

**Alumni Meeting**

**No. 1005**

<b>Date and Time of the meeting:</b> 10/02/2019 (Saunday), 10:00 a.m. onwards							
<b>Venue for the meeting:</b> AMA, Ahmedabad							
<b>Agenda for the meeting:</b>							
<ul style="list-style-type: none"> <li>➤ Update the alumni about RPCP and CHARUSAT progress and achievements.</li> <li>➤ Awareness about renewal of NAAC accreditation of CHARUSAT and role of alumni.</li> <li>➤ Awareness about NBA accreditation of RPCP and role of alumni.</li> </ul>							
<b>No of responses received:</b>				32			
<b>Rate your Curriculum: Scale- 5: Excellent, 4: Very good, 3: Good, 2: Satisfactory 1: Needs Improvement</b>							
<b>Criteria</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>Average</b>	<b>% Response</b>
The curriculum was	A=24	B=7	C=2	d	e	4.8	96.2
Your background for benefiting from the program was	15	15	2	-	-	4.4	88.125
When you meet students who have taken a similar Program at other universities do you feel that your Program is?	24	7	-	-	1	4.6	92.5
Learning value (in terms of skills, concepts, knowledge, analytical abilities, or broadening perspectives)	20	12	-	-	-	4.6	92.5
Applicability/relevance to real life situations	21	10	7	-	-	4.6	92.5
Extent and depth of content	26	4	2	-	-	4.75	95.00
Extent of coverage	25	7	1	-	-	4.75	95.00
Relevance/learning value of project/ training	26	7	-	1	-	4.8	97.5
<b>Average</b>						4.4	88.73
Average = $(a*5) + (b*4) + (c*3) + (d*2) + (e*1)$ / total no of responses							
% response = $(\text{Average} * 100 / 5)$							

**Any other suggestion for improvement: NA**

**Certified By:**

**For Curriculum**

No. 0506

**Number of Reviewers from Industry: 0**

**Number of Reviewers from Academia: 20**

Scale- 5: Excellent, 4: Very good, 3: Good, 2: Satisfactory 1: Needs Improvement

Sr.No	Criterion	5	4	3	2	1	Average	% Response
1	Content of Syllabus	15	2	3	0	0	4.60	92.00
2	Relevance of Syllabus to Industry/Research Requirements	11	8	1	0	0	4.50	90.00
3	Incorporation of Advanced Topics	13	6	1	0	0	4.60	92.00
4	Component Weightage	14	6	0	0	0	4.70	94.00
5	Setting Prerequisite	14	5	1	0	0	4.65	93.00
6	Electives in Curriculum	18	2	0	0	0	4.90	98.00
7	Industrial training in Curriculum	17	2	1	0	0	4.80	96.00
8	Project Component	15	2	3	0	0	4.60	92.00
9	Pedagogy Proposed	16	2	2	0	0	4.70	94.00
10	Linkage between Theory to Practical	14	3	3	0	0	4.55	91.00
<b>Average</b>							4.66	93.20

Average =  $(a*5) + (b*4) + (c*3) + (d*2) + (e*1) / \text{total no of responses}$

% response =  $(\text{Average} * 100 / 5)$

Course specific comments:

Additional suggestions and remarks, if any:

NIL

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For Curriculum

To be filled by the recruiters

No. 0506B

Number of Reviewers from industry: 05

Scale- 5: Excellent, 4: Very good, 3: Good, 2: Satisfactory 1: Needs Improvement

Sr.No	Criterion	5	4	3	2	1	Average	% Response
1	Content of Syllabus	5	0	0	0	0	5.00	100.00
2	Relevance of Syllabus to Industry/Research Requirements	4	1	0	0	0	4.80	96.00
3	Incorporation of Advanced Topics	5	0	0	0	0	5.00	100.00
4	Component Weightage	4	1	0	0	0	4.80	96.00
5	Setting Prerequisite	5	0	0	0	0	5.00	100.00
6	Electives in Curriculum	4	1	0	0	0	4.80	96.00
7	Industrial training in Curriculum	5	0	0	0	0	5.00	100.00
8	Project Component	4	1	0	0	0	4.80	96.00
9	Pedagogy Proposed	5	0	0	0	0	5.00	100.00
10	Linkage between Theory to Practical	4	1	0	0	0	4.80	96.00
<b>Average</b>							4.90	98.00

Average =  $(a*5) + (b*4) + (c*3) + (d*2) + (e*1) / \text{total no of responses}$

% response =  $(\text{Average} * 100 / 5)$

Course specific comments:

Additional suggestions and remarks, if any:

NIL

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**Parents' Meeting**  
**No.0803**  
**Faculty of Pharmacy**

Date of the meeting: 06/04/2019

Venue of the meeting: Ramanbhai Patel College of Pharmacy

Number of parent attendees: 10

Scale- 5: Excellent, 4: Very good, 3: Good, 2: Satisfactory 1: Needs Improvement

**A. Teaching/Learning Process**

Criteria	5	4	3	2	1	Average	% Response
Quality of teaching offered by the Department/Institute	4	5	1			4.6	92
Examination system adopted by the Department/Institute	2	7			1	4.4	88
Depth, extent of coverage and relevance of Curriculum	1	7	2			3.9	78
Technical knowledge acquired by your ward after admission to our Department/Institute	6	3	1			4.8	96
Communication and Interpersonal skills acquired by your ward after admission to our Department/Institute	4	4	2			4.2	84
Student's counseling and guidance	5	2	3			4.2	84
<b>Average</b>						<b>4.35</b>	<b>87</b>

**B. Facilities / Activities**

Facilities	5	4	3	2	1	Average	% Response
Laboratory	3	7				4.3	86
Library	7	3				4.7	94
Internet Facility		3	7			3.3	66
Canteen	4	4	2			4.2	84
Extracurricular Activities and Sports	3	5	2			4.1	82
<b>Average</b>						<b>4.12</b>	<b>82.4</b>

Average= (a\*5) + (b\*4) + (c\*3) + (d\*2) + (e\*1)/ total no of responses

% response = (Average\*100/5)

Suggestions/ Remarks:

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**Feedback from outgoing students**  
**(No of Feedbacks: 66)**

Programme: B. Pharm

Date:22/08/19

Scale-5: Strongly Agree, 4: Agree 3: Moderate 2: Disagree 1: Strongly Disagree

No.	Aspect	5	4	3	2	1	Average	% Response
1	Program's curriculum was broad enough to meet needs and prepare me for my career of choice.	35	25	1		5	4	86
2	The curriculum actively facilitated the learning of various aspects of Pharmacy	42	18	1		5	4	88
3	The learning was supplemented by co curricular activities such as coursework outside the department, internships and workshops, Conference, Symposia etc.	34	24	6		5	4	88
4	The curriculum prepared students for academic careers.	37	18	6		5	4	87
5	The curriculum prepared students for careers outside academia.	32	22	4	3	5	4	81
6	The program curriculum could enhance my thinking ability for solving problems and making decision in my day to day life.	34	21	4	1	6	4	83
7	The studies in B.Pharm at RPCP made me technically sound for solving technical problems in my professional work.	37	19	4	1	5	4	84
8	The activities included in curriculum as well as my participation in extracurricular activities at RPCP helped me in developing the of skill taking strategic decisions.	34	21	5		6	4	83
9	Time spent in laboratory and for projects was helpful to me in learning the aspects of timely submission of the work.	35	18	2		5	4	78
10	I am now aware about my professional and social responsibilities as a Pharmacist and that came from my studies at RPCP.	41	21	2		5	5	91
11	"Honesty at work and Honesty in life" this principle was consolidated during the time I spent at RPCP.	38	21	2		5	4	88
12	During my studies the issues related to ethics in the profession was discussed and had a great impact on my professional behavior.	30	27	2	2	5	4	82

13	I own information about State Pharmacy Council and Pharmacists Registration Procedure in India.	34	23	4	1	4	4	85
14	As a student of RPCP , I believe that, we were trained in interpersonal skills such as public speaking, working in teams etc.	39	19	2	2	4	4	85
15	Do you participate any of the event/s, through institute facilitation, aimed to aware local population about health issues and awareness camp, blood donation camp, organ donation campaign, relies etc.During your tenure of studies at RPCP?	51	2	2	9	2	4	83
16	Do you believe that Pharmacy Week/ Pharmacist day celebration at RPCP correlated with theme proposed for respective years?	61	3		1	1	5	97
17	The program adequately prepared me for a career in my field .	33	24	4	1	4	4	84
18	Curriculum of B. Pharm Program encouraged me to learn new things and helped me in my continuous development of my profession abilities.	35	23	2		6	4	85
19	Rate the ability of curriculum to impart the knowledge and skills which you think, that you may take up for learning voluntarily throughout your professional life.	59	3	3		1	5	96
20	Curriculum set, made you capable of analyzing your strength and weakness and motivated you to use resources effectively together the knowledge/skills expected from you.	33	29	2		2	4	88
21	Curriculum made you aware about sustainable growth and conservation of natural resources.	33	25	5		2	4	85
<b>Average</b>							4	86

Average= (a\*5) + (b\*4) + (c\*3) + (d\*2) + (e\*1)/ total no of responses

% response = (Average\*100/5)

Any other comments/ suggestions:

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**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)

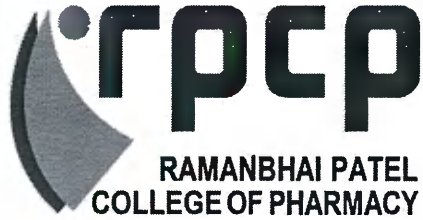


**Certified By:**

*Mansu*

*DR*

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# *Annual Report*



**Academic Year: 2019-20**



**CHARUSAT**

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

Accredited with "A" grade by NAAC, Govt. of India

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### **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 is 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.

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## **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 17<sup>th</sup> to 21<sup>st</sup> 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 21<sup>st</sup> August, 2019. Total of 83 participants from various constituents institute of CHARUSAT had participated. Winners were felicitated with cash price and certificates.

### **3. 9<sup>th</sup> Pharma Vision**

National seminar 9<sup>th</sup> 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 7<sup>th</sup> and 8<sup>th</sup> 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

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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 25<sup>th</sup> 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 14<sup>th</sup> to 18<sup>th</sup> 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.

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### **7. Alumni Meet 2020**

The Alumni meet 2020 was scheduled on 9<sup>th</sup> 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 10<sup>th</sup> 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 27<sup>th</sup> January 2020. The Gujarat Council on Science and Technology (GUJCOST), Dept. of Science and Technology, Govt. of Gujarat had financially patronized the event. Two sessions 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 28<sup>th</sup> 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 Pharmacy, 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 17<sup>th</sup> & 18<sup>th</sup> 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.

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## **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 25<sup>th</sup> and 26<sup>th</sup> 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 18<sup>th</sup> to 23<sup>rd</sup> 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 12<sup>th</sup> Science who are aspiring to get admission in B.Pharm. This unique program, identified as a **Pharmacy Aspirants' Program (PPRO)** was organized from 5<sup>th</sup> August to 24<sup>th</sup> 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 3<sup>rd</sup> to 5<sup>th</sup> September, 2020 for the beginners in the field of application of

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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 19<sup>th</sup> to 21<sup>st</sup> 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, <sup>1</sup>H NMR, <sup>13</sup>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 7<sup>th</sup> and 8<sup>th</sup> 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 22<sup>nd</sup> 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 through 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 18<sup>th</sup> 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)**

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**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 7<sup>th</sup> to 23<sup>rd</sup> 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 31<sup>st</sup> 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 28<sup>th</sup> January, 2020 and out of 64 students appeared for the test, 09 students from the final year B.Pharm and 01 student from 1<sup>st</sup> 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	1 <sup>st</sup> Year M.Pharm	1546

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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
2 <sup>nd</sup> Semester B.Pharm	113	94	39
4 <sup>th</sup> Semester B.Pharm	110	94	36
6 <sup>th</sup> Semester B.Pharm	97	84	34
8 <sup>th</sup> Semester B.Pharm	88	82	35
2 <sup>nd</sup> Semester M.Pharm (All branches)	23	23	16

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## Odd Term 2019-20

Semester	No of Students appeared	No of Students Passing without backlogs	No of students with Distinction
1 <sup>st</sup> Semester B.Pharm	103	81	25
3 <sup>rd</sup> Semester B.Pharm	107	95	37
5 <sup>th</sup> Semester B.Pharm	109	95	33
7 <sup>th</sup> Semester B.Pharm	94	86	50
1 <sup>st</sup> Semester M.Pharm (All branches)	34	33	17

### SWAYAM online Course

3 students from 1<sup>st</sup> Year M.Pharm Pharmaceutical Technology, 2 students from 1<sup>st</sup> Year M.Pharm Regulatory Affairs and 8 students from 1<sup>st</sup> 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.

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- 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 1<sup>st</sup> Year M.Pharm Quality Assurance had presented a poster and secured a second rank at 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Vidhi Pandya from 1<sup>st</sup> Year M.Pharm Pharmaceutical Technology had participated in poster presentation competition and secured 2<sup>nd</sup> rank at 9<sup>th</sup> 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 10<sup>th</sup> 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 1<sup>st</sup> Prize in poster presentation competition in 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Karan Gandhi from final year B.Pharm won 2<sup>nd</sup> rank in poster presentation competition in 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Sweta Shah and Jhanvi Soni from final year B.Pharm secured 2<sup>nd</sup> rank in poster presentation competition at a workshop entitled “Nutraceuticals and Dietary Supplements: Unlimited

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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 Pharmacrossword event, organized by ABVP Pharma Ayam.
- Srushti Patel, Prachi Patel, Chandni Patel and Vidhi Patel from third year B.Pharm had won 2<sup>nd</sup> rank Poster Presentation Competition in 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.

#### Extracurricular

- Krupa Vaishnav from 2<sup>nd</sup> 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 2<sup>nd</sup> Year M.Pharm Pharmacology had won 1<sup>st</sup> prize in Logo Design Competition for Women Development Cell, CHARUSAT, organized by WDC, CHARUSAT.
- Jeet Munjani from final year B.Pharm won 3<sup>rd</sup> 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 2<sup>nd</sup> rank in Increpharma and Model presentation events in 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Drashti Dalsania and Ami Kalasariya from third year B.Pharm had won 3<sup>rd</sup> position in Dare to Sale competition in 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Yash Patel from third year B.Pharm had secured 3<sup>rd</sup> rank in Mahtma Gandhi Essay Competition, organized by Indukaka Ipcowala Institute of Management, CHARUSAT.

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- Preksha Patel, Ravi Vanecha and Nishi Patel from third year B.Pharm had secured 2<sup>nd</sup> 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 1<sup>st</sup> position and Anjali Patel from third year B.Pharm had secured 2<sup>nd</sup> 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 2<sup>nd</sup> year B.Pharm had secured 2<sup>nd</sup> prize in Scientific Presentation Competition on Nobel Prize in Chemistry 2019-20.
- Sanika Dongre from second year B.Pharm had won 1<sup>st</sup> prize in poster making competition on “Traffic Rules” at L&T Knowledge City.
- Priya Bhatt from 1<sup>st</sup> Year B.Pharm had secured the 1<sup>st</sup> 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.

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- Mehul Luhar from third year B.Pharm had secured 3<sup>rd</sup> 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 2<sup>nd</sup> 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 1<sup>st</sup> year B.Pharm had secured 1<sup>st</sup> position in Beat the Beat competition, organized at Nirma University.

#### Participations

#### Co-curricular

- 6 students from 2<sup>nd</sup> 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 2<sup>nd</sup> 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.

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- Foram Patel from 2<sup>nd</sup> 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 2<sup>nd</sup> Year M.Pharm Quality Assurance had attended 9<sup>th</sup> international conference organized by APP American International Branch and APP Gujarat State Branch.
- Preksha patel from 2<sup>nd</sup> Year M.Pharm Quality Assurance had participated in Regional Mentoring Session for Proof of Concept.
- Kirati Shah from 2<sup>nd</sup> Year M.Pharm Quality Assurance had presented a poster at 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Kirati Shah from 2<sup>nd</sup> Year M.Pharm Quality Assurance had presented a poster at a workshop entitled “Nutraceuticals and Dietary Supplements: Unlimited Frontiers in Lifestyle Disorders”, organized by School of Pharmacy, ITM Universe, Vadodara.
- Kirati Shah from 2<sup>nd</sup> 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 2<sup>nd</sup> Year M.Pharm Pharmaceutical Technology had presented a poster at 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- Yatindra Bhadankar from 2<sup>nd</sup> Year M.Pharm Pharmaceutical Technology had attended 9<sup>th</sup> international conference organized by APP American International Branch and APP Gujarat State Branch.
- 4 students from 2<sup>nd</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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.

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- Khyati Patel from 2<sup>nd</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> 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 2<sup>nd</sup> Year M.Pharm Pharmacology had participated in SSIP Smart Gujarat for New India Heckathon 2019-2020.
- Ami shah 2<sup>nd</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> Year M.Pharm Quality Assurance had presented a poster at a workshop entitled “Nutraceuticals and Dietary Supplements: Unlimited Frontiers in Lifestyle Disorders”, organized by School of Pharmacy, ITM Universe, Vadodara.
- Hardi Shah from 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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)

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- All students from 1<sup>st</sup> 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 1<sup>st</sup> Year M.Pharm Regulatory Affairs had presented a poster at 9<sup>th</sup> Pharmavision 2019, organized by Ramanbhai Patel College of Pharmacy, CHARUSAT and ABVP.
- All students from 1<sup>st</sup> 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 1<sup>st</sup> Year M.Pharm Regulatory Affairs had attended a workshop entitled “Nutraceuticals and Dietary Supplements: Unlimited Frontiers in Lifestyle Disorders”, organized by School of Pharmacy, ITM Universe, Vadodara.
- 6 students from 1<sup>st</sup> 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 1<sup>st</sup> 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 1<sup>st</sup> 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 9<sup>th</sup> 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 71<sup>st</sup> 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.

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- 7 students from third year B.Pharm had participated in Poster Presentation competition in 9<sup>th</sup> 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 9<sup>th</sup> 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 2<sup>nd</sup> year B.Pharm had participated in poster presentation competition at 2<sup>nd</sup> 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 2<sup>nd</sup> 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 30<sup>th</sup> April to 5<sup>th</sup> 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 27<sup>th</sup> April to 2<sup>nd</sup> 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 26<sup>th</sup> May to 30<sup>th</sup> 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 18<sup>th</sup> May 2020 to 3<sup>rd</sup> June 2020.

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7. Ms. Richa Dave participated in FDP on Entrepreneurship organized by Entrepreneurship Development & Incubation Cell (EDIC), CHARUSAT from 20<sup>th</sup> January to 1<sup>st</sup> 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. Wadhvani College of Pharmacy, Yavatmal in association with Indian Pharmaceutical Association from 5<sup>th</sup> to 9<sup>th</sup> May 2020.
10. Mr. Nikunj Parekh attend online STTP on “Journal citation Report Certificate” conducted by Clarivate Analytics Company from 15<sup>th</sup> May to 19<sup>th</sup> 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.

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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:**

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- 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 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.

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- 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. Bligi Patel

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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 2<sup>nd</sup> Year M.Pharm Regulatory Affairs are currently doing their project at Step Up Pharma, Ahmedabad.

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# ACADEMIC REGULATIONS & SYLLABUS

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**Faculty of Pharmacy  
Bachelor of Pharmacy Programme**

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**1<sup>st</sup> to 8<sup>th</sup> 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

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# 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.

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## 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

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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 Project over 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**

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The End Semester Examinations for each theory and practical course through semesters I to VIII shall be conducted by the university except for the subjects with asterisk 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**

<b>Theory</b>		
<b>Criteria</b>	<b>Maximum Marks</b>	
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
<b>Total</b>	<b>10</b>	<b>5</b>
<b>Practical</b>		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
<b>Total</b>	<b>5</b>	

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

<b>Percentage of Attendance</b>	<b>Theory</b>	<b>Practical</b>
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.

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*Dr*

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**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

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

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**11. Promotion and award of grades**

A student shall be declared PASS and eligible for getting grade in 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 student fails to secure the minimum 50% in any Theory or Practical course as specified in 12, then he/she shall reappear for the end semester examination of that course. However his/her marks of the Internal Assessments shall be carried over and he/she shall be entitled for grade obtained by him/her on passing.

**13. 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.

**14. Re-examination of end semester examinations**

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

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**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  
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  
-----

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### 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 has given 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 AB should 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

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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 A Band 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 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 C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub> and C<sub>5</sub> and the student’s grade points in these courses are G<sub>1</sub>, G<sub>2</sub>, G<sub>3</sub>, G<sub>4</sub> and G<sub>5</sub>, respectively, and then students’ SGPA is equal to:

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

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 ABS grade awarded in that semester. For example if a learner has a F or ABS grade in course 4, the SGPA shall then be computed as:

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

**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:

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

where C<sub>1</sub>, C<sub>2</sub>, C<sub>3</sub>,... is the total number of credits for semester I, II, III,.... and S<sub>1</sub>, S<sub>2</sub>, S<sub>3</sub>,... is the SGPA of semester I, II, III,....

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### 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
<b>Total</b>	<b>75 Marks</b>

#### *Evaluation of Presentation:*

Presentation of work	25 Marks
Communication skills	20 Marks
Question and answer skills	30 Marks
<b>Total</b>	<b>75 Marks</b>

*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

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by the student, knowledge and skills acquired by the student through practice school shall be evaluated by the subject experts at college level and 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.

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**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
<b>Total</b>		<b>38</b>	<b>4</b>	<b>32</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>610</b>	<b>240</b>		<b>850</b>

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**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
<b>Total</b>		<b>36</b>	<b>4</b>	<b>31</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>595</b>	<b>230</b>		<b>825</b>

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**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
<b>Total</b>		<b>34</b>	<b>4</b>	<b>29</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>560</b>	<b>215</b>		<b>775</b>

\* Non University Examination (NUE)

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\* 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
<b>Total</b>		--	<b>2</b>	<b>2</b>	<b>50</b>	<b>50</b>	<b>100</b>
<b>Total credits: 2, Total marks: 100</b>							

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**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
<b>Total</b>		<b>28</b>	<b>3</b>	<b>24</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>465</b>	<b>185</b>		<b>650</b>

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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
<b>Total</b>		<b>31</b>	<b>4</b>	<b>29</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>595</b>	<b>230</b>		<b>825</b>

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\*\* 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
<b>Total credits: 2, Total marks: 100</b>							

\*\*\* 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
<b>Total</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>
<b>Total credits: 2, Total marks: 100</b>							

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**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
<b>Total</b>		<b>35</b>	<b>5</b>	<b>32</b>

**SCHEME OF EVALUATION**

Course Code	Name of the Course	Marks Distribution			Total
		University (End Semester Exam)	Institute		
			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
<b>Total</b>		<b>655</b>	<b>245</b>	<b>900</b>	

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\* 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
<b>Total</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>30</b>	<b>70</b>	<b>100</b>
<b>Total credits: 2, Total marks: 100</b>							

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**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
<b>Total</b>		<b>33</b>	<b>5</b>	<b>30</b>

**SCHEME OF EVALUATION**

Course code	Name of the course	Marks Distribution			Total
		University (End Semester Exam)	Sessional Exams		
			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
	<b>Total</b>	<b>585</b>	<b>145</b>	<b>70</b>	<b>800</b>

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**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
<b>Total</b>		<b>32</b>	<b>6</b>	<b>32</b>

**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

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*DR*

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**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
<b>Total</b>		<b>34</b>	<b>5</b>	<b>31</b>

\* The subject experts at college level shall conduct examination.

**SCHEME OF EVALUATION**

Course code	Name of the course	Marks Distribution			Total
		University (End Semester Exam)	Sessional Exams		
			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
	<b>Total</b>	<b>615</b>	<b>155</b>	<b>80</b>	<b>850</b>

\* The subject experts at college level shall conduct examination.

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**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
	<b>Total</b>	<b>24</b>	<b>4</b>	<b>22</b>

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**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
<b>Total</b>		<b>450</b>	<b>40</b>	<b>60</b>	<b>550</b>

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**Table-IX: Semester wise credits distribution**

Semester	Credit Points
I	29/31 <sup>§</sup> /32 <sup>#</sup>
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*
<b>Total credit points for the program</b>	<b>229/231<sup>§</sup>/232<sup>#</sup></b>

\* 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.

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