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Approved by the All India Council of Technical Education (AICTE) & Pharmacy Council of India (PCI), New Delhi

RESEARCH AND DEVELOPMENT

The contribution of faculty towards research including international/national publications, citations and Ph.D guidance during the assessment years is presented in the following.

ACADEMIC RESEARCH

a) Research papers and books/books chapters published by the faculties in the assessment years

Table: Total number of International and National publications in indexed journals published by the faculties in the assessment years.

Year	National	International	Total
2018-19	13	00	13
2019-20	09	02	11
2020-21	07	15	22
TOTAL	29	17	46





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Table: Publications with citations by the faculties in the assessment years

Sr.	Name of Faculty	Total no of	Publications in the	Total numbers of
No		Publications	assessment years (2018-	Citations
			2021)	
1.	Dr. Shrenik K. Shah	12	07	06
2.	Dr. Ankit B. Chaudhary	48	12	205
3.	Dr. Dhaval J. Patel	27	08	297
4.	Dr. Kaushik B. Kanada	09	07	02
5.	Dr. Sanjeshkumar G. Rathi	30	15	156
6.	Dr. Ritu D. Patel	06	02	20
7.	Dr. Navneet F. Chauhan	03	- 01	03
8.	Ms. Shweta M. Bhadani	14	00	28
9.	Mr Sandip N. Badeliya	07	05	05
10.	Ms. Jigna T. Patel	04	04	00
11.	Ms. Charmy D. Pandya	04	02	00
12.	Mr. Ravi. R Thakar	03	03	00
13.	Dr. Jinal L. Chaudhary	01	01	00
14.	Ms. Sejal D. Patel	02	02	00
15.	Ms. Dipal M. Patel	06	02	23
16.	Mr. Sohansinh S. Vaghela	04	04	00
17.	Ms.Bhoomi D. Patel	10	07	16
18.	Dr. Maulik D. Vaja	05	02	87
19.	Dr. Madhuri Pandole	03	00	00
20.	Ms. Sainika H Kanzaria	02	00	00
21.	Ms. Sneha P Dave	01	00	00
22.	Ms. Tinkal R. Patel	02	01	01



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Table: Book/Book Chapters published by the faculty members

Title of the book	Author	Year of Publication	ISBN
Pharmaceutical Microbiology Laboratory Manual	Dr. Dhaval Patel, Dr Sanjesh Rathi, Dr Ankit Chaudhary	2019	97815-43343-40-3 S.Vikas And Company (Medical Publishers), PV BOOKS
Physical pharmaceutics- II Practical Lab Manual	Dr Sanjesh Rathi, Dr Dhaval Patel, Mr Sohansinh Vaghela, Dr Ankit Chaudhary	2019	97815-43343-71-7 S.Vikas And Company (Medical Publishers), PV BOOKS
Concise course in Pharmaceutical Microbiology	Dr Sanjesh Rathi, Dr Maulik D Vaja, Sohansinh Vaghela, Dr Ankit Chaudhary	2020	97815-43343-89-2 S.Vikas And Company (Medical Publishers), PV BOOKS
The Elementary Manual of Medicinal Chemistry-III	Dr Sanjesh Rathi, Dr Maulik D Vaja, Ms Charmy D Pandya, Dr Ankit Chaudhary, Dr. Asim K Mishra	2020	978-81-945701-03 Read-on publishers Doonville Publishers Private Limited, New Delhi, India.
Pharmaceutical Organic Chemistry-I	Dr. Maulik D Vaja, Dr. Asim K Mishra	2020	978-81-945701-58 Read-on publishers Doonville Publishers Private Limited, New Delhi, India.
Laboratory Manual of Human Anatomy and Physiology-I	Dr Sanjeshkumar G. Rathi, Dr. Jinal L. Chaudhary, Ravi R. Thakar	2020	97815-43344-27-1 S. Vikas and Company, Medical Publisher, (Pee Vee Books)
Lab Manual of Pharmaceutical Quality Assurance - II	Dr. Maulik D Vaja, Bhoomi D. Patel, Dr. Ankit B. Chaudhary	2020	978-15-43344-26-4 S. Vikas and Company, Medical Publisher, (Pee Vee Books)
Laboratory Manual of Herbal Drug Technology	Dr Sanjeshkumar G. Rathi, Sneha P. Dave, Dr. Kaushik B. Kanada	2020	978-15-43344-30-1 S. Vikas and Company, Medical Publisher, (Pee Vee Books)
Laboratory Manual of Pharmaceutical Analysis	Dr Sanjeshkumar G. Rathi, Jigna T. Patel, Bhoomi D. Patel, Dr. Ankit B. Chaudhary	2020	978-15-43344-29-5 S. Vikas and Company, Medical Publisher, (Pee Vee Books)
Laboratory Manual of Pharmacognosy and Phytochemsitry-II	Dr Sanjeshkumar G. Rathi, Sneha P. Dave, Dr. Kaushik B. Kanada	2020	978-15-43344-28-1 S. Vikas and Company, Medical Publisher, (Pee Vee Books)



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Novel Drug Delivery	Dr Sanjeshkumar G.	2020	978-81-951179-4-9
System (NDDS)	Rathi, Dr. Maulik D.		Sathya Publisher, Tamil
	Vaja, Sohansinh S.		Nadu, India.
	Vaghela		

Table: Patents published by Faculty members

Sr No	Patent	Author	Date of Publication
1	Furosemide nanosuspension (Granted)	Dhaval J. Patel, Mr.	26.06.2019
		Agrawal Milan	
2	Lozenge	Dhaval J. Patel,	30.08.2018
		Mr. Nisarg R Bhatt	
3	Stable pharmaceutical composition	Dhaval J. Patel,	10.04.2019
	comprising Entacopone	Ms. Arti J. Parekh	

Table: Faculties membership with professional bodies

Sr. No	Name of Faculty	Membership with Professional Body
1	Dr. S. K. Shah	(IPA) GUJ/AHM/LM/0389, (GSPTA) LM-320, (APTI) GU/LM-083, (IPGA) LM-4100, (IPA) GUJ/AHM/LM/0389
2	Dr. Ankit B. Chaudhary	(APTI) GU-LM-204
3	Dr. Dhaval J. Patel	(APTI) GU/LM-315
4	Dr. Kaushik B. Kanada	(APTI) GU/LM/425, Society of Pharmacognosy – ISP/LM-GJ/060, (GSPTA) GPTA-LM00199
5	Dr. Sanjesh G. Rathi	(APTI)GU/LM-353
6	Dr. Navneet F. Chauhan	(APTI) ASSN-629.
7	Dr. Maulik D. Vaja	(APTI) GU/LM-597, (APP) APP/GJ/LM-090/19, (ACS) 30793671, (MRSC) 546880
9	Ms. Jigna T. Patel	(IPGA) LM3650,



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		(APP) GJLM093/19
10	Ms. Sainika H. Kanzaria	IACS (International academy of cardiovascular science)
11	Ms. Sneha P. Dave	Society of Pharmacognosy – ISP/LM-GJ/S
12	Mr. Ravi R. Thakar	LASA (laboratory Animal Science Association)
13	Ms.Bhoomi D. Patel	(ACS) 32340709





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SPONSORED RESEARCH

Table: Summary of the research projects sanctioned in details project title, funding agency, amount and duration

Sr No	Year	Name of Faculty	Title	Funding	Sanction
				Agency	Amount
1	2021	Dr. Maulik D.	Preparation of sugar-free	SSIP-LMCP	35000/-
		Vaja, Dr. Ankit	products at low price from		
		B. Chaudhary	Stevia plant		
2	2020	Dr. Maulik D.	Synthesis of key	SSIP-LMCP	100000/-
		Vaja, Dr. Ankit	intermediate of allopurinol		
		B. Chaudhary	using new route		
3	2020	Mr. Ravi R.	Polyherbal formulation for	SSIP-LMCP	40000/-
		Thakar	mastitis		
4	2019	Dr. Dhaval	Design and Development		
		Patel	of dry suspension based in-	SSIP-GTU	83000/-
			situ gel of Cefpodoxime	3317-010	83000/-
			Proxetil		
5	2019	Dr. Kaushik B	Herbal Nasal Drops of		
		Kanada	Clitoria ternatea for	SSIP-GTU	85000/-
N.		\	Migraine	/	





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DEVELOPMENTAL ACTIVITIES

Provide details:

- Product Development
- Research laboratories
- Instructional materials
- Working models/charts/monograms etc.

PRODUCT DEVELOPMENT

Academic Year: 2018-19

Sr	Name of	Name of	Title of Project	Type of	Status
No.	Student	Guide		Formulation	
1	Bhatt Poorvee Piyushbhai	Dr. Dhaval Patel	Formulation and evaluation of raft forming gallic acid chewable tablets for peptic ulcer	Chewable tablets	Completed
2	Parekh Aarti Jayprakash	Dr. Dhaval Patel	Development & evaluation of gastro retentive floating tablets for oral drug delivery of Entacapone	Floating tablets	Completed
3	Shah Jigar Pradipkumar	Mr. Sohansinh Vaghela	Formulation Development and Evaluation of Floating tablets of Apremilast	Floating tablets	Completed

Academic Year: 2019-20

Sr	Name of Student	Name of	Title of Project	Type of	Status
No.		Guide		Formulation	
1	Shah Urja,	Dr. Dhaval	Design and	Dry	Ongoing
	Sandip Rajput	Patel	Development of dry	Suspension	
			suspension based in-		
	`		situ gel of cefpodoxime		
			Proxetil		
2	Suva Dipalee,	Dr.	Herbal Nasal Drops of	Nasal Drops	Ongoing
	Panseriya	Kaushik B	Clitoria ternatea for		
	Vrunda, Dhanani	Kanada	Migraine		
	Urvashee, Patel				
	Sheetal				
3	Patel Suresh	Dr. Dhaval	Formulation and	Injectable	Completed
	Kuberbhai	Patel	Optimization of stable	Solution	
			non-aqueous solution of		
			Doxycycline Hyclate.		
4	Sharma Pankaj	Dr. S.K	Development and	Ophthalmic gel	Completed
	Gorkhnath	Shah, Ms.	optimization of		



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Dipal M. Patel,	Loteprednol Etabonate loaded in ophthalmic	
,	nanogel	

Academic Year: 2020-21

1 Vishal Chauhan Dr. M D. Va Anl Chau	Maulik Synthesis of key intermediate of allopurinol using new route Eavi R. Polyherbal formulation for mastitis		Ongoing
D. Va And Chau 2 Sumit Patel, Mr. F	intermediate of allopurinol using new route avi R. Polyherbal formulation	intermediate	Ongoing
And Chau 2 Sumit Patel, Mr. F	cit B. allopurinol using new dhary route avi R. Polyherbal formulation		
Chau 2 Sumit Patel, Mr. F	dhary route avi R. Polyherbal formulation		
2 Sumit Patel, Mr. F	avi R. Polyherbal formulation	n Ointment	
	3	n Ointment	
Vishal Chauhan Th	akar for mactitic		Ongoing
	akai 101 mastitis		
3 Parth C. Ramani Dr. M	Maulik Preparation of sugar-	Jaggery	Ongoing
D. Va	ja, Dr. free products at low		
Anl	it B. price from Stevia plant	t	
Chau	dhary		
4 Modi Meghna, Mr. S	Sandip Design, Synthesis and	Azodye	Completed
Patel Riddhi N. Ba	deliya Evaluation of Azodye		
	Derivatives		
5 Modi Priyal, Dr. N	avneet Synthesis of new	Chemical	Completed
Dave Zalak, F. Ch	auhan derivatives of macrolid	e synthesis	
Makwana	1 1 /	/	
Jainam			
6 Patel Nirja, Dr.K	aushik Pharmacognostical and	d Topical Gel	Completed
Patel Nidhiben, B Ka	nada, Phytochemical		
Patel Anjali, Ms S	neha P Evaluation of Plants		
Patel Jatin, Nayi D	ave used in Dental Analgesi	is	
Kaushal	/// // // // // // // // // // // // //		
7 Patel Bhumi, Dr.K	aushik Pharmacognostical and	d Topical Gel	Completed
Mangukiya B Ka	nada, Phytochemical		
Khushbhu, Ms S	neha P Evaluation of Plants		
Malani Mansi, D	ave used in Vitiligo		
Shiyaniya	K -		
Priyanka,			
Makwana			
Varun	7.4		
	aushik Formulation and	Topical Gel	Completed
Rakeshkumar B K	anada Evaluation of Chitosan		
	based Berberine HCl and	d	
	Extract of Achyranthus		
	Aspera loaded		
	Bioadhesive gel for Vaginal Infection		
9 Solanki Dr.D	haval Formulation and	Tablet	Completed
' 21,2	atel Evaluation of Spherical		Completed
Mukeshbhai J.F	Crystal Agglomerates of		
	Azilsartan Medoxomil		





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Central instrumental facility

The institute has central instrumentation facility spread over a 80Sq mt meant for faculty and students of departments. This lab is equipped with HPLC (Waters), HPLC (Younglin), UV Spectrophotometer-1600, UV Spectrophotometer-1800, Polarimeter, Fluorimeter, Nephlometer, Turditimeter, Colorimeters, Conductometers, pH meters, Karl-Fischer for water determination, Potentiometer, etc.

Animal House

The institute has facilities spread over an area of 80 sq mts. The facility abides by CPCSEA guideline and is regulated by IAEC no: 1161/ac/08/CPCSEA dated 27.03.2008.

Department level research lab

Every Department has specialized research lab for UG, PG and Pharm.D students equipped with sophisticated equipment like Dissolution apparatus, Sieve shaker, pH meter, Ball Mill, Homogenizer, Probe Ultrasonicator, Refrigerated Ultracentrifuge, Autoclave, Friability apparatus, Rota vapor, Electrophoresis, Auto-analyzer, RotaRod, Digital Analgesiometer, Cook's Pole climbing apparatus, BOD Incubator, Digital Photoactometer, Electroconvulsiometer, Orbital Shaker Incubator, Fermentor, Trinocular microscope, etc.

Instruction Materials

Every teacher needs supplies and resources in order to have a successful classroom. Instruction materials can really help to introduce new concepts to the students and assist them in attaining the course outcomes. The faculties have developed various instruction materials which includes digital notes and presentations. Several digital notes and presentations are uploaded by a faculty member on institute website (http://www.sips.org.in/students-corner/).

Course Plans – Course plan is an essential tool when designing any course. They add important structure to lesson planning and the delivery of instruction. They act as a guide for both the teacher and student; and can provide a valuable routine. Also, course plan works as a reference for colleagues, administrators, and accreditation agencies. It allows others to see what the teacher is doing in the course, and what is expected of the students.

Manuals – The students are provided with laboratory manuals to prepare themselves for the experiments in advance.

K SIPS &

SARASWATI INSTITUTE OF PHARMACEUTICAL SCIENCES

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Working models/charts/monograms: - These will help the student conceptualize the learning objectives. The faculties have put in place array of charts and working models in the laboratory as well as standard operating procedures for the specific instrument for the facile comprehension of the concepts.





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DETAIL OF MODELS/CHARTS

Academic year 2018-19

Sr	Type	Title	Name of Participants	Guided by
no	(Models/Charts)		(course & semester)	
1.	Model	Laboratory scale	6 th sem B.Pharm	Ms. Bhoomi.D Patel,
		fermentor-	Naimil. S. Kadia	Dr Sanjesh G.Rathi
			Riddhi Modh	
			Trupal H. Desai	
			Dhruvil K. Bhatt	
2.	Model	Aer ophonix-	8 th sem B.Pharm	Dr. Kaushik B. Kanada
			Chandni D.Patel	
3.	Model	DNA Model	2 nd Year Pharm.D	Ms. Charmy D.
			Bhavsar Vedant	Pandya
4.	Chart	Urea Cycle	1 st Year Pharm. D.	Ms. Charmy D.
			Jahnvi Patel	Pandya
5.	Chart	Classification of Solid	1 st Year Pharm. D.	Ms. Dipal M. Patel
		Dosage Form	Shreya Jain	
6.	Chart	Classification of	1 st year Pharm. D.	Ms. Dipal M. Patel
		dosage forms	Prakruti Patel	

Academic Year 2019-20

Sr No	Type (Models/Charts)	Title	Name of Participants (course & semester)	Guided by
1.	Model	Lab Scale- Microtome	Yash Patel	Dr.Kaushik B. Kanada
2.	Model	Aerophonix	7 th sem B.Pharm Dilip Garopandya Yadav Sahil	Dr.Kaushik B. Kanada
3.	Chart	Biosynthesis of Purine Nucleotides	3 rd Sem B. Pharm. Harsha Gulabani	Ms. Bhoomi D. Patel
4.	Chart	Hexose Monophosphate Shunt	3 rd Sem B. Pharm. Agrawal Smit	Ms. Charmy D. Pandya
5.	Chart	Glycolysis	3 rd Sem B. Pharm. Chamar Narayan	Ms. Charmy D. Pandya
6.	Chart	Urea Cycle	1 st Year Pharm. D. Saiful Khan	Ms. Charmy D. Pandya
7.	Chart	Antacids	1 st Year Pharm. D. Shubham S. Savaliya	Ms. Jigna T. Patel
8.	Chart	Agonist and Antagonist	6 th Sem B. Pharm. Malani Mansi, Patel Anjali	Mr. Ravi R. Thakar



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9.	Chart	Physiological Salt	6 th Sem B. Pharm.	Mr. Ravi R.
		Solution	Nidhi Patel, Nirja Patel	Thakar
10.	Chart	Schedules to the Rules	4 th Sem B. Pharm.	Mr. Sohansinh
			Patel Vedant	Vaghela
11.	Chart	History of	4 th Sem B. Pharm.	Mr. Sohansinh
		Pharmaceutical	Patel Smit	Vaghela
		Legislation		
12.	Model	The Human Memory	2 nd sem B.Pharm	Dr. Jinal
			Ms Harsh Gulbani	Chaudhary
			Ms Bhatt Vidhi	

Academic Year 2020-21

Sr. No	Type (Models/Charts)	Title	Name of Participants (course & semester)	Guided by
1.	Chart	The Respiratory System	1 st Year Pharm. D. Parmar Palak, Patel Nency	Mr. Ravi R. Thakar
2.	Chart	Female Reproductive System	1 st Year Pharm. D. Parmar Palak, Patel Nency	Mr. Ravi R. Thakar
3.	Chart	Kidney: Excretory System	1 st Year Pharm. D. Patel Zeel, Sonara Avani, Aseri Babita	Mr. Ravi R. Thakar
4.	Chart	Cardiovascular System	1 st Year Pharm. D. Gopika Menon, Mausam Patel, Hritik Ranjan	Mr. Ravi R. Thakar
5.	Model	Human Eye	1 st Year Pharm. D. Patel Dharani, Patel Shreya	Mr. Ravi R. Thakar
6.	Chart	Respiratory System	1 st year Pharm. D. Parikh Vaidehi, Pandya Khushi, Patel Jinal	Mr. Ravi R. Thakar
7.	Chart	Correlation of Carbohydrate Metabolism	1 st year Pharm. D. Aseri Babita	Dr. Maulik D. Vaja
8.	Chart	Glaucoma Therapeutics	2 nd year Pharm.D Diya Parmar	Dr Madhuri Pandole
9.	Chart	POTC Medication	2 nd year Pharm.D Om Dixit	Dr Madhuri Pandole