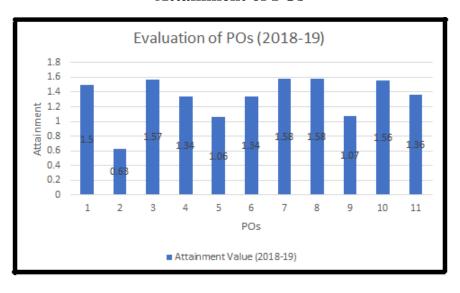


ANNEXURE-I

Faculty of Pharmacy Attainment AY 2018-19

Attainment of POs



Attainment of POs for Academic Year 2018-19

Course Code	Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BPH1001	Human Anatomy and	2.31	-	1.19	-	-	-	-	-	-	-	1.00
	Physiology											
BPH1002	Pharmaceutical Analysis	2.31	-	2.25	-	-	-	-	-	-	-	2.25
BPH1003	Pharmaceutics-I	2.63	-	2.67	-	-	-	2.50	-	2.38	-	2.75
BPH1004	Pharmaceutical Inorganic	2.60	-	1.38	-	-	-	2.75	-	0.00	-	2.06
	Chemistry (Theory)											
BPH1001P	Human Anatomy and	1.50	-	1.58	1.50	-	-	-	1.75	-	-	-

	Physiology-I											
BPH1002P	Pharmaceutical Analysis-I	0.50	-	0.50	-	-	-	-	0.50	-	-	1.50
BPH1003P	Pharmaceutics-I	1.5	-	1.5	-	-	-	-	1.5	-	-	3.00
BPH1004P	Pharmaceutical Inorganic Chemistry	2.84	-	3.00	-	-	-	-	3.00	-	-	-
BPH2001	Human Anatomy and physiology-II	1.63	-	0.17	-	-	-	-	-	-	-	1.63
BPH2002	Pharmaceutical Organic Chemistry – II	1.50	-	1.50	-	-	-	0.17	-	0.56	-	1.31
BPH2003	Pharmaceutical Engineering-I	2.30	-	2.25	-	ı	-	-	-	-	2.25	2.25
BPH2004	Computer Applications in Pharmacy	2.56	-	2.25	2.67	ı	ı	-	-	-	-	3.00
BPH2001P	Human Anatomy and Physiology-II	0.75	-	1.17	1.50	ı	ı	-	1.31	ı	-	1.50
BPH2002P	Pharmaceutical Organic Chemistry-I	0.75	1.50	1.00	1.50	-	-	-	0.50	-	-	1.50
BPH2003P	Pharmaceutical Engineering	1.00	-	1.25	1.13	-	-	-	1.50	-	-	0.75
BPH2004P	Computer Applications in Pharmacy	2.84	-	3.00	2.67	-	-	-	2.67	-	-	-
BPH3001	Pharmaceutical Organic Chemistry-II	2.31	-	2.31	-	-	-	-	-	-	-	2.00
BPH3002	Physical Pharmaceutics-I	2.56	-	2.67	-	ı	-	-	-	-	-	1.25
BPH3003	Pharmaceutical Microbiology	2.55	0.56	2.67	1.13	-	-	-	-	-	-	1.00
BPH3004	Pathophysiology	2.03	0.56	0.00	-	ı	-	-	-	-	-	1.06
BPH3005	Environmental science	0.64			2.67		-	-	_		1.28	0.89
BPH3001P	Pharmaceutical Organic Chemistry-II	1.50	1.00	1.50	-	-	-	-	2.00	-	-	2.00
BPH3002P	Physical Pharmaceutics-I	1.42	-	0.67	-	ı	-	-	0.50	-	-	1.42
BPH3003P	Pharmaceutical Microbiology	0.93	-	0.50	-	-	-	-	1.17	-	-	0.83
BPH4001	Pharmaceutical Organic Chemistry – III	0.75	-	0.75	-	-	-	-	-	-	-	0.50

BPH4002	Biochemistry	0.54	1.67	2.67	-	1	-	-		-	1	0.25
BPH4003	Physical Pharmaceutics-II	0.29	-	0.39	-	ı	-	-	ı	-	ı	0.25
BPH4004	Pharmacology-I	2.17	0.00	2.17	-	-	-	-		-	-	0.75
BPH4005	Pharmacognosy-I	1.56	-	0.75	-	-	-	-	-	-	1.50	1.72
BPH4002P	Biochemistry	2.00	-	2.03	-	-	-	-	2.17	-	-	2.00
BPH4003P	Physical Pharmaceutics-II	2.84	-	3.00	-	-	-	-	2.67	-	-	3.00
BPH4004P	Pharmacology-I	1.01	-	0.67	-	-	-	0.67	1.34	-	-	0.17
BPH4005P	Pharmacognosy-I	2.56	-	2.56	2.67	-	-	-	2.34	-	-	-
PH322	Phytochemistry-II	0.50	-	0.58	-	-	-	-	-	-	-	0.38
PH331	Pharmacology-III	0.63	-	0.38	-	-	0.50	-	-	-	-	0.58
PH332	Medicinal chemistry-I	0.15	-	0.00	0.25	-	-	-	-	-	-	0.25
PH333	Pharmaceutical Analysis-I	1.00	-	0.75	-	-	-	-	-	-	-	-
PH334	Pharmaceutical	0.35	0.17	0.13	-	1.00	-	-	-	-	0.63	-
	microbiology and											
	biotechnology											
PH335	Pharmacology-IV	1.31	-	1.38	-	-	1.00	-	-	-	-	1.31
PH336	Medicinal chemistry-II	0.25	-	0.13	-	-	-	-	-	-	-	0.00
PH337	Pharmaceutical Analysis-II	1.00	-	1.17	-	-	-	-	-	-	-	1.50
PH415	Clinical Pharmacy	0.25	-	0.33	-	-	0.67	-	-	-	-	0.25
PH416	Traditional Medicine and	0.60	-	0.67	0.50	-	-	-	-	-	-	0.67
	Herbal drug Technology											
PH417	Pharmaceutical Analysis-III	0.25	0.25	0.25	0.25	1	-	-	1	-	1	-
PH418	Medicinal Chemistry-III	0.08	-	0.08	-	-	-	-	-	-	-	0.17
PH419	Pharmaceutical	0.56	-	0.58	-	-	-	-	-	-	-	0.25
	Technology-II											
PH422	Clinical Pharmacy and	0.56	0.88	0.25	-	-	0.25	0.25	0.25	0.25	-	0.13
	pharmacotherapeutis-II											
PH423	• • •		-	0.28	-	-	-	-	-	-	-	0.56
PH424	PH424 Dosage Form Design		0.17	0.17	0.17	-	0.17	0.17	0.17	-	-	0.17
PH425	PH425 Novel Drug Delivery			0.56	0.17	0.56	0.17	0.17	0.56	-	-	0.17
	System	50	11									
	Total Mapped Courses			49	14	2	6	7	18	4	4	43
Total	l Attainment Value	65.33	6.93	69.66	18.78	1.56	2.76	6.68	25.9	3.19	5.66	49.98
Averag	ge Attainment Value	1.30	0.63	1.42	1.34	0.78	0.46	0.95	1.43	0.79	1.41	1.16



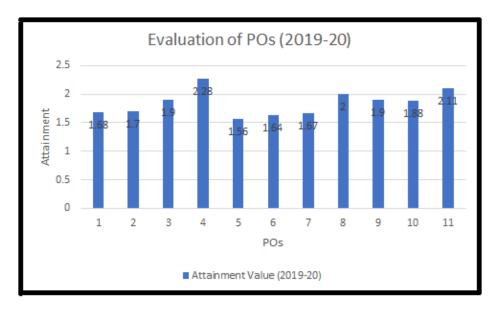
Based on core courses

Summary of PO Attainment for Academic Year 2018-19

Academic Year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
2018-2019	1.5	0.63	1.57	1.34	1.06	1.34	1.58	1.58	1.07	1.56	1.36

Attainment AY 2019-20

Attainment of POs



Attainment of POs for Academic Year 2019-20

Course Code	Name	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
BPH1001	Human Anatomy and	1.13	-	0.67	-	-	-	-	-	-	-	2.67
	Physiology											
BPH1002	Pharmaceutical Analysis	1.38	-	1.38	-	-	-	-	-	-	-	1.25
BPH1003	Pharmaceutics-I	1.00	-	0.75	-	-	1.25	1.75	-	1.25	-	0.75
BPH1004	Pharmaceutical Inorganic	1.10	-	2.33	-	-	2.56	2.67	-	1.56	-	2.67
	Chemistry											
BPH1005	Remedial Biology	3.00	-	-	-	-	-	-	-	-	-	-
HS1001	Communication skills	2.25	1	-	-	-	-	-	2.17			2.25

				1			1		1			
BPH1001P	Human Anatomy and Physiology-I	2.50	-	3.00	-	-	-	-	2.10	-	-	1.90
BPH1002P	Pharmaceutical Analysis-I	3.00	-	2.50	-	-	-	-	0.50	-	-	3.00
BPH1003P	Pharmaceutics-I	3.00	-	2.56	-	-	-	-	2.56	-	-	-
BPH1004P	Pharmaceutical Inorganic Chemistry	2.13	-	1.90	-	-	-	-	1.00	-	-	1.00
HS1001P	Communication skills	-	-	-	-	-	-	-	2.25	-	-	1.75
BPH1005P	Remedial Biology (Practical)*	3.00	-	2.67	-	-	-	-	3.00	-	-	-
BPH2001	Human Anatomy and Physiology – II	1.25	-	1.67	-	-	1.56	1.67	-	1.56	-	1.25
BPH2002	Pharmaceutical organic Chemistry – I	1.34	-	1.28	-	-	-	-	-	-	-	1.17
BPH2003	Pharmaceutical Engineering	1.25	-	1.75	-	-	-	-	-	-	0.75	0.75
BPH2004	Computer Applications in Pharmacy	2.67	-	2.67	2.89	-	-	-	-	-	-	3.00
BPH2001P	Human Anatomy and Physiology-II	3.00	-	2.25	-	-	-	-	2.25	3.00	-	3.00
BPH2002P	Pharmaceutical Organic Chemistry-I	0.75	-	0.50	-	-	-	-	2.67	-	-	2.67
BPH2003P	Pharmaceutical Engineering	3.00	-	3.00	3.00	-	-	-	3.00	-	-	3.00
BPH2004P	Computer Applications in Pharmacy	1.67	-	1.25	2.67	-	-	-	2.67	-	-	3.00
BPH3001	Pharmaceutical Organic Chemistry-II	1.34	-	1.28	-	-	-	-	-	-	-	1.17
BPH3002	Physical Pharmaceutics-I	0.82	-	0.53	-	-	-	-	-	-	-	0.50
BPH3003	Pharmaceutical Microbiology	1.20	1	1.34	1.67	1	-	-	-	-	-	0.50
BPH3004	Pathophysiology	3.00	-	-	-	1	-	-	-	-	-	3.00
BPH3005	Environmental Sciences	1.67	1	-	2.67	-	_	-	-	-	1.84	1.67

		• 00	1.00		1		1	l	l	1		
BPH3001P	Pharmaceutical Organic	2.00	1.00	1.5	-	-	-	-	-	-	-	1.00
	Chemistry-II											
BPH3002P	Physical Pharmaceutics-I	2.01	-	1.84	-	-	-	-	1.17	-	ı	1.67
BPH3003P	Pharmaceutical	2.34	-	2.55	-	-	-	-	2.50	-	-	2.34
	Microbiology											
BPH4001	Pharmaceutical Organic	2.17	-	2.00	-	-	-	-	-	-	-	2.00
	Chemistry – III											
BPH4002	Biochemistry	2.27	-	-	-	-	-	-	-	-	-	2.84
BPH4003	Physical Pharmaceutics – II	2.86	-	2.81	-	-	-	-	-	-	-	-
BPH4004	Pharmacology	1.70	-	1.71	-	-	-	-	-	-	-	1.63
BPH4005	Pharmacognosy	2.21	-	1.50	-	-	-	-	-	-	3.00	1.67
BPH4002P	Biochemistry	3.00	-	2.90	-	-	-	-	2.50	-	-	3.00
BPH4003P	Physical Pharmaceutics-II	2.25	-	2.00	1.50	-	-	-	1.00	-	-	2.25
BPH4004P	Pharmacology-I	1.42	-	0.87	-	-	-	1.34	1.50	-	-	0.34
BPH4005P	Pharmacognosy-I	3.00	-	2.89	3.00	-	-	-	2.67	-	-	-
BPH5001	Medicinal Chemistry-I	0.96	-	0.96	-	-	-	-	-	-	-	-
BPH5002	Industrial Pharmacy – I	0.88	-	0.88	-	-	-	-	-	-	-	0.84
BPH5003	Pharmacology – II	0.42	0.00	0.25	-	-	-	-	-	-	-	0.17
BPH5004	Pharmacognosy – II	1.03	-	0.97	1.50	-	-	-	-	-	-	1.50
BPH5005	Pharmaceutical	0.97	-	1.04	-	-	1.01	1.01	-	0.87	-	0.95
	jurisprudence											
BPH5001P	Medicinal Chemistry-I	2.17	2.17	2.17	2.17	-	-	-	2.17	-	-	-
BPH5002P	Industrial Pharmacy-I	2.34	2.46	1.97	2.45	-	-	-	2.67	2.25	-	2.39
BPH5003P	Pharmacology-II	2.09	1.00	1.92	-	-	-	-	1.25	-	-	2.11
BPH5004P	Pharmacognosy-II	2.92	2.84	2.79	2.89	-	-	-	2.73	-	-	3.00
BPH6001	Medicinal Chemistry – II	2.38	-	2.38	-	-	-	-	-	-	-	2.50
BPH6002	Pharmacology – III	2.50	-	2.50	-	-	-	-	-	-	-	3.00
BPH6003	Herbal Drug and	2.31	-	-	1.70	-	-	-	-	-	-	2.67
	Technology											
BPH6004	Industrial Pharmacy – II	2.56	-	2.92	-	-	-	1.50	-	2.13	-	2.50
BPH6005	Biotechnology	2.40	1	1.63			1.80	1.67	i	1.67		2.40



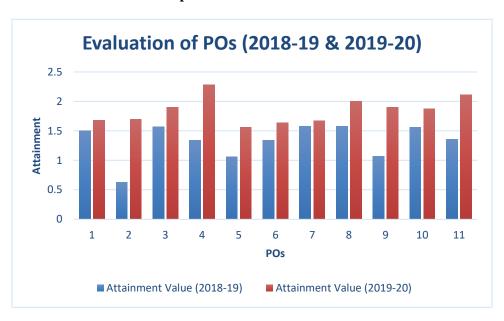
BPH6006	Instrumental Methods of	2.67	-	2.67	-	-	-	-	-	-	-	1.25
	Analysis											
BPH6002P	Pharmacology-III	2.92	2.67	2.83	-	-	-	-	2.50	-	-	2.89
BPH6003P	Herbal Drug Technology	3.00	-	3.00	3.00	-	-	-	-	-	-	3.00
BPH6006P	Instrumental Methods of Analysis	0.94	-	1.15	2.25	-	-	-	2.00	-	-	0.94
PH418	Medicinal Chemistry-III	2.67	-	2.56	-	-	-	-	-	-	-	1.56
PH430	Clinical Pharmacy and pharmacotherapeutis-II	2.67	1.56	1.50	-	-	1.17	1.17	1.56	2.67	-	2.67
PH431	Traditional Medicine and Herbal drug Technology	1.45	-	1.50	1.50	-	-	-	-	-	-	1.42
PH432	Pharmaceutical Analysis-III	2.00	-	1.61	-	-	-	-	-	-	-	1.78
PH433	Pharmaceutical Technology-II	1.84	1.67	1.42	1.67	1.23	-	-	1.67	-	-	1.84
PH425	Novel Drug Delivery System	1.00	-	1.00	-	1.67	-	-	-	-	-	1.25
PH434	Clinical Pharmacy and pharmacotherapeutis-II	1.00	-	1.00	-	-	-	-	-	-	-	1.25
PH435	PH435 Dosage Form Design		-	2.25	-	-	-	-	-	-	-	2.25
PH436	PH436 Medicinal chemistry- IV		-	2.08	-	-	-	-	-	-	-	2.13
Tota	Total Mapped Courses		9	55	16	2	6	8	26	9	3	52
Tota	l Attainment Value	126.08	15.37	101.58	36.53	2.9	9.35	12.78	52.08	16.96	5.59	104.9
Avera	Average Attainment Value			1.88	2.28	1.45	1.55	1.59	2.00	1.88	1.86	2.09

Based on core courses

Summary of PO Attainment for Academic Year 2019-20

Academic Year	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
2019-2020	1.68	1.70	1.90	2.28	1.56	1.64	1.67	2.00	1.90	1.88	2.11

Comparison for POs Attainment



ANNEXURE-II

Faculty of Pharmacy

Attainment Levels for POs and Summary of Actions Identified for Improvement

Target Level	Attainment Level	Observations								
PO1: Pharma	ncy Knowledge: Poss	sess knowledge and comprehension of the core and basic knowledge associated with the profession of								
pharmacy, inc	cluding biomedical s	sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; and								
manufacturing	practices.									
Target Level	Attainment Level	Pharmacy knowledge includes core attributes for pharmacy graduates. Though the attainment level is fairly good, year to year, the attempts were coordinated to consolidate this outcome.								
3	1.68									
3	1.50									
Action 1: Gue	etion 1: Guest lecture of experts from academia and industries are to be arranged on regular basis for each semester of B. Pharm									
pro	program.									
Action 2: Stud	Action 2: Students to be encouraged for participation in seminar/workshops/conferences and technical events organized within campus as									
wei	ll as outside Universit	ty. Students participated in various competitions like poster presentation, model preparation and								
tec	hnical quizzes.									
Action 3:Stud	ents are to be trained	for Prescription audit as a part of clinical pharmacy practice course								
Action 4: Visi	t to blood bank is to b	be arranged to learn the process of separation of various components from blood.								
		ination is planned to aspiring students.								
PO2: Plannin	g Abilities: Demons	trate effective planning abilities including time management, resource management, delegation skills								
		nd implement plans and organize work to meet deadlines.								
Target Level	Attainment Level	Planning is vital to get success. Though it can't be taught directly, continuous efforts are needed.								
3	1.70									
3	0.63									
Action 1: Stud	dents are to be motiva	tted for their active involvement in technical, co-curricular and extracurricular activities at institute and								
Un	iversity levels.									
	Level PO1: Pharma pharmacy, incommanufacturing Target Level 3 Action 1: Gue pro Action 2: Stud we tec Action 3:Stud Action 4: Visit Action 5: Train and organizati Target Level 3 3 Action 1: Stud	PO1: Pharmacy Knowledge: Possipharmacy, including biomedical signature in the program and facturing practices. Target Level Attainment Level 3 1.68 3 1.50 Action 1: Guest lecture of experts for program. Action 2: Students to be encouraged well as outside Universite technical quizzes. Action 3: Students are to be trained Action 4: Visit to blood bank is to be Action 5: Training for GPAT exam PO2: Planning Abilities: Demons and organizational skills. Develop a Target Level 3 1.70 3 0.63								



	Action 2: In	stitute to facilitate org	ganization of various events wherein students are supposed to plan and co-ordinate the activities. The
		_	lay, annual day, AVALANCHE – a PharmaTechFest, PHARMABATTLE – a Pharma Cricket
			its are handled completely by the students.
			ructed for planning their experiments during practical sessions in a manner so that there is optimal
			repared during practical as samples or ingredient for the subsequent practical.
		<u> </u>	the principles of scientific enquiry, thinking analytically, clearly and critically, while solving problems
		•	practice. Find, analyze, evaluate and apply information systematically and shall make defensible
	decisions.	decisions during dairy	practice. Thid, analyze, evaluate and apply information systematically and shall make defensione
	Target	Attainment Level	It is expected that graduates from professional courses must be able to solve technical and field
PO3	Level		related issues.
2019-20	3	1.90	
2018-19	3	1.57	
	Action 1: Stu	idents are to be involv	ed in many decision making committee like human resource and development cell for students.
	Action 2: Stu	idents are to be involve	ed in e-newsletter publication of RPCP and Students' Magazine of CHARUSAT.
	Action 3: Int	roduction of the course	e on creativity problem solving and innovation.
	PO4: Moder	rn tool usage: Learn	, select, and apply appropriate methods and procedures, resources, and modern pharmacy-related
	computing to	ols with an understand	ing of the limitations.
PO4	Target	Attainment Level	The knowledge of constructing, obtaining and using tool is technology. Sharing of information
104	Level		through paper records and traditional method of teaching is now replaced with modern technology
2019-20	3	2.28	which positively affects the students' care, improvement in outcomes.
2018-19	3	1.34	
			ed their blogs by which students would be benefited for material, their queries can be solved.
	Action 2: Fa	culty members are to	be encouraged to use platform such as Edmodo® for being connected with the learners and can give
	as	signment, schedule qui	izzes and manage progress of learning.
	Action 3: Fac	culty members have to	create their websites
	Action 4: Fac	culty members may use	e interactive pad for teaching sessions.
			n: Tablets are being used for conducting the examinations based on multiple choice questions,
	as	signments etc. This ma	ay be extended.
	Action 6: So	oftware based practical	s are conducted in the courses of pharmacology, medicinal chemistry and pharmaceutics.
		-	nd and consider the human reaction to change, motivation issues, leadership and team-building when llment of practice, professional and societal responsibilities. Assume participatory roles as responsible
	Piuming Chai	iges required for fulfil	intent of practice, professional and societal responsionates. Assume participatory roles as responsible



	citizens or lea	adership roles when ap	propriate to facilitate improvement in health and well-being.
PO5	Target	Attainment Level	Leadership is a quality which cannot be acquired by any person from the other but it can be acquired
103	Level		by self-determination of a person. Leadership can best be called the personality of the very highest
2019-20	3	1.56	ability-whether in ruling, thinking, imagining, innovation, warring, or religious influencing.
2018-19	3	1.06	
	Action 1: St	udents' Council is cor	stituted by scheduling an election. Nominees do canvassing before election of class representatives.
	Th	ne activities to be taker	n up to participate students' council.
	Action 2: Stu	idents from each class	of B. Pharm program should participate in NSS activities.
	Action 3: Cla	ass representatives are	to be advised to take the responsibility of coordination with class for various Institutional activities.
	Action 4: Ted	chnical events to be or	ganized at institute may require active students participation in organization.
	Action 5: Stu	idents are to be encour	raged to contribute in Students' Magazine - The QUILL., e-newsletter "Pharmaphore U". Students get
	op	portunities to enhance	their creativities, team work and leadership skills through this activity.
	PO6: Profes	sional Identity: Unde	erstand, analyze and communicate the value of their professional roles in society (e.g. health care
		, promoters of health, e	educators, managers, employers, employees).
PO6	Target	Attainment Level	Students' professional identity formation is important for enabling the successful transition between
	Level		academic education and professional practice. Recognition of this resulted in significant changes in
2019-20	3	1.64	profession education
2018-19	3	1.34	
		- C	ous pharmacy events such as national pharmacy week, pharmacist day celebration, teachers' day
			wareness programs for communicating the role of pharma professionals in the society. The extent may
		e increased.	
			al festival like AVALANCHE organized by college which involves various events like pharma
		• • •	ntation, marketing where students actively participated. Such events may be organized with active
	_	rticipation from the stu	
			inar and workshop are to be conducted.
		•	onal personnel are to be organized to impart knowledge to students.
			idents in Pharma elocution competition at state and national level is to be ensured.
			ed national level competitive examinations may provide guidance and motivation to the students.
			nour personal values and apply ethical principles in professional and social contexts. Demonstrate
		•	ad personal variability in values, communication and lifestyles. Use ethical frameworks; apply ethical
	principles wh	ille making decisions a	nd take responsibility for the outcomes associated with the decisions.

Target	Attainment Level	There is hardly any course targets ethics in pharmaceutical ethics. It has to be imbibe indirectly by
Level		following actions
3	1.67	
3	1.58	
Action 1: Dis	ssemination of Pharma	cists' Oath.
Action 2: Exp	perts from pharmaceut	ical regulatory agency are to be invited to deliver talk and share their field-experience.
Action 3: Vis	sit to Food and Drug L	aboratory has to be arranged.
Action 4: Info	ormation about approv	al of IAEC for proper and ethical use and handling of animals is to be shared with students.
Action 5: Stu	dents are to be taught	about formulation audit, literature (Leaflet) audit, prescription audit and errors.
Action 6: Stu	dents are to be instruc	ted about the penalties in case of unfair means observed during examinations.
Action 7: Co	urses like Values and I	Ethics is to be taught to students and plagiarism in academics is to be incorporated.
PO8: Comm	unication: Communi	cate effectively with the pharmacy community and with society at large, such as, being able to
comprehend a	and write effective repo	orts, make effective presentations and documentation, and give and receive clear instructions.
Target	Attainment Level	It is perhaps the most significant tool to impress the findings. The graduates are expected for being
Level		thorough in inter-personal communication ability. Though course is incorporated in syllabus but by
3	2.00	looking at below average attainment level, extra efforts were undertaken.
3	1.58	
		aged for participation in essay competition, technical events like poster presentation, model making.
		anchoring and hosting the functions.
Action 2: Ac	ademy for Graduate A	admissions and Competitive Examinations (AGACE) has established at CHARUSAT. The objectives
of	the academy primar	ily include providing overall guidance, quality assistance or coaching to aspiring immigrants of
CI	HARUSAT to enhance	their career prospects. The students may take advantage of this initiative.
PO9: The Pl	narmacist and society	v: Apply reasoning informed by the contextual knowledge to assess societal, health, safety and legal
	=	ilities relevant to the professional pharmacy practice.
Target	Attainment Level	Pharmacists are an integral component in healthcare systems. Students must realize their probable
Level		role in societal actions as pharmacist. These can't only be taught in class. Instead, it is felt that extra
3	1.90	efforts are needed.
3	1.07	
		health awareness program, blood donation camp, cleanliness program, organ donation rally etc are to
be	organized in collabora	ation with EOC, NSS units.
	Action 1: Dis Action 2: Exp Action 3: Vis Action 4: Info Action 5: Stu Action 6: Stu Action 7: Cor PO8: Comm comprehend a Target Level 3 Action 1: Stu Str Action 2: Action 6: Stu Comprehend a Target Level 3 Action 1: Stu Str Action 2: Action 3: Action 3: Action 3: Cor	Action 1: Dissemination of Pharma Action 2: Experts from pharmaceut. Action 3: Visit to Food and Drug L. Action 4: Information about approv. Action 5: Students are to be taught. Action 6: Students are to be instruct. Action 7: Courses like Values and I. PO8: Communication: Communicomprehend and write effective report. Target Attainment Level. 3 2.00 3 1.58 Action 1: Student are to be encour. Students are involved in. Action 2: Academy for Graduate A. of the academy primar. CHARUSAT to enhance. PO9: The Pharmacist and society issues and the consequent responsib. Target Attainment Level. 4 1.90 3 1.07 Action 1: Community services like.

	Action 2: He	alth check-up of stude	nts and staff is organized every year. This has to be kept as regular practice.								
	Action 3: U1	nder the Cell for Prev	vention of Sexual Harassment (CPSH), awareness program are to be organized to educate the girl								
	stı	udents on the campus a	about the legal and safety issues like self-defence etc.								
	Action 4: St	udents participate in	various activities of CHARUSAT Rural Education Development Program (CREDP). CREDP cell								
	or	ganizes education enr	richment activities like training programs, tests, competitions for students, workshops & seminars,								
	career counselling programs, awareness and motivational programs, exhibitions, school visit, school survey, etc. This continued.										
	PO10: Envir	onment and sustaina	ability: Understand the impact of the professional pharmacy solutions in societal and environmental								
	contexts, and	demonstrate the know	ledge of, and need for sustainable development.								
PO10	Target	Attainment Level	There must be a committee which look upon the recommendations on environmental issues, and shall								
	Level		generally, investigate, promote, advise, recommend, and assist in the implementation of measures								
2019-20	3	1.88	that will improve the quality of life, the livability, and the working environment for the residents,								
2018-19	3	1.56	visitors and businesses through the integration of the principles of sustainability and sound								
			environmental practice to all municipal functions and operations, as established by the Environment								
_			& Sustainability Committee Terms of Reference.								
			d towards Waste Management through environmentally sustainable technologies.								
	_	•	opted at various stages. IT enabled examination system is to be set.								
			o be installed in laboratory.								
			ed about chemical hazards with the help of fire and chemical safety charts available in laboratory.								
			ned to minimize /rationalized the usage of animals.								
			al science is part of the curriculum. There is a need of practice based course on environment.								
			like Indroda park, Gandhinagar is to be planned.								
		0 0	ize the need for, and have the preparation and ability to engage in independent and life-long learning in								
		_	al change. Self-assess and use feedback effectively from others to identify learning needs and to satisfy								
		n an ongoing basis.									
PO11	Target	Attainment Level	Students are found to be average performer in self-learning.								
	Level										
2019-20	3	2.11									
2018-19	3	1.36									
		•	our (Expo/blood bank visit, hospital and pharmacy visit), herbal garden visit were arranged, and to be								
	co	ntinued.									



Action:3: Enhancement of the practical skills of the students, a "SUMMER SCHOOL" program is started for 3-4 week for RPCP students. This programme may be popularized and scope is created for more students.

Action 4: Feedback from employer is to be shared with the students for identifying their learning needs.

Action 5: Industry academia meets are organized, which has to be continued.

Action 6: Availability of life learning, motivational, inspirational books in library facilitated through library slot in time table. Possibility of increase in library utilization is to be explored.

Action 7: Spiritual lectures are arranged regularly.

Action 8: A robust system of student counseling is in place. This is to be continued.

Action 9: A course on creativity, problem solving and innovation is offered. This course may help the students.



ANNEXURE-I

Charotar University of Science and Technology [CHARUSAT] Faculty of Technology and Engineering [FTE] Chandubhai S. Patel Institute of Technology [CSPIT] Department of Mechanical Engineering (Year 2019-20- Even Semester)

Attainment of POs

Sr.		Course	PO	PS	PS											
No.	Course Name	Code	1	2	3	4	5	6	7	8	9	10	11	12	01	O2
1	Numerical and Statistical Methods	MA248	1.5	1.5	1.3	1.7	1.5	0.7	0.8	-	-	-	0.8	1.5		
2	Manufacturing Processes-II	ME 245	0.9	0.3	-	-	-	-	-	-	-	-	-	1.3	-	1.4
3	Material Engineering & Metallurgy	ME 246	2.2	1.7	2.0	2.0	1.8	1.2	1.3	-	1.3	-	-	1.5	2.0	
4	Fluid Mechanics	ME247	2.2	1.3	0.8	-	-	-	-	•	-	-	•	•	1.5	
5	Dynamics of Machines	ME 248	1.5	1.8	1.8	1.5	1.0	-	-	-	0.9	-	-	1.3	1.3	
6	Design of Machine Elements-I	ME 347	3.0	3.0	2.8	2.5	2.3	2.3	-	-	3.0	-	-	3.0	3.0	
7	Refrigeration & Air Conditioning	ME344	2.2	2.0	1.6	0.8	-	-	-	•	0.8	-	•	1.5	0.8	
8	Fluid Machines	ME 346	2.3	1.9	-	-	-	-	-	•	-	-	•	•	0.7	
9	Production Technology	ME 348	1.6	1.5	-	-	-	-	-	ı	-		•	0.9	•	2.6
10	Finite Element Methods	ME372.01	2.5	2.1	2.1	2.1	1.4	-	-	•	-	-	•	-	2.9	
11	Automobile Engineering	ME374	2.0	•	1.8	1.3	1.3	1.6	-	•	-	-	•	2.4	1.3	
12	Advanced Materials	ME375	1.3	•	1.0	-	0.8	-	0.5	•	-	-	•	•	•	0.5
13	Mechanical Measurement & Metrology	ME 345	2.7	2.7	-	3.0	2.2	1.7	-	•	-	-	•	2.7	1.8	
14	POWER PLANT ENGINEERING	ME447	2.3	2.8	0.6	0.8	-	1.9	1.9	-	-	-	-	-	0.9	-
15	COMPUTER AIDED MANUFACTURING	ME448	1.8	0.9	0.9	0.9	0.8	0.4	-	0.6	1.0	-	•	1.4	1	1.3
16	INDUSTRIAL ENGINEERING &	NATE 440	2.0	2.0	2.0		2.0	2.0	2.0	1.0	1.0	1.5	2.0	2.0	1.0	1.0
15	MANAGEMENT	ME449	3.0	2.0	2.0	-	2.0	3.0	2.0	1.9	1.9	1.5	3.0	3.0	1.0	1.0
17	CONTROL ENGINEERING	ME 450	2.6	2.2	2.2	1.2	1.2	1.1	-	-	1.3	-	1.0	2.0	1.8	
18	OPTIMIZATION TECHNIQUES	ME477	1.9	1.3	1.1	0.9	2.0	0.8	0.8	-	1.1	0.9	-	2.0	1.5	1.3



19	INDUSTRIAL TRIBOLOGY	ME 478	2.4	1.0	1.8	_	_	_	_	_	_	_	_	_	1.9	-
20	ADVANCED MANUFACTURING															
	TECHNOLOGY	ME-480	1.4	1.2	1.3	1.3	1.3	0.8	0.8	-	1.3	0.4	-	0.8	-	1.3
21	COMPUTATIONAL FLUID DYNAMICS	ME481	3.0	2.0	-	-	-	-	-	-	-	•	•	•	2.3	
22	Major Project-2	ME451	1.0	3.0	3.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0
	Total Attainment		2.0	1.7	1.6	1.5	1.5	1.4	1.2	1.5	1.6	1.4	1.8	1.7	1.7	1.5

ANNEXURE-II

Charotar University of Science and Technology [CHARUSAT] Faculty of Technology and Engineering [FTE] Chandubhai S. Patel Institute of Technology [CSPIT] Department of Mechanical Engineering (Year 2019-20- Even Semester) Analysis and Action to be taken

POs	Target Value	Attainment Level	Observation
	luates will demonstrat ion to solve complex e	0	ring fundamentals, mathematics, science and engineering
PO1	2	2	 Target Achieve but some students are not integrating the basic science and mathematics for the solution of a complex problems Some diploma students find difficulties to solve numericals.
Action1: A	Additional class has con-	ducted for students to correla	ate basic of science with engineering subject.
Atotion2: N	Aora problem will be gi	van for practica	
Attuonz. N	More problem will be gi	veil for practice.	
PO2:Grad	uates will exhibit the	ability to design, identify,	, analyze and solve problems related to mathematics, science an
engineerin			
		1.7	Students find difficulty to analyze and solve problem-related to engineering.
engineerin	g.	1.7	engineering.Lateral entry students find difficult to implement basic
engineerin PO2	g. 2		engineering.
PO2 Action1: A	g. 2 dditional class of engine	eering mathematics has cond	 engineering. Lateral entry students find difficult to implement basic mathematics in engineering subject. lucted for lateral entry students.
PO2 Action1: A	g. 2 dditional class of engine	eering mathematics has cond	 engineering. Lateral entry students find difficult to implement basic mathematics in engineering subject.
PO2 Action1: A Action2: N	2 dditional class of engine	eering mathematics has conduring the regular classes whi	 engineering. Lateral entry students find difficult to implement basic mathematics in engineering subject. lucted for lateral entry students.
PO2 Action1: A Action2: N Action 3: T	g. 2 dditional class of engine Numerical incorporate de	eering mathematics has conduring the regular classes whi	engineering. • Lateral entry students find difficult to implement basic mathematics in engineering subject. lucted for lateral entry students. ch can help the students to analyze and to solve. the students as a part of assignment.
PO2 Action1: A Action2: N Action 3: T PO3: Grad	dditional class of engine Sumerical incorporate de To enhance the skill more duates will exhibit the	eering mathematics has conduring the regular classes whire problems will be given to ability to design, solve and	engineering. • Lateral entry students find difficult to implement basic mathematics in engineering subject. lucted for lateral entry students. ch can help the students to analyze and to solve.

	duates will demorate valid conclusion	·	nd conduct experiments, analyze and interpret data through simulations
PO4	2	1.5	• Students are not able to explain the valid conclusions for the numerical.
Action1: T disadvanta		orrelate the numerical with	practical problem and explain them to identify the advantage and
Action2:R	evision of course of	outcomes for the courses.	
			odern methods of engineering, software tools, high-tech equipments and
facilities to	o solve various pr	oblems.	
PO5	2	1.5	Few students are not aware about different modern tools.
Action1: fa	aculties have devel	loped their blogs and goog!	le class to solve query of students.
society.			
PO6	2	1.4	Lack of knowledge about professional skill.
			Lack of knowledge about professional skill. put more effort serve society.
Action1: R	 Revision of course of	outcomes for the courses to nstrate ability to provide	
Action1: R PO7: Gra environme	Revision of course of duates will demorental sustainabilit	outcomes for the courses to nstrate ability to provide ty.	professional engineering solution in the contents of societal and Students are not exposed to a multi-disciplinary problem relat to engineering.
Action1: R PO7: Gra environme	Revision of course of duates will demorental sustainabilit	outcomes for the courses to nstrate ability to provide j ty.	professional engineering solution in the contents of societal and Students are not exposed to a multi-disciplinary problem relat to engineering.
Action1: R PO7: Graenvironme PO7 Action1: P	Revision of course of duates will demorental sustainabilit 2 Project works are line	outcomes for the courses to nstrate ability to provide ty.	professional engineering solution in the contents of societal and Students are not exposed to a multi-disciplinary problem relat to engineering. ent and sustainability.

PO9	2	1.6	 Some students are not participate in group activity.
	broup activity based evaluation.	d presentation has been arr	ranged by different courses and consider it as a part of assessment method for
PO10: Gr manageria		fective in formal and info	ormal communication in both verbal and written form and develop
PO10	2	1.4	Few students are not up to mark in communication skill.
Action1: F	evision of course of	outcomes and change in pe	edagogy for different courses Action2: try to make interactive doubt solving
session	aduates will demo		edagogy for different courses Action2: try to make interactive doubt solving rk on multi-disciplinary problems through engineering and management
session PO11: Gr	aduates will demo		
PO11: Gr principles	aduates will demo	onstrate the ability to wo	rk on multi-disciplinary problems through engineering and management • Few students do not know about management-related principle
PO11: Gr principles PO11 Action1: S	2 tudents are encour	onstrate the ability to wor	Few students do not know about management-related principle dustry-oriented project
PO11: Gr principles PO11 Action1: S Action2: A	2 tudents are encourassignments are given	1.8 aged to collaborate for indven on project managemen	Few students do not know about management-related principle dustry-oriented project

	PSO1: The mechanical engineering graduates will be able to analyze, design, and evaluate the performance of mechanical components and systems by using various technological tools.									
PSO1	2	1.7	Few students find difficulty related to solution of design and evaluate the real life problem.							
Action1: 0	Course outcomes a	and pedagogy of few course	es are revised.							
	_	ineering graduates will be and process automation.	e able to plan and manufacture mechanical components and systems, including							

PSO2	2	1.5	Student finding difficulty to implement the hand on session on
			manufacturing of components
Action1: N	Motivate the student to de	eveloped project related to th	e mechanical system.

ANNEXURE-I

Charotar University of Science and Technology [CHARUSAT] Faculty of Technology and Engineering [FTE] Chandubhai S. Patel Institute of Technology [CSPIT] U & P U. Patel Department of Computer Engineering (Year 2019-2020 Even Semester) PO & PSO Attainment

Sr. No.	Course Name	Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	Object Oriented Programming with C++	CE144	1.90	1.44	1.83	0.83	2.20	1.17	1.22	-	0.92	-	1.33	1.52	1.58	0.89
2	Engineering Mathematics-II	MA144	2.43	1.55	0.94	1.50	1.00	1.00	1.00	1	-	1	-	1	2.28	1.00
3	Elements of Engineering	ME145	2.15	2.00	-	1	ı	3.00	-	ı	1	1	-	1	ı	-
4	Engineering Physics	PY141.01	2.63	2.63	1.75	1.97	2.19	-	-	1	1	1	-	-	-	-
5	Communication Skills - I	HS126.01A	-	-	-	1	1	1.75	-	1.67	1.75	2.60	-	1.00	1	1.60
6	Data Structure and Algorithms	CE245	1.80	1.81	2.10	1.79	1.20	ı	-	1	-	ı	-	1.78	2.05	-
7	Database Management System	CE246	2.35	2.35	1.84	1.86	1.60	1.18	0.95	1.77	1.45	0.87	-	1.80	1.84	1.30
8	Web Technologies	CE247	2.28	2.11	2.56	1.11	2.61	2.00	-	1.60	1.72	ı	1.72	1.80	2.60	2.11
9	Operating System	CE248	2.79	1.90	-	1	1.86	ı	-	ı	1	1	-	0.92	ı	0.95
10	Computer Organization	CE256	1.97	2.20	2.22	0.89	1	-	-	0.74	0.74	1	-	0.67	1.61	-
11	Software Group Project - II	CE255	3.00	2.50	2.00	1.50	2.50	1.50	-	2.75	1.92	3.00	-	1.00	3.00	-
12	Creativity, Innovation and Problem Solving	HS133A	2.25	1.00	1.75	1.00	1.00	2.67	2.67	2.00	1.50	2.00	2.50	2.25	-	1.00
13	Internals of Operating System	CE347	1.61	0.86	2.01	1.24	1.92	1.00	-	0.83	-	ı	-	1	1.28	1.68
14	Information Security	CE348	1.63	1.79	2.46	1.47	2.18	1.04	1.70	1.36	1.17	0.86	1.67	1	1.81	1.13
15	Theory of Computation	CE349	1.95	1.21	1.54	1	ı	ı	-	ı	1	1	-	1	1.73	-
16	Data Warehouse and Data Mining	CE350	1.60	1.56	1.91	2.24	2.02	0.86	1.21	ı	1	1	-	1.39	1.21	1.81
17	Digital Image Processing	CE375	2.25	2.43	1.97	1.97	1.97	3.00	2.00	ı	1	1	-	0.92	1.00	0.86
18	Programming in Python	CE376	2.31	2.16	1.62	1.25	2.69	-	-	-	-	-	-	1.00	1.65	1.18
19	Software Group Project - III	CE351	3.00	2.50	1.50	2.00	2.00	1.00	-	3.00	2.00	3.00	1.00	2.33	2.00	-
20	Contributor Personality Development	HS134A	-	-	2.00	-	-	1.67	2.00	2.00	3.00	1.00	2.00	1.00	1.00	3.00

21	Software Project Major	CE447	2.50	2.00	1.80	1.50	2.00	3.00	1.50	3.00	1.67	2.00	1.25	1.60	2.00	1.83
	Overa	ıll Attainment	2.23	1.90	1.88	1.51	1.93	1.72	1.58	1.88	1.62	1.92	1.64	1.40	1.79	1.45

ANNEXURE-II

Charotar University of Science and Technology [CHARUSAT]

Faculty of Technology and Engineering [FTE]

Chandubhai S. Patel Institute of Technology [CSPIT]

U & P U. Patel Department of Computer Engineering (Year 2019-2020 Even Semester)

Analysis and Action to be taken

POs	Target Level	Attainment Level	Observation		
PO1:	Engineering kno	owledge: Apply know	ledge of mathematics, science, engineering fundamentals, and		
	an engineering specialization to the solution of complex engineering problems.				
PO1	1.5	2.23	> Target achieved		
			A minority percentage of students, mainly diploma		
			students, struggled with basic mathematical calculations.		
PO2:	Problem analys	is: Identify, formulate,	, review research literature, and analyze complex engineering		
	problems reaching	ng substantiated conclu	usions using first principles of mathematics, natural sciences,		
	and engineering				
PO2	1.5	1.90	Target achieved		
			Few students struggle with engineering problem		
			analysis.		
PO3:	Design/development of solutions: Design solutions for complex engineering problems and design				
			neet specified needs with appropriate consideration for public		
	<u>, </u>		etal, and environmental considerations.		
PO3	1.5	1.88	> Target achieved		
			➤ However, optimal solution design is not carried out by		
			students		
PO4:	Conduct investi	gations of complex pr	oblems: Use research-based knowledge and research methods		
	including design	of experiments, analys	sis and interpretation of data, and synthesis of the information		
	to provide valid	conclusions.	·		
PO4	1.5	1.51	> Target achieved		
			Research exposer		
Action-	I				
PO5:	Modern tool u	sage: Create, select,	and apply appropriate techniques, resources, and modern		
	0	0 1	liction and modeling to complex engineering activities with an		
	understanding of	the limitations.			
PO5	1.5	1.93	> Target achieved		
Action-	Action-1: Faculties will be advices to introduce modern tools and technology presentation in laboratory				
	sessions				
1	~ - ~ ~ - ~ - ~				

PO6:	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal,					
	health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional					
	engineering practice.					
PO6	1.5	1.72	➤ Target achieved, however focus on humanity course will be increased.			
PO7:	Environment an	nd sustainability: Und	lerstand the impact of the professional engineering solutions in			
	societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable					
	development.					
PO7	1.5	1.58	> Target achieved			
PO8:	Ethics: Apply et	hical principles and co	ommit to professional ethics and responsibilities and norms of			
	the engineering p	oractice.				
PO8	1.5	1.88	> Target achieved			
Action-	1: Work should	be evaluated after che	cking plagiarism.			
PO9:			n effectively as an individual, and as a member or leader in			
	diverse teams, an	d in multidisciplinary	settings.			
PO9	1.5	1.62	> Target achieved			
Action-	1: Team work o	riented Group project	will be offered.			
PO10:	Communication	: Communicate effect	cively on complex engineering activities with the engineering			
			such as being able to comprehend and write effective reports			
DO10			ive presentations, and give and receive clear instructions.			
PO10	1.5	1.92	➤ Target achieved			
PO11:	Project manage	ment and finance: D	Demonstrate knowledge and understanding of the engineering			
and management principles and apply these to one's own work, as a member and leader in a team, to						
	manage projects and in multidisciplinary environments.					
PO11	1.5	1.64	> Target achieved			
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in						
	_	_	ne broadest context of technological change.			
PO12	1.5	1.4	> Target is missed			
Action-	Action-1: Derive method to incorporate lifelong learning into curriculum.					

PSOs	Target Level	Attainment Level	Observation		
PSO1:	Apply good an computational pr	•	implementation skills required to formulate and solve		
PSO1	1.5	1.79	> Target achieved		
PSO2:	PSO2: Excellent adaptability to function in a multi-disciplinary work environment, good interpersonal skill				

[Type text]

in appreciation of professional ethics and societal responsibilities.					
PSO2	1.5	1.45	Target is missed		
Action-1: Multidisciplinary project will be offered.					