufacturing & Control (CMC) Sections of CTD Dossier for Marketing Application.	Dr. Jitendra badjatya	Dr. Amit Patel	2017
MPHRA	15MPHRA008	Patel Janki	Comparative study of Generic Drug Product Registration Requirements of Asean Countries and Preparation of A Dossier of Omeprazole Capsule as per Myanmar Guidelines	Mr. Nilesh Prajapati	Ms. Mansi Paradkar	2017
MPHRA	15MPHRA008	Patel Janki	Formulation and Evaluation of Transdermal 5-Fluorouracil Ethosomal Formulation for the Treatment of Non-Melanoma Skin Cancer	Ms. Mansi Paradkar		2016
MPHRA	15MPHRA009	Patel Monika	Comparative Study of Generic Drug Product Registration Requirements of Non-Regulated and Regulated Countries and Preparation of Dossier of Cefixime Oral Suspension as per Pharmacy and Poisons Board Guidelines	Mr. Nilesh Prajapati	Dr. Mrunali Patel	2017
MPHRA	15MPHRA009	Patel Monika	Preparation, compilation and submission of a dossier in CTD format for marketing authorization of Cefixime oral suspension as per PPB guideline	Ms. Pooja Aboti		2016
MPHRA	15MPHRA010	Patel Shachi	Formulation and Development of Curcuminoids Solid Dispersions for Dissolution Enhancement	Dr. Amit Patel		2016

MPHRA	15MPHRA010	Patel Shachi	To study registration guideline of herbal medicines in regulated market and to prepare dossier for phytopharmaceutical products as per CDSCO guideline	Dr. Lal Hingorani		2017
MPHRA	15MPHRA011	John Siji	Development of Liposomal Formulation of Riluzole for Intranasal Administration	Ms. Jagruti Prajapati		2016
MPHRA	15MPHRA011	John Siji	Registration requirements and comparison between six LATAM countries(Brazil, Mexico, peru, panama, Venezuela, Bolivia)	Mr. Nirav Patel		2017
MPHRA	15MPHRA012	Shivangi D Singh	Formuation and Evaluation of Nanoparticles loaded sublingual film of Raloxifene Hcl for Osteoporosis	Mr. Dharmang Pandya	–	2016
MPHRA	15MPHRA012	Shivangi Singh	Comparative Evaluation of Registration Requirements, Biopharmaceutics Classification System (BCS) Based Biowaiver for Drug Product in East African Countries and South Africa	Mr. B Makwana		2017
MPHRA	15MPHRA013	Bindu Yadav	Formulation and Development of Nanofiber assisted drug delivery for the treatment of skin cancer	Dr. Gaytri Patel		2016
MPHRA	15MPHRA013	Bindu Yadav	Study of Registration Requirements of Finished Generic Pharmaceutical Product For Portugal (European Country) and Malaysia (ASEAN Country)	Mr. B Makwana		2017
MPHPT	15MPHPT001	Patel Kriyesh N.	Formulation Development and evaluation of *Insitu* hydrogel of brinzolamine for the treatment of glaucoma	Dr. Gaytri Patel		2017

MPHPT	15MPHPT003	Rana Dhaval N.	Formulation Development and evaluation of artemether and lumefantrine loaded nano structured lipid carrier for the treatment of cerebral malaria.	Ms. Mansi Paradkar		2017

Summer Fellowship

Sr. No.	ID No	Student Name	Allocation to Faculty Member	Title of the work
1	13BPH047	Patel Kishan	Dr. Samir Patel and Ms. Avani Chokshi	Synthesis of Bioactive Moieties
2	13BPH010	Jaha Miraj		
3	14BPH038	Patel Karan		
4	13BPH082	Shah Priyal		
5	15BPH084	Shah Hardi	Dr. Manan Raval and Ms. Kanan Gamit	Phytochemical analysis of Plants and Separation of Phyto-Constituents.
6	15BPH023	Kachia Mihir		
7	14BPH069	Wadhwani Chirag		
8	13BPH069	Patel Riddhi	Dr.Mrunali Patel	Assessment of the Dissolution Profile of Marketed Acyclofenac Formulations.
9	13BPH0006	Desai Rashesh		
10	13BPH078	Purohit Nital		
11	15BPH075	Patel Tarang		
12	14BPH008	Gori Pooja	Dr. Sandip Patel	In-vitro tissue Experiment
13	15BPH028	Lalwani Rahul		
14	15BPH074	Patel Shrina		
15	13BPH085	Vadi Kirti		
16	15BPH017	Ghoghari Neel	Ms. Mansi Paradkar	Development and Evaluation of Pharmaceutical Formulation.
17	15BPH110	Solanki Riddhi		
18	15BPH060	Patel Mansi		
19	15BPH016	Doshi Mohit	Ms. Jagruti Parjapati	Development and Validation of UV-Spectrometric Method for Determination of Rufinamide Hydrochloride Loaded SOlid Lipid Nanoparticles
20	15BPH020	Hemani Rahul		
21	15BPH097	Soni Rajan		
22	15BPH021	Hemani Rashmi		

MOUs

For research consultancy, projects and educational activities, MOUs were done with J & S Ayurved College Research Centre, Nadiad and Packaging solutions Pvt. Ltd., Ahmedabad.

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy

Bachelor of Pharmacy Programme

1st to 8th semester of B. Pharm

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Faculty of Pharmacy

Bachelor of Pharmacy (B. Pharm) Programme

1st to 8th semester of B. Pharm

(AS PER PCI SYLLABUS)

Charotar University of Science and Technology (CHARUSAT)

CHARUSAT Campus, At Post: Changa – 388421, Taluka: Petlad, District: Anand

Phone: 02697-247500, Fax: 02697-247100, Email: info@charusat.ac.in

www.charusat.ac.in

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY (B. Pharm.) PROGRAMME

Vision of RPCP

To become a premier pharma institute by creating world class pharmacists and researchers for dissemination and creation of knowledge

Mission of RPCP

To develop entrepreneurial pharmacist with a penchant for research and development

Programme Educational Objective

1. To produce competent pharmacy graduates who shall be able to secure their career in pharmaceutical industry and/or institution of higher studies by dissemination of knowledge and training in pharmacy.
2. To acquire the knowledge about advances in pharmacy and to orient towards socially relevant research and development.
3. To encourage students for self-learning through modern information resources.
4. To enhance communication and critical thinking abilities for effective delivery of societal responsibilities.
5. To nurture and facilitate entrepreneurial capabilities and opportunities.

CHAPTER- I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS)of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semestershall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Projectover the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of

'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

9. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
2. The composition of the Program Committee shall be as follows:

   A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.
3. Duties of the Program Committee:

   i. Periodically reviewing the progress of the classes.

   ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.

   iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.

   iv. Communicating its recommendation to the Head of the institution on academic matters.

   v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessionalexam (Internal Assessment) and before the end semester exam.

10. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

10.1 End semester examinations

The End Semester Examinations for each theory and practical coursethrough semesters I to VIII shall beconducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

10.2 Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-I: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	**Maximum Marks**	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
Total	**10**	**5**
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	**5**	

Table- II: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

10.2.1 Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sessional examinations

For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		
Objective Type Questions (5 x 2) (Answer all the questions)	=	05 x 2 = 10
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10
	Total =	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20

Total	=	30 marks

Question paper pattern for practical sessional examinations		
I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05
Total	=	40 marks

11. Promotion and award of grades

A student shall be declared PASSand eligible for getting gradein a course of B.Pharm.program if he/she secures at least 50% marks in that particular course including internal assessment.For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

12. Carry forward of marks

In case a studentfails to secure the minimum 50% in any Theory or Practical course as specified in 12,then he/she shall reappear for the end semester examinationof that course. However his/her marks of the Internal Assessmentshallbe carried overand he/she shall be entitled for grade obtained by him/her on passing.

13. Improvement of internal assessment

A studentshall have the opportunity to improvehis/her performance only oncein the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

14. Re-examination of end semester examinations

Reexamination ofend semester examinationshall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

Table- III: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

Question paper pattern for end semester theory examinations

For 75 marks paper

I. Multiple Choice Questions(MCQs) = 20 x 1 = 20

OR OR

Objective Type Questions (10 x 2) = 10 x 2 = 20

(Answer all the questions)

II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20

III. Short Answers (Answer 7 out of 9) = 7 x 5 = 35

--- Total = 75 marks

For 50 marks paper

I. Long Answers (Answer 2 out of 3) = 2 x 10 = 20

II. Short Answers (Answer 6 out of 8) = 6 x 5 = 30

--- Total = 50 marks

For 35 marks paper

I. Long Answers (Answer 1 out of 2) = 1 x 10 =10

II. Short Answers (Answer 5 out of 7) = 5 x 5 = 25

--- Total = 35 marks

Question paper pattern for end semester practical examinations

I. Synopsis	=	5
II. Experiments	=	25
III. Viva voce	=	5
- Total marks	=	35

15. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in

6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfull y completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who hasgiven more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

Note: Grade ABshould be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

16. Grading of performances

16.1 Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course.The letter grades and their corresponding grade points are given in below Table.

Table – IV: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of ABand a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

17. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtainedin all the courses by the student during the semester. For example, if a

student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade pointsin these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPA is calculated to two decimal points.It should be noted that, the SGPA for any semester shall take into consideration the F and ABSgrade awarded in that semester. For example if a learner has a F or ABS grade in course 4, theSGPA shall then be computed as:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4 * \text{ZERO} + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

18. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s),till the course(s) is/are passed. When the course(s)is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

where $C_1, C_2, C_3, \ldots$ is the total number of credits for semester I,II,III,…. and $S_1, S_2, S_3, \ldots$ is the SGPA of semester I,II,III,…. .

19. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction = CGPA of. 7.50 and above

First Class = CGPA of 6.00 to 7.49

Second Class = CGPA of 5.00 to 5.99

20. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks
Total	**75 Marks**

Evaluation of Presentation:

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks
Total	**75 Marks**

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

21. Industrial training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

22. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college leveland grade point shall be awarded.

23. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks.Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

24 Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

25. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

26. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

No condonation is allowed for the candidate who has more than 2 years of break up period and he/she has to rejoin the program by paying the required fees.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
BACHELOR OF PHARMACY PROGRAMME
SEMESTER-1
SCHEME OF TEACHING (for [A] group students)

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
BPH1005	Remedial Biology (Theory)*	2	-	2
HS1001	Communication skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
BPH1005P	Remedial Biology (Practical)*	2	-	1
HS1001P	Communication skills (Practical)*	2	-	1
---	A course from DHSS	2	-	2
Total		**38**	**4**	**32**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
BPH1005	Remedial Biology (Theory)*	35	10	5	50
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
BPH1005P	Remedial Biology (Practical)*	15	5	5	25
HS1001P	Communication skills (Practical)*	15	5	5	25
---	A course from DHSS	70	30		100
Total		**610**	**240**		**850**

SCHEME OF TEACHING (for [B] group students)

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
MTH1001	Remedial Mathematics (Theory)*	2	-	2
HS1001	Communication skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
HS1001P	Communication skills (Practical)*	2	-	1
---	A course from DHSS	2	-	2
Total		**36**	**4**	**31**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
MTH1001	Remedial Mathematics (Theory)*	35	10	5	50
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
HS1001P	Communication skills (Practical)*	15	5	5	25
---	A course from DHSS	70	30		100
Total		**595**	**230**		**825**

SCHEME OF TEACHING (for [AB] group students)

Semester-I

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
HS1001	Communication Skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
HS1001P	Communication Skills (Practical)*	2	-	1
---	A course from DHSS	2	-	2
Total		**34**	**4**	**29**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
HS1001P	Communication Skills (Practical)*	15	5	5	25
---	A course from DHSS	70	30		100
Total		**560**	**215**		**775**

*** Non University Examination (NUE)**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
BACHELOR OF PHARMACY PROGRAMME
SEMESTER-II

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH2001	Human Anatomy and physiology-II (Theory)	3	1	4
BPH2002	Pharmaceutical Organic Chemistry-I (Theory)	3	1	4
BPH2003	Pharmaceutical Engineering (Theory)	3	1	4
BPH2004	Computer Applications in Pharmacy (Theory)*	3	-	3
BPH2001P	Human Anatomy and Physiology-II (Practical)	4	-	2
BPH2002P	Pharmaceutical Organic Chemistry-I (Practical)	4	-	2
BPH2003P	Pharmaceutical Engineering (Practical)	4	-	2
BPH2004P	Computer Applications in Pharmacy (Practical)*	2	-	1
---	A course from Liberal Arts	2	-	2
	Total	**28**	**3**	**24**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH2001	Human Anatomy and Physiology-II (Theory)	75	15	10	100
BPH2002	Pharmaceutical Organic Chemistry-I (Theory)	75	15	10	100
BPH2003	Pharmaceutical Engineering (Theory)	75	15	10	100
BPH2004	Computer Applications in Pharmacy (Theory)*	50	15	10	75
BPH2001P	Human Anatomy and Physiology-II (Practical)	35	10	05	50
BPH2002P	Pharmaceutical Organic Chemistry-I (Practical)	35	10	05	50
BPH2003P	Pharmaceutical Engineering (Practical)	35	10	05	50
BPH2004P	Computer Applications in Pharmacy (Practical)*	15	05	05	25
---	A course from Liberal Arts	70	30		100
	Total	**465**	**185**		**650**

*** Non University Examination (NUE)**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-III

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH3001	Pharmaceutical Organic Chemistry-II (Theory)	3	1	4
BPH3002	Physical Pharmaceutics-I (Theory)	3	1	4
BPH3003	Pharmaceutical Microbiology (Theory)	3	1	4
BPH3004	Pathophysiology (Theory)	3	1	4
BPH3005	Environmental Sciences (Theory)*	3	-	3
BPH3001P	Pharmaceutical Organic Chemistry-II (Practical)	4	-	2
BPH3002P	Physical Pharmaceutics-I (Practical)	4	-	2
BPH3003P	Pharmaceutical Microbiology (Practical)	4	-	2
---	A course from DHSS	2	-	2
--	University Elective	2	-	2
	Total	**31**	**4**	**29**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH3001	Pharmaceutical Organic Chemistry-II (Theory)	75	15	10	100
BPH3002	Physical Pharmaceutics-I (Theory)	75	15	10	100
BPH3003	Pharmaceutical Microbiology (Theory)	75	15	10	100
BPH3004	Pathophysiology (Theory)	75	15	10	100
BPH3005	Environmental Sciences (Theory)*	50	15	10	75
BPH3001P	Pharmaceutical Organic Chemistry-II (Practical)	35	10	05	50
BPH3002P	Physical Pharmaceutics-I (Practical)	35	10	05	50
BPH3003P	Pharmaceutical Microbiology (Practical)	35	10	05	50
---	A course from DHSS	70	30		100
--	University Elective	70	30		100
	Total	**595**	**230**		**825**

*** Non University Examination (NUE)**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-IV

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH4001	Pharmaceutical Organic Chemistry-III (Theory)	3	1	4
BPH4002	Biochemistry (Theory)	3	1	4
BPH4003	Physical Pharmaceutics-II (Theory)	3	1	4
BPH4004	Pharmacology-I (Theory)	3	1	4
BPH4005	Pharmacognosy-I (Theory)	3	1	4
BPH4002P	Biochemistry (Practical)	4	-	2
BPH4003P	Physical Pharmaceutics-II (Practical)	4	-	2
BPH4004P	Pharmacology-I (Practical)	4	-	2
BPH4005P	Pharmacognosy-I (Practical)	4	-	2
---	A course from DHSS	2	-	2
--	University Elective	2	-	2
	Total	**35**	**5**	**32**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH4001	Pharmaceutical Organic Chemistry-III (Theory)	75	15	10	100
BPH4002	Biochemistry (Theory)	75	15	10	100
BPH4003	Physical Pharmaceutics-II (Theory)	75	15	10	100
BPH4004	Pharmacology-I (Theory)	75	15	10	100
BPH4005	Pharmacognosy-I (Theory)	75	15	10	100
BPH4002P	Biochemistry (Practical)	35	10	05	50
BPH4003P	Physical Pharmaceutics-II (Practical)	35	10	05	50
BPH4004P	Pharmacology-I (Practical)	35	10	05	50
BPH4005P	Pharmacognosy-I (Practical)	35	10	05	50
---	A course from DHSS	70	30		100
--	University Elective	70	30		100
	Total	**655**	**245**		**900**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-5

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH5001	Medicinal Chemistry-I (Theory)	3	1	4
BPH5002	Industrial Pharmacy-I (Theory)	3	1	4
BPH5003	Pharmacology-II (Theory)	3	1	4
BPH5004	Pharmacognosy-II (Theory)	3	1	4
BPH5005	Pharmaceutical Jurisprudence (Theory)	3	1	4
BPH5001P	Medicinal Chemistry-I (Practical)	4		2
BPH5002P	Industrial Pharmacy-I (Practical)	4	-	2
BPH5003P	Pharmacology-II (Practical)	4	-	2
BPH5004P	Pharmacognosy-II (Practical)	4	-	2
---	A course from DHSS	2	-	2
Total		**33**	**5**	**30**

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH5001	Medicinal Chemistry-I (Theory)	75	15	10	100
BPH5002	Industrial Pharmacy-I (Theory)	75	15	10	100
BPH5003	Pharmacology-II (Theory)	75	15	10	100
BPH5004	Pharmacognosy-II (Theory)	75	15	10	100
BPH5005	Pharmaceutical Jurisprudence (Theory)	75	15	10	100
BPH5001P	Medicinal Chemistry-I (Practical)	35	10	5	50
BPH5002P	Industrial Pharmacy-I (Practical)	35	10	5	50
BPH5003P	Pharmacology-II (Practical)	35	10	5	50
BPH5004P	Pharmacognosy-II (Practical)	35	10	5	50
---	A course from DHSS	70	30	-	100
Total		585	145	70	800

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-6

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH6001	Medicinal Chemistry-II (Theory)	3	1	4
BPH6002	Pharmacology-III (Theory)	3	1	4
BPH6003	Herbal Drug Technology (Theory)	3	1	4
BPH6004	Industrial Pharmacy-II (Theory)	3	1	4
BPH6005	Pharmaceutical Biotechnology (Theory)	3	1	4
BPH6006	Instrumental Methods of Analysis (Theory)	3	1	4
BPH6002P	Pharmacology-III (Practical)	4	-	2
BPH6003P	Herbal Drug Technology (Practical)	4	-	2
BPH6006P	Instrumental Methods of Analysis (Practical)	4	-	2
---	A course from DHSS	2	-	2
Total		**32**	**6**	**32**

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH6001	Medicinal Chemistry-II (Theory)	75	15	10	100
BPH6002	Pharmacology-III (Theory)	75	15	10	100
BPH6003	Herbal Drug Technology (Theory)	75	15	10	100
BPH6004	Industrial Pharmacy-II (Theory)	75	15	10	100
BPH6005	Pharmaceutical Biotechnology (Theory)	75	15	10	100
BPH6006	Instrumental Methods of Analysis	75	15	10	100
BPH6002P	Pharmacology-III (Practical)	35	10	5	50
BPH6003P	Herbal Drug Technology (Practical)	35	10	5	50
BPH6006P	Instrumental Methods of Analysis (Practical)	35	10	5	50
---	A course from DHSS	70	30	-	100
Total		625	150	75	**850**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-7

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH7001	Medicinal Chemistry-III (Theory)	3	1	4
BPH7002	Quality Assurance (Theory)	3	1	4
BPH7003	Biopharmaceutics and Pharmacokinetics (Theory)	3	1	4
BPH7004	Pharmacy Practice (Theory)	3	1	4
BPH7005	Novel Drug Delivery System (Theory)	3	1	4
BPH7006	Practice School*	12	-	6
BPH7007	Entrepreneurship for Pharma professionals (Theory)*	1	-	1
BPH7001P	Medicinal Chemistry-III (Practical)	4	-	2
BPH7007P	Entrepreneurship for Pharma professionals (Project)	2	-	2
Total		**34**	**5**	**31**

* The subject experts at college level shall conduct examination.

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH7001	Medicinal Chemistry-III (Theory)	75	15	10	100
BPH7002	Quality Assurance (Theory)	75	15	10	100
BPH7003	Biopharmaceutics and Pharmacokinetics (Theory)	75	15	10	100
BPH7004	Pharmacy Practice (Theory)	75	15	10	100
BPH7005	Novel Drug Delivery System (Theory)	75	15	10	100
BPH7006	Practice School*	125	-	25	150
BPH7007	Entrepreneurship for pharma professionals (Theory)*	-	50	-	50
BPH7001P	Medicinal Chemistry-III (Practical)	35	10	5	50
BPH7007P	Entrepreneurship for pharma professionals (Project)	80	20	-	100
Total		615	155	80	**850**

* The subject experts at college level shall conduct examination.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-8

SCHEME OF TEACHING

Course Code	Name of the course	No. of hours	Tutorial	Credit Points
BPH8001	Biostatistics and Research Methodology (Theory)	3	1	4
BPH8002	Social and Preventive Pharmacy (Theory)	3	1	4
BPH8003	Pharma Marketing Management (Theory)	(Any two courses) 3+3=6	1+1=2	4+4=8
BPH8004	Pharmaceutical Regulatory Science (Theory)			
BPH8005	Pharmacovigilance (Theory)			
BPH8006	Quality Control and Standardization of Herbals (Theory)			
BPH8007	Computer Aided Drug Design (Theory)			
BPH8008	Cell and Molecular Biology (Theory)			
BPH8009	Cosmetic Science (Theory)			
BPH8010	Pharmacological Screening Methods (Theory)			
BPH8011	Advanced Instrumentation Techniques (Theory)			
BPH8012	Dietary Supplements and Nutraceuticals (Theory)			
BPH8013	Pharmaceutical Product Development (Theory)			
BPH8014	Project Work	12	-	6
	Total	**24**	**4**	**22**

SCHEME OF EVALUATION

Course Code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH8001	Biostatistics and Research Methodology (Theory)	75	10	15	100
BPH8002	Social and Preventive Pharmacy (Theory)	75	10	15	100
BPH8003	Pharma Marketing Management (Theory)	75 + 75 = 150	10 + 10 = 20	15 + 15 = 30	100 +100 =200
BPH8004	Pharmaceutical Regulatory Science (Theory)				
BPH8005	Pharmacovigilance (Theory)				
BPH8006	Quality Control and Standardization of Herbals (Theory)				
BPH8007	Computer Aided Drug Design (Theory)				
BPH8008	Cell and Molecular Biology (Theory)				
BPH8009	Cosmetic Science (Theory)				
BPH8010	Pharmacological Screening Methods (Theory)				
BPH8011	Advanced Instrumentation Techniques (Theory)				
BPH8012	Dietary Supplements and Nutraceuticals (Theory)				
BPH8013	Pharmaceutical Product Development (Theory)				
BPH8014	Project Work	150	-	-	150
Total		450	40	60	550

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	**29/31$/32#**
II	24
III	29
IV	32
V	30
VI	32
VII	31
VIII	22
Student can select a certificate course from SWAYAM, NPTEL, Etc. prescribe by Various Government Agencies	02*
Total credit points for the program	**229/231$/232#**

* The credit points assigned for a selection of certificate course/s from SWAYAM, NPTEL, Etc . prescribe by Various Government Agencies and submit a copy of course completion certificate, shall

be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

[$] Applicable ONLY for the students studied Physics/Chemistry/Botany/Zoology at HSC and appearing for Remedial Mathematics course.

[#] Applicable ONLY for the students studied Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology course.

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy
Master of Pharmacy Programme
(Pharmaceutical Technology)

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

© CHARUSAT 2018

ACADEMIC REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Academic Regulations for the postgraduate programmes under the Faculty of Pharmacy". They shall come into effect from the Academic Year 2018-19. The regulations framed are subject to modifications from time to time by the respective regulatory bodies.

2. Minimum Qualification for Admission

2.1 Candidate shall have passed B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm)

2.2 Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm).

3. Duration of the Programme

The course of study for M.Pharm shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

5. Working Days in a Semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and Progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Programme Credit Structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses**.**

9. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – 1 to 5.

9.1. End Semester Examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the University for which Examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

9.2. Internal Assessment: Continuous Mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table- 1: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	**Maximum Marks**
Attendance (Refer Table – 2)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 2)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table- 2: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

9.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college. The scheme of question paper for theory and practical Sessional examinations will be as prescribed by the regulatory body. The average marks of two Sessional

exams shall be computed for internal assessment as per the requirements given in Annexure II. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

10. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. Programme, if he/she secures at least 50% marks in that particular course including internal assessment.

11. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 9 above, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

12. Improvement of Internal Assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

13. Re-examination of End Semester Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table 3. The exact dates of examinations shall be notified from time to time.

Table-3: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

14. Academic Progression

No student shall be admitted to any examination unless he/she fulfils the norms given in item no. 6 under the heading of attendance and progress. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

15. Grading of Performances (Letter Grades and Grade Points Allocations)

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 4.

Table – 4: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of Ab. and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

16. Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five

courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the FF and Ab. grade awarded in that semester. For example if a learner has a FF or Ab. grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4Zero}{C1+C2+C3+C4}$$

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of FF grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\textbf{CGPA}=\frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1,S2, S3,….is the SGPA of semester I,II,III,…. .

No student will be allowed to move further if CGPA is less than 3 at the end of every academic year.

18. Declaration of Class (Table-5)

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.0 to 7.49
Second Class	= CGPA of 5.0 to 5.99

19. Project Work

All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book

Objective(s) of the work done	50
Methodology Adopted	250
Results and Discussions	150
Conclusions and Outcome	50
Total	500

Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks

22. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

23. Award of degree

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

24. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL TECHNOLOGY) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-I
Scheme of teaching

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHCCC001	Modern Pharmaceutical Analytical Techniques	4	4	4
PHTCH001	Drug Delivery System	4	4	4
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	4	4	4
PHTCH002	Regulatory Affairs	4	4	4
PHCCC002	Drug Development and Pharmaceutical Statistics	2	2	2
PHTCH003	Pharmaceutical Technology Practical-I	12	6	12
PHTCH004	Seminar / Assignment-I	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHCCC001	Modern Pharmaceutical Analytical Techniques	10	15	1Hr	25	75	3Hrs	100
PHTCH001	Drug Delivery System	10	15	1Hr	25	75	3Hrs	100
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	10	15	1Hr	25	75	3Hrs	100
PHTCH002	Regulatory Affairs	10	15	1Hr	25	75	3Hrs	100
PHCCC002	Drug Development and Pharmaceutical Statistics	10	15	1Hr	25	75	3Hrs	100
PHTCH003	Pharmaceutical Technology Practical-I	20	30	6Hrs	50	100	6Hrs	150
PHTCH004	Seminar/Assignment-I	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL TECHNOLOGY) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER II

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHTCH005	Molecular Pharmaceutics	4	4	4
PHTCH006	Advanced Biopharmaceutics & Pharmacokinetics	4	4	4
PHCCC008	Pharmaceutical Validation and Documentation	4	4	4
PHTCH007	Cosmetic and Cosmeceuticals	4	4	4
PHCCC004	Research Methodology	2	2	2
PHTCH008	Pharmaceutical Technology Practical-II	12	6	12
PHTCH009	Seminar/Assignment-II	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHTCH005	Molecular Pharmaceutics	10	15	1Hr	25	75	3Hrs	100
PHTCH006	Advanced Biopharmaceutics & Pharmacokinetics	10	15	1Hr	25	75	3Hrs	100
PHCCC008	Pharmaceutical Validation and Documentation	10	15	1Hr	25	75	3Hrs	100
PHTCH007	Cosmetic and Cosmeceuticals	10	15	1Hr	25	75	3Hrs	100
PHCCC004	Research Methodology	10	15	1Hr	25	75	3Hrs	100
PHTCH008	Pharmaceutical Technology Practical-II	20	30	6Hrs	50	100	6Hrs	150
PHTCH009	Seminar/Assignment-II	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL TECHNOLOGY) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-III

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHTCH010	Dissertation Part-I	32	16	32
PHCCC005	Journal Club-I	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHTCH010	Dissertation Part-I	-	-	-	150	200	-	350
PHCCC005	Journal Club-I	-	-	-	25	-	-	25
Total								375

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL TECHNOLOGY) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-IV

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHTCH011	Dissertation Part-II	32	16	32
PHCCC006	Journal Club-II	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHTCH011	Dissertation Part-II	-	-	-	200	200	-	400
PHCCC006	Journal Club-II	-	-	-	25	-	-	25
Total								425

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy

Master of Pharmacy Programme

(Regulatory Affairs)

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

© CHARUSAT 2018

ACADEMIC REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Academic Regulations for the postgraduate programmes under the Faculty of Pharmacy". They shall come into effect from the Academic Year 2018-19. The regulations framed are subject to modifications from time to time by the respective regulatory bodies.

2. Minimum Qualification for Admission

2.1 Candidate shall have passed B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm.)

2.2 Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm.).

3. Duration of the Programme

The course of study for M.Pharm shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

5. Working Days in a Semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and Progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Programme Credit Structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit

associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses**.**

9. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Annexure II (Table – 1 to 5).

9.1. End Semester Examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the University for which Examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

9.2. Internal Assessment: Continuous Mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table- 1: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	**Maximum Marks**
Attendance (Refer Table – 2)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 2)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table- 2: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

9.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college. The scheme of question paper for theory and practical Sessional examinations will be as prescribed by the regulatory body. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in Annexure II. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

10. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. Programme, if he/she secures at least 50% marks in that particular course including internal assessment.

11. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 9 above, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

12. Improvement of Internal Assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

13. Re-examination of End Semester Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table 3. The exact dates of examinations shall be notified from time to time.

Table-3: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

14. Academic Progression

No student shall be admitted to any examination unless he/she fulfils the norms given in item no. 6 under the heading of attendance and progress. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

15. Grading of Performances (Letter Grades and Grade Points Allocations)

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 4.

Table – 4: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of Ab. and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

16. Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the FF and Ab. grade awarded in that semester. For example if a learner has a FF or Ab. grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4Zero}{C1+C2+C3+C4}$$

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of FF grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA}=\frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1,S2, S3,….is the SGPA of semester I,II,III,…. .

No student will be allowed to move further if CGPA is less than 3 at the end of every academic year.

18. Declaration of Class (Table-5)

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.0 to 7.49
Second Class	= CGPA of 5.0 to 5.99

19. Project Work

All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book

Objective(s) of the work done	50
Methodology Adopted	250
Results and Discussions	150
Conclusions and Outcome	50
Total	500

Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks

22. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M.Pharm program shall not be eligible for award of ranks.

Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

23. Award of degree

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

24. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (REGULATORY AFFAIRS) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-I

SCHEME OF TEACHING

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHRGA001	Good Regulatory Practices	4	4	4
PHRGA002	Regulatory Writing	4	4	4
PHRGA003	Clinical Research Regulations	4	4	4
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	4	4	4
PHCCC002	Drug Development and Pharmaceutical Statistics	2	2	2
PHRGA004	Regulatory Affairs Practical-I	12	6	12
PHRGA005	Seminar/Assignment-I	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHRGA001	Good Regulatory Practices	10	15	1Hr	25	75	3Hrs	100
PHRGA002	Regulatory Writing	10	15	1Hr	25	75	3Hrs	100
PHRGA003	Clinical Research Regulations	10	15	1Hr	25	75	3Hrs	100
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	10	15	1Hr	25	75	3Hrs	100
PHCCC002	Drug Development and Pharmaceutical Statistics	10	15	1Hr	25	75	3Hrs	100
PHRGA004	Regulatory Affairs Practical – I	20	30	6Hrs	50	100	6Hrs	150
PHRGA005	Seminar/Assignment-I	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

SEMESTER-II

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHRGA006	Regulatory Aspects of Drugs & Cosmetics	4	4	4
PHRGA007	Regulatory Aspects of Food, Herbal & Nutraceuticals	4	4	4
PHRGA008	Regulatory Aspects of Biologicals and Medical Devices	4	4	4
PHCCC008	Pharmaceutical Validation and Documentation	4	4	4
PHCCC004	Research Methodology	2	2	2
PHRGA009	Regulatory Affairs Practical-II	12	6	12
PHRGA010	Seminar / Assignment-II	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHRGA006	Regulatory Aspects of Drugs & Cosmetics	10	15	1Hr	25	75	3Hrs	100
PHRGA007	Regulatory Aspects of Food, Herbal & Nutraceuticals	10	15	1Hr	25	75	3Hrs	100
PHRGA008	Regulatory Aspects of Biologicals and Medical Devices	10	15	1Hr	25	75	3Hrs	100
PHCCC008	Pharmaceutical Validation and Documentation	10	15	1Hr	25	75	3Hrs	100
PHCCC004	Research Methodology	10	15	1Hr	25	75	3Hrs	100
PHRGA009	Regulatory Affairs Practical-II	20	30	6Hrs	50	100	6Hrs	150
PHRGA010	Seminar/Assignment-II	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

SEMESTER-3

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHRGA011	Dissertation Part-I	32	16	32
PHCCC005	Journal Club-I	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHRGA011	Dissertation Part-I	-	-	-	150	200	-	350
PHCCC005	Journal Club-I	-	-	-	25	-	-	25
Total								375

SEMESTER 4

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHRGA012	Dissertation Part-II	32	16	32
PHCCC006	Journal Club-II	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHRGA012	Dissertation Part-II	-	-	-	200	200	-	400
PHCCC006	Journal Club-II	-	-	-	25	-	-	25
Total								425

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy
Master of Pharmacy Programme

(Pharmaceutical Quality Assurance)

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

© CHARUSAT 2018

ACADEMIC REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Academic Regulations for the postgraduate programmes under the Faculty of Pharmacy". They shall come into effect from the Academic Year 2018-19. The regulations framed are subject to modifications from time to time by the respective regulatory bodies.

2. Minimum Qualification for Admission

2.1 Candidate shall have passed B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm.)

2.2 Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm.).

3. Duration of the Programme

The course of study for M.Pharm shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

5. Working Days in a Semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and Progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Programme Credit Structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On

satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses**.**

9. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Annexure II (Table – 1 to 5).

9.1. End Semester Examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the University for which Examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

9.2. Internal Assessment: Continuous Mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table- 1: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	**Maximum Marks**
Attendance (Refer Table – 2)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 2)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table- 2: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

9.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college. The scheme of question paper for theory and practical Sessional examinations will be as prescribed by the regulatory body. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in Annexure II. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

10. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. Programme, if he/she secures at least 50% marks in that particular course including internal assessment.

11. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 9 above, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

12. Improvement of Internal Assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

13. Re-examination of End Semester Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table 3. The exact dates of examinations shall be notified from time to time.

Table-3: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

14. Academic Progression

No student shall be admitted to any examination unless he/she fulfils the norms given in item no. 6 under the heading of attendance and progress. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

15. Grading of Performances (Letter Grades and Grade Points Allocations)

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 4.

Table – 4: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of Ab. and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

16. Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the FF and Ab. grade awarded in that semester. For example if a learner has a FF or Ab. grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4Zero}{C1+C2+C3+C4}$$

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of FF grade(s), till the course(s) is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent

examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\mathbf{CGPA}=\frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1,S2, S3,….is the SGPA of semester I,II,III,…. .

No student will be allowed to move further if CGPA is less than 3 at the end of every academic year.

18. Declaration of Class (Table-5)

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.0 to 7.49
Second Class	= CGPA of 5.0 to 5.99

19. Project Work

All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book

Objective(s) of the work done	50
Methodology Adopted	250
Results and Discussions	150
Conclusions and Outcome	50
Total	500

Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks

22. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

23. Award of degree

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

24. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-I
SCHEME OF TEACHING

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHCCC001	Modern Pharmaceutical Analytical Techniques	4	4	4
PHPQA001	Quality Management System	4	4	4
PHPQA002	Quality Control and Quality Assurance	4	4	4
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	4	4	4
PHCCC002	Drug Development and Pharmaceutical Statistics	2	2	2
PHPQA003	Quality Assurance Practical-I	12	6	12
PHPQA004	Seminar/Assignment-I	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHCCC001	Modern Pharmaceutical Analytical Techniques	10	15	1Hr	**25**	**75**	3Hrs	**100**
PHPQA001	Quality Management System	10	15	1Hr	**25**	**75**	3Hrs	**100**
PHPQA002	Quality Control and Quality Assurance	10	15	1Hr	**25**	**75**	3Hrs	**100**
PHCCC007	Hazards, Safety and Risk Management & Intellectual Property Rights	10	15	1Hr	**25**	**75**	3Hrs	**100**
PHCCC002	Drug Development and Pharmaceutical Statistics	10	15	1Hr	**25**	**75**	3Hrs	**100**
PHPQA003	Quality Assurance Practical-I	20	30	6Hrs	**50**	**100**	6Hrs	**150**
PHPQA004	Seminar/Assignment-I	-	-	-	**100**	**-**	-	**100**
---	DHSS elective	-	-	-	**30**	**70**	-	**100**
---	University Elective	-	-	-	**30**	**70**	-	**100**
Total								**950**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-II
SCHEME OF TEACHING

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPQA005	Product Development and Technology Transfer	4	4	4
PHCCC008	Pharmaceutical Validation and Documentation	4	4	4
PHPQA006	Audit and Regulatory Compliance	4	4	4
PHPQA007	Pharmaceutical Manufacturing Technology	4	4	4
PHCCC004	Research Methodology	2	2	2
PHPQA008	Quality Assurance Practical-II	12	6	12
PHPQA009	Seminar/Assignment-II	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPQA005	Product Development and Technology Transfer	10	15	1Hr	25	75	3Hrs	100
PHCCC008	Pharmaceutical Validation and Documentation	10	15	1Hr	25	75	3Hrs	100
PHPQA006	Audit and Regulatory Compliance	10	15	1Hr	25	75	3Hrs	100
PHPQA007	Pharmaceutical Manufacturing Technology	10	15	1Hr	25	75	3Hrs	100
PHCCC004	Research Methodology	10	15	1Hr	25	75	3Hrs	100
PHPQA008	Quality Assurance Practical-II	20	30	6Hrs	50	100	6Hrs	150
PHPQA009	Seminar/Assignment-II	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								**950**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER 3

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPQA010	Dissertation Part-I	32	16	32
PHCCC005	Journal Club-I	02	02	02
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPQA010	Dissertation Part-I	-	-	-	150	200	-	350
PHCCC005	Journal Club-I	-	-	-	25	-	-	25
Total								375

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER 4

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPQA011	Dissertation Part-II	32	16	32
PHCCC006	Journal Club-II	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPQA011	Dissertation Part-II	-	-	-	200	200	-	400
PHCCC006	Journal Club-II	-	-	-	25	-	-	25
Total								425

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy

Master of Pharmacy Programme

(Pharmacology)

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

© CHARUSAT 2018

ACADEMIC REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Academic Regulations for the postgraduate programmes under the Faculty of Pharmacy". They shall come into effect from the Academic Year 2018-19. The regulations framed are subject to modifications from time to time by the respective regulatory bodies.

2. Minimum Qualification for Admission

2.1 Candidate shall have passed B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm.)

2.2 Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm.).

3. Duration of the Programme

The course of study for M.Pharm shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

5. Working Days in a Semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and Progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Programme Credit Structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On

satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses**.**

9. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Annexure II (Table – 1 to 5).

9.1. End Semester Examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the University for which Examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

9.2. Internal Assessment: Continuous Mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table- 1: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	**Maximum Marks**
Attendance (Refer Table – 2)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 2)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table- 2: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

9.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college. The scheme of question paper for theory and practical Sessional examinations will be as prescribed by the regulatory body. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in Annexure II. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

10. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. Programme, if he/she secures at least 50% marks in that particular course including internal assessment.

11. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 9 above, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

12. Improvement of Internal Assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

13. Re-examination of End Semester Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table 3. The exact dates of examinations shall be notified from time to time.

Table-3: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

14. Academic Progression

No student shall be admitted to any examination unless he/she fulfils the norms given in item no. 6 under the heading of attendance and progress. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

15. Grading of Performances (Letter Grades and Grade Points Allocations)

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 4.

Table – 4: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of Ab. and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

16. Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the FF and Ab. grade awarded in that semester. For example if a learner has a FF or Ab. grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4Zero}{C1+C2+C3+C4}$$

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of FF grade(s), till the course(s)

is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\mathbf{CGPA}=\frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1,S2, S3,….is the SGPA of semester I,II,III,…. .

No student will be allowed to move further if CGPA is less than 3 at the end of every academic year.

18. Declaration of Class (Table-5)

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.0 to 7.49
Second Class	= CGPA of 5.0 to 5.99

19. Project Work

All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book

Objective(s) of the work done	50
Methodology Adopted	250
Results and Discussions	150
Conclusions and Outcome	50
Total	500

Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks

22. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

23. Award of degree

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

24. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACOLOGY) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-I

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHCCC001	Modern Pharmaceutical Analytical Techniques	4	4	4
PHPCL001	Advanced Pharmacology-I	4	4	4
PHPCL002	Pharmacological Screening Methods	4	4	4
PHPCL003	Cellular and Molecular Pharmacology	4	4	4
PHCCC002	Drug Development and Pharmaceutical Statistics	2	2	2
PHPCL004	Pharmacology and Toxicology Practical-I	12	6	12
PHPCL005	Seminar/Assignment-I	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHCCC001	Modern Pharmaceutical Analytical Techniques	10	15	1Hr	25	75	3Hrs	100
PHPCL001	Advanced Pharmacology – I	10	15	1Hr	25	75	3Hrs	100
PHPCL002	Pharmacological Screening Methods	10	15	1Hr	25	75	3Hrs	100
PHPCL003	Cellular and Molecular Pharmacology	10	15	1Hr	25	75	3Hrs	100
PHCCC002	Drug Development and Pharmaceutical Statistics	10	15	1Hr	25	75	3Hrs	100
PHPCL004	Pharmacology and Toxicology Practical-I	20	30	6Hrs	50	100	6Hrs	150
PHPCL005	Seminar/Assignment-I	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

SEMESTER II

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPCL006	Advanced Pharmacology-II	4	4	4
PHPCL007	Toxicological Screening Methods	4	4	4
PHCCC003	Clinical Research and Pharmacovigilance	4	4	4
PHPCL008	Principles of Drug Discovery	4	4	4
PHCCC004	Research Methodology	2	2	2
PHPCL009	Pharmacology and Toxicology Practical-II	12	6	12
PHPCL010	Seminar / Assignment-II	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPCL006	Advanced Pharmacology-II	10	15	1Hr	25	75	3Hrs	100
PHPCL007	Toxicological Screening Methods	10	15	1Hr	25	75	3Hrs	100
PHCCC003	Clinical Research and Pharmacovigilance	10	15	1Hr	25	75	3Hrs	100
PHPCL008	Principles of Drug Discovery	10	15	1Hr	25	75	3Hrs	100
PHCCC004	Research Methodology	10	15	1Hr	25	75	3Hrs	100
PHPCL009	Pharmacology and Toxicology Practical-II	20	30	6Hrs	50	100	6Hrs	150
PHPCL010	Seminar/Assignment-II	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
Total								950

SEMESTER III

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPCL011	Dissertation Part-I	32	16	32
PHCCC005	Journal Club-I	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPCL011	Dissertation Part-I	-	-	-	150	200	-	350
PHCCC005	Journal Club-I	-	-	-	25	-	-	25
Total								375

SEMESTER IV

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPCL012	Dissertation Part-II	32	16	32
PHCCC006	Journal Club-II	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPCL012	Dissertation Part-II	-	-	-	200	200	-	400
PHCCC006	Journal Club-II	-	-	-	25	-	-	25
Total								425

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy

Master of Pharmacy Programme

(Pharmacy Practice)

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

© CHARUSAT 2018

ACADEMIC REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Academic Regulations for the postgraduate programmes under the Faculty of Pharmacy". They shall come into effect from the Academic Year 2018-19. The regulations framed are subject to modifications from time to time by the respective regulatory bodies.

2. Minimum Qualification for Admission

2.1 Candidate shall have passed B. Pharm Degree examination of an Indian university established by law in India from an institution approved by Pharmacy Council of India and has scored not less than 55 % of the maximum marks (aggregate of 4 years of B.Pharm)

2.2 Every student, selected for admission to post graduate pharmacy program in any PCI approved institution should have obtained registration with the State Pharmacy Council or should obtain the same within one month from the date of his/her admission, failing which the admission of the candidate shall be cancelled.

Note: It is mandatory to submit a migration certificate obtained from the respective university where the candidate had passed his/her qualifying degree (B.Pharm).

3. Duration of the Programme

The course of study for M.Pharm shall extend over a period of four semesters (two academic years). The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of Instruction and Examinations

Medium of instruction and examination shall be in English.

5. Working Days in a Semester

Each semester shall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and Progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Programme Credit Structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit

associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having four lectures per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

The contact hours of seminars, assignments and research work shall be treated as that of practical courses for the purpose of calculating credits. i.e., the contact hours shall be multiplied by 1/2. Similarly, the contact hours of journal club, research work presentations and discussions with the supervisor shall be considered as theory course and multiplied by 1.

7.2. Minimum credit requirements

The minimum credit points required for the award of M. Pharm. degree is 95. However based on the credit points earned by the students under the head of co-curricular activities, a student shall earn a maximum of 100 credit points. These credits are divided into Theory courses, Practical, Seminars, Assignments, Research work, Discussions with the supervisor, Journal club and Co-Curricular activities over the duration of four semesters. The credits are distributed semester-wise. Courses generally progress in sequence, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

8. Academic work

A regular record of attendance both in Theory, Practical, Seminar, Assignment, Journal club, Discussion with the supervisor, Research work presentation and Dissertation shall be maintained by the department / teaching staff of respective courses**.**

9. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – 1 to 5.

9.1. End Semester Examinations

The End Semester Examinations for each theory and practical course through semesters I to IV shall be conducted by the University for which Examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

9.2. Internal Assessment: Continuous Mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table- 1: Scheme for awarding internal assessment: Continuous mode

Theory	
Criteria	**Maximum Marks**
Attendance (Refer Table – 2)	8
Student – Teacher interaction	2
Total	10
Practical	
Attendance (Refer Table – 2)	10
Based on Practical Records, Regular viva voce, etc.	10
Total	20

Table- 2: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	8	10
90 – 94	6	7.5
85 – 89	4	5
80 – 84	2	2.5
Less than 80	0	0

9.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college. The scheme of question paper for theory and practical Sessional examinations will be as prescribed by the regulatory body. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in Annexure II. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

10. Promotion and Award of Grades

A student shall be declared PASS and eligible for getting grade in a course of M.Pharm. Programme, if he/she secures at least 50% marks in that particular course including internal assessment.

11. Carry Forward of Marks

In case a student fails to secure the minimum 50% in any Theory or Practical course as specified in 9 above, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessment shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

12. Improvement of Internal Assessment

A student shall have the opportunity to improve his/her performance only once in the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

13. Re-examination of End Semester Examinations

Re-examination of end semester examination shall be conducted as per the schedule given in table 3. The exact dates of examinations shall be notified from time to time.

Table-3: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I and III	November / December	May / June
II and IV	May / June	November / December

14. Academic Progression

No student shall be admitted to any examination unless he/she fulfils the norms given in item no. 6 under the heading of attendance and progress. ATKT rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I and II semesters till the III semester examinations. However, he/she shall not be eligible to attend the courses of IV semester until all the courses of I, II and III semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to IV semesters within the stipulated time period as per the norms.

Note: Grade AB should be considered as failed and treated as one head for deciding ATKT. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

15. Grading of Performances (Letter Grades and Grade Points Allocations)

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course. The letter grades and their corresponding grade points are given in Table – 4.

Table – 4: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good
60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of Ab. and a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

16. Semester Grade Point Average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtained in all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade points in these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4G4}{C1+C2+C3+C4}$$

The SGPA is calculated to two decimal points. It should be noted that, the SGPA for any semester shall take into consideration the FF and Ab. grade awarded in that semester. For example if a learner has a FF or Ab. grade in course 4, the SGPA shall then be computed as:

$$\text{SGPA}=\frac{C1G1+C2G2+C3G3+C4Zero}{C1+C2+C3+C4}$$

17. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of FF grade(s), till the course(s)

is/are passed. When the course(s) is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\mathbf{CGPA}=\frac{C1S1+C2S2+C3S3+C4S4}{C1+C2+C3+C4}$$

where C1, C2, C3,…. is the total number of credits for semester I,II,III,…. and S1,S2, S3,….is the SGPA of semester I,II,III,…. .

No student will be allowed to move further if CGPA is less than 3 at the end of every academic year.

18. Declaration of Class (Table-5)

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.0 to 7.49
Second Class	= CGPA of 5.0 to 5.99

19. Project Work

All the students shall undertake a project under the supervision of a teacher in Semester III to IV and submit a report. 4 copies of the project report shall be submitted (typed & bound copy not less than 75 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book

Objective(s) of the work done	50
Methodology Adopted	250
Results and Discussions	150
Conclusions and Outcome	50
Total	500

Evaluation of Presentation:

Presentation of work	100 Marks
Communication skills	50 Marks
Question and answer skills	100 Marks
Total	250 Marks

22. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the M.Pharm program shall not be eligible for award of ranks. Moreover, the candidates should have completed the M. Pharm program in minimum prescribed number of years, (two years) for the award of Ranks.

23. Award of degree

Candidates who fulfil the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

24. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
MASTER OF PHARMACY (PHARMACY PRACTICE) PROGRAMME
Schemes for internal assessments and end semester examinations

SEMESTER-I

SCHEME OF TEACHING

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPPP001	Clinical Pharmacy Practice	4	4	4
PHPPP002	Pharmacotherapeutics-I	4	4	4
PHPPP003	Hospital & Community Pharmacy	4	4	4
PHPPP004	Principles of Quality Use of Medicines	4	4	4
PHCCC002	Drug Development and Pharmaceutical Statistics	2	2	2
PHPPP005	Clinical Pharmacy Practical-I	12	6	12
PHPPP006	Seminar/Assignment-I (Practical mode)	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPPP001	Clinical Pharmacy Practice	10	15	1Hr	25	75	3Hrs	100
PHPPP002	Pharmacotherapeutics-I	10	15	1Hr	25	75	3Hrs	100
PHPPP003	Hospital & Community Pharmacy	10	15	1Hr	25	75	3Hrs	100
PHPPP004	Principles of Quality Use of Medicines	10	15	1Hr	25	75	3Hrs	100
PHCCC002	Drug Development and Pharmaceutical Statistics	10	15	1Hr	25	75	3Hrs	100
PHPPP005	Clinical Pharmacy Practical-I	20	30	6Hrs	50	100	6Hrs	150
PHPPP006	Seminar/Assignment-I	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
							Total	950

SEMESTER-II

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPPP007	Pharmacotherapeutics-II	4	4	4
PHPPP008	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	4	4	4
PHCCC003	Clinical Research and Pharmacovigilance	4	4	4
PHPPP009	Pharmacoepidemiology & Pharmacoeconomics	4	4	4
PHCCC004	Research Methodology	2	2	2
PHPPP010	Clinical Pharmacy Practical-II	12	6	12
PHPPP011	Seminar/Assignment-II	2	1	2
---	DHSS elective	2	2	2
---	University Elective	2	2	2
	Total	**36**	**29**	**36**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPPP007	Pharmacotherapeutics-II	10	15	1Hr	25	75	3Hrs	100
PHPPP008	Clinical Pharmacokinetics and Therapeutic Drug Monitoring	10	15	1Hr	25	75	3Hrs	100
PHCCC003	Clinical Research and Pharmacovigilance	10	15	1Hr	25	75	3Hrs	100
PHPPP009	Pharmacoepidemiology & Pharmacoeconomics	10	15	1Hr	25	75	3Hrs	100
PHCCC004	Research Methodology	10	15	1Hr	25	75	3Hrs	100
PHPPP010	Clinical Pharmacy Practical-II	20	30	6Hrs	50	100	6Hrs	150
PHPPP011	Seminar/Assignment-II	-	-	-	100	-	-	100
---	DHSS elective	-	-	-	30	70	-	100
---	University Elective	-	-	-	30	70	-	100
							Total	950

SEMESTER III

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPPP012	Dissertation Part-I	32	16	32
PHCCC005	Journal Club-I	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPPP012	Dissertation Part-I	-	-	-	150	200	-	350
PHCCC005	Journal Club-I	-	-	-	25	-	-	25
Total								375

SEMESTER IV

Course Code	Course Name	Credit Hours	Credit Points	Hrs/Week
PHPPP013	Dissertation Part-II	32	16	32
PHCCC006	Journal Club-II	2	2	2
	Total	**34**	**18**	**34**

SCHEME OF EVALUATION

Course Code	Course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
PHPPP013	Dissertation Part-II	-	-	-	200	200	-	400
PHCCC006	Journal Club-II	-	-	-	25	-	-	25
Total								425

Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa

Curriculum feedback analysis and action taken report
Academic Year: 2017-2018

Stake holder	No of feedback received	% feedback analysis	Major concerns	Action taken
Students	50	68	The curriculum must prepare the students for the career outside academia. They must understand and practice the professional ethics. The curriculum must prepare them for the career in their field.	Professional grooming programs, hand-on training programs, summer fellowship program etc. were organized for the students to make them competent for the future job. (Annexure-I: Annual Report of RPCP- A. Y. 2018-19 highlighted student participation in various programmes organized by RPCP) The teaching, learning and evaluation methods were modified to incorporate different pedagogical approaches. Different LMSs were utilized and open book examination and application based examinations were included. (Annexure-II: LMSs tools used for Teaching Learning Process at RPCP, Annexure-III: Circular regarding commencement of Open Book Examination at RPCP)
Alumni	30	90	The institute should improve the campus placement opportunities for the passing out students.	The institute organizes various on-campus and off-campus placement drives to provide job opportunities to the students. (Annexure-IV: Placement Data of RPCP A. Y. 2018-19)
Employers	5	97	No major concern was shown by the employers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Teachers	20	92	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Parents	18	81	Counselling facility to the students	The students are allotted with the faculty counsellor once they are enrolled in the institute. The counsellor guides the students for their issues related to teaching, learning, examination, event participations etc. (Annexure-V: List of Counselling Students of B. Pharm Programme)

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

RAMANBHAI PATEL COLLEGE OF PHARMACY

Annual Report



Academic Year: 2018-19

CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Accredited with "A" grade by NAAC, Govt. of India

RPCP JOURNEY SO FAR . . .

Ramanbhai Patel College of Pharmacy (RPCP) was established in the year 2004 with a view to promote excellence in pharmacy education and to prepare young talent to meet the challenges of Industrial Pharmacy and Pharmacy Practice. The institute has been patronized by Shree Pankaj Patel, Chairman and MD, Zydus Cadila Healthcare Ltd to commemorate his father, Late Shri Ramanbhai Patel. M.Pharm programs at RPCP are executed under the auspices of T.P.Patel Centre for PG studies in Pharmacy. The centre in patronized by Shri Jagdishbhai Patel, Principal Manager, KBR, USA and Shri H. T. Patel, Former President – API Business at Zydus Cadila Healthcare Ltd and their families to monumentalize their father, Late Shri T. P. Patel.

RPCP offers 1 UG (B.Pharm.) and 5 PG (M.Pharm.) programmes with specializations in Pharmaceutical Technology (PT), Pharmaceutical Quality Assurance (QA), Pharmacy Practice (PP), Pharmacology and Regulatory Affairs (RA).

Four certificate courses are offered to the interested UG students including Certificate Program in Packaging Technology (CPPT), Certificate Program in Cosmetic Technology (CPCT), Certificate Program in Pharmacovigilance and Certificate Program in Patent and Trademarks.

The Doctorate program is offered in full time as well as part time mode in the areas of Pharmaceutics, Pharmaceutical Analysis, Pharmacognosy, Pharmacology, Clinical Pharmacy and Pharmaceutical Chemistry. 02 Ph.D scholars have joined the programme this year. The admission in B.Pharm was 100% and 23 students joined the M.Pharm programmes this year

Training and Placements

Last year, out of 53 UG students and 19 PG students, 04 students from UG and 12 students from PG showed willingness for the placement while the rest were interested in the higher studies.. All the interested students were placed through the on or off campus drives to the following leading pharma companies:

1. Cadila Healthcare Ltd., Ahmedabad
2. Torrent Research Center, Bhat
3. Veeda Clinical Research, Ahmedabad
4. Cadila Pharmaceuticals, Dholka
5. Alkem Laboratory Ltd, Daman
6. Gowrie Healthcare Pvt Ltd (B& S Group of Company)
7. Medisol Lifescience Pvt. Ltd.

For the current year, till date 03 UG students and 08 PG students are already placed through the campus drives in various companies including Cadila Healthcare Ltd., Ahmedabad; CBCC Global, Ahmedabad and Intas Pharmaceutical Ltd. like previous years, the institute is determined to maintain the best placement record for the current year also and many more leading companies will be visiting the institute for the same.

Students of B.Pharm and M.Pharm have been undergoing training in Pharma industries as part of their curriculum. The list of the companies where our students gained the training is:

1. Sun Pharmaceutical Ltd
2. Pharmanza Herbal Pvt Ltd
3. Intas Pharmaceutical Ltd
4. Acculife Laboratories, Ahmedabad
5. CBCC Global, Ahmedabad
6. West Coast Pharmaceutical Works, Ahmedabad.
7. Vasu Healthcare Ltd.
8. Skylark Pharmaceutical, Ankleshwar
9. Vovantis Laboratory, Vadodara

The students of masters' program in clinical pharmacy were trained in the hospitals including:

1. Jivraj Mehta Smarak Foundation, Ahmedabad
2. Mahagujarat Hospital, Nadiad
3. CBCC Global, Ahmedabad
4. CHRF Hospital, Changa

Few of our PG students are completing their research project in the industries:

1. Sun Pharmaceutical Ltd
2. Pharmanza Herbal Pvt Ltd
3. Intas Pharmaceutical Ltd
4. Acculife Laboratories, Ahmedabad

EDUCATIONAL TOUR and VISITs were arranged for the students to:

Sr. No	Name of the company
1	Dimple Polymer, Anand
2	Envee drugs Pvt Ltd, Nadiad
3	Sanjar Pharma Ltd, Himatnagar

Participation in Competitive Examinations

GPAT was conducted by AICTE on 28th January, 2019 and out of 75 students appeared for the test, 04 students from the final year B.Pharm has successfully qualified the test:

NO	NAME OF STUDENT	Year of Studies	GPAT Roll No.	MARKS (500)	AIR
1.	Mohit Doshi	Final Year B.Pharm	GJ01200460	180	444
2.	Rashmi Hemani		GJ01200121	162	884
3.	Kishal Patel		GJ01200635	160	946
4.	Mihir Kachhia		GJ01200390	143	1742

Our students have also been appeared for the other competitive examination and 06 students of final year B.Pharm have qualified GRE whereas 14 students have qualified IELTS.

SCHOLARSHIPS

38 PG students are received for the CHARUSAT Scholarship**,** 24 students have received MYSY scholarship, 4 UG students and 1 PG student is receiving freeship, 9 UG students are under TFW while 2 UG and 2 PG students are gaining OBC scholarship.

EXPERT LECTURES

Guest Lecture Series has been initiated at RPCP with the objective of providing a platform for discussion and deliberations to students with renowned researchers and academicians and learn from their experiences. It is expected that such interaction would light the spark in the minds of the students and persuade them to innovate and research. Guests were invited to visit RPCP, CHARUSAT and deliver lectures/ presentations every alternate Saturday. In all 10 expert lectures were organized by experts from Industry and Academia from India as well as abroad.

EVENTS ORGANIZED BY RPCP

1. Continuing Education Programme

Three days Continuing Education Programme for Pharmacy Teachers was organized from 26th to 28th July 2018. 30 Teachers from Different Pharmacy Institutes participated in the event. The event was coordinated by Dr. Niraj Vyas and Dr. Ravish Patel from RPCP. The event was fully sponsored by Pharmacy Council of India (PCI), New Delhi.

2. Refresher Course for Registered Pharmacists

Ramanbhai Patel College of Pharmacy, a constituent institute of CHARUSAT had organized two days refresher course for registered pharmacists during 8th and 9th of December, 2018. The course was sponsored by Gujarat State Pharmacy Council (GSPC) and around 100 registered pharmacists had participated into the seminar. Dr. Umang Shah and Mr. Dharmendra Baria coordinated the event.

3. National Seminar on Translational Research in Cancer Biology

National Seminar on Translational Research in Cancer Biology was organized by Ramanbhai Patel College of Pharmacy, Charotar University of Science and Technology, Changa (CHARUSAT) on 1st and 2nd February, 2019. The seminar was financially supported by Gujarat State Biotechnology Mission (GSBTM) and CHARUSAT. The theme of seminar was "Strengthening Research to Combat Future of Cancer". Mr. Alkesh Patel coordinated the event.

4. Domain Knowledge Training

Domain Knowledge Training on Machine Learning, Data Mining and other cross disciplinary tools for Pharmacy Fraternity was held from 17th to 21st June 2019. The event was coordinated by Dr. Swayamprakash Patel.

Students Data

Summer Fellowship Program 2018

Summer fellowship Program is aimed to impart specialized experimental skills to undergraduate students, while encouraging them to opt for research oriented career. It involves allocating small research problem to students and they function under supervision of teaching faculty member of RPCP. 56 interested students of

RPCP were allocated to 14 Faculty Members during Summer Vacation 2018. The students worked for 14 days and were exposed to the advanced experimental techniques in respective field of research. Students also submitted report at the end of training period.

ACHIEVEMENTS

Co-curricular

Sweta Shah from third Year B.Pharm had attended, presented a poster and won the 1st prize in the UG category in the poster presentation competition at National seminar on Translational Research in Cancer Biology, organized by Ramanbhai Patel College of Pharmacy on 1st and 2nd February, 2019.

Jhanvi Soni from third Year B.Pharm had participated in GSA presentation competition arranged by Gujarat science academy at Gujarat University and won 1st prize.

Maitri Bhatt from third Year B.Pharm had published a paper on entrepreneurship at EDII, Ahmedabad.

Sweta Shah, Vishwa Talati, Vishwa Patel and Mehal Patel from third Year B.Pharm had won 2nd prize in model making competition at Science Manthan, organized by PDPIAS, CHARUSAT.

Extracurricular

Sweta Shah from third Year B.Pharm had participated in open mic and won best performer in IEEE, organized by CSPIT, CHARUSAR on 4th August, 2018.

Jhanvi Soni from third Year B.Pharm had won 1st prize in drug biology competition and 2nd prize in vocal cyclone competition in Pharmafest 2019, organized at Parul University.

Jeet Munjani and Ashfak Kagzi from third Year B.Pharm had won 1st prize in collage making competition at Science Manthan, organized by PDPIAS, CHARUSAT.

Kesha Patel and Jinagna Shah from third Year B.Pharm had won 2nd prize in Pharmulary competition at Scintilla'19 organized by MSU on 25th February, 2019.

Sports and Cultural

A cricket team of 15 boys of RPCP comprising of **Harit Patel, Mihir Kachhia, Divyesh Dobaria, Swar Shah, Parag Kachhadia, Prince Dhameliya, Vitthal Deshpande, Keval Patel, Dhruvil Patel, Arth Modi,**

Yash Chauhan , Shyam Bhalodiya, Trupal Patel and Jenish Patel participated in Cricket tournament held as a part of Spoural sports festival during 19th January to 31st January 2019. RPCP Boys cricket team secured 2nd rank in the tournament and awarded with certificates and trophy.

A team of 15 players comprising of boys students and staff members of RPCP participated in Cricket tournament in Pharma Battle 2019. RPCP Boys cricket team secured 2nd rank in the tournament and awarded with certificates and trophy. **Swar Shah** of 2nd sem B. Pharm was awarded as Best Batsman of the tournament in Boys cricket.

A team of 9 players comprising of **Deep Patel, Dhruvil Patel, Divyesh Dobariya, Jay Bajaj, Shivkumar, Parth Shah, Yash Chauhan and Vitthal Deshpande** participated in Football tournament in Pharma Battle 2019. RPCP Boys football team secured 2nd rank in the tournament and awarded with certificates and trophy.

Kanchi Acharya from final year B.Pharm had participated in 63rd All India Drama & Dance Competition organised by All India Artist Association, Shimla from 6th to 10th June 2018, and had won 1st in Semi Classical Dance, 2nd in Solo Classical & 2nd in Folk Dance.

Kanchi Acharya from final year B.Pharm had won Best Performance Award at International Folk-Dance Festival organized by European Association of Folklore Festival (EAFF), Gandhinagar 28th June to 1st July 2018.

Kanchi Acharya from final year B.Pharm had won runner up position in Classical Dance - Solo in Spoural 2019, organized by CHARUSAT.

Jhanvi Patel from final year B.Pharm had achieved runner up position in carom tournament, girls, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Jeel Chauhan from final year B.Pharm had won runner up position in Cartooning competition in Spoural 2019, organized by CHARUSAT.

Divyesh Dobariya from third Year B.Pharm won the runner up position in the badminton tournament for boys, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Jhanvi Soni from third Year B.Pharm had won runner up position in Clay modelling competition in Spoural 2019, organized by CHARUSAT.

Maitri Bhatt from third Year B.Pharm had won the title of Miss CHARUSAT during Spoural 2019, organized by CHARUSAT.

Kashyap Trivedi from third Year B.Pharm had won runner up position in carom tournament, boys, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Yesha Soni and Minal Patel from 2nd Year B.Pharm had won 1st and 2nd prize in Rangoli Competition in Spoural 2019, organized by CHARUSAT.

Shivkumar Vijaykumar Patel from 2nd Year B.Pharm had won the 1st prize in Elocution competition in Spoural 2019, organized by CHARUSAT.

Kruti Mistry from 2nd Year B.Pharm had won the 1st position in carom tournament, girls, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Yash Shah from 2nd Year B.Pharm had achieved runner up position in table tennis tournament, boys, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Shyam Bhalodiya from first Year B.Pharm had achieved runner up position in Chess tournament, in Pharma Battle 2019, organized by Ramanbhai Patel College of Pharmacy from 28th February to 2nd March, 2019.

Bhumil Soni and his team from first Year B.Pharm had secured runner up position in Add-Mad Show in Spoural 2019, organized by CHARUSAT.

Yukta Patel from first Year B.Pharm had won 1st prize in painting competition, organized by Ramanbhai Patel College of Pharmacy as a part of World Pharmacist Day.

Rahi Patel and Pankti Patel from first Year B.Pharm won 1st prize in Innovative Packaging competition, organized by Ramanbhai Patel College of Pharmacy as a part of World Pharmacist Day.

Khushi J Patel and Priya Patel from first Year B.Pharm won 2nd prize in Innovative Packaging competition, organized by Ramanbhai Patel College of Pharmacy as a part of World Pharmacist Day.

Prachi Patel from first Year B.Pharm won 1st prize in Pharma-Bee competition, organized by Ramanbhai Patel College of Pharmacy as a part of World Pharmacist Day.

Jeepsha Jasani and team from first Year B.Pharm had won the debate competition, organized by Ramanbhai Patel College of Pharmacy on Teacher's Day.

PARTICIPATIONS

Co-curricular

Chandani Tripathi and Shivangi Champaneri from 2nd Year M.Pharm (Regulatory Affairs) had attended and presented a poster at an International conference on "New Age Opportunities and Challenges for Quality, Safety and GMP of Herbal Drugs", Organized by: CSIR-NBRI Lucknow, Uttar Pradesh on 22nd and 23rd February 2019.

Chandani Tripathi and Shivangi Champaneri from 2nd Year M.Pharm (Regulatory Affairs) had attended and presented a poster at 1st National Convention of Indian Society of Pharmaceutical Regulatory Affairs, Organized by KBIPER Gandhinagar on 8th September, 2018.

Chandani Tripathi from 2nd Year M.Pharm (Regulatory Affairs) had attended a National Seminar on "Quality by Design Approach in Tablet- Formulation", Organized by Indukak Ipcowala Institute of Pharmacy, New Vallabh Vidhyanagar.

All the students of 1st and 2nd Year M.Pharm had attended a National seminar on Translational Research in Cancer Biology, organized by Ramanbhai Patel College of Pharmacy on 1st and 2nd February, 2019.

Rahul Lalwani and Mihir Kachiya from Final Year B.Pharm had attended and presented a poster at IPC 2018, organized at Amity University, Noida from 21st to 23rd December, 2018

Rahul Lalwani from Final Year B.Pharm had attended and presented a poster at National seminar on Translational Research in Cancer Biology, organized by Ramanbhai Patel College of Pharmacy on 1st and 2nd February, 2019.

Rahul Lalwani from Final Year B.Pharm had attempted Pharma Quiz 2019, conducted by The Indian Institute of Health Management Research, Jaipur.

Sweta Shah from third Year B.Pharm had attended IPC 2018, organized at Amity University, Noida from 21st to 23rd December, 2018.

Krishna Patel, Pushti Gandhi and Sachi Kalola from 2nd Year B.Pharm had attended a National seminar on Translational Research in Cancer Biology, organized by Ramanbhai Patel College of Pharmacy on 1st and 2nd February, 2019.

Priyanshi Shah, Yesha Soni and ShivKumar Vijaykumar from 2nd Year B.Pharm had participated in poster presentation competition in Indo Malaysian International Conference held at Babaria Institute of Technology on 27th February 2019.

Extracurricular

Kashyap Trivedi, Jinisha Phanse, Keya Patel from third Year B.Pharm had attended NSS annual camp-CHARUSAT.

Princy Dobariya and Gopi Gojariya from third Year B.Pharm had participated in Pharma Hunt at Scintilla'19 organized by MSU on 25th February, 2019

Vishwa talati and Vishwa patel from third Year B.Pharm had participated in Youth Parliament event at Convegno'19, organized by I^2IM on 15th and 16th February, 2019.

Diya Talaviya, Margi Shah, Meet Patel, Manan Patel, Yesha Shah and Jhanvi Thakkar from third Year B.Pharm had participated in Pharma Chef event, organized by ITM university on 8th February, 2019.

Chirangi Marvi from third Year B.Pharm had participated in Gujarat state Youth Convention, organized by Gujarat Youth Hostel Association of INDIA on 5th November, 2018.

Tatvee Mendha from third Year B.Pharm had participated in Science Manthan, organized by PDPIAS, CHARUSAT.

ShivKumar Vijaykumar from 2nd Year B.Pharm had participated in Pharmahunt, Pharmatalkathon and Pharmulary competitions at Scintilla'19, organized by The M.S. University, Vadodara on 25th February 2019. He had also participated in Innerveron and Model presentation competition organized by Parul University, Vadodara on 26th and 27th February 2019.

Sports and Cultural

Divyesh Dobariya from third Year B.Pharm is selected in university basketball team and had participated in university nationals organized at Aurangabad.

Harit Patel from third Year B.Pharm is selected in university cricket team and had participated in west zone inter university tournament, organized at Surat.

Dharmiki Patel from 2nd Year B.Pharm is selected as university Badminton player and had participated in WEST ZONE Badminton competition, Maharashtra.

Ruchi Patel from 2nd Year B.Pharm had participated in KHO KHO competition in Khel-Mahakumbh.

Swar Shah from first Year B.Pharm is selected in university cricket team.

EVENTS ORGANIZED AT RPCP

Continuing Education Program for Pharmacy Teachers

The institute had organized **"**Continuing Education Program for Pharmacy Teachers", sponsored by PCI, during 26th to 28th July 2018 at college campus. Theme of the program was "Teaching-Learning Methodology in pharmacy teaching". This program was organized with aim to educate pharmacy teachers on new advancements and to build upon a teacher's expertise in pharmacy education. The program was spread over 3 days of sessions and divided into 12 sessions on teaching learning methodologies. 30 pharmacy teachers of different pharmacy colleges and institutions of Gujarat state participated in the program. The program served as the platform for interesting intelligence and passion and helped for exploring innovative solutions and strategies for improving teaching learning practices amongst the pharma fraternities.

Faculty of Pharmacy, Endowment Chair Activity

The Endowment Chair is established with a purpose to promote academic activities as well as to promote excellence in research and innovation. For the year 2018-19, endowment chair activity was conducted during 25th to 28th June, 2018. Dr. Vandana B. Patravale, Professor, Department of Pharmaceutical Sciences and Technology, Institute of Chemical Technology, Mumbai was invited as a speaker for conducting the lecture sessions. Dr. Patravale had explained in very effective way designing of the research experiments through statistical methods and scope in improving quality of the healthcare products. She had called upon the students and faculty members to serve the nation and to show the belongingness to the country.

Domain Knowledge Training (DKT)

DKT is a summer training program created by Charotar University of Science and Technology (CHARUSAT) to make the teacher abreast about real time applications of tenets of their domain area. Domain Knowledge Training at RPCP was based on theme "Augmenting Teaching, Learning and Research" with an aim to train the teachers in the techniques to organize the classroom, manage the curriculum, motivate and enhance the students' performance with various techniques. The activities under the program consisted of technical lectures and workshop conducted by experienced experts in their respective field. The experts invited for the activities were Dr. M C Gohel, Professor, Department of Pharmaceutics, Anand Pharmacy College; Dr. Tejal Mehta, Professor & Head, Dept. of Pharmaceutics, Nirma University; and Dr.(Mrs.) Vandana B. Patravale Professor, Department of Pharmaceutical Sciences and Technology **,**Institute of Chemical Technology, Mumbai. The training ended with a three days' workshop on "Materials Production" by Dr. Shulabha Natrajan and Dr. Nandita Acharya in order to encourage, uplift and sustain the quality standards in the academics.

World Pharmacist day

World Pharmacist day was celebrated on 25th September, 2017, to mark the valuable contribution of pharmacists in Pharma and Health sector. A total of five events are organized by NSS team of RPCP including Pharma- bee, Pharma race, Pharma painting, Innovative packaging and The battle of the classes.

Refresher Course for Registered Pharmacists

Two days Refresher Course for Registered Pharmacists, sponsored by Gujarat State Pharmacy Council was organized by the institute on 8th and 9th of December, 2018. Around 100 registered pharmacists had participated into the course. Total seven lecture sessions were conducted during the two days.

Alumni Meet 2018

The Alumni meet 2018 was schedule on 22nd December, 2018 in the institute in the afternoon session. Total 31 alumni were present during the events. After registration and welcome, they were informed about the development happened in the Institutes and about the future events planned within the campus and the institute.

National Seminar on "Translational Research in Cancer Biology"

Institute had organized a National Seminar on "Translational Research in Cancer Biology" on 1st and 2nd February, 2019. The seminar was financially supported by Gujarat State Biotechnology Mission (GSBTM) and CHARUSAT. The theme of seminar was "Strengthening Research to Combat Future of Cancer". During inauguration function, Dr. Prabhudas Patel, Professor and Head, Cancer Biology, Gujarat Cancer and Research Institute (GCRI), Ahmedabad was invited as the Chief Guest and Shri. H. T. Patel, former President- API Business, Cadila Healthcare LTD, graced the occasion as the Guest of honor. Seven eminent speakers were invited as resource persons to deliver talks on various topics on translation of knowledge gathered from studies on Cancer Biology. 198 delegates of various institutes of pharmacy, paramedical and applied sciences as well as industries had participated in the seminar. Around 60 posters and 14 oral presentations were made by the delegates on various topics of current developments in cancer research.

Workshop on "Acquaintanceship with Hands-on Training on Pharmaceutical Instruments, Equipment and Allied Tools"

An instrument hands- on training workshop was conducted by the institute for the under graduate students of the pharmaceutical institutes during 7th to 9th February, 2019. This unique workshop had embraced hands-on training sessions on HPLC, HPTLC, Flash & Column Chromatography, Freeze Dryer, Extruder Spheronizer, Animal Handling, Aseptic & Cell Culture Laboratory. It is to be noted that the entire training program was organized for the students from the pharmacy institutes, other than Ramanbhai Patel College of

Pharmacy. 43 students were selected out of received 81 applications from various pharmacy colleges of Gujarat. At the completion of training program for the evaluation purpose, a tablet based examination was conducted of all the participants. The institute is planning to organize such sessions on the regular basis for the interested students.

Pharma Battle 2019

Inter College Sports Festival for the pharmacy colleges- Pharma Battle 2019- was organized by the institute from 28th February to 2nd March, 2019. The event included various indoor and outdoor games competition for boys and girls. Outdoor events included were Cricket, Football and Badminton and indoor events included were Carrom, Table Tennis and Chess. Around 450 players from various pharmacy colleges of Gujarat participated in various indoor and outdoor sports events. Such extracurricular activities are found to be very helpful in cultivating sportsman spirit, physical endurance, strategic planning abilities and leadership qualities.

WDC RPCP- The Best out of Waste Competition

The Women Development Cell of the institute organized the Competition "The Best out of Waste" on 10th August, 2018 at RPCP square during afternoon session. Total 32 groups of 80 students had participated in the competition. Students showed their talent and utilized waste material with good output as utility item. Winners were felicitated with cash price and certificates.

FACULTY PARTICIPATION

Staff development program

1. Faculty members of RPCP participated in one week Domain Knowledge Training (DKT) on "Machine Learning, Data Mining and other cross disciplinary tools for Pharmacy Fraternity" held from 17th to 21st June 2019 organized by RPCP during summer vacation 2019.

2. Dr. Gayatri Patel, Associate Professor attended 6 Days faculty development/Teachers Training Program on "Multiple Strategies for Creativity, Problem Solving and Innovation" a course offered under Endowment Chair of Faculty of Management Studies at CHARUSAT from 25th November to 1st December2018.

3. Mr. Nikunj Parekh, Assistant Professor attended Quality Improvement Program on "NMR spectroscopy for Pharma and Biotech Research" organized by IIT, Bombay during 20-24 May 2019.

Publications:

- Research/ Review articles: 37
- Book Chapters: 08
- Patents filed: 04

Oral and Poster Presentations: 18
Invited Talk delivered by RPCP faculty members: 25

Awards/ recognition:

Dr. Jalpa Suthar: Best Paper award by Indian Journal of Pharmacy Practice (Late Smt VG Yeole memorial Award in the 23rd National Annual APTI convention "APTICON-2018)

Dr. Swayamprakash Patel has cleared Indian Patent Agent Examination this year.

Research Grants received:

Dr. Jagruti Desai and Dr. Swayamprakash Patel has been awarded with CHARUSAT funded research Project.

Collaborative Research Projects: 14 (Dr. Manan Raval, Dr. Samir Patel, Dr. Umang Shah, Dr. Mehul Patel, and M.Pharm RA faculties)

Consultancy Projects: 07

1- Dr. Samir Patel, Dr. Amit Patel and Dr. Ravish Patel

1- Dr. Mrunali Patel, Dr. Ravish Patel and Ms. Avani Chokshi

1- Dr. Sandip Patel and Dr. Nilay Solanki

4- Dr. Rashmin Patel, Dr. Mrunali Patel, Ms. Payal Chauhan and Dr. Rajendra Kotadia

Ph.D Degrees were Awarded in January 2019 Convocation

Mr. Umang Shah: Dr. Samir Patel

Ms. Kanan Gamit: Dr. Manan Raval

Functional MOUs

- Pharmanza Herbal Pvt. Ltd.
- CHARUSAT Hospital
- Mahagujarat Medical Society
- IRIS Hospital, Anand- managed by Tulips Healthcare Pvt. Ltd.
- Herbitate Life sciences LLP
- Vasu Research Center

In house training programs:

HRDC CHARUSAT has initiated a two days Out Bound Training (OBT) Programme at Art of Living, Vasad for the teaching and nonteaching staff members of the university. Till date, Dr. Sandip Patel, Dr. Mrunali Patel, Dr. Jalpa Suthar, Dr. Rashmin Patel, Dr. Amit Patel, Dr. Jagruti Desai, Ms. Payal Chauhan, Mr. Minal Patel, Mr. Chintan Patel, Mr. Kamal Patel, Mr. Hetal Patel, Ms. Shraddha Patel, Mr. Jignesh Patel and Ms. Meghna Mehta had attended the training program.

A Workshop on Creativity and Problem Solving Skills was attended by Dr. Gayatri Patel this year. Previously, it was attended by Dr. Samir Patel, Dr. Mrunali Patel, Dr. Niraj Vyas and Ms. Jagruti Prajapati.

Participation in Sports and cultural by Faculty members:

Staff members of RPCP had participated in various events of Spoural and Pharma Battle 2019.

Dr. Niraj Vyas

- RPCP Boys cricket team **secured 2nd rank** in the tournament and awarded with certificates and trophy in Pharma battle 2019 **(28th February to 2nd March 2019).**
- Participated in Vrund 2019.

Ms. Avani Chokshi

- Participated in **Vrund 2019** and secured first rank in best performance (faculty category)

Ms. Jagruti Prajapati

- Participated in **Vrund 2019** and secured first rank in best dressing (faculty category).

Annexure-II: LMSs tools used for Teaching Learning Process at RPCP

Annexure - II

RAMANBHAI PATEL COLLEGE OF PHARMACY (RPCP)
CHARUSAT-CHANGA
A. Y. 2018-19

Various LMS tools used at RPCP by Faculty Members

Name of Faculty	Subject	Topic	LMS used
Avani Chokshi	Biochemistry (BPH4002)	Nucleic acid and metabolism	Google classroom
		DNA replication, transcription and translation	Google classroom
		Lipids and metabolism	Google classroom
	Medicinal Chemistry- II (BPH6001)	Oral hypoglycemic agents	Google classroom
Mrunali Patel	Physical Pharmaceutics-II (BPH4003)	Chemical Kinetics	Edmodo
Niraj Vyas	Herbal Drugs Technology (BPH6003)	IP of TK	Google classroom
	Herbal Drugs Technology (BPH6003)	Herbal Cosmetics	Google classroom
	Herbal Drugs Technology (BPH6003)	Nutraceuticals, IP of herbals, Herbal cosmetics, Regulations of ASU Drugs, Phytosome, D and C act for Herbal drugs	Google classroom
Sandip Patel	Pharmacology III BPH6002	Chemotherapy	Edmodo
	Pharmacology III BPH6002	Chemotherapy	Edmodo
	Pharmacology III BPH6002	Chemotherapy	Edmodo
Mehul Patel	Medicinal Chemistry- II (PH435)	Combinatorial Chemistry	Blog
		SBDD and compuational chemistry, Interpretation of QSAR equation	Edmodo
	EPP(PH438)	Technopreneureship	Blog
		Government Scheme for Pharmaceutical indutstries	Edmodo
Jalpa Suthar	clinical pharmacy and pharmacotherapeutics II ph434	infectious diseases	google Classroom
Hardik Koria	Clinical Pharmacy and Pharmacotherapeutics II (PH434)	CNS disorders	Google Classroom
	Pharmacology III (BPH6002)	Gastrointestinal disorders	Google classroom
Rajendra Kotadiya	Instrumetal methods of analysis (BPH6006)	IR, Gas, size exclusion and ion-exchange chromatography	Edmodo
		Merged answers of assignment	Edmodo
Rashmin Patel	Instrumetal methods of analysis (BPH6006)	HPLC, Electrophoresis,	Edmodo
Swayamprakash Patel	Industrial Pharmacy II (BPH6004)	Technology Transfer Guideline by WHO and Regulatory Aspects in New Drug Development	Google classroom

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

Manay

	Industrial Pharmacy II (BPH6004)	Regulatory Aspects	Google classroom
Alkeshkumar Patel	Human Anatomy & Physiology-II (BPH2001)	Introduction to Genetics, Urinary system	Google classroom
	Pharmacology- I (BPH4004)	General & Local Anaesthetics	Google classroom
		Glaucoma	Google classroom
Payal Chauhan	Computer Applications of Pharmacy(BPH2004)	TIMS,CDS,Bioinformatics	Google classroom
Nilay Solanki	Pharmacology-I (BPH4004)	Adverse drug reactions, Drug interactions and CNS Pharmacology	Edmodo
Nilay Solanki	Pharmacology-I (BPH4004)	Question bank	Edmodo
Jagruti desai	Pharmaceutical engineering (BPH2003)	Question bank, all materials	Google classroom
Nikunj Parekh	POC (BPH2002)	all material in form of ppt and pdf	Google classroom
	pharmacognosy	all material in form of ppt	Google classroom
Jagruti Prajapati	Physical Pharmaceutics-II (BPH4003)	Question bank and topics from text book	Google classroom
Amit Patel	Dosage Form design (PH436)	All study material PPT	Google classroom
		Question bank	Google classroom
		ebook	Google classroom
	Pharmaceutical Validation (M.Pharm PT, DRA,QA)	All study material PPT	web site
Umang Shah	PH435 - Medicinal Chemistry	All study material PPT	google site
	BPH4001 - POC-III	STEREOCHEMISTRY	google site
	BPH6001 Med. Chem-II	DRUG SYNTHESIS	You Tube Channel
	BPH4001 - POC-III	REACTION AND MECHANISM	You Tube Channel
	BPH2001 - POC-I	REACTION AND MECHANISM	You Tube Channel
Milap Patel	Human Anatomy & Physiology-II (BPH2001)	REPRODUCTIVE SYSTEM PPT	Google classroom
Milap Patel	Human Anatomy & Physiology-II (BPH2001)	Question Bank	Google classroom
Gayatri Patel	Industrial Pharmacy II (BPH6004)	Pilot Plant Scale up Techniques for all dosage	Edmodo

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

RAMANBHAI PATEL COLLEGE OF PHARMACY
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS-CHANGA.

Date: 04-10-2019

NOTICE

GUIDELINES FOR 2nd INTERNAL THEORY EXAMINATION, 2019-20

- Open book examination will be conducted for following subjects for 3rd and 5th Semester B. Pharm during 2nd internal theory examination, 2019-20.

Course Name & Code	
5th Semester B. Pharm	**3rd Semester B. Pharm**
Pharmacology-II **BPH5003**	Pathophysiology **BPH3004**
Industrial Pharmacy-I **BPH5002**	Pharmaceutical Microbiology **BPH3003**
Pharmacognosy-II **BPH5004**	Physical Pharmaceutics-I **BPH3002**
Pharmaceutical Jurisprudence **BPH5005**	Pharmaceutical Organic Chemistry-II **BPH3001**
Medicinal Chemistry-I **BPH5001**	-

Examination pattern for 3rd and 5th Semester B. Pharm:

- 30 Marks examination will be conducted in two parts as per following scheme:

	Mode of Examination	Marks	Time duration	Scheme of examination
1st Part	Regular internal examination	20	60 minutes	• **Q.1 - 10 MCQs of 1 Mark** each - Total **10 Marks** • **Q.2- Two Questions of 5 Marks** each -Total **10 Marks**
2nd Part	Open book examination	10	30 minutes	• **Q-3- One Question of 10 Marks** • Can be subdivided into **(5+5) Marks** or **(3+2 and 3+2) Marks** format

- For the 1st part of examination- mobile phones, laptops, smart watches or any other electronic devices are strictly prohibited.
- In the 2nd Part of examination (Open book), students can carry mobile phones or tablets containing review material, as well as hard copy of the review material provided by class coordinator.
- No reviewing time will be allotted during examination.
- Material for open book examination will be provided primarily by e-mail at 4:00 pm on a day of the respective subject before the exam date.

Exam cell
RPCP

Ramanbhai Patel College of Pharmacy * CHARUSAT CHANGA

Principal
RPCP

Scanned with CamScanner

Annexure-IV: Organizing on-campus and off-campus placement drives to provide job opportunities to the students

SUMMARY OF STUDENT PLACEMENT

Students	Total Students	No. of students Shows willingness for Placement	No. of students having offer from industry	% Placement as per offer received	% Placement as per Joined
UG	89	16	16	100	100
PG	36	25	23	88	88

We have received inquiry for recruitment from Alembic, Sun Pharma, Baroque Pharmaceutical etc. for B.Pharm Students.
The students were selected in following companies through On-Campus and Off-Campus Placement.

A. Placement Drive Organized at RPCP (On-Campus Placement Drive)

1. Intas Pharmaceutical Ltd (Pooled Campus for Kheda- Nadiad- Anand Region, 07/02/2019)

B. Placement Drive Organized at outside of RPCP (Off-Campus Placement Drive)

1. Cadila Healthcare Ltd (Off Campus, 21/02/2019)
2. CBCC Global, Ahmedabad (Off Campus- 27/02/2019)
3. Sushen Medicamentos Pvt. Ltd. (Off Campus, 08/03/2019)
4. Sanofi India- Ankleshawar (off Campus- 16/03/2018)
5. Zydus Research Center, Ahmedabad (Off Campus-15/03/2018)
6. Sun Pharmaceutical Ltd. (Off Campus, 26/03/2019)
7. Veeda Clinical Research, Ahmedabad (Off Campus, 10/04/2019)
8. Baroque Pharmaceutical ltd. (Off Campus, 04/05/2019)

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

PLACEMENT DATA

M.Pharm (Quality Assurance)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
17MPHQA002	PATEL KRINAL BIPINBHAI	Amnata Healthcare Pvt. Ltd.	July 2019	1.8
17MPHQA006	PATNI NIKESH R	Intas Pharmaceutical Ltd.	June 2019	2.60
17MPHQA007	PRAJAPATI ROHIT SANTKUMAR	Zydus Cadila	June 2019	2.60
17MPHQA008	RAJPUT VISHAL M.	Intas Pharmaceutical Ltd.	June 2019	2.60
17MPHQA009	SHAH JAINIKUMARI M.	CBCC Global	April 2019	2.16
17MPHQA010	ABHISHEK SHARMA	Veeda Clinical research	June 2019	2.16
17MPHQA011	SINGH NEHA	Lambda Therapeutics, Ahmedabad	June 2019	2.91

M.Pharm (Pharmaceutical Technology)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
17MPHPT001	ANERI SANTOSH BHAGAT	Step Up Pharma	July 2019	1.8
17MPHPT002	RASHES DESAI	IQVIA, Medical Educator	August 2019	4.25
17MPHPT004	PRATIK K PATEL	Herbella Pvt. Ltd.	Aug 2019	1.8

M.Pharm (Pharmaceutics- Drug Regulatory Affairs)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
17MPHRA003	MIMOH PALIWAL J.	Pharmasia, Indore	July 2019	2.4
17MPHRA006	PATEL NISHTHA GAURANGBHAI	Pharmanza Herbal Pvt. Ltd.	July 2019	1.8
17MPHRA008	PUROHIT NITAL	Curis Pharma	July 2019	1.8
17MPHRA009	RHEANN SUSAN RANJI	CBCC Global	April 2019	2.16
17MPHRA010	CHANDANI MANI TRIPATHI	Tata Consultancy Services	Aug 2019	2.8

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

M.Pharm (Clinical Pharmacy)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
17MPHCP001	AKHILESH SATISH NADAGOUDA	Jivraj Mehta Hospital	Oct 2019	2.16
17MPHCP002	PANDIT DHRUVI SUNILKUMAR	CBCC Global	April 2019	2.16
17MPHCP004	NISHA PATEL	CBCC Global	April 2019	2.16
17MPHCP006	PATEL RUTVI DATTESH	CBCC Global	April 2019	2.16
17MPHCP007	ZALAK ALPESHBHAI PATEL	Pharmacist at Apna Medical Store	July 2019	1.8
17MPHCP008	Amish Pathak	Assistant Professor, SPEC, Bakrol	Oct 2019	1.8

M.Pharm (Pharmacology)

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
17MPHCT002	KIRTI VADI	Veeda Clinical research	June 2019	2.16
17MPHCT003	AYUSHI HITENDRASINH SOLANKI	CBCC Global	April 2019	2.16

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

Placement Details of B.Pharm

04 students were shown their willingness and eligible for placement.

RPCP ID No	Student Name	Job Offered	Date/Month of Joining	Salary Package
15BPH102	Brijesh Virpara	Cadila Healthcare Ltd.	1st June 2019	2.16
15BPH025	Vishwa Kotak	Cadila Healthcare Ltd.	1st June 2019	2.16
15BPH092	Saloni Shah	Cadila Healthcare Ltd.	1st June 2019	2.16
15BPH109	Chaithra Baiju Pillai	Glaxo Smith Kline (GSK)	1st July 2019	3
15BPH034	Varun Maheshbhai Modh	Intas Pharmaceutical Ltd	1st June 2019	2.4
15BPH045	Patel Bhumi Dineshbhai	Ajanta Pharma, Dahej	15th July 2019	1.7
15BPH005	Raxit Bharadiya	Trainee Officer, Amneal Pharmaceuticals	18th June 2019	1.8
15BPH006	Disha Bhojak	Apollo Pharmacy	1st July 2019	1.44
15BPH009	Dhvani Dave	Enbee Education Centre	1st July 2019	1.4
15BPH053	Jhanvi A. Patel	Pharmacist, Charusat Hospital.	1st July 2019	1.2
15BPH086	Shah Keval	Pharmacist At Apollo CBCC Cancer Care	1st July 2019	1.44
14BPH005	Dabhi Mehulkumar B	Zydus Healthcare	1st July 2019	2.16
15BPH022	Hirpara Isha Parsottambhai	Parivar Pharmacy, Savli	July 2019	1.8
15BPH059	Patel Manshi Kalpeshbhai	Pharmacist, Charusat Hospital.	1st July 2019	1.2
15BPH079	Pipaliya Bhargav Suchitbhai	Pharmacist , Vedant Hospital	1st July 2019	1.4
15BPH082	Saiyad Naziyabanu Imtiyaz Ahemad	Pharmacist At Apollo CBCC Cancer Care	Oct 2019	1.44

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

RAMANBHAI PATEL COLLEGE OF PHARMACY
CHARUSAT CAMPUS - CHANGA
Academic Year 2015-16 (Student Counselling List)
2nd semester B. Pharm

Sr. No.	Student's ID	Name of Student	Name of Faculty Counselor
1	15BPH001	Arya Vaibhav Rakeshkumar	Avani Chokshi
2	15BPH002	Baldha Chhaya Piyushbhai	Avani Chokshi
3	15BPH003	Bapodra Bhavik Ashokkumar	Kunti Shah
4	15BPH004	Bhanushali Malak Khimjibhai	Amit Patel
5	15BPH005	Bharadiya Raxit Jitendrabhai	Amit Patel
6	15BPH006	Bhojak Disha Rahul	Kunti Shah
7	15BPH007	Chauhan Jeel Shailesh	Mehul Patel
8	15BPH008	Chokshi Siddharth Pareshkumar	Vijay Parmar
9	15BPH009	Dave Dhvani Rupeshkumar	Payal Shah
10	15BPH010	Dave Mishi Minoo	Payal Shah
11	15BPH011	Dave Riya Jayeshbhai	Payal Shah
12	15BPH013	Desai Nirali Rajeshkumar	Payal Shah
13	15BPH014	Desai Purvi Anirudhbhai	Gayatri Patel
14	15BPH015	Doshi Amrita Dhanpat	Pooja Aboti
15	15BPH016	Doshi Mohit Chiragkumar	Vijay Parmar
16	15BPH017	Ghoghari Neelkumar Kantibhai	Mansi Paradkar
17	15BPH019	Goraniya Pratik Kishan	Ravish Patel
18	15BPH020	Hemani Rahul Jagdishbhai	Anuradha Gajjar
19	15BPH021	Hemani Rashmi Jagdishbhai	Anuradha Gajjar
20	15BPH022	Hirpara Isha Parshottambhai	Mansi Paradkar
21	15BPH023	Kachhia Mihir Sunilkumar	Samir Patel
22	15BPH024	Karsalia Nikita Virenkumar	Nilay Solanki
23	15BPH025	Kotak Vishwa Pareshbhai	Samir Patel
24	15BPH027	Lakhara Yoginiben Janakkumar	Ravish Patel
25	15BPH028	Lalwani Rahul Dhirajbhai	Umang Shah
26	15BPH029	Master Yadida Himanshu	Vijay Parmar
27	15BPH030	Mecwan AaKunti Shahh Sandeepbhai	Dharmang Pandya
28	15BPH031	Mecwan Darpan Ketan	Avani Chokshi
29	15BPH032	Mehta Jigar Nileshkumar	Umang Shah
30	15BPH033	Mehta Shrey Asitkumar	Vijay Parmar
31	15BPH034	Modh Varun Maheshbhai	Mehul Patel
32	15BPH035	Modi Arth Sureshkumar	Mehul Patel
33	15BPH036	Nandpal Manishkumar Nareshbhai	Ravish Patel
34	15BPH037	Paliwal Bhaskar	Manna Raval

35	15BPH038	Panjabi Manali Yogeshkumar	Ravish Patel
36	15BPH039	Parikh Ronak Anilbhai	Nilay Solanki
37	15BPH041	Parmar Raj Shaileshbhai	Nilay Solanki
38	15BPH042	Parmar Sahilkumar Jitendrasinh	Umang Shah
39	15BPH043	Patel Avani Jignesh	Niraj Vyas
40	15BPH044	Patel Ayush Dinkeshbhai	Samir Patel
41	15BPH045	Patel Bhumi Dineshbhai	Jalpa Suthar
42	15BPH046	Patel Dhruvi Dhirenkumar	Amit Patel
43	15BPH047	Patel Dhruvik Manharbhai	Anuradha Gajjar
44	15BPH048	Patel Dhruvil Hasit	Ravish Patel
45	15BPH049	Patel Harshkumar Girishbhai	Anuradha Gajjar
46	15BPH050	Patel Harshkumar Rajendrakumar	Samir Patel
47	15BPH051	Patel Hetali Girishbhai	Jalpa Suthar
48	15BPH052	Patel Jankiben Daxeshbhai	Amit Patel
49	15BPH053	Patel Jhanvi Anandrao	Niraj Vyas
50	15BPH054	Patel Keval Sunilbhai	Amit Patel
51	15BPH055	Patel Krena Prafulbhai	Anuradha Gajjar
52	15BPH056	Patel Krusha	Pooja Aboti
53	15BPH057	Patel Lipisa Shylesh	Umang Shah
54	15BPH058	Patel Manankumar Dipakbhai	Gayatri Patel
55	15BPH059	Patel Manshi Kalpeshbhai	Samir Patel
56	15BPH060	Patel Mansi Rajeshbhai	Samir Patel
57	15BPH062	Patel Monak Manojbhai	Pooja Aboti
58	15BPH063	Patel Monali Kamleshkumar	Pooja Aboti
59	15BPH064	Patel Naiya Meeneshbhai	Niraj Vyas
60	15BPH065	Patel Naman Divyang	Vijay Parmar
61	15BPH066	Patel Nirali Satish	Manna Raval
62	15BPH067	Patel Pooja Shaileshbhai	Mansi Paradkar
63	15BPH068	Patel Poojan Ashokkumar	Mansi Paradkar
64	15BPH069	Patel Priyaben Bhavinkumar	Jalpa Suthar
65	15BPH070	Patel Riddhi Kalpeshbhai	Jalpa Suthar
66	15BPH071	Patel Riddhi Kamleshbhai	Nilay Solanki
67	15BPH072	Patel Rutviben Narendrakumar	Nilay Solanki
68	15BPH073	Patel Saloni Chaitanyakumar	Umang Shah
69	15BPH074	Patel Shrina Pareshkumar	Dharmang Pandya
70	15BPH075	Patel Tarang Rameshbhai	Dharmang Pandya
71	15BPH076	Patel Tejashwari Suhasbhai	Ravish Patel
72	15BPH077	Patel Urvishkumar Pragneshkumar	Payal Shah
73	15BPH078	Patel Viraj Kalpeshkumar	Kanan Gamit
74	15BPH079	Pipaliya Bhargav Suchitbhai	Kunti Shah
75	15BPH080	Rajgor Harsh Mahasukh	Niraj Vyas
76	15BPH081	Rawal Yashica Ashish	Avani Chokshi

77	15BPH082	Saiyad Naziyabanu Imtiyaz Ahemad	Niraj Vyas
78	15BPH083	Sardhara Arjun Atulbhai	Anuradha Gajjar
79	15BPH084	Shah Hardi Viralkumar	Avani Chokshi
80	15BPH085	Shah Janvi Sanjaykumar	Kunti Shah
81	15BPH086	Shah Keval Atulbhai	Niraj Vyas
82	15BPH087	Shah Manthan Jigneshkumar	Kanan Gamit
83	15BPH088	Shah Parth Manish	Kunti Shah
84	15BPH089	Shah Parth Manishkumar	Manna Raval
85	15BPH090	Shah Riddhiben Chetankumar	Manna Raval
86	15BPH091	Shah Sakshi Vikinbhai	Gayatri Patel
87	15BPH092	Shah Saloni Atulbhai	Gayatri Patel
88	15BPH093	Shaikh Nidatasmin Gulam Haider	Mehul Patel
89	15BPH094	Shukla Divya Dayanand	Mehul Patel
90	15BPH095	Sodagar Jhanvi Ashishbhai	Jalpa Suthar
91	15BPH096	Soni Pooja Bimalkumar	Amit Patel
92	15BPH097	Soni Rajan Dineshbhai	Pooja Aboti
93	15BPH098	Soni Shivaliben Susilkumar	Vijay Parmar
94	15BPH099	Surti Karan Rameshbhai	Gayatri Patel
95	15BPH100	Tanna Nisha Hitenkumar	Mansi Paradkar
96	15BPH101	Thakkar Yashashvi Chetanbhai	Kanan Gamit
97	15BPH102	Virpara Brijeshkumar Parbatbhai	Manna Raval
98	15BPH103	Vyas Darsh Ashishbhai	Manna Raval
99	15BPH104	Vyas Himaxi Devang	Dharmang Pandya
100	15BPH105	Acharya Kanchi Manoj	Kanan Gamit
101	15BPH106	Patel Kishalkumar Harishbhai	Kanan Gamit
102	15BPH107	Patel Prachi Amulbhai	Gayatri Patel
103	15BPH108	Patel Shivani Rakeshbhai	Payal Shah
104	15BPH109	Pillai Chaithra Baiju	Dharmang Pandya
105	15BPH110	Solanki Ridhdhi Narendra	Kanan Gamit

Dr. R. H. Parikh
Principal-RPCP

Ramanbhai Patel College of Pharmacy * CHARUSAT CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)
Ramanbhai Patel College of Pharmacy
B. Pharm Batch: 2016-20
Faculty Allotment for Student Counseling

Sr. No.	Student ID Number	Name of Student	Faculty Assigned	No. of Students
1	16BPH001	Abhangi Parth Sureshbhai	Dr. Amit Patel	6
2	16BPH014	Dobariya Princy	Dr. Amit Patel	
3	16BPH025	Khatri Dhanvi Atulkumar	Dr. Amit Patel	
4	16BPH057	Patel Meet Jitendrakumar	Dr. Amit Patel	
5	16BPH059	Patel Mehal Anilbhai	Dr. Amit Patel	
6	16BPH083	Shah Jinagna Abhay	Dr. Amit Patel	
7	16BPH008	Chauhan Priyal Mayankbhai	Dr. Gayatri Patel	5
8	16BPH027	Majithiya Darshakkumar Pradipbhai	Dr. Gayatri Patel	
9	16BPH049	Patel Heena Rameshbhai	Dr. Gayatri Patel	
10	16BPH062	Patel Niyatiben Vijaybhai	Dr. Gayatri Patel	
11	16BPH075	Phanse Jinisha Manish	Dr. Gayatri Patel	
12	16BPH016	Gandhi Karan Sudhir	Dr. Jalpa Suthar	5
13	16BPH034	Munjani Jeet Bharatbhai	Dr. Jalpa Suthar	
14	16BPH058	Patel Meghana Nileshbhai	Dr. Jalpa Suthar	
15	16BPH082	Shah Bansal Bhavinbhai	Dr. Jalpa Suthar	
16	16BPH088	Shah Parita Jayminbhai	Dr. Jalpa Suthar	
17	16BPH021	Joshi Rushi Nileshkumar	Dr. Manan Raval	5
18	16BPH070	Patel Shreyaben Nikunjkumar	Dr. Manan Raval	
19	16BPH078	Prajapati Paresh Shankarlal	Dr. Manan Raval	
20	16BPH089	Shah Shalvi Raxitkumar	Dr. Manan Raval	
21	16BPH098	Trivedi Kashyap Ajaybhai	Dr. Manan Raval	
22	16BPH013	Dobaria Divyesh Jagdishbhai	Dr. Mehul Patel	5
23	16BPH050	Patel Hinalben Pravinbhai	Dr. Mehul Patel	
24	16BPH067	Patel Priya Pareshkumar	Dr. Mehul Patel	
25	16BPH081	Rathod Khushmankumar Jitendrakumar	Dr. Mehul Patel	
26	16BPH093	Soni Jhanvi Vijaykumar	Dr. Mehul Patel	
27	16BPH011	Dave Megha Rakeshbhai	Dr. Mrunali Patel	5
28	16BPH032	Mendha Tatvee Dharmvir	Dr. Mrunali Patel	
29	16BPH042	Patel Deepkumar Chetankumar	Dr. Mrunali Patel	
30	16BPH076	Prajapati Jinkal Hasmukhbhai	Dr. Mrunali Patel	
31	16BPH097	Thakkar Jhanvi Jagdishbhai	Dr. Mrunali Patel	
32	16BPH015	Gajera Khushal Bharatbhai	Dr. Nilay Solanki	5
33	16BPH054	Patel Keya Amitbhai	Dr. Nilay Solanki	
34	16BPH066	Patel Priya Mineshkumar	Dr. Nilay Solanki	
35	16BPH074	Patel Vishwa Mitulkumar	Dr. Nilay Solanki	
36	16BPH090	Shah Swetaben Piyushbhai	Dr. Nilay Solanki	



Chief Academic CO-ordinator-RPCP

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)
Ramanbhai Patel College of Pharmacy
B. Pharm Batch: 2016-20
Faculty Allotment for Student Counseling

Sr. No.	Student ID Number	Name of Student	Faculty Assigned	No. of Students
37	16BPH004	Bhagat Harman Parthiv	Dr. Ravish Patel	6
38	16BPH020	Joshi Karan Tejasbhai	Dr. Ravish Patel	
39	16BPH026	Khatri Kenny Kirtikumar	Dr. Ravish Patel	
40	16BPH038	Patel Aditya Kalpeshbhai	Dr. Ravish Patel	
41	16BPH051	Patel Jahnavi Sanjaybhai	Dr. Ravish Patel	
42	16BPH094	Talati Vishwa Gaurang	Dr. Ravish Patel	
43	16BPH005	Bhatt Maitri Satyajit	Dr. Samir Patel	5
44	16BPH024	Khamar Khushali Gaurangbhai	Dr. Samir Patel	
45	16BPH033	Mistry Drashtiben Premjibhai	Dr. Samir Patel	
46	16BPH047	Patel Harit Rajeshbhai	Dr. Samir Patel	
47	16BPH052	Patel Janvi Rohitbhai	Dr. Samir Patel	
48	16BPH018	Goswami Vishalgiri Bhupendragiri	Dr. Sandip Patel	5
49	16BPH029	Marvi Chirangi Bhaveshbhai	Dr. Sandip Patel	
50	16BPH056	Patel Krishnaben Kiranbhai	Dr. Sandip Patel	
51	16BPH071	Patel Simmiben Sanjaykumar	Dr. Sandip Patel	
52	16BPH092	Solanki Parthkumar Ambalal	Dr. Sandip Patel	
53	16BPH012	Dholariya Bhoomi Mukeshbhai	Dr. Vijay Parmar	5
54	16BPH044	Patel Dhruvi Bharat	Dr. Vijay Parmar	
55	16BPH060	Patel Mihir Vipulkumar	Dr. Vijay Parmar	
56	16BPH084	Shah Maitreebahen Kiranbhai	Dr. Vijay Parmar	
57	16BPH095	Talaviya Diya Keshubhai	Dr. Vijay Parmar	
58	16BPH010	Dabhi Anaita Gracias Klamens	Mr. Dharmang Pandya	5
59	16BPH040	Patel Bhoomi Snehal	Mr. Dharmang Pandya	
60	16BPH061	Patel Nensi Miteshbhai	Mr. Dharmang Pandya	
61	16BPH069	Patel Shivam Umesh	Mr. Dharmang Pandya	
62	16BPH080	Rangpariya Kruti Mukeshbhai	Mr. Dharmang Pandya	
63	16BPH019	Hadiyal Ravi Dhirubhai	Mr. Niraj Vyas	5
64	16BPH068	Patel Riya Hiteshkumar	Mr. Niraj Vyas	
65	16BPH072	Patel Sweta Bharatkumar	Mr. Niraj Vyas	
66	16BPH086	Shah Meet Nilay	Mr. Niraj Vyas	
67	16BPH099	Vaghela Jaydeep Maheshbhai	Mr. Niraj Vyas	

Chief Academic CO-ordinator-RPCP

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)
Ramanbhai Patel College of Pharmacy
B. Pharm Batch: 2016-20
Faculty Allotment for Student Counseling

Sr. No.	Student ID Number	Name of Student	Faculty Assigned	No. of Students
68	16BPH006	Bhavsar Shivani Kalpeshkumar	Mr. Umang Shah	
69	16BPH035	Nagar Dhruv Rajeshbhai	Mr. Umang Shah	
70	16BPH064	Patel Parth Mayankkumar	Mr. Umang Shah	5
71	16BPH087	Shah Meet Yogeshkumar	Mr. Umang Shah	
72	16BPH096	Tanwar Jatin Pratap	Mr. Umang Shah	
73	16BPH007	Bhuva Vishal Dhanjibhai	Ms. Avani Choksi	
74	16BPH023	Kagzi Ashfak Riyazbhai	Ms. Avani Choksi	
75	16BPH043	Patel Dhruti Dipesh	Ms. Avani Choksi	5
76	16BPH048	Patel Harmit Narottambhai	Ms. Avani Choksi	
77	16BPH055	Patel Khushbu Kaushikkumar	Ms. Avani Choksi	
78	16BPH002	Aghera Kuldip Shashikantbhai	Ms. Jagruti Prajapati	
79	16BPH022	Kachhadiya Parag Arvindbhai	Ms. Jagruti Prajapati	
80	16BPH030	Mehta Nikhil Kiritkumar	Ms. Jagruti Prajapati	5
81	16BPH041	Patel Darshan Upendra	Ms. Jagruti Prajapati	
82	16BPH053	Patel Keshaben Sanjaykumar	Ms. Jagruti Prajapati	
83	16BPH003	Banker Nancy Ashokbhai	Ms. Kanan Gamit	
84	16BPH028	Mansuri Ramiza Khalidbhai	Ms. Kanan Gamit	
85	16BPH037	Parmar Chiragkumar Pankajbhai	Ms. Kanan Gamit	5
86	16BPH046	Patel Divyangi Narendrakumar	Ms. Kanan Gamit	
87	16BPH065	Patel Pooja Amit	Ms. Kanan Gamit	
88	16BPH009	Chhatbar Shreyas Pratapray	Dr. Rashmin Patel	
89	16BPH039	Patel Bansari Pramodbhai	Dr. Rashmin Patel	
90	16BPH073	Patel Vaishnavi Kiranbhai	Dr. Rashmin Patel	5
91	16BPH079	Rana Parth Kiranbhai	Dr. Rashmin Patel	
92	16BPH100	Vaishnani Vijil Ramesh	Dr. Rashmin Patel	
93	16BPH017	Gojariya Gopi Rameshbhai	Ms. Mansi Paradkar	
94	16BPH031	Mendes Carissa Cornelius	Ms. Mansi Paradkar	
95	16BPH063	Patel Palak Dipeshkumar	Ms. Mansi Paradkar	5
96	16BPH085	Shah Margiben Hemanshukumar	Ms. Mansi Paradkar	
97	16BPH091	Shah Yesha Ajaykumar	Ms. Mansi Paradkar	
			Total No. of Students	**97**

Chief Academic CO-ordinator-RPCP

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY(CHARUSAT)
Ramanbhai Patel College of Pharmacy
Academic Year: 2017-18
Faculty Allotment for Student Counselling
B. Pharm, 1st Semester

Sr. No.	Roll No	Student Name	Faculty Assigned
1	17BPH001	AGRAWAL HIMANSHU RAKESHBHAI	Dr. Rashmin Patel
2	17BPH019	GHATALIYA MOHIT GHANSHYAMBHAI	
3	17BPH039	PATEL AKASH VIPULBHAI	
4	17BPH077	PATEL TILAKKUMAR MAHENDRAKUMAR	
5	17BPH096	SHAH YASH SANJAY	
6	17BPH094	SHAH RUSHIKUMAR YAGNESHKUMAR	
7	17BPH005	BHUNIA ATITHI DAMODAR	Dr. Mrunali Patel
8	17BPH020	HARANI URVASHI SANTOSHKUMAR	
9	17BPH038	PATEL AARTI AXAYKUMAR	
10	17BPH058	PATEL KRISHNA PRADIPKUMAR	
11	17BPH057	PATEL KRINAL DHIRUBHAI	
12	17BPH076	PATEL SRUSHTI VIMALKUMAR	
13	17BPH002	BHANUSHALI PRIYA HIRALAL	Dr. Samir Patel
14	17BPH021	NIKUL JAIN RAMESH KUMAR JAIN	
15	17BPH059	KRISHNA PRATIKBHAI PATEL	
16	17BPH062	PATEL MEETKUMAR ASHOKBHAI	
17	17BPH078	PATEL URMITKUMAR RAJESHBHAI	
18	17BPH097	SOLANKI NIRALI BIPINKUMAR	
19	17BPH003	NANDINI ANKIT BHATT	Dr. Manan Raval
20	17BPH034	PARMAR ALEXKUMAR JAYANTIBHAI	
21	17BPH041	PATEL ANJALI NILESHKUMAR	
22	17BPH060	PATEL KRUPABEN KAMLESHBHAI	
23	17BPH091	SHAH KRUTARTH RAKESH	
24	17BPH098	SONI YESHABEN MANOJKUMAR	
25	17BPH115	BHAVSAR NANDITA PRASHANTKUMAR	
26	17BPH011	DESHPANDE VITHAL SHRINIVAS	Dr. Vijay Parmar
27	17BPH023	KALASARIYA AMI HARASUKHBHAI	
28	17BPH049	PATEL HARSHIL KETANBHAI	
29	17BPH068	PATEL OM CHINTUBHAI	
30	17BPH080	PATEL VISHWA SHANTILAL	
31	17BPH106	VANECHA RAVIKUMAR DASHARATH	
32	15BPH024	KARSALIA NIKITA VIRENKUMAR	Dr. Gayatri Patel
33	17BPH024	KALOLA SACHI NAYANKUMAR	
34	17BPH040	PATEL ANJALI DIPAKKUMAR	
35	17BPH043	PATEL AVANI BHAVESHBHAI	
36	17BPH081	PATEL YAMINI HITESHBHAI	
37	17BPH100	THAKKAR RICHA NILESHCHANDRA	
38	17BPH114	PATEL SEJALBEN NARESHBHAI	

Ramanbhai Patel College of Pharmacy * CHARUSAT CHANGA

Dr. Anuradha Gajjar
Principal, RPCP

Ramanbhai Patel College of Pharmacy

Academic Year: 2017-18

Faculty Allotment for Student Counselling

B. Pharm, 1st Semester

Sr. No.	Roll No	Student Name	Faculty Assigned
39	17BPH006	BUTANI PRINCY BHARATKUMAR	Dr. Mehul Patel
40	17BPH025	PRIYA KASHAV	
41	17BPH044	PATEL CHANDNI RAJESHKUMAR	
42	17BPH063	PATEL MEETKUMAR PRADIPBHAI	
43	17BPH082	PATEL YASH HASMUKHBHAI	
44	17BPH101	THAKOR SHIVANIBEN PRATAPSINH	
45	17BPH007	CHRISTIAN SHERYL BRAMWELL	Dr. Amit Patel
46	17BPH035	PARMAR TAPAN YOGESHBHAI	
47	17BPH037	PATADIA RAJVI HIREN	
48	17BPH064	PATEL MINAL ALPESHKUMAR	
49	17BPH083	PATHAK KRISHNA NAYANKUMAR	
50	17BPH105	VAGHELA VISHWRAJSINH BHARATSINH	
51	17BPH008	DALSANIA DRASHTI DILIPKUMAR	Dr. Ravish Patel
52	17BPH027	LUHAR MEHUL DEVRAJBHAI	
53	17BPH046	PATEL DHRUTIBEN DHARMENDRAKUMAR	
54	17BPH065	PATEL NANDINI BIRJUBHAI	
55	17BPH084	RAKHOLIYA BANSI PRAFULBHAI	
56	17BPH103	TIWARI PRITIBEN POONAMCHANDRA	
57	17BPH009	DESAI TAPANKUMAR TUSHARBHAI	Dr. Niraj Vyas
58	17BPH036	PARWANI BHAVNA SURESHBHAI	
59	17BPH054	PATEL JAY ATUL	
60	17BPH066	PATEL NIRAVBHAI RAJNIBHAI	
61	17BPH085	RANA SWAPNIL ALPESHKUMAR	
62	17BPH104	VAGHASIYA HETULA DIPAKBHAI	
63	17BPH010	DESAI VRAJ JIGNESHKUMAR	Mr. Umang Shah
64	17BPH029	MAKAWANA BHAVIK JAGDISHBHAI	
65	17BPH089	SHAH DEVARSH PRANAV	
66	17BPH086	RATHOD KEYUR DHANESHBHAI	
67	17BPH108	SHIVKUMAR VIJAYAKUMAR	
68	17BPH111	VYAS SMEET DEEPKUMAR	
69	17BPH004	BHAVSAR NISHI NIKUNJBHAI	Ms. Kanan Gamit
70	17BPH030	MARFATIA PRIYANSHI NIKULBHAI	
71	17BPH042	PATEL ARCHI MANUBHAI	
72	17BPH061	PATEL MAITRI SATISHKUMAR	
73	17BPH087	SATASIA RIYANSI BHAGAVANJIBHAI	
74	17BPH099	THAKKAR MANSI INDRAVADAN	

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

Dr. Anuradha Gajjar
Principal, RPCP

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY(CHARUSAT)
Ramanbhai Patel College of Pharmacy
Academic Year: 2017-18
Faculty Allotment for Student Counselling
B. Pharm, 1st Semester

Sr. No.	Roll No	Student Name	Counsellor
75	17BPH012	DHAMELIYA PRINCE MUKESHBHAI	Mr. Dharmang Pandya
76	17BPH031	MEHTA BELA ANIRUDDH	
77	17BPH050	PATEL HET DEEPAKBHAI	
78	17BPH069	PATEL PRACHI JIGNESHBHAI	
79	17BPH088	SAVALIYA NEEL VINODRAI	
80	17BPH107	VANKAR SAURAVKUMAR ARVINDBHAI	
81	17BPH013	DODIA VISHWA BHUPENDRASINH	Dr. Nilay Solanki
82	17BPH032	MISTRY KRUTI SANJAY	
83	17BPH048	PATEL DIVY MANISHKUMAR	
84	17BPH051	PATEL JAHANVI BHAVESHKUMAR	
85	17BPH056	PATEL JINALBEN JAYESHBHAI	
86	17BPH112	ZALA UDAYSINH PRADYUMANSINH	
87	17BPH014	DOSHI RUTVIK MANOJBHAI	Dr. Sandip Patel
88	17BPH033	PANCHAL CHAITALI KAMLESHBHAI	
89	17BPH052	PATEL JAINISHKUMAR YOGESHBHAI	
90	17BPH071	PATEL PREKSHA CHIRAGBHAI	
91	17BPH090	SHAH DHRUVI ALPESHBHAI	
92	17BPH109	VYAS JHANVI BHAGIRATHKUMAR	
93	17BPH015	DUDHAT CHARMI PRAVINBHAI	Dr. Jalpa Suthar
94	17BPH022	KACHHIYA PATEL PRACHI BHAVESHKUMAR	
95	17BPH053	PATEL JANVIBEN KANUBHAI	
96	17BPH072	PATEL RIDDHI YOGESHKUMAR	
97	17BPH079	PATEL VIDHI VASANTKUMAR	
98	17BPH110	VYAS MANSI PRADIP	
99	17BPH016	FICHADIYA DIPAL RAJESHBHAI	Ms. Avani Chokshi
100	17BPH026	KORANNE SHREYA VIVEK	
101	17BPH047	PATEL DHRUVIBEN VIJAYKUMAR	
102	17BPH073	PATEL RUCHI KALPESHKUMAR	
103	17BPH092	SHAH MANSI DHAVALKUMAR	
104	17BPH102	THUMBER DENSY RAJKUMAR	
105	17BPH017	GAJJAR KRUPALI BHAVINBHAI	Ms. Mansi Paradkar
106	17BPH028	LUNAGARIYA SHREYA ALPESH	
107	17BPH055	PATEL JIMILKUMAR NANDUBHAI	
108	17BPH074	PATEL RUTU KAMLESHBHAI	
109	17BPH093	SHAH PRIYANGIBEN HIMANSHUKUMAR	
110	17BPH075	PATEL SHREYA PRADIPKUMAR	
111	17BPH018	GANDHI PUSHTI RAKESH	Ms. Jagruti Prajapati
112	17BPH045	PATEL DHARMIKI JAYESHBHAI	
113	17BPH067	PATEL NISHI MANESHKUMAR	
114	17BPH070	PATEL PRACHIBEN BHAVIKKUMAR	
115	17BPH095	SHAH SHAILVI NIMESHKUMAR	
116	17BPH113	ZINZUVADIA DIWYANSHI SANJAYBHAI	

Dr. Anuradha Gajjar
Principal, RPCP

RAMANBHAI PATEL COLLEGE OF PHARMACY
CHARUSAT CAMPUS - CHANGA
Student Counseling List
Admission Year 2018-19

Sr. No.	Permanent ID	Student's Name	Counselor Name
1	18BPH001	AHALPARA NIRMAL NARESHBHAI	Dr. Swayamprakash Patel
2	18BPH002	BABARIYA SHUBHAMKUMAR DALSUKHBHAI	Dr. Swayamprakash Patel
3	18BPH003	BAGTHARIA VISHWESH SHAILESH	Dr. Swayamprakash Patel
4	18BPH004	BAJAJ JAY PARESHKUMAR	Dr. Swayamprakash Patel
5	18BPH005	BHALODIYA SHYAM PANKAJBHAI	Dr. Swayamprakash Patel
6	18BPH006	BHAVSAR PRIYANK JAYESHBHAI	Dr. Swayamprakash Patel
7	18BPH007	CHAKARANI DHRUVIN VIPULBHAI	Dr. Swayamprakash Patel
8	18BPH008	CHAUHAN SHREYA DASHRATHBHAI	Dr. Swayamprakash Patel
9	18BPH009	CHAUHAN YASH SANJAYBHAI	Dr. Swayamprakash Patel
10	18BPH010	CHOKSHI SEFALI SANJIVBHAI	Dr. Swayamprakash Patel
11	18BPH011	DUBAL SHALAKA RAKESH	Dr. Swayamprakash Patel
12	18BPH012	GAIROLA AKSHMITA NAVAL	Dr. Swayamprakash Patel
13	18BPH013	GANDHI DIPEN UMESHKUMAR	Dr. Swayamprakash Patel
14	18BPH014	GEDIYA HEMANGI VIPULBHAI	Dr. Swayamprakash Patel
15	18BPH015	GELANI PRANAV BHARATBHAI	Dr. Swayamprakash Patel
16	18BPH016	GEVARIYA NIDHI DINESHBHAI	Dr. Swayamprakash Patel
17	18BPH017	GONDALIYA RIDDHI ASHOKBHAI	Dr. Swayamprakash Patel
18	18BPH018	GORASIA KHYATI SANJAYBHAI	Dr. Swayamprakash Patel
19	18BPH019	HIRPARA SHUBHAM JAGDISHBHAI	Dr. Swayamprakash Patel
20	18BPH020	IYER VAISHNAVI RAMASUBRAMANIAM	Ms. Payal Chauhan
21	18BPH021	JAGLAWALA JESIKABEN VIJAYBHAI	Ms. Payal Chauhan
22	18BPH022	JASANI JEEPSHA JITENDRABHAI	Ms. Payal Chauhan
23	18BPH023	JOSHI NIDHI SHAILESHKUMAR	Ms. Payal Chauhan
24	18BPH024	KHATRI RUDRI HIMANSHUBHAI	Ms. Payal Chauhan
25	18BPH025	ABHINAV KUMAR	Ms. Payal Chauhan
26	18BPH026	KURMI NIKITA INDRAJEET	Ms. Payal Chauhan
27	18BPH027	LANGALIYA DHRUV KAMLESHBHAI	Ms. Payal Chauhan
28	18BPH028	MALAVIYA MINAXI SURESHBHAI	Ms. Payal Chauhan
29	18BPH029	MEHTA DHARA AMITKUMAR	Ms. Payal Chauhan
30	18BPH030	MEHTA MESHWA PULINKUMAR	Ms. Payal Chauhan

Manan

31	18BPH031	MERIYA DEEP GALABHAI	Ms. Payal Chauhan
32	18BPH032	MODI PRACHI NITINBHAI	Ms. Payal Chauhan
33	18BPH033	NAKUM PARTH BHARATKUMAR	Ms. Payal Chauhan
34	18BPH034	NASIT JAY RASIKLAL	Ms. Payal Chauhan
35	18BPH035	PANCHAL AAYUSHI RAJESHBHAI	Ms. Payal Chauhan
36	18BPH036	PANCHAL VAIDEHI RAKESHKUMAR	Ms. Payal Chauhan
37	18BPH037	PARMAR DHVANI NARENDRA	Ms. Payal Chauhan
38	18BPH038	PATEL KRISHNA SANJAYKUMAR	Ms. Payal Chauhan
39	18BPH039	PATEL AAKRUTI HITESHKUMAR	Dr.Jagruti Desai
40	18BPH040	PATEL ANJALI SANJAYKUMAR	Dr.Jagruti Desai
41	18BPH041	PATEL ARYA DIPAKKUMAR	Dr.Jagruti Desai
42	18BPH042	PATEL DARSHINI KALPESHKUMAR	Dr.Jagruti Desai
43	18BPH043	PATEL DEEP KALPESHBHAI	Dr.Jagruti Desai
44	18BPH044	PATEL DHWANI JIGNESHBHAI	Dr.Jagruti Desai
45	18BPH045	PATEL HELI DEVANG	Dr.Jagruti Desai
46	18BPH046	PATEL HELLY YOGESHKUMAR	Dr.Jagruti Desai
47	18BPH047	PATEL HEMISHA DAXESHBHAI	Dr.Jagruti Desai
48	18BPH048	PATEL HETVI RAMESHKUMAR	Dr.Jagruti Desai
49	18BPH049	PATEL HIMALIBEN HARSHADKUMAR	Dr.Jagruti Desai
50	18BPH050	PATEL HIMANI KAMLESHBHAI	Dr.Jagruti Desai
51	18BPH051	PATEL JANKI SANDIPKUMAR	Dr.Jagruti Desai
52	18BPH052	PATEL JENISH ANILBHAI	Dr.Jagruti Desai
53	18BPH053	PATEL KAIRAVI VIMALBHAI	Dr.Jagruti Desai
54	18BPH054	PATEL KHUSHBUBEN SANJAYKUMAR	Dr.Jagruti Desai
55	18BPH055	PATEL KHUSHI JAYESHKUMAR	Dr.Jagruti Desai
56	18BPH056	PATEL KHUSHI SUBHASH	Dr.Jagruti Desai
57	18BPH057	PATEL KRUPABEN BHARATKUMAR	Dr.Jagruti Desai
58	18BPH058	PATEL KUNJ RAVINDRABHAI	Mr. Alkesh Patel
59	18BPH059	PATEL MAITRIBEN SHAILESHBHAI	Mr. Alkesh Patel
60	18BPH060	PATEL MANSIBEN HASMUKHBHAI	Mr. Alkesh Patel
61	18BPH061	PATEL NAIYABEN RUPALKUMAR	Mr. Alkesh Patel
62	18BPH062	PATEL NISHTHABEN PIYUSHBHAI	Mr. Alkesh Patel
63	18BPH063	PATEL PANKTIBEN JAYDEVBHAI	Mr. Alkesh Patel
64	18BPH064	PATEL PANTHI VINUBHAI	Mr. Alkesh Patel
65	18BPH065	PATEL PARTHVI LEVISHBHAI	Mr. Alkesh Patel
66	18BPH066	PATEL PRACHI KAMLESHKUMAR	Mr. Alkesh Patel
67	18BPH067	PATEL PRIYA DHIRUBHAI	Mr. Alkesh Patel
68	18BPH068	PATEL RAHI ARVINDBHAI	Mr. Alkesh Patel

Manay

69	18BPH069	PATEL RUSHI MAYANKKUMAR	Mr. Alkesh Patel
70	18BPH070	PATEL RUTVIKABEN HITESHBHAI	Mr. Alkesh Patel
71	18BPH071	PATEL STUTI YOGESH	Mr. Alkesh Patel
72	18BPH072	PATEL TRUPAL PARESHKUMAR	Mr. Alkesh Patel
73	18BPH073	PATEL TWISHABEN VIRALKUMAR	Mr. Alkesh Patel
74	18BPH074	PATEL VAMANSHI VIJAYBHAI	Mr. Alkesh Patel
75	18BPH075	PATEL VARUN HIMANSHUKUMAR	Mr. Alkesh Patel
76	18BPH076	PATEL VRUSTI YOGESHKUMAR	Mr. Alkesh Patel
77	18BPH077	PATEL VRUTIBEN DAXESHBHAI	Dr Rajendra Kotadiya
78	18BPH078	PATEL YUKTA ALKESH	Dr Rajendra Kotadiya
79	18BPH079	PATHAK JAPAN JIGNESHKUMAR	Dr Rajendra Kotadiya
80	18BPH080	PINKAL BHUPENDRA SHAH	Dr Rajendra Kotadiya
81	18BPH081	PRANAMI VIRAJ KAMLESHKUMAR	Dr Rajendra Kotadiya
82	18BPH082	RANGPARIYA DHARMANSHU MAHESHBHAI	Dr Rajendra Kotadiya
83	18BPH083	RATHOD JEETKUMAR NAYANBHAI	Dr Rajendra Kotadiya
84	18BPH084	RATHOD SAHIL DINESHBHAI	Dr Rajendra Kotadiya
85	18BPH085	SANIKA SUHAS DONGRE	Dr Rajendra Kotadiya
86	18BPH086	SHAH MANSI SAMIRKUMAR	Dr Rajendra Kotadiya
87	18BPH087	SHAH AYUSH VRAJESH	Dr Rajendra Kotadiya
88	18BPH088	SHAH DHWANI TEJASH	Dr Rajendra Kotadiya
89	18BPH089	SHAH DRASHTIBEN PRAGNESHKUMAR	Dr Rajendra Kotadiya
90	18BPH090	SHAH GUNJ NIRAJKUMAR	Dr Rajendra Kotadiya
91	18BPH091	SHAH KRUPA DAXESH	Dr Rajendra Kotadiya
92	18BPH092	SHAH NEHA KAUSHIK	Dr Rajendra Kotadiya
93	18BPH093	SHAH NUPUR HITESHKUMAR	Dr Rajendra Kotadiya
94	18BPH094	SHAH SWAR PARIKSHIT	Dr Rajendra Kotadiya
95	18BPH095	SHIHORA PRARTHNA BHARATBHAI	Dr Rajendra Kotadiya
96	18BPH096	SHIVNANI UNNATI MANHARBHAI	Mr. Hardik Koria
97	18BPH097	SHUKLA MITVA ASHISHKUMAR	Mr. Hardik Koria
98	18BPH098	SIDHU RAMANDEEPKAUR SARBJITSINGH	Mr. Hardik Koria
99	18BPH099	SOLANKI DAXIT GOVINDBHAI	Mr. Hardik Koria
100	18BPH100	SONI NIDHI NIMESHBHAI	Mr. Hardik Koria
101	18BPH101	SUMERA SHAILESHBHAI MUKESHBHAI	Mr. Hardik Koria
102	18BPH102	TADVI NIDHI SHANUBHAI	Mr. Hardik Koria
103	18BPH103	VASOYA SANJANA RAJESHBHAI	Mr. Hardik Koria
104	18BPH104	DESAI NISHTHA NIRAV	Mr. Hardik Koria
105	18BPH105	DHAMECHA DHRUVIL	Mr. Hardik Koria

		PRAJESHBHAI	
106	18BPH106	KAPADIYA NIRBHAY NAYANBHAI	Mr. Hardik Koria
107	18BPH107	PATEL RIYA PINALBHAI	Mr. Hardik Koria
108	18BPH108	PATEL YUG SHAILESH	Mr. Hardik Koria
109	18BPH109	PATEL ZEEL RASHMINBHAI	Mr. Hardik Koria
110	18BPH110	RAKHOLIYA BRIJESH JITENDRAKUMAR	Mr. Hardik Koria
111	18BPH111	SHETH DEVANSHI KAUSHAL	Mr. Hardik Koria
112	18BPH112	SONI BHUMIL SANDIP	Mr. Hardik Koria
113	18BPH113	SUNIL KUMAR YADAV	Mr. Hardik Koria
114	18BPH114	THAKOR SANJAYBHAI CHANDUBHAI	Mr. Hardik Koria

Ramanbhai Patel College of Pharmacy • CHARUSAT CHANGA

Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa

Curriculum feedback analysis and action taken report
Academic Year: 2018-2019

Stake holder	No of feedback received	% feedback analysis	Major concerns	Action taken
Students	66	86	The curriculum must prepare the students for the career outside academia. They must understand and practice the professional ethics.	Various hands-on training programs and workshops were organized by the institute for the students to enhance their practical knowledge and imbibe research skills. Number of extension activities were organized for the students for to explain the professional role as a pharmacist and their social responsibilities. (Annexure-I: Annual Report of RPCP A. Y. 2019-20)
Alumni	32	89	No major concern was shown by the alumni for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Employers	5	98	No major concern was shown by the employers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Teachers	20	93	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Parents	10	82	The quality of teaching offered by the institute and depth of syllabus coverage. Examination system adopted by the institute. Communication and inter-personal skills acquired by their ward.	The project component is incorporated in the revised syllabus. The continuous evaluation component is included in the examination system. Various subjects like communication skills, professional development, creativity, innovation and problem solving, etc are included in the curriculum. (Annexure-II: Scheme of Teaching and Evaluation)

Ramanbhai Patel College of Pharmacy
CHARUSAT
CHANGA

RAMANBHAI PATEL
COLLEGE OF PHARMACY

Annual Report



Academic Year: 2019-20

CHARUSAT
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
Accredited with "A" grade by NAAC, Govt. of India

RPCP JOURNEY SO FAR . . .

Ramanbhai Patel College of Pharmacy (RPCP) was established in the year 2004 with a view to promote excellence in pharmacy education and to prepare young talent to meet the challenges of Industrial Pharmacy and Pharmacy Practice. The institute has been patronized by Shree Pankaj Patel, Chairman and MD, Zydus Cadila Healthcare Ltd to commemorate his father, Late Shri Ramanbhai Patel. M.Pharm programs at RPCP are executed under the auspices of T.P.Patel Centre for PG studies in Pharmacy. The centre in patronized by Shri Jagdishbhai Patel, Principal Manager, KBR, USA and Shri H. T. Patel, Former President – API Business at Zydus Cadila Healthcare Ltd and their families to monumentalize their father, Late Shri T. P. Patel.

RPCP offers 1 UG (B.Pharm.) and 5 PG (M.Pharm.) programmes with specializations in Pharmaceutical Technology (TCH), Pharmaceutical Quality Assurance (PQA), Pharmacy Practice (PP), Pharmacology (PCL) and Regulatory Affairs (RGA).

Four certificate courses are offered to the interested UG students including Certificate Program in Packaging Technology (CPPT), Certificate Program in Cosmetic Technology (CPCT), Certificate Program in Pharmacovigilance and Certificate Program in Patent and Trademarks.

The Doctorate program is offered in full time as well as part time mode in the areas of Pharmaceutics, Pharmaceutical Analysis, Pharmacognosy, Pharmacology, Clinical Pharmacy and Pharmaceutical Chemistry. 08 Ph.D scholars have joined the programme this year. The admission in B.Pharm was 100% and 34 students joined the M.Pharm programmes this year.

EVENTS ORGANIZED AT RPCP

1. Domain Knowledge Training (Machine Learning, Data Mining and Other Cross-Disciplinary Tools for Pharmacy Fraternity)

With the continuous expansion of R & D horizons of every discipline of the STEM, many of them are merging together with fruitful results. Such cross-disciplinary research and innovations are being encouraged across the globe. However, the major impeding part in cross-disciplinary research is the limited availability of human workforces which have the grasping over multiple technical fields. In context to above, a Domain Knowledge Training was envisaged for the faculties of Ramanbhai Patel College of Pharmacy during 17th to 21st June, 2019. Every session of DKT were flavoured with comprehensive Hands-on training on every topic. This DKT will help to develop a workforce which has cross-disciplinary knowledge of artificial intelligence and pharmaceutical science. Such workforce will act as tiny nuclei and disseminate such skills to the peers. This workshop will enable the aspirant researchers of the pharmaceutical field to explore various applications and innovations based on artificial intelligence in the field of health, drug delivery, biomedical engineering, diagnostics, etc.

2. EOC RPCP- Painting Competition on the theme of "Rain Water Harvesting"

Painting Competition on the theme of "Rain Water Harvesting" under auspices of Equal opportunity cell, CHARUSAT was organized at Ramanbhai Patel College of Pharmacy on 21st August, 2019. Total of 83 participants from various constituents institute of CHARUSAT had participated. Winners were felicitated with cash price and certificates.

3. 9th Pharma Vision

National seminar 9th Pharma Vision 2019 was jointly organized by Akhil Bharatiya Vidhyarthi Parishad (ABVP) and Ramanbhai Patel College of Pharmacy, CHARUSAT co-sponsored by Troikaa Pharmaceuticals during 7th and 8th September 2019 at CHARUSAT Campus, Changa. Hon. Shri Nitinbhai Patel, Dy. Chief Minister, Gujarat state, remained present as a chief guest, Hon. Shri Bhupendrasinhji Chudasama, Minister of Education, Govt. of Gujarat, remained present as Chief guest, Mr. Ketan Patel, Managing director, Troikaa Pharmaceuticals remained present as a guest of honor, Mr. Shreehari Borikarji, All India State University In charge, ABVP remained present as a guest of honor and Shri Surendrabhai Patel, president of CHARUSAT remained present as a president of the inaugural function. Different competitive events were organized including Quiz, Pharma Recipe, Poster presentation, Youth Parliament, Inncrepharm, Dare to Sell (Digital marketing) and Model Presentation. Total 1014 students participated in the event from around 45 pharmacy colleges of India. Hon. Shri Mansukhbhai Mandaviya. Sir is the minister of state for

Ministry of Shipping and minister of state for chemicals and fertilizers, Govt. of India, remained present as a Chief Guest, Shri Surendraji Naik, Zonal Organizing Secretary, ABVP, remained present as a Guest of Honor, Shri C. A. Patel, VP, Kelavni Mandal remained present as a president of the valedictory function. Winners were awarded with trophies and certificates during valedictory functions.

4. World Pharmacists Day

WDC- RPCP, NSS –RPCP and EOC –RPCP had jointly organized Self- Medication awareness Campaign as a part of World Pharmacists Day, 2019 celebration on 25th September, 2019, Wednesday at Malataj Village. The objective of the programme was about awareness of the village people to avoid inappropriate use of drugs through Self-Medication. The students of the institute performed skits in front of the villagers to spread awareness.

5. Hands-on Training on Cell Culture and Molecular Biology Techniques

National Workshop on Hands-on Training on Cell Culture and Molecular Biology Techniques was jointly organized by Ramanbhai Patel College of Pharmacy, sponsored by Gujarat State Biotechnology Mission during 14th to 18th October, 2019. The program was spread over 5 days and divided into 05 lectures and 06 Hands-on training sessions on various aspects of Cell Culture and Molecular Biology Techniques. Delegates from 06 different institutes (including Pharmacy, Paramedical & Applied sciences) of Gujarat state participated in the program. Total registration of delegates reached 21 for this national workshop.

6. Bio-activity guided separation, purification and identification of Phytoconstituents from Medicinal Plants

Three days' workshop was organized at RPCP on Bio-activity guided separation, purification and identification of Phytoconstituents from Medicinal Plants during 17-19 February, 2020 supported by GSBTM and GUJCOST, Govt. of Gujarat. The workshop provided basic fundamentals and hands-on exposure to conventional and newer Techniques of separation and isolation of Phytoconstituents from Medicinal Plants. Around 35 participants including UG, PG students, Ph.D. scholars and faculty members from different Pharmacy colleges of Gujarat state participated in the workshop. Participants carried out hands-on experiments on the isolation of prototype Phytoconstituents from herbal raw materials, column, vacuum and flash chromatography, and different cell culture Techniques. This workshop will enable students, budding researchers and scholars in carrying out their Research on Medicinal Plants more specific and outcome-oriented.

7. Alumni Meet 2020

The Alumni meet 2020 was schedule on 9th February 2020 at Ahmedabad Management Association, Ahmedabad. Total 60 alumni were present during the event. After registration and welcome, they were informed about the development happened in the Institutes and about the future events planned within the campus and the institute.

8. WDC RPCP- Film Screening – Chalk and Duster

Women Development Cell (WDC), Ramanbhai Patel College of Pharmacy had organized "Film Screening – Chalk and Duster" on 10th January, 2020 at RPCP for the students with an aim to justify the role of a teacher and to value the student teacher relationship. The movie represented the role of teacher in society and their impact in students' development. Total 70 students of B.Pharm and M.Pharm had watched the movie.

9. One day Interactive Session on Intellectual Property Right: IPR Enabled

Charotar University of Science and Technology (CHARUSAT) in association with Ramanbhai Patel College of Pharmacy (RPCP), IQAC-CHARUSAT & CHARUSAT IPR Facilitation had organized a one-day interactive session on intellectual property right entitled "IPR Enabled" on 27th January 2020. The Gujarat Council on Science and Technology (GUJCOST), Dept. of Science and Technology, Govt. of Gujarat had financially patronized the event. Two session for the limited number of participants were organized for efficient interaction and training of stakeholders. First session has covered basic briefing of intellectual property right, importance of patent and tech-transfer & commercialization of intellectual property. While second session was planned to impart training on patent search using paid database. Mr Tushar Surti, a sales head of the Gridlogics Technology Pvt. Ltd, was invited to impart this training over PatSeer®.

10. NSS RPCP- Awareness on Tobacco and Its Adverse Effects and Glaucoma

The awareness program was organized by NSS unit, RPCP on 28th January, 2020 at Malataj village on dual theme about "Tobacco and Its Adverse Effect" and "Awareness about Glaucoma", with the aim to improve day to day lifestyle of the people. Nearly 55 student members and 10 faculties of the institute gave their esteemed cooperation and support for different activities.

11. Three Days Workshop on Acquaintanceship with Hands-on Training on Pharmaceutical Instrument, Equipment and Allied Tools

Ramanbhai Patel College of Phamracy, working under the aegis of Charotar University of Science and Technology (CHARUSAT) had organized two days' workshop on "Acquaintanceship with Hands-on Training on Pharmaceutical Instrument, Equipment and Allied Tools" during 17th & 18th February 2020. This unique workshop had embraced hands-on training sessions on HPLC, HPTLC, Freeze Dryer, Extruder Spheronizer, Animal Handling, Aseptic & Cell Culture Laboratory. Total 60 students had registered themselves for the program, out of which, 17 students were selected for the training program.

12. Two days' workshop on Machine Learning, Data Mining and Other Cross Disciplinary Tools for Pharmacy Fraternity

Ramanbhai Patel College of Pharmacy (RPCP) had organized two days' workshop in association of Devang Patel Institute of Advanced Technology and Research (DEPSTAR) on "Machine Learning, Data Mining and other cross disciplinary tools for pharmacy fraternity" during 25th and 26th February 2020. Nearly 35 participants had registered themselves for the workshop. Entire workshop was conducted at the computer lab facility at DEPSTAR. Laboratory is equipped with more than 40 computer system with high level configurations and tools for this program were pre-installed. Dr Amit Gantara had introduced the participant about various aspects of artificial intelligence, machine learning and data mining. He had briefed most of the topics which were going to be covered during the workshop. Participants had practiced predictive analysis, cluster analysis, text mining and many other platforms of machine learning during the session.

13. Webinar Series on Separation Techniques for Pharmaceuticals

A webinar series on **Separation Techniques for Pharmaceuticals** for UG and PG pharmacy students was organized from 18th to 23rd May 2020. Total of six sessions were conducted by the experts from industry and academia over various kinds of separation techniques practiced in pharmaceutical laboratories for purification of drugs and other chemicals. Each session was conducted using google meet application. Around 580 student participants from various pharmacy colleges of Gujarat had registered for attending the webinar sessions. The participants had found each session very informative and knowledgeable which would help them for further research and academic activities.

14. Pharmacy Aspirant's Program (PPRO)

The institute have devised a 15 day foundation program to orient and guide the students of 12th Science who are aspiring to get admission in B.Pharm. This unique program, identified as a **Pharmacy Aspirants' Program (PPRO)** was organized from 5th August to 24th August, 2020 and nearly 170 aspirants across the nation had registered themselves. The program had embraced sessions in three main categories: (1) Technical Skill, (2) Communication Skill, and (3) Life Skill. For effective delivery of the session through online mode, we had recorded every session and then made each of them available through the YouTube®. Apart from the faculty members of CHARUSAT, few student and alumni of RPCP had also contributed their skills and experience during the PPRO sessions.

15. Online Workshop on Application of Basic Statistics and Design of Experiments in Pharmaceutical Research

An Online workshop on **Application of Basic Statistics and Design of Experiments in Pharmaceutical Research** was organized from 3rd to 5th September, 2020 for the beginners in the field of application of

experimental design. The workshop was organized with an aim to enable the participants to apply fundamental concepts of statistics and design of experiments in pharmaceutical research. Nearly 200 student participants from various pharmacy institutes have attended the sessions. It helped the participants to learn how to select the appropriate design and interpret the results to draw objective conclusions.

16. e-Workshop on Structural Elucidation of Organic Compounds by Spectroscopic Techniques

The e- Workshop on **Structural Elucidation of Organic Compounds by Spectroscopic Techniques** was organized for three days from 19th to 21st October, 2020 through Microsoft Team Platform. Total 534 participants across the country along with a few from Egypt and Canada were registered for the workshop. During the inauguration function of the workshop, Dr. Anamik Shah, Vice Chancellor of Gujarat Vidyapith had consented for remarks to the scientific gathering. 05 resource persons had delivered their talks on IR, ^{1}H NMR, ^{13}C NMR and Mass spectroscopic techniques with their application in structure elucidation.

17. Refresher Course for Registered Pharmacists

A two days **refresher course for registered pharmacists** was organized by the institute during 7th and 8th of November, 2020. The course was sponsored by Gujarat State Pharmacy council and around 165 registered pharmacists had participated into the refresher course. Total seven lecture sessions were conducted during the two days.

18. Orientation Program for B.Pharm and M.Pharm Admits

Orientation program was organized on 22nd December 2020 for the newly admitted students of UG and PG programs at RPCP. The orientation program was focused on acquainting first semester students with numerous teaching-learning activities and cells at RPCP. The program was devised virtually though Microsoft Team. The program was inaugurated under the kind presence of Mr. Kaushik Shah, Director, Sushen Medicamentos Pvt. Ltd, Ahmedabad, as a guest of honor.

19. Creative Painting Competition (WDC, RPCP)

The Women Development Cell (WDC) RPCP has organized the **Creative Painting Competition** on the theme of Covid-19 and lockdown for the students of CHARUSAT on 18th September, 2020**.** The objective of the event was to produce creative works that demonstrate innovation in concepts, formal language and/or materials. Total 43 students and 01 teaching staff member had participated in the competition and first three winners were given the cash prize.

20. Digital Poster Making Competition (EOC, RCP)

Digital poster making competition on the theme of "Equal opportunity and contribution of young students for Atmanirbhar India" under auspices of Equal opportunity cell, CHARUSAT was organized at Ramanbhai Patel College of Pharmacy between 7th to 23rd September, 2020. Total of 27 participants from various constituents institute of CHARUSAT had been registered and submitted the posters through email. The first three winners were given the cash prize.

21. Expert Talk on Adolescent Girl's Health Issues (WDC, RPCP)

The Women Development Cell (WDC) RPCP has organized the Expert talk on **Adolescent girl's health issues** for the girl students and female staff members of CHARUSAT on 31st October, 2020. The main objectives for organizing the talk were to bring awareness and developing good health among adolescents and to promote healthy habits during puberty and taking action to help protect young people from health threats and the prevention of adult health issues and for the future health and ability of countries to grow and prosper. Dr. Shalini Bhatia, Additional District Health Officer (ADHO), was invited as an expert for delivering the talk.

EDUCATIONAL TOUR and VISITs were arranged for the students to:

Sr. No	Name of the company
1	Food and Drug Laboratory, Vadodara
2	J and S Ayurveda College, Nadiad
3	Curis Lifescience Pvt. Ltd, Ahmedabad
4	Shruti Cosmoceuticals, Anand
5	West Cost Pharmaceutical Works Ltd, Ahmedabad
6	Vimson Aerosols, Anand

Participation in Competitive Examinations

GPAT was conducted by AICTE on 28th January, 2020 and out of 64 students appeared for the test, 09 students from the final year B.Pharm and 01 student from 1st Year M.Pharm have successfully qualified the test:

NO	NAME OF STUDENT	Year of Studies	AIR
1.	Shah Jinagna Abhay	Final Year B.Pharm	493
2.	Soni Jhanvi Vijaykumar		594
3.	Patel Meghana Nileshbhai		1193
4.	Patel Harit Rajesh		1355
5.	Mehal Patel		1493
6.	Hemani Rahul Jagdishbhai	1st Year M.Pharm	1546

7.	Patel Keshaben Sanjaykumar	Final Year B.Pharm	1784
8.	Abhangi Parth Sureshbhai		3645
9.	Trivedi Kashyap Ajaybhai		8563
10.	Mendha Tatvee Dharmvir		9050

Our students have also been appeared for the other competitive examination. 04 students of final year B.Pharm have qualified GRE, 02 students have qualified TOFEL and 19 students have qualified IELTS.

SCHOLARSHIPS

Sr. No	Scholarship	No of Students
1.	MYSY Scholarship	61 (UG)
2.	Freeship	8 UG and 2 PG
3.	TFW	2 (UG)
4.	GPAT Scholarship	2 (UG)
5.	OBC Scholarship	5 (UG)
6.	ST Scholarship	1 (UG)
7.	CHARUSAT Merit Scholarship	84 UG and 53 PG
8.	CHAMOS Scholarship	40 UG, 5 PG and 1 PhD
9.	V S Patel Scholarship	3 (UG)
10.	Umedbhai Dharmadas Patel Charitable Trust Scholarship	1 (UG)

Students Data

University Exam Results

Even Term 2018-19

Semester	No of Students appeared	No of Students Passing without backlogs	No of students with Distinction
2nd Semester B.Pharm	113	94	39
4th Semester B.Pharm	110	94	36
6th Semester B.Pharm	97	84	34
8th Semester B.Pharm	88	82	35
2nd Semester M.Pharm (All branches)	23	23	16

Odd Term 2019-20

Semester	No of Students appeared	No of Students Passing without backlogs	No of students with Distinction
1st Semester B.Pharm	103	81	25
3rd Semester B.Pharm	107	95	37
5th Semester B.Pharm	109	95	33
7th Semester B.Pharm	94	86	50
1st Semester M.Pharm (All branches)	34	33	17

SWAYAM online Course

3 students from 1st Year M.Pharm Pharmaceutical Technology, 2 students from 1st Year M.Pharm Regulatory Affairs and 8 students from 1st Year M.Pharm Pharmaceutical Quality Assurance had completed the online courses on various topics offered by NPTEL through SWAYAM portal.

Summer Fellowship Program 2019

Summer fellowship Program is aimed to impart specialized experimental skills to undergraduate students, while encouraging them to opt for research oriented career. It involves allocating small research problem to students and they function under supervision of teaching faculty member of RPCP. 16 interested students of RPCP were allocated to 7 Faculty Members during Summer Vacation 2019. The students worked for 14 days and were exposed to the advanced experimental techniques in respective field of research. Students also submitted report at the end of training period.

University Admits: Mr. Karan Gandhi from Final Year B.Pharm has got admission at The University of British Columbia in the Fully Funded Direct Ph.D. course in Chemistry & University of Manitoba*: Fully Funded M.Sc. Chemistry

Achievements

Co-curricular

- Karan Gandhi from final year B.Pharm has published a review article entitled “Drug Stereochemistry: A Prodigy for Pharmacology and Drug Development” in Current Drug Discovery Technologies under the guidance of Dr. Umang Shah and Dr. Sandip Patel.

- Karan Gandhi from final year B.Pharm has published a review article entitled “Collocating novel targets for Tuberculosis (TB) Drug Discovery” in Current Drug Discovery Technologies under the guidance of Dr. Mehul Patel.

- Karan Gandhi from final year B.Pharm has co-authored a research article entitled "Identification of chalcone derivatives as putative non-steroidal aromatase inhibitors potentially useful against breast cancer by molecular docking and ADMET study." In Indian Journal of Chemistry- Section B (IJC- B) authored by Dr. Umang Shah.

- Hardi Shah from 1st Year M.Pharm Quality Assurance had presented a poster and secured a second rank at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Vidhi Pandya from 1st Year M.Pharm Pharmaceutical Technology had participated in poster presentation competition and secured 2nd rank at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Karan Gandhi and Sweta Shah from final year B.Pharm has received SSIP grant of INR 1,00,000 for the potential project on "Design and Development of Novel Sodium Glucose Co-transporter (SGLT-2) inhibitors for treatment of Type-II Diabetes"., under the mentorship of Dr. Ashish Patel.
- Karan Gandhi from final year B.Pharm won the Best B.Pharm Student Award Medal 2020 for his outstanding academic achievements.
- Jhanvi Soni and Sweta Shah from final year B.Pharm under mentorship of Dr. Niraj Vyas and Dr. Avani Chokshi had secured 10th rank in competition "Exploring Traditional Remedies in Healthcare" organized by L. M. College of Pharmacy in association with Student Start Up Policy (SSIP), Gujarat and AIC-LMCP Foundation (ALF). They presented "Proof of Concept" (POC) entitled "Formulation Development of Polyherbal tablets for the treatment of Male Infertility".
- Jinagna Shah, Princy Dobariya and Krishna Patel from final year B.Pharm won 1st Prize in poster presentation competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Karan Gandhi from final year B.Pharm won 2nd rank in poster presentation competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Sweta Shah and Jhanvi Soni from final year B.Pharm secured 2nd rank in poster presentation competition at a workshop entitled "Nutraceuticals and Dietary Suppliments: Unlimited

Frontiers in Lifestyle Disorders", organized by School of Pharmacy, ITM Universe, Vadodara.

- Princy Dobariya from final year B.Pharm and Shivkumar Patel from third year B.Pharm had secured winner position in poster presentation competition at Enigma 2019, organized by Institute of Pharmacy, Nirma University.
- Krishna Patel and Bansari Patel from final year B.Pharm secured winner position in Pharma-crossword event, organized by ABVP Pharma Ayam.
- Srushti Patel, Prachi Patel, Chandni Patel and Vidhi Patel from third year B.Pharm had won 2nd rank Poster Presentation Competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.

Extracurricular

- Krupa Vaishnav from 2nd Year M.Pharm Quality Assurance, under guidance of Mr. Nikunj parekh had secured second position in Pharmathon event during Pharmafest 2020 organized by Parul University.
- Pooja Gori from 2nd Year M.Pharm Pharmacology had won 1st prize in Logo Design Competition for Women Development Cell, CHARUSAT, organized by WDC, CHARUSAT.
- Jeet Munjani from final year B.Pharm won 3rd prize in Scientific Photography at Science Manthan, organized by P D Patel Institute of Applied Sciences, CHARUSAT.
- Jeet Munjani from final year B.Pharm has been awarded University Best NSS Volunteer Award 2019-20.
- Sweta Shah and Jhanvi Soni from final year B.Pharm secured 2nd rank in Increpharma and Model presentation events in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Drashti Dalsania and Ami Kalasariya from third year B.Pharm had won 3rd position in Dare to Sale competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Yash Patel from third year B.Pharm had secured 3rd rank in Mahtma Gandhi Essay Competition, organized by Indukaka Ipcowala Institute of Management, CHARUSAT.

- Preksha Patel, Ravi Vanecha and Nishi Patel from third year B.Pharm had secured 2nd position in "Education Video Competition" of star mission, organized by Pharmaceutical Royal International Society (PRISAL), Bhopal.
- Sachi Kalola from third year B.Pharm had secured 1st position and Anjali Patel from third year B.Pharm had secured 2nd position in a painting competition on the theme of "Rain Water Harvesting", organized by EOC, Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Vaishnavi Iyer, Khyati Gorasia and Akshmita Giarola from 2nd year B.Pharm had secured 2nd prize in Scientific Presentation Competition on Nobel Prize in Chemistry 2019-20.
- Sanika Dongre from second year B.Pharm had won 1st prize in poster making competition on "Traffic Rules" at L&T Knowledge City.
- Priya Bhatt from 1st Year B.Pharm had secured the 1st position in essay writing competition, organized by EOC, CHARUSAT

Sports and Cultural

- A team of Kamal Patel, Niraj Vyas, Harit Patel, Swar Shah, Divyesh Dobariya, Jay Patel, Dhruv Soni, Shyam Bhalodia, Trupal Patel, Yash Chauhan, Parag Kachhadiya and Vithal Deshpande secured runner up position in State Level Cricket Tournament "Pharma Go" organised by Sumandeep Vidyapeeth, Vadodara.
- Richa Thakkar from third year B.Pharm had secured winner position in solo singing competition during Spoural 2020.
- Urmit Patel from third year B.Pharm had secured runner up position in cartooning competition during Spoural 2020.
- Yesha Soni from third year B.Pharm had secured runner up position in Creative Painting competition during Spoural 2020.
- Bhavna Parwani, Dharmiki Patel and Krutarth Shah from third year B.Pharm had secured runner up position in Add–mad show competition during Spoural 2020.
- A team for students from third year B.Pharm had secured runner up position in March Procession during Spoural 2020.

- Mehul Luhar from third year B.Pharm had secured 3rd position in Vrund 2019- "Ratri after Navratri".

- Ruchi Patel from third year B.Pharm had secured winner position in skating in Khel Mahakumbh (Dist Level)

- Srushti Patel from third year B.Pharm and Nidhi Joshi from 2nd Year B.Pharm have been selected in university girls' volleyball team and the team had won the district level tournament in Khel Mahakumbh.

- Rutu Patel from third year B.Pharm has been selected in university girls' cricket team the team had won the Justice League 2020, organized by Gujarat National Law University (GNLU), Gandhinagar.

- Rutu Patel from third year B.Pharm had been selected in university girls' team of tug of war and the team secured winner position in competition, Khel Mahakumbh (Taluka Level)

- Prarthana Shihora from second year B.Pharm had secured winner position- best dressing in Vrund 2019-"Ratri after Navratri".

- Shiv Sheth from 1st year B.Pharm had secured 1st position in Beat the Beat competition, organized at Nirma University.

Participations

Co-curricular

- 6 students from 2nd Year M. Pharm Quality Assurance had provided their valuable contribution through analytical instrument handling during the workshop "Acquainted with Hands-on Training on Pharmaceutical Instruments, equipment and Allied Tools", organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.
- 5 students from 2nd Year M. Pharm Quality Assurance had attended workshop on "Bioactivity guided separation, purification and identification of phytoconstituents from medicinal plants", organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.

- Foram Patel from 2nd Year M.Pharm Quality Assurance had attended workshop on Machine Learning, Data mining and other cross disciplinary Tool for Pharmacy Fraternity", organized by Ramanbhai Patel College of Pharmacy CHARUSAT.
- Foram Patel from 2nd Year M.Pharm Quality Assurance had attended 9th international conference organized by APP American International Branch and APP Gujarat State Branch.
- Preksha patel from 2nd Year M.Pharm Quality Assurance had participated in Regional Mentoring Session for Proof of Concept.
- Kirati Shah from 2nd Year M.Pharm Quality Assurance had presented a poster at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Kirati Shah from 2nd Year M.Pharm Quality Assurance had presented a poster at a workshop entitled "Nutraceuticals and Dietary Suppliments: Unlimited Frontiers in Lifestyle Disorders", organized by School of Pharmacy, ITM Universe, Vadodara.
- Kirati Shah from 2nd Year M.Pharm Quality Assurance had presented a poster at a workshop entitled "Biomolecular and Biotechnological Aspects of Medicinal Plants", organized by L M College of Pharmacy, Ahmedabad.
- Yatindra Bhadankar from 2nd Year M.Pharm Pharmaceutical Technology had presented a poster at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Yatindra Bhadankar from 2nd Year M.Pharm Pharmaceutical Technology had attended 9th international conference organized by APP American International Branch and APP Gujarat State Branch.
- 4 students from 2nd Year M.Pharm Pharmaceutical Technology had presented a poster at an "International Conference on Molecular Medicine", jointly organized by P D Patel Institute of Applied Sciences and Ramanbhai Patel College of Pharmacy, CHARUSAT.
- 5 students from 2nd Year M.Pharm Pharmaceutical Technology had attended a seminar on "Novel Drug Delivery System: Unlimited Frontiers for Lifecycle Disorders" organized by School of Pharmacy, ITM Universe, Vadodara.
- 5 students from 2nd Year M.Pharm Pharmaceutical Technology had attended a one day seminar on intellectual property rights "IPR Enabled" organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.

- Khyati Patel from 2nd Year M.Pharm Pharmaceutical Technology had attended a seminar on "Machine Learning, Data Mining and Other Cross Disciplinary Tools for Pharmacy Fraternity", organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Pooja Gori from 2nd Year M.Pharm Pharmacology had participated in oral presentation competition at a national level seminar on "Challenges and Opportunities in Herbal Drug Technology", organized by Indukaka Ipcowala College of Pharmacy, New V V Nagar.
- Pooja Gori from 2nd Year M.Pharm Pharmacology had presented a poster at an "International Conference on Molecular Medicine", jointly organized by P D Patel Institute of Applied Sciences and Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Pooja Gori from 2nd Year M.Pharm Pharmacology had participated in SSIP Smart Gujarat for New India Heckathon 2019-2020.
- Ami shah 2nd Year M.Pharm Regulatory Affairs had attended an "International Conference on Molecular Medicine", jointly organized by P D Patel Institute of Applied Sciences and Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Hardi Shah from 1st Year M.Pharm Quality Assurance had presented a poster at a workshop entitled "Current Trends in Drug Delivery of Phytoconstituents", organized by Shree S.K. Patel College of Pharmaceutical Education and Research, Mehsana.
- Hardi Shah from 1st Year M.Pharm Quality Assurance had presented a poster at a workshop entitled "Nutraceuticals and Dietary Suppliments: Unlimited Frontiers in Lifestyle Disorders", organized by School of Pharmacy, ITM Universe, Vadodara.
- Hardi Shah from 1st Year M.Pharm Quality Assurance had presented a poster at a workshop entitled "Biomolecular and Biotechnological Aspects of Medicinal Plants", organized by L M College of Pharmacy, Ahmedabad.
- 4 students from 1st Year M.Pharm Quality Assurance had attended a seminar on "Machine Learning, Data Mining and Other Cross Disciplinary Tools for Pharmacy Fraternity", organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Hardi Shah and Manish Nandpal from 1st Year M.Pharm Quality Assurance had participated in "Dadima na Nuskha- Exploring Traditional Remedies in Healthcare" organized by L. M. College of Pharmacy in association with Student Start Up Policy (SSIP), Gujarat and AIC-LMCP Foundation (ALF)

- All students from 1st Year M.Pharm Quality Assurance had attended a seminar on "Active Pharmaceutical Ingredients: Quality Concerns and Challenges", organized by Anand Pharmacy College, Anand.
- All students from 1st Year M.Pharm Regulatory Affairs had presented a poster at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- All students from 1st Year M.Pharm Regulatory Affairs had attended a one day seminar on intellectual property rights "IPR Enabled" organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Master Yadida from 1st Year M.Pharm Regulatory Affairs had attended a workshop entitled "Nutraceuticals and Dietary Suppliments: Unlimited Frontiers in Lifestyle Disorders", organized by School of Pharmacy, ITM Universe, Vadodara.
- 6 students from 1st Year M.Pharm Pharmaceutical Technology had attended two days' workshop on "Machine Learning, Data mining and other cross disciplinary Tools for Pharmacy Fraternity", organized by Ramanbhai Patel College of Pharmacy CHARUSAT.
- 8 students from 1st Year M.Pharm Pharmaceutical Technology had attended a one day seminar on intellectual property rights "IPR Enabled" organized by Ramanbhai Patel College of Pharmacy, CHARUSAT.
- Aditya Havnurkar and Vidhi Pandya from 1st Year M.Pharm Pharmaceutical Technology had presented a poster at "Ideathon 2020- Budding Entrepreneurs Competition", organized under SSIP scheme, Gujarat, at The M S University, Vadodara.
- Mehal Patel, Vishwa Talati and Vishwa Patel from final year B.Pharm had participated in Modal Making Competition at 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- 10 students from final year B.Pharm had attended two days' workshop on "Machine Learning, Data mining and other cross disciplinary Tools for Pharmacy Fraternity", organized by Ramanbhai Patel College of Pharmacy CHARUSAT.
- 14 students from final year B.Pharm had attended and presented a scientific presentation at 71st Indian Pharmaceutical Congress.
- 10 students from final year B.Pharm had attended a workshop on "Medical Writing", organized by Institute of Pharmacy, Nirma University, Ahmedabad.

- 7 students from third year B.Pharm had participated in Poster Presentation competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Yash patel, Rushi Shah and Neel Savaliya from third year B.Pharm had participated in Model Making competition in 9th Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Mohit Ghataliya from third year B.Pharm had presented a presentation in "Scientific Presentation Competition on the Noble Prizes for the Year 2019 (medicine category)" organised by P D Patel Institute of Applied Sciences, CHARUSAT.
- Srushti Patel, Vidhi Patel, Ruchi Patel and Chandni Patel from third year B.Pharm and Hetvi Patel and Khushi Patel from 2nd year B.Pharm had participated in poster presentation competition at 2nd Indo-US International Conference at Saraswati Institute of Pharmaceutical Sciences, Gandhinagar.

Extracurricular

- Vishwa Dodia from third year B.Pharm had participated in Ideathon 2020 event, organized at The M S University, Baroda.
- Mohit Ghataliya from third year B.Pharm had participated in a Workshop on "Ethical Hacking and cyber security", organized at CHARUSAT in association with Institute of Advance Network Technology.
- Mohit Ghataliya from third year B.Pharm had participated in an event "Project and Innovative Ideas to Help People With Disability" organised by C S Patel Institute of Technology, CHARUSAT.
- Vaishnavi Iyer, Khyati Gorasia and Akshmita Giarola from 2nd year B.Pharm had participated in GSA-INSA competition on scientific presentation on novel prize in physics 2019-20.

Sports and Cultural

- Yash Patel and Rushi Patel from third year B.Pharm had participated in Table Tennis Tournament at Kridangan, NIRMA University.

- Nirbhay Kapadiya from second year B.Pharm had participated in Volleyball Tournament at Kridangan, NIRMA University with University team.

- Viraj Pranami from second year B.Pharm had participated in Volleyball Tournament at Khelmahakumbh with University team.

FACULTY PARTICIPATION

Staff Development Program

1. Faculty members of RPCP participated in one week online Faculty Development Program on "Redefining the role of educator in Covid-19 Outbreak Era" organized by Gujarat Technological University & Anand Pharmacy College during 11-16 May 2020.

2. Faculty members of RPCP participated in one week online Faculty Development Program on "Teaching in uncertain times: Opportunities and Challenges" organized by Gujarat Technological University and Babaria Institute of Pharmacy during 30th April to 5th May 2020.

3. Faculty members of RPCP participated in one week AICTE Sponsored Online STTP on "Target based drug design strategies utilizing CADD tools and ecofriendly microwave assisted green synthesis" organized by ISF College of Pharmacy-Moga, Punjab from 27th April to 2nd May 2020.

4. Dr. Swayamprakash Patel attended six days webinar series on Separation Techniques for Pharmaceuticals organized by RPCP, CHARUSAT from 18-23 May 2020.

5. Faculty members of RPCP participated in one week Online FDP on "Comprehensive Quality Initiatives for Higher Education in Pandemic Era" organized by Internal Quality Assurance cell, UKA Tarsadia University (UTU), Bardoli from 26th May to 30th May 2020.

6. Dr. Jagruti Desai, Dr. Manan Raval, Dr. Ravish Patel, Dr. Sandip Patel and Dr. Samir Patel attended online FDP on "Managing Online Classes and Co-Creating MOOCS 2.0" organized by Teaching Learning Centre, Ramanujan College, University of Delhi from 18th May 2020 to 3rd June 2020.

7. Ms. Richa Dave participated in FDP on Entrepreneurship organized by Entrepreneurship Development & Incubation Cell (EDIC), CHARUSAT from 20th January to 1st February 2020.
8. Dr. Sandip Patel attended online FDP on "Moodle Learning Management System" organized by Spoken Tutorial Project, IIT Bombay, funded by the National Mission on Education through ICT, MHRD, Govt. of India from 1-6 June 2020.
9. Dr. Nilay Solanki attended online FDP on "Innovative Techniques in Pharmaceutical Sciences" organized by P. Wadhwani College of Pharmacy, Yavatmal in association with Indian Pharmaceutical Association from 5th to 9th May 2020.
10. Mr. Nikunj Parekh attend online STTP on "Journal citation Report Certificate" conducted by Clarivate Analytics Company from 15th May to 19th May 2020.
11. Dr. Gayatri Patel attended Online "Webinar series on Research and development" organized by Research Cell, Uka Tarsadia University from 11 to 16 May 2020.
12. ADILKUMAR SANATKUMAR PATEL participated in AICTE training and Learning Academy Online FDP on "Data Sciences" 06-10-2020 to 10-10-2020.
13. ALKESHKUMAR KIRITBHAI PATEL participated in Online course on FLOW CYTOMETRY COURSE from 10-12-2020 to 20-12-2020.
14. AMIT AMBALAL PATEL participated in AICTE sponsored one week STTP on Digital pedagogy from 14-09-2020 to 19-09-2020 AICTE training and Learning Academy Online FDP on OECD principle of Good Laboratory Practices from 22-09-2020 to 26-09-2020.
15. HARDIK MUKESHKUMAR KORIA participated in Online Course on Immunology by NPTEL from 14-09-2020 to 04-12-2020, Online Course on Introduction to Proteomics by NPTEL from 14-09-2020 to 06-11-2020 and Online Course on Functional Genomics by NPTEL from 14-09-2020 to 09-10-2020.
16. JAGRUTI LALJIBHAI DESAI participated in Online four credit course on Academic writing by SWAYAM from 01-07-2020 to 31-07-2020 and Six days online FDP Rethinking and Restructuring on examination system by effective technology from 14-12-2020 to 19-12-2020.
17. MEHUL MANUBHAI PATEL participated in AICTE sponsored XXXV-QIP-Short Term Programme on Frontiers in Pharmaceutical Education and Research : Emerging Trends in Phytopharmaceuticals organised by DIPSAR from 09-10-2020 to 16-10-2020.

18. NIKUNJKUMAR KAMLESHBHAI PAREKH participated in Indian Webinar Series - Introduction to Computational Drug Design from 21-09-2020 to 23-10-2020, Pharmanecia 2.E 2020 from 19-09-2020 to 25-09-2020 and AICTE SPONSORED 6 DAYS SHORT TERM TRAINING PROGRAMME ON "COMPUTER APPLICATIONS IN DRUG DISCOVERY" from 07-09-2020 to 12-09-2020.
19. NILAY DHIRENKUMAR SOLANKI participated in AICTE sponsored XXXV-QIP-Short Term Programme on Frontiers in Pharmaceutical Education and Research : Emerging Trends in Phytopharmaceuticals organised by DIPSAR from 09-10-2020 to 16-10-2020, and AICTE SPONSORED 6 DAYS SHORT TERM TRAINING PROGRAMME ON "COMPUTER APPLICATIONS IN DRUG DISCOVERY" from 07-09-2020 to 12-09-2020.
20. NIRAJ YASHVANTRAI VYAS participated in Four week course on How to Write and Publish A Scientific Paper by COURSERA from 03-08-2020 to 01-09-2020, Online MOOC course on Indian Kitchen Herbs for Respiratory Disorders: Ayurvedic and Modern Perspectives from 06-07-2020 to 03-08-2020, Weeklong online workshop on Assessment and Evaluation from 24-08-2020 to 29-08-2020 and 6 days virtual International FDP on Emerging Trends in Herbal Drug Research from 06-11-2020 to 11-11-2020
21. RAJENDRA MULJIBHAI KOTADIYA participated in 6 days virtual International FDP on Emerging Trends in Herbal Drug Research from 06-11-2020 to 11-11-2020.
22. RAVISH JANAKBHAI PATEL participated in AICTE sponsored one week STTP on Digital pedagogy from 14-09-2020 to 19-09-2020, AICTE training and Learning Academy Online FDP on OECD principle of Good Laboratory Practices from 22-09-2020 to 26-09-2020.
23. SWAYAMPRAKASH KANTILAL PATEL participated in Introduction to AI & ML techniques in Drug Discovery from 01-12-2020 to 31-01-2021.
24. UMANG HARISHCHANDRA SHAH participated in Online course on Application of Spectroscopic Methods in Molecular Structure Determination by NPTEL from 07-09-2020 to 09-11-2020, Six days Online FDP on Application of Spectroscopic Methods in Molecular Structure Determination by NPTEL from 04-11-2020 to 09-11-2020 and AICTE SPONSORED 6 DAYS SHORT TERM TRAINING PROGRAMME ON "COMPUTER APPLICATIONS IN DRUG DISCOVERY" from 07-09-2020 to 12-09-2020.

Faculty Data

Publications:

- Research/ Review articles: 26
- Book Chapters: 03

Oral and Poster Presentations: 52

Invited Talk delivered by RPCP faculty members: 37

Awards/ recognition:

- Dr. Niraj Vyas had participated and Presented Poster in GUJCOST Sponsored National Seminar on Nutraceuticals and Dietary Supplements: Unlimited Frontiers in Lifestyle Disorders" organized by organized by School of Pharmacy, ITM Universe, Vadodara and State Convention of Society of Pharmacognosy on 27th -28th September 2019 and was Awarded 1st prize.
- Dr. Niraj Vyas had participated and Presented Poster in Gujcost sponsored two days national seminar on "Current trends in Drug Delivery of Phytoconstituents" organized by SKPCPER, Ganpat University on 12-13 July 2019. Received Best Poster Award in "Research Poster Category"
- Dr. Umang Shah had Presented a Poster and received 1st Prize in Poster session with "Young Researcher Award" at DST -NSTMIS sponsored one-day Stakeholder workshop on "A Collaborative Initiative Striving to Build a New- Era of Academia-Industrial Interaction that Foster Pharmaceutical Innovations organized by Smriti College of Pharmaceutical Education on 28/09/2019.
- Dr. Umang Shah had Received the "Best Talent Award" at the APP 9th Indo US Conference (ACPER 2020) organized by Saraswati Institute of Pharmaceutical Science, Gandhinagar on 6th January 2020 in association with Association of Pharma Professionals.

- Dr. Mehul Patel had presented a Poster and received Runner Up in Poster session with "Young Researcher Award" at DST -NSTMIS sponsored one-day Stakeholder workshop on "A Collaborative Initiative Striving to Build a New- Era of Academia-Industrial Interaction that Foster Pharmaceutical Innovations organized by Smriti College of Pharmaceutical Education on 28/09/2019.

- Mr. Karan S Gandhi and Miss. Sweta Shah received 1 lakh grant under mentorship of Dr. Ashish Patel for Design and Development of Some Novel Sodium Glucose co-transport (SGLT-2) inhibitors for treatment of Type-II Diabetes Mellitus in Student Open Innovation Challenge (SOIC)-2020, SSIP-Gujarat on dated 24-Jan-2020.

- Travel Grant Received:

  Ms. Jagruti Prajapati received financial support of INR 20,000 from Centre for Cooperation in science and technology among developing Societies (CCSTDS), Chennai to attend and present paper (oral) at the international workshop "DUPHAT 2020".

Research Grants received:

Dr. Jagruti Desai and Dr. Swayamprakash Patel have been awarded with CHARUSAT funded research Project.

Collaborative Research Projects: 14 (Dr. Manan Raval, Dr. Samir Patel, Dr. Umang Shah, Dr. Mehul Patel, and M.Pharm RA faculties)

Consultancy Projects: 13

1- Dr. Amit Patel and Dr. Niraj Vyas

1- Dr. Mrunali Patel, Dr. Ravish Patel and Dr. Avani Chokshi

2- Dr. Umang Shah

5- Dr. Sandip Patel, Dr. Nilay Solanki and Mr. Alkesh Patel

4- Dr. Rashmin Patel, Dr. Mrunali Patel, Ms. Payal Chauhan and Dr. Rajendra Kotadia

Ph.D Degrees were Awarded in January 2019 Convocation

- Ms. Avani Chokshi- Project Supervisor: Dr. Mahesh Chhabria
- Mr. Dharmang Pandya- Project Supervisor: Dr. Gayatri Patel
- Mr. Murlidhar Zope- Project Supervisor: Dr. Samir Patel

Functional MOUs

- Cadila Healthcare Ltd, Ahmedabad
- Federation of Gujarat Industries, Vadodara
- Pharmanza Herbal Pvt. Ltd., Dharmaj
- Herbitate Life sciences LLP
- Vasu Research Center, Vadodara
- Amerise Pharmaceutical Pvt. Ltd., Ahmedabad
- Frontier Research, UK
- Babaria IP and Companies, Ahmedabad
- Packaging Solutions, Ahmedabad
- CHARUSAT Hospital
- Mahagujarat Medical Society, Nadiad
- IRIS Hospital, Anand- managed by Tulips Healthcare Pvt. Ltd.

- J S Ayurveda Mahavidyalaya, Nadiad
- SMC College of Dairy Science, Anand Agricultural University, Anand

In house training programs:

- HRDC CHARUSAT has initiated a two days Out Bound Training (OBT) Programme at Art of Living, Vasad for the teaching and nonteaching staff members of the university. All teaching and non-teaching staff members had attended the training program.

- A Workshop on Creativity and Problem Solving Skills was attended by Dr. Sandip Patel this year. Previously, it was attended by Dr. Samir Patel, Dr. Mrunali Patel, Dr. Gayatri Patel, Dr. Niraj Vyas and Ms. Jagruti Prajapati.

Participation in Sports and cultural by Faculty members:

Faculties from RPCP were awarded with various awards at Vrund 2019.

- Ms. Jagruti Prajapati won 1st prize in best dress in female staff category.
- Ms. Richa Dave won 1st prize in best performance in female staff category.
- Dr. Avani Chokshi won 2nd prize in best performance in female staff category.
- Dr. Niraj Vyas won 1st prize in best dress in male staff category.

Our research scholar, Ms. Esha Desai has Secured 1st rank for GTU Innovation Council Event-Tech Pitch, at GTU Tech fest-Aahvan-2019 (Zone 3), held at BITS Edu Campus.

EXPERT LECTURES

Guest Lecture Series has been initiated at RPCP with the objective of providing a platform for discussion and deliberations to students with renowned researchers and academicians and learn from their experiences. It is expected that such interaction would light the spark in the minds of the students and persuade them to innovate and research. Guests were invited to visit RPCP, CHARUSAT and deliver lectures/ presentations. In all 14 expert lectures were organized by experts from Industry and Academia from India as well as abroad.

Training and Placements

Last year, out of 89 UG students and 36 PG students, 12 students from UG and 21 students from PG showed willingness for the placement while the rest were interested in the higher studies. All the interested students were placed through the on or off campus drives to the following leading pharma companies:

1. Cadila Healthcare Ltd., Ahmedabad, Mr. Dayand Singh
2. CBCC Global, Ahmedabad, Ms. Bhigi Patel

3. Intas Pharmaceutical Ltd, Mr. Prasanjit Das
4. Sanofi India, Ankleshwar, Ms. Namrata Pandya
5. Veeda Clinical Research, Mr. Gaurav patel
6. Lambda Therapeutics, Ahmedabad
7. Glsko Smithkline (GSK), Ahmedabad
8. Ajanta Pharma, Dahej

Like previous years, the institute is determined to maintain the best placement record for the current year also and many more leading companies will be visiting the institute for the same.

The students of masters' program in clinical pharmacy were trained in the hospitals including:

1. Jivraj Mehta Smarak Foundation, Ahmedabad
2. Mahagujarat Hospital, Nadiad
3. CBCC Global, Ahmedabad
4. CHRF Hospital, Changa

Our students of 2nd Year M.Pharm Regulatory Affairs are currently doing their project at Step Up Pharma, Ahmedabad.

ACADEMIC REGULATIONS & SYLLABUS

Faculty of Pharmacy
Bachelor of Pharmacy Programme

1st to 8th semester of B. Pharm

(AS PER PCI SYLLABUS)

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT Campus, At Post: Changa – 388421, Taluka: Petlad, District: Anand
Phone: 02697-247500, Fax: 02697-247100, Email: info@charusat.ac.in
www.charusat.ac.in

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY (B. Pharm.) PROGRAMME

Vision of RPCP

To become a premier pharma institute by creating world class pharmacists and researchers for dissemination and creation of knowledge

Mission of RPCP

To develop entrepreneurial pharmacist with a penchant for research and development

Programme Educational Objective

1. To produce competent pharmacy graduates who shall be able to secure their career in pharmaceutical industry and/or institution of higher studies by dissemination of knowledge and training in pharmacy.
2. To acquire the knowledge about advances in pharmacy and to orient towards socially relevant research and development.
3. To encourage students for self-learning through modern information resources.
4. To enhance communication and critical thinking abilities for effective delivery of societal responsibilities.
5. To nurture and facilitate entrepreneurial capabilities and opportunities.

CHAPTER- I: REGULATIONS

1. Short Title and Commencement

These regulations shall be called as "The Revised Regulations for the B. Pharm. Degree Program (CBCS) of the Pharmacy Council of India, New Delhi". They shall come into effect from the Academic Year 2016-17. The regulations framed are subject to modifications from time to time by Pharmacy Council of India.

2. Minimum qualification for admission

2.1 First year B. Pharm:

Candidate shall have passed 10+2 examination conducted by the respective state/central government authorities recognized as equivalent to 10+2 examination by the Association of Indian Universities (AIU) with English as one of the subjects and Physics, Chemistry, Mathematics (P.C.M) and or Biology (P.C.B / P.C.M.B.) as optional subjects individually. Any other qualification approved by the Pharmacy Council of India as equivalent to any of the above examinations.

2.2. B. Pharm lateral entry (to third semester):

A pass in D. Pharm. course from an institution approved by the Pharmacy Council of India under section 12 of the Pharmacy Act.

3. Duration of the program

The course of study for B.Pharm shall extend over a period of eight semesters (four academic years) and six semesters (three academic years) for lateral entry students. The curricula and syllabi for the program shall be prescribed from time to time by Pharmacy Council of India, New Delhi.

4. Medium of instruction and examinations

Medium of instruction and examination shall be in English.

5. Working days in each semester

Each semestershall consist of not less than 100 working days. The odd semesters shall be conducted from the month of June/July to November/December and the even semesters shall be conducted from December/January to May/June in every calendar year.

6. Attendance and progress

A candidate is required to put in at least 80% attendance in individual courses considering theory and practical separately. The candidate shall complete the prescribed course satisfactorily to be eligible to appear for the respective examinations.

7. Program/Course credit structure

As per the philosophy of Credit Based Semester System, certain quantum of academic work viz. theory classes, tutorial hours, practical classes, etc. are measured in terms of credits. On satisfactory completion of the courses, a candidate earns credits. The amount of credit associated with a course is dependent upon the number of hours of instruction per week in that course. Similarly, the credit associated with any of the other academic, co/extra-curricular activities is dependent upon the quantum of work expected to be put in for each of these activities per week.

7.1. Credit assignment

7.1.1. Theory and Laboratory courses

Courses are broadly classified as Theory and Practical. Theory courses consist of lecture (L) and /or tutorial (T) hours, and Practical (P) courses consist of hours spent in the laboratory. Credits (C) for a course is dependent on the number of

hours of instruction per week in that course, and is obtained by using a multiplier of one (1) for lecture and tutorial hours, and a multiplier of half (1/2) for practical (laboratory) hours. Thus, for example, a theory course having three lectures and one tutorial per week throughout the semester carries a credit of 4. Similarly, a practical having four laboratory hours per week throughout semester carries a credit of 2.

7.2. Minimum credit requirements

The minimum credit points required for award of a B. Pharm. degree is 208. These credits are divided into Theory courses, Tutorials, Practical, Practice School and Projectover the duration of eight semesters. The credits are distributed semester-wise as shown in Table IX. Courses generally progress in sequences, building competencies and their positioning indicates certain academic maturity on the part of the learners. Learners are expected to follow the semester-wise schedule of courses given in the syllabus.

The lateral entry students shall get 52 credit points transferred from their D. Pharm program. Such students shall take up additional remedial courses of 'Communication Skills' (Theory and Practical) and 'Computer Applications in Pharmacy' (Theory and Practical) equivalent to 3 and 4 credit points respectively, a total of 7 credit points to attain 59 credit points, the maximum of I and II semesters.

8. Academic work

A regular record of attendance both in Theory and Practical shall be maintained by the teaching staff of respective courses.

9. Program Committee

1. The B. Pharm. program shall have a Program Committee constituted by the Head of the institution in consultation with all the Heads of the departments.
2. The composition of the Program Committee shall be as follows:
   A senior teacher shall be the Chairperson; One Teacher from each department handling B.Pharm courses; and four student representatives of the program (one from each academic year), nominated by the Head of the institution.
3. Duties of the Program Committee:
   i. Periodically reviewing the progress of the classes.
   ii. Discussing the problems concerning curriculum, syllabus and the conduct of classes.
   iii. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
   iv. Communicating its recommendation to the Head of the institution on academic matters.
   v. The Program Committee shall meet at least thrice in a semester preferably at the end of each Sessionalexam (Internal Assessment) and before the end semester exam.

10. Examinations/Assessments

The scheme for internal assessment and end semester examinations is given in Table – X.

10.1 End semester examinations

The End Semester Examinations for each theory and practical coursethrough semesters I to VIII shall beconducted by the university except for the subjects with asterix symbol (*) in table I and II for which examinations shall be conducted by the subject experts at college level and the marks/grades shall be submitted to the university.

10.2 Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-I: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	**Maximum Marks**	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 3 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	3	1.5
Student – Teacher interaction	3	1.5
Total	**10**	**5**
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	**5**	

Table- II: Guidelines for the allotment of marks for attendance

Percentage of Attendance	**Theory**	**Practical**
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

10.2.1 Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X.

Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks.

Question paper pattern for theory Sessional examinations
For subjects having University examination

I. Multiple Choice Questions (MCQs)	=	10 x 1 = 10
OR		
Objective Type Questions (5 x 2) (Answer all the questions)	=	05 x 2 = 10
I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 2 out of 3)	=	2 x 5 = 10

Total	=	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	=	1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	=	4 x 5 = 20

Total	=	30 marks

Question paper pattern for practical sessional examinations I. Synopsis	=	10
II. Experiments	=	25
III. Viva voce	=	05
Total	=	40 marks

11. Promotion and award of grades

A student shall be declared PASSand eligible for getting gradein a course of B.Pharm.program if he/she secures at least 50% marks in that particular course including internal assessment.For example, to be declared as PASS and to get grade, the student has to secure a minimum of 50 marks for the total of 100 including continuous mode of assessment and end semester theory examination and has to secure a minimum of 25 marks for the total 50 including internal assessment and end semester practical examination.

12. Carry forward of marks

In case a studentfails to secure the minimum 50% in any Theory or Practical course as specified in 12,then he/she shall reappear for the end semester examinationof that course. However his/her marks of the Internal Assessmentshallbe carried overand he/she shall be entitled for grade obtained by him/her on passing.

13. Improvement of internal assessment

A studentshall have the opportunity to improvehis/her performance only oncein the Sessional exam component of the internal assessment. The re-conduct of the Sessional exam shall be completed before the commencement of next end semester theory examinations.

14. Re-examination of end semester examinations

Reexamination ofend semester examinationshall be conducted as per the schedule given in table XIII. The exact dates of examinations shall be notified from time to time.

Table- III: Tentative schedule of end semester examinations

Semester	For Regular Candidates	For Failed Candidates
I, III, V and VII	November / December	May / June
II, IV, VI and VIII	May / June	November / December

Question paper pattern for end semester theory examinations

For 75 marks paper

I. Multiple Choice Questions(MCQs) = 20 x 1 = 20
OR OR Objective Type
Questions (10 x 2) = 10 x 2 = 20
(Answer all the questions)
II. Long Answers (Answer 2 out of 3) = 2 x 10 = 20
III. Short Answers (Answer 7 out of 9) = 7 x 5 = 35

Total = 75 marks

For 50 marks paper

I. Long Answers (Answer 2 out of 3) = 2 x 10 = 20
II. Short Answers (Answer 6 out of 8) = 6 x 5 = 30

Total = 50 marks

For 35 marks paper

I. Long Answers (Answer 1 out of 2) = 1 x 10 =10
II. Short Answers (Answer 5 out of 7) = 5 x 5 = 25

Total = 35 marks

Question paper pattern for end semester practical examinations

I. Synopsis = 5
II. Experiments = 25
III. Viva voce = 5

Total = 35 marks

15. Academic Progression:

No student shall be admitted to any examination unless he/she fulfills the norms given in

6. Academic progression rules are applicable as follows:

A student shall be eligible to carry forward all the courses of I, II and III semesters till the IV semester examinations. However, he/she shall not be eligible to attend the courses of V semester until all the courses of I and II semesters are successfully completed.

A student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of I, II, III and IV semesters are successfully completed.

A student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of I, II, III, IV, V and VI semesters are successfully completed.

A student shall be eligible to get his/her CGPA upon successful completion of the courses of I to VIII semesters within the stipulated time period as per the norms specified in 26.

A lateral entry student shall be eligible to carry forward all the courses of III, IV and V semesters till the VI semester examinations. However, he/she shall not be eligible to attend the courses of VII semester until all the courses of III and IV semesters are successfully completed.

A lateral entry student shall be eligible to carry forward all the courses of V, VI and VII semesters till the VIII semester examinations. However, he/she shall not be eligible to get the course completion certificate until all the courses of III, IV, V and VI semesters are successfully completed.

A lateral entry student shall be eligible to get his/her CGPA upon successful completion of the courses of III to VIII semesters within the stipulated time period as per the norms specified in 26.

Any student who hasgiven more than 4 chances for successful completion of I / III semester courses and more than 3 chances for successful completion of II / IV semester courses shall be permitted to attend V / VII semester classes ONLY during the subsequent academic year as the case may be. In simpler terms there shall NOT be any ODD BATCH for any semester.

Note: Grade ABshould be considered as failed and treated as one head for deciding academic progression. Such rules are also applicable for those students who fail to register for examination(s) of any course in any semester.

16. Grading of performances

16.1 Letter grades and grade points allocations:

Based on the performances, each student shall be awarded a final letter grade at the end of the semester for each course.The letter grades and their corresponding grade points are given in below Table.

Table – IV: Letter grades and grade points equivalent to Percentage of marks and performances

Percentage of Marks Obtained	Letter Grade	Grade Point	Performance
90.00 – 100	AA	10	Outstanding
80.00 – 89.99	AB	9	Excellent
70.00 – 79.99	BB	8	Good

60.00 – 69.99	BC	7	Fair
50.00 – 59.99	CC	6	Average
Less than 50	FF	0	Fail
Absent	Ab	0	Fail

A learner who remains absent for any end semester examination shall be assigned a letter grade of ABand a corresponding grade point of zero. He/she should reappear for the said evaluation/examination in due course.

17. The Semester grade point average (SGPA)

The performance of a student in a semester is indicated by a number called 'Semester Grade Point Average' (SGPA). The SGPA is the weighted average of the grade points obtainedin all the courses by the student during the semester. For example, if a student takes five courses(Theory/Practical) in a semester with credits C1, C2, C3, C4 and C5 and the student's grade pointsin these courses are G1, G2, G3, G4 and G5, respectively, and then students' SGPA is equal to:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4G_4 + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

The SGPA is calculated to two decimal points.It should be noted that, the SGPA for any semester shall take into consideration the F and ABSgrade awarded in that semester. For example if a learner has a F or ABS grade in course 4, theSGPA shall then be computed as:

$$\text{SGPA} = \frac{C_1G_1 + C_2G_2 + C_3G_3 + C_4 * \text{ZERO} + C_5G_5}{C_1 + C_2 + C_3 + C_4 + C_5}$$

18. Cumulative Grade Point Average (CGPA)

The CGPA is calculated with the SGPA of all the VIII semesters to two decimal points and is indicated in final grade report card/final transcript showing the grades of all VIII semesters and their courses. The CGPA shall reflect the failed status in case of F grade(s),till the course(s) is/are passed. When the course(s)is/are passed by obtaining a pass grade on subsequent examination(s) the CGPA shall only reflect the new grade and not the fail grades earned earlier. The CGPA is calculated as:

$$\text{CGPA} = \frac{C_1S_1 + C_2S_2 + C_3S_3 + C_4S_4 + C_5S_5 + C_6S_6 + C_7S_7 + C_8S_8}{C_1 + C_2 + C_3 + C_4 + C_5 + C_6 + C_7 + C_8}$$

where $C_1, C_2, C_3, \ldots$ is the total number of credits for semester I,II,III,…. and $S_1, S_2, S_3, \ldots$is the SGPA of semester I,II,III,…. .

19. Declaration of class

The class shall be awarded on the basis of CGPA as follows:

First Class with Distinction	= CGPA of. 7.50 and above
First Class	= CGPA of 6.00 to 7.49
Second Class	= CGPA of 5.00 to 5.99

20. Project work

All the students shall undertake a project under the supervision of a teacher and submit a report. The area of the project shall directly relate any one of the elective subject opted by the student in semester VIII. The project shall be carried out in group not exceeding 5 in number. The project report shall be submitted in triplicate (typed & bound copy not less than 25 pages).

The internal and external examiner appointed by the University shall evaluate the project at the time of the Practical examinations of other semester(s). Students shall be evaluated in groups for four hours (i.e., about half an hour for a group of five students). The projects shall be evaluated as per the criteria given below.

Evaluation of Dissertation Book:

Objective(s) of the work done	15 Marks
Methodology adopted	20 Marks
Results and Discussions	20 Marks
Conclusions and Outcomes	20 Marks
Total	**75 Marks**

Evaluation of Presentation:

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks
Total	**75 Marks**

Explanation: The 75 marks assigned to the dissertation book shall be same for all the students in a group. However, the 75 marks assigned for presentation shall be awarded based on the performance of individual students in the given criteria.

21. Industrial training (Desirable)

Every candidate shall be required to work for at least 150 hours spread over four weeks in a Pharmaceutical Industry/Hospital. It includes Production unit, Quality Control department, Quality Assurance department, Analytical laboratory, Chemical manufacturing unit, Pharmaceutical R&D, Hospital (Clinical Pharmacy), Clinical Research Organization, Community Pharmacy, etc. After the Semester – VI and before the commencement of Semester – VII, and shall submit satisfactory report of such work and certificate duly signed by the authority of training organization to the head of the institute.

22. Practice School

In the VII semester, every candidate shall undergo practice school for a period of 150 hours evenly distributed throughout the semester. The student shall opt any one of the domains for practice school declared by the program committee from time to time.

At the end of the practice school, every student shall submit a printed report (in triplicate) on the practice school he/she attended (not more than 25 pages). Along with the exams of semester VII, the report submitted

by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college leveland grade point shall be awarded.

23. Award of Ranks

Ranks and Medals shall be awarded on the basis of final CGPA. However, candidates who fail in one or more courses during the B.Pharm program shall not be eligible for award of ranks.Moreover, the candidates should have completed the B. Pharm program in minimum prescribed number of years, (four years) for the award of Ranks.

24 Award of degree

Candidates who fulfill the requirements mentioned above shall be eligible for award of degree during the ensuing convocation.

25. Duration for completion of the program of study

The duration for the completion of the program shall be fixed as double the actual duration of the program and the students have to pass within the said period, otherwise they have to get fresh Registration.

26. Re-admission after break of study

Candidate who seeks re-admission to the program after break of study has to get the approval from the university by paying a condonation fee.

No condonation is allowed for the candidate who has more than 2 years of break up period and he/she has to rejoin the program by paying the required fees.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
BACHELOR OF PHARMACY PROGRAMME
SEMESTER-1
SCHEME OF TEACHING (for [A] group students)

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
BPH1005	Remedial Biology (Theory)*	2	-	2
HS1001	Communication skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
BPH1005P	Remedial Biology (Practical)*	2	-	1
HS1001P	Communication skills (Practical)*	2	-	1
HS 101B - HS106B	A Course From Liberal Arts **	2	-	2
Total		**38**	**4**	**32**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
BPH1005	Remedial Biology (Theory)*	35	10	5	50
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
BPH1005P	Remedial Biology (Practical)*	15	5	5	25
HS1001P	Communication skills (Practical)*	15	5	5	25
HS 101B - HS106B	A Course From Liberal Arts **	70	30		100
Total		**610**	**240**		**850**

SCHEME OF TEACHING (for [B] group students)

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
MTH1001	Remedial Mathematics (Theory)*	2	-	2
HS1001	Communication skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
HS1001P	Communication skills (Practical)*	2	-	1
HS 101B - HS106B	A Course From Liberal Arts **	2	-	2
Total		**36**	**4**	**31**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
MTH1001	Remedial Mathematics (Theory)*	35	10	5	50
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
HS1001P	Communication skills (Practical)*	15	5	5	25
HS 101B - HS106B	A Course From Liberal Arts **	70	30		100
Total		**595**	**230**		**825**

SCHEME OF TEACHING (for [AB] group students)
Semester-I

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH1001	Human Anatomy and Physiology-I (Theory)	3	1	4
BPH1002	Pharmaceutical Analysis-I (Theory)	3	1	4
BPH1003	Pharmaceutics-I (Theory)	3	1	4
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	3	1	4
HS1001	Communication Skills (Theory)*	2	-	2
BPH1001P	Human Anatomy and Physiology-I (Practical)	4	-	2
BPH1002P	Pharmaceutical Analysis-I (Practical)	4	-	2
BPH1003P	Pharmaceutics-I (Practical)	4	-	2
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	4	-	2
HS1001P	Communication Skills (Practical)*	2	-	1
HS 101B - HS106B	A Course From Liberal Arts **	2	-	2
Total		**34**	**4**	**29**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH1001	Human Anatomy and Physiology-I (Theory)	75	15	10	100
BPH1002	Pharmaceutical Analysis-I (Theory)	75	15	10	100
BPH1003	Pharmaceutics-I (Theory)	75	15	10	100
BPH1004	Pharmaceutical Inorganic Chemistry (Theory)	75	15	10	100
HS1001	Communication skills (Theory)*	35	10	5	50
BPH1001P	Human Anatomy and Physiology-I (Practical)	35	10	5	50
BPH1002P	Pharmaceutical Analysis-I (Practical)	35	10	5	50
BPH1003P	Pharmaceutics-I (Practical)	35	10	5	50
BPH1004P	Pharmaceutical Inorganic Chemistry (Practical)	35	10	5	50
HS1001P	Communication Skills (Practical)*	15	5	5	25
HS 101B - HS106B	A Course From Liberal Arts **	70	30		100
Total		**560**	**215**		**775**

*** Non University Examination (NUE)**

* Liberal arts elective courses:

Elective Course		Credits		Total hours	Examination scheme (Practical)		
Code	**Name**	**Theory**	**Practical**	**--**	**Internal**	**External**	**Total**
HS101	Liberal Arts - Painting	--	2	2	50	50	100
HS102	Liberal Arts - Photography	--	2	2	50	50	100
HS103	Liberal Arts - Sculpting	--	2	2	50	50	100
HS104	Liberal Arts - Pottery and Ceramic Art	--	2	2	50	50	100
HS105	Liberal Arts - Media and Graphic Design	--	2	2	50	50	100
HS106	Liberal Arts - Arts and Craft	--	2	2	50	50	100
Total		**--**	**2**	**2**	**50**	**50**	**100**
Total credits: 2, Total marks: 100							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
BACHELOR OF PHARMACY PROGRAMME
SEMESTER-II

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH2001	Human Anatomy and physiology-II (Theory)	3	1	4
BPH2002	Pharmaceutical Organic Chemistry-I (Theory)	3	1	4
BPH2003	Pharmaceutical Engineering (Theory)	3	1	4
BPH2004	Computer Applications in Pharmacy (Theory)*	3	-	3
BPH2001P	Human Anatomy and Physiology-II (Practical)	4	-	2
BPH2002P	Pharmaceutical Organic Chemistry-I (Practical)	4	-	2
BPH2003P	Pharmaceutical Engineering (Practical)	4	-	2
BPH2004P	Computer Applications in Pharmacy (Practical)*	2	-	1
HS121.01 B	English Language and Literature	2	-	2
	Total	**28**	**3**	**24**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH2001	Human Anatomy and Physiology-II (Theory)	75	15	10	100
BPH2002	Pharmaceutical Organic Chemistry-I (Theory)	75	15	10	100
BPH2003	Pharmaceutical Engineering (Theory)	75	15	10	100
BPH2004	Computer Applications in Pharmacy (Theory)*	50	15	10	75
BPH2001P	Human Anatomy and Physiology-II (Practical)	35	10	05	50
BPH2002P	Pharmaceutical Organic Chemistry-I (Practical)	35	10	05	50
BPH2003P	Pharmaceutical Engineering (Practical)	35	10	05	50
BPH2004P	Computer Applications in Pharmacy (Practical)*	15	05	05	25
HS121.01 B	English Language and Literature	70	30		100
	Total	**465**	**185**		**650**

*** Non University Examination (NUE)**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
BACHELOR OF PHARMACY PROGRAMME

SEMESTER-III

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH3001	Pharmaceutical Organic Chemistry-II (Theory)	3	1	4
BPH3002	Physical Pharmaceutics-I (Theory)	3	1	4
BPH3003	Pharmaceutical Microbiology (Theory)	3	1	4
BPH3004	Pathophysiology (Theory)	3	1	4
BPH3005	Environmental Sciences (Theory)*	3	-	3
BPH3001P	Pharmaceutical Organic Chemistry-II (Practical)	4	-	2
BPH3002P	Physical Pharmaceutics-I (Practical)	4	-	2
BPH3003P	Pharmaceutical Microbiology (Practical)	4	-	2
---	DHSS elective**	2	-	2
---	University elective***	2	-	2
	Total	**31**	**4**	**29**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH3001	Pharmaceutical Organic Chemistry-II (Theory)	75	15	10	100
BPH3002	Physical Pharmaceutics-I (Theory)	75	15	10	100
BPH3003	Pharmaceutical Microbiology (Theory)	75	15	10	100
BPH3004	Pathophysiology (Theory)	75	15	10	100
BPH3005	Environmental Sciences (Theory)*	50	15	10	75
BPH3001P	Pharmaceutical Organic Chemistry-II (Practical)	35	10	05	50
BPH3002P	Physical Pharmaceutics-I (Practical)	35	10	05	50
BPH3003P	Pharmaceutical Microbiology (Practical)	35	10	05	50
---	DHSS elective**	70	30		100
---	University elective***	70	30		100
	Total	**595**	**230**		**825**

*** Non University Examination (NUE)**

** DHSS elective courses:

Elective Course		Credits		Total hours	Examination scheme (Practical)		
Code	**Name**	**Theory**	**Practical**	**--**	**Internal**	**External**	**Total**
HS131 B	Philosophy	2	--	2	30	70	100
HS122 B	Values and Ethics	2	--	2	30	70	100
Total credits: 2, Total marks: 100							

*** University elective courses:

Elective Course		Credits		Total hours	Examination scheme (Theory/Practical)		
Code	**Name**	**Theory**	**Practical**	**--**	**Internal**	**External**	**Total**
CE281	Art Of Programming	2	-	2	30	70	100
CL281	Environmental Sustainability & Climate Change	2	-	2	30	70	100
EE281	Electrical Engineering Materials	2	-	2	30	70	100
IT281	ICT Resources & Multimedia	2	-	2	30	70	100
ME281	Engineering Drawing	2	-	2	30	70	100
PH233	Fundamentals Of Packaging	2	-	2	30	70	100
PD260	Basic Laboratory Techniques	2	-	2	30	70	100
NR251	First Aid & Life Support	2	-	2	30	70	100
PT191	Health Promotion & Fitness	2	-	2	30	70	100
CA224	Introduction To Web Designing	-	2	2	30	70	100
BM231	Banking & Insurance	-	2	2	30	70	100
EC281	Introduction To MATLAB Programming	2	-	2	30	70	100
Total		**2**	**2**	**2**	**30**	**70**	**100**
Total credits: 2, Total marks: 100							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-IV

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH4001	Pharmaceutical Organic Chemistry-III (Theory)	3	1	4
BPH4002	Biochemistry (Theory)	3	1	4
BPH4003	Physical Pharmaceutics-II (Theory)	3	1	4
BPH4004	Pharmacology-I (Theory)	3	1	4
BPH4005	Pharmacognosy-I (Theory)	3	1	4
BPH4002P	Biochemistry (Practical)	4	-	2
BPH4003P	Physical Pharmaceutics-II (Practical)	4	-	2
BPH4004P	Pharmacology-I (Practical)	4	-	2
BPH4005P	Pharmacognosy-I (Practical)	4	-	2
HS133 B	Creativity Problem solving and Innovation	2	-	2
---	University elective*	2	-	2
	Total	**35**	**5**	**32**

SCHEME OF EVALUATION

Course Code	Name of the Course	Marks Distribution			
		University (End Semester Exam)	Institute		Total
			Sessional Exams	Continuous Mode	
BPH4001	Pharmaceutical Organic Chemistry-III (Theory)	75	15	10	100
BPH4002	Biochemistry (Theory)	75	15	10	100
BPH4003	Physical Pharmaceutics-II (Theory)	75	15	10	100
BPH4004	Pharmacology-I (Theory)	75	15	10	100
BPH4005	Pharmacognosy-I (Theory)	75	15	10	100
BPH4002P	Biochemistry (Practical)	35	10	05	50
BPH4003P	Physical Pharmaceutics-II (Practical)	35	10	05	50
BPH4004P	Pharmacology-I (Practical)	35	10	05	50
BPH4005P	Pharmacognosy-I (Practical)	35	10	05	50
HS133 B	Creativity Problem solving and Innovation	70	30		100
---	University elective*	70	30		100
	Total	**655**	**245**		**900**

* University elective courses:

Elective Course		Credits		Total hours	Examination scheme (Theory/Practical)		
Code	**Name**	**Theory**	**Practical**	**--**	**Internal**	**External**	**Total**
CE282	Web Designing	2	-	2	30	70	100
CL282	Basics Of Environmental Impact Assessment	2	-	2	30	70	100
EE282	Electrical Power Utilisation & Traction	2	-	2	30	70	100
IT282	Internet Technology & Web Design	2	-	2	30	70	100
ME282	Material Science	2	-	2	30	70	100
PH238	Cosmetics In Daily Life	2	-	2	30	70	100
NR261	Life Style Diseases & Management	2	-	2	30	70	100
PT192	Occupational Health & Ergonomics	2	-	2	30	70	100
CA225	Programming The Internet	-	2	2	30	70	100
BM241	Health Care Management	-	2	2	30	70	100
Total		**2**	**2**	**2**	**30**	**70**	**100**
Total credits: 2, Total marks: 100							

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-5

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH5001	Medicinal Chemistry-I (Theory)	3	1	4
BPH5002	Industrial Pharmacy-I (Theory)	3	1	4
BPH5003	Pharmacology-II (Theory)	3	1	4
BPH5004	Pharmacognosy-II (Theory)	3	1	4
BPH5005	Pharmaceutical Jurisprudence (Theory)	3	1	4
BPH5001P	Medicinal Chemistry-I (Practical)	4		2
BPH5002P	Industrial Pharmacy-I (Practical)	4	-	2
BPH5003P	Pharmacology-II (Practical)	4	-	2
BPH5004P	Pharmacognosy-II (Practical)	4	-	2
HS124.01B	Professional Communication	2	-	2
Total		**33**	**5**	**30**

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH5001	Medicinal Chemistry-I (Theory)	75	15	10	100
BPH5002	Industrial Pharmacy-I (Theory)	75	15	10	100
BPH5003	Pharmacology-II (Theory)	75	15	10	100
BPH5004	Pharmacognosy-II (Theory)	75	15	10	100
BPH5005	Pharmaceutical Jurisprudence (Theory)	75	15	10	100
BPH5001P	Medicinal Chemistry-I (Practical)	35	10	5	50
BPH5002P	Industrial Pharmacy-I (Practical)	35	10	5	50
BPH5003P	Pharmacology-II (Practical)	35	10	5	50
BPH5004P	Pharmacognosy-II (Practical)	35	10	5	50
HS124.01B	Professional Communication	70	30	-	100
Total		585	145	70	800

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-6

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH6001	Medicinal Chemistry-II (Theory)	3	1	4
BPH6002	Pharmacology-III (Theory)	3	1	4
BPH6003	Herbal Drug Technology (Theory)	3	1	4
BPH6004	Industrial Pharmacy-II (Theory)	3	1	4
BPH6005	Pharmaceutical Biotechnology (Theory)	3	1	4
BPH6006	Instrumental Methods of Analysis (Theory)	3	1	4
BPH6002P	Pharmacology-III (Practical)	4	-	2
BPH6003P	Herbal Drug Technology (Practical)	4	-	2
BPH6006P	Instrumental Methods of Analysis (Practical)	4	-	2
HS 134B	Contributor Personality Development	2	-	2
Total		**32**	**6**	**32**

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH6001	Medicinal Chemistry-II (Theory)	75	15	10	100
BPH6002	Pharmacology-III (Theory)	75	15	10	100
BPH6003	Herbal Drug Technology (Theory)	75	15	10	100
BPH6004	Industrial Pharmacy-II (Theory)	75	15	10	100
BPH6005	Pharmaceutical Biotechnology (Theory)	75	15	10	100
BPH6006	Instrumental Methods of Analysis	75	15	10	100
BPH6002P	Pharmacology-III (Practical)	35	10	5	50
BPH6003P	Herbal Drug Technology (Practical)	35	10	5	50
BPH6006P	Instrumental Methods of Analysis (Practical)	35	10	5	50
HS 134B	Contributor Personality Development	70	30	-	100
Total		625	150	75	**850**

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-7

SCHEME OF TEACHING

Course Code	Name of the Course	No. of hours	Tutorial	Credit Points
BPH7001	Medicinal Chemistry-III (Theory)	3	1	4
BPH7002	Quality Assurance (Theory)	3	1	4
BPH7003	Biopharmaceutics and Pharmacokinetics (Theory)	3	1	4
BPH7004	Pharmacy Practice (Theory)	3	1	4
BPH7005	Novel Drug Delivery System (Theory)	3	1	4
BPH7006	Practice School*	12	-	6
BPH7007	Entrepreneurship for Pharma professionals (Theory)*	1	-	1
BPH7001P	Medicinal Chemistry-III (Practical)	4	-	2
BPH7007P	Entrepreneurship for Pharma professionals (Project)	2	-	2
Total		**34**	**5**	**31**

* The subject experts at college level shall conduct examination.

SCHEME OF EVALUATION

Course code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH7001	Medicinal Chemistry-III (Theory)	75	15	10	100
BPH7002	Quality Assurance (Theory)	75	15	10	100
BPH7003	Biopharmaceutics and Pharmacokinetics (Theory)	75	15	10	100
BPH7004	Pharmacy Practice (Theory)	75	15	10	100
BPH7005	Novel Drug Delivery System (Theory)	75	15	10	100
BPH7006	Practice School*	125	-	25	150
BPH7007	Entrepreneurship for pharma professionals (Theory)*	-	50	-	50
BPH7001P	Medicinal Chemistry-III (Practical)	35	10	5	50
BPH7007P	Entrepreneurship for pharma professionals (Project)	80	20	-	100
Total		615	155	80	**850**

* The subject experts at college level shall conduct examination.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

BACHELOR OF PHARMACY PROGRAMME

SEMESTER-8

SCHEME OF TEACHING

Course Code	Name of the course	No. of hours	Tutorial	Credit Points
BPH8001	Biostatistics and Research Methodology (Theory)	3	1	4
BPH8002	Social and Preventive Pharmacy (Theory)	3	1	4
BPH8003	Pharma Marketing Management (Theory)	(Any two courses) 3+3=6	1+1=2	4+4=8
BPH8004	Pharmaceutical Regulatory Science (Theory)			
BPH8005	Pharmacovigilance (Theory)			
BPH8006	Quality Control and Standardization of Herbals (Theory)			
BPH8007	Computer Aided Drug Design (Theory)			
BPH8008	Cell and Molecular Biology (Theory)			
BPH8009	Cosmetic Science (Theory)			
BPH8010	Pharmacological Screening Methods (Theory)			
BPH8011	Advanced Instrumentation Techniques (Theory)			
BPH8012	Dietary Supplements and Nutraceuticals (Theory)			
BPH8013	Pharmaceutical Product Development (Theory)			
BPH8014	Project Work	12	-	6
	Total	**24**	**4**	**22**

SCHEME OF EVALUATION

Course Code	Name of the course	Marks Distribution			
		University (End Semester Exam)	Sessional Exams		Total
			Marks	Continuous Mode	
BPH8001	Biostatistics and Research Methodology (Theory)	75	10	15	100
BPH8002	Social and Preventive Pharmacy (Theory)	75	10	15	100
BPH8003	Pharma Marketing Management (Theory)	75 + 75 = 150	10 + 10 = 20	15 + 15 = 30	100 +100 =200
BPH8004	Pharmaceutical Regulatory Science (Theory)				
BPH8005	Pharmacovigilance (Theory)				
BPH8006	Quality Control and Standardization of Herbals (Theory)				
BPH8007	Computer Aided Drug Design (Theory)				
BPH8008	Cell and Molecular Biology (Theory)				
BPH8009	Cosmetic Science (Theory)				
BPH8010	Pharmacological Screening Methods (Theory)				
BPH8011	Advanced Instrumentation Techniques (Theory)				
BPH8012	Dietary Supplements and Nutraceuticals (Theory)				
BPH8013	Pharmaceutical Product Development (Theory)				
BPH8014	Project Work	150	-	-	150
Total		**450**	**40**	**60**	**550**

Table-IX: Semester wise credits distribution

Semester	Credit Points
I	**29/31[$]/32[#]**
II	24
III	29
IV	32
V	30
VI	32
VII	31
VIII	22
Student can select a certificate course from SWAYAM, NPTEL, Etc. prescribe by Various Government Agencies	02*
Total credit points for the program	**229/231[$]/232[#]**

[*] The credit points assigned for a selection of certificate course/s from SWAYAM, NPTEL, Etc . prescribe by Various Government Agencies and submit a copy of course completion certificate, shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

[$] Applicable ONLY for the students studied Physics/Chemistry/Botany/Zoology at HSC and appearing for Remedial Mathematics course.

[#] Applicable ONLY for the students studied Mathematics/Physics/Chemistry at HSC and appearing for Remedial Biology course.

Ramanbhai Patel College of Pharmacy
Charotar University of Science and Technology
CHARUSAT Campus, Changa

Curriculum feedback analysis and action taken report
Academic Year: 2019-2020

Stake holder	No of feedback received	% feedback analysis	Major concerns	Action taken
Students	120	91	No major concern was shown by the students for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same, especially related to research and extension activities.
Alumni	38	90	The curriculum should show relevance to the real life situation and it should include training/ project component.	The institute have planned to organize finishing school which will include technical sessions and hands-on sessions to clear the concepts of instruments considering the industry requirements. (Annexure-I: Circular regarding commencement of Finishing School)
Employers	5	98	No major concern was shown by the employers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Teachers	20	92	No major concern was shown by the teachers for any of the attributes.	The institute understands the scope of improvement and always strive to improve the same.
Parents	28	86	The quality teaching should enhance the extent of syllabus coverage and effective student counselling and guidance should be involved.	Because of the heterogeneous students' population, the faculty members consider the extent of depth and coverage of the syllabus on the basis of students' average performances. They regularly carry out objective discussion with the counselee about teaching-learning, examinations, extra and co-curricular participations and their hobbies.

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

Annexure-I: Commencement of Finishing School

Ramanbhai Patel College of Pharmacy

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Circular

Monday, February 15, 2021

Subject: Preparation of the Content for Finishing School

Under the skill-development program of RPCP, we have devised a unique concept of "Finishing School" and received approval from the university for the same. Under finishing school, we may conduct range of technical and soft-skill development activities. A presentation of Finishing school is enclosed herewith circular for your perusal and reference.

For academic year 2021-22, we have planned to execute activities under the three modules of finishing school as below.

Module: 1 – 360^0 Management:

- Communicate to Impress:
- Impactful Presentation:
- Soft skill for Workspace:
- Resume and Cover letter:
- Corporate Etiquettes
- Group Discussion Skill
- Etc.

Module: 2 – Skilled @ RPCP:

- HPLC
- HPTLC
- Karl Fischer and IR Balance
- UV Spectrophotometer
- Tablet Compression
- Lyophilizer
- Spray Dryer
- Extruder Spheronizer
- Chloride Determination
- LAL Test
- Microbial Assay
- Tablet Coating
- Dissolution Tester
- Sterility Testing and Aseptic Practices.

Module: 3 – Featured Class:

- Biowaiver and Hatch-Waxman Law
- IVIV Correlation and Dissolution
- Regulatory Affair Brief – Indian Perception
- Intellectual Property Right – Brief
- Etc.

For ease of execution, we have planned to create one time content of above sessions and make it available through online platforms like YouTube. Currently we have planned to record the session of Module:2 and 3. Each equipment / test / topics of module 2 and 3 are assigned to faculties (Annexure -1).

We are planning to record the sessions from **19th to 25nd February 2021**. We request concerned faculties to prepare their content and make sure it gets recorded within the stipulated time slot. Faculty member are solely responsible for timely accomplishment of e-content / video preparation task.

Manan

Dr Manan Raval
Principal - RPCP

Ramanbhai Patel College of Pharmacy CHARUSAT CHANGA

Annexure- 1

Following faculties are nominated with their respective topics / equipment for Finishing School.

Instrument Demonstration	**Faculty**	**Instrument Demonstration**	**Faculty**
HPLC	Ms. Kirati Shah	Extrusion Spheronizer	Dr. Amit Patel
HPTLC	Ms. Hardi Shah Mr. Manish Nandpal	Chloride Content Determination	Dr. Payal Chauhan
Karl Fisher & IR moisture balance	Nikunj Patel	LAL Test	Dr. Samir Patel
Flash Chromatograph	Ms. Hardi Shah Mr. Manish Nandpal	Microbial Assay	Dr. Amit Patel
UV Spectrophotometer	Ms. Janvi Shah	Tablet Coating Unit	Dr. Amit Patel
Tablet Compression Unit	Dr. Amit Patel	Dissolution Test Apparatus with Calculation – USP	Ms. Jagruti Prajapati
Lyophilization Unit	Dr. Swayamprakash Patel	Weighing Balance	Dr. Jagruti Desai
Spray Dryer	Dr. Ravish Patel	Sterility Testing	Dr. Ravish Patel

Topic for Module 3	**Faculty**
Biowaiver and Hatch-Waxman Law	To be decided later
IVIV Correlation and Dissolution	Dr. Jagruti Desai
Regulatory Affair Brief – Indian Perception	To be decided later
Intellectual Property Right – Brief	To be decided later

Ramanbhai Patel College of Pharmacy * CHARUSAT CHANGA