

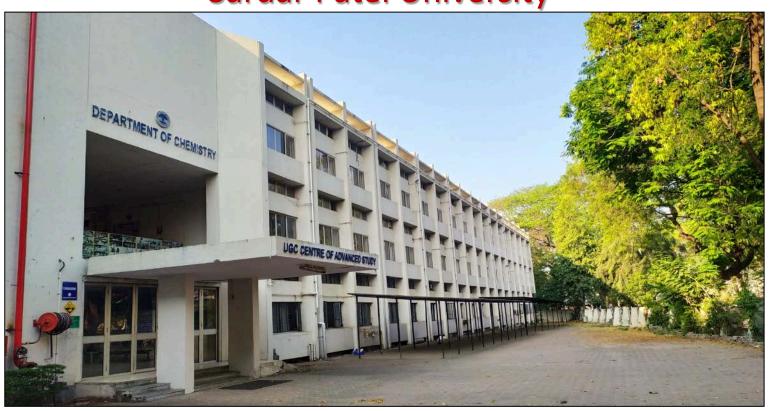




Department of Chemistry

(UGC-Centre of Advanced Study, UGC-CPEAPA & DST-FIST sponsored)

Sardar Patel University



- ➤ Department of Chemistry is a dynamic academic center for teaching and research covering the frontiers areas in chemical sciences.
- ➤ The department offers post graduate programs covering broad and interdisciplinary branches of chemistry.
- ➤ The department has a recognition as one of the leading centers not only in the state of Gujarat but also at national and international level for the education and research in chemical sciences.
- ➤ The research impact of the department is not only notable but also won acclaimed recognition at the national and international levels through financial support from a large number of funding agencies like DST, CSIR, UGC DAE, BRNS, etc.
- ➤ The masters students are in demand for the selection in campus placement and the department boasts of proud alumni who are excelling various key positions in the academia and also industry in India and abroad.

Programs and Fee Structure

Programm	Type	Intak	Fees Per Semester			
e		e	1 st	2 nd	3rd	4 th
Master of Science	Grant In Aid	75	3,430	2,510	2,530	2,510
(Chemistry	Self Finance	126	26,60 0	25,800	25,800	25,800

- M.Sc. [75 GIA + 126 SF]
- ✓ Organic Chemistry [35% GIA + 60 SF]
- ✓ Inorganic Chemistry [15% GIA + 12 SF]
- ✓ Physical Chemistry [15% GIA + 12 SF]
- ✓ Analytical Chemistry [20% GIA + 30 SF]
- ✓ Industrial Polymer Chemistry [15% GIA + 12 SF]
- Ph.D. (full time)

Faculty Members

Name	Designation	Exp. in years
Dr. M. N. Patel	Professor & Head	35
Dr. M. P. Patel	Professor	28
Dr. N. J. Parmar	Professor	28
Dr. H. M. Patel	Professor	27
Dr. S. S. Soni	Professor	18
Dr. P. N. Dave	Professor	26
Dr. M. K. Mishra	Professor	17
Dr. J. H. Trivedi	Associate Professor	18
Dr. H. M. Parekh	Associate Professor	17
Dr. R. J. Patel	Associate Professor	16

Name	Designation	Exp. in years
Dr. N. P. Chikhaliya	Assistant Professor	12
Dr. B. S. Bhatt	Assistant Professor	12
Dr. K. M. Vyas	Assistant Professor	11
Dr. K. R. Ram	Assistant Professor	14
Dr. P. P. Yadav	Assistant Professor	09
Dr. P. G. Sutariya	Assistant Professor	11
Dr. S. C. Karad	Assistant Professor	08
Mrs. S. K. Patel	Assistant Professor	02
Dr. T. R. Sutariya	Assistant Professor	08

Teacher Quality



- Well qualified faculty members
- Recruitment as per UGC norms and through national advertisement
- New faculty are encouraged to update through OP/ RC/ QIP programmes.
- Distinguished faculty are **invited** under various progammes.
- Teachers have full **freedom** in choosing the method of teaching.
- Visits to other universities are granted under **exchange programme** and also to abroad for advanced research.

Teaching-Learning Process

- Orientation / Induction Programme for fresher
- Arrangement of counseling in **contact hours** and special classes
- Clarifications and doubt clearance at students seminars
- Academic Calendar circulated in beginning
- ICT enabled class rooms
- Invoking of critical thinking and subject clarity is attempted.
- Facilitation of Faculty Empowerment OP/ RC/ FDP
- Distinguished faculty for Special Lectures
- Use of hybrid method of teaching

Students Performance at State and National Level Exams

Sr.	Year	UGC-CSIR NET	GATE (>90 percentile)	GSLET	IELTS
1	2016	-	-	04	-
2	2017	05	02	11	01
3	2018	04	09	15	-
4	2019	05	04	11	-
5	2020	02	01	01	03
6	2021	01	03	05	-
7	2022	05	10	14	-
8	2023	04	09	42	-

Major Research Projects funded by UGC, DST-SERB, UGC-DAE.

Year	No. of Projects	Amount Received (Rs. In lakh)		
2016-17	04	69.02		
2017-18	02	19.09		
2018-19	05	28.40		
2019-20	02	9.26		
2020-21	03	27.11		
2021-22	04	52.94		
2022-23	01	28.70		









Thrust Area

- Novel Chemical Systems with Therapeutic and Material Applications
- Synthesis of polymers especially for optoelectronic materials and drug delivery systems
- Metal based drug intermediates
- Synthesis of bio-active molecules via development of modern organic synthetic methods
- ➤ Aqueous metal ion batteries
- Sustainable catalytic systems
- ➤ Computational calculations on Hydration of Ionic liquids (ILs)

Research Publications

Year	Publications
2016	43
2017	46
2018	36
2019	39
2020	42
2021	38
2022	76
2023	69



















ADVANCED MedChemComm

EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY









Some Major Equipments



Small Angle X-ray Scattering (SAXS)



Thermal System (DSC & TGA)



Spectrofluorometer



Atomic Force Microscope (AFM)



Elemental Analyzer



GPC



Electrochemical Workstation

Some Major Equipments (Contd....)



Inverted Optical Microscope



Size Exclusion Chromatography (SEC)



UV Spectrophotometer



High Sensitive DSC



Flash Chromatography



Static Light Scattering

Analytical Services/Consultancy

Year	Samples	Institutions	Fund in lakh (₹.)
2016-2017	08	03	0.64
2017-2018	43	06	0.15
2018-2019	15	03	0.05
2019-2020	10	03	0.09
2020-2021	60	03	0.58
2021-2022	04	04	0.23
2022-2023	10	10	0.96





















Placement

Year	No. of Students
2016-2017	43
2017-2018	59
2018-2019	69
2019-2020	38
2020-2021	62
2021-2022	70
2022-2023	75
2023-2024	62
Total	478













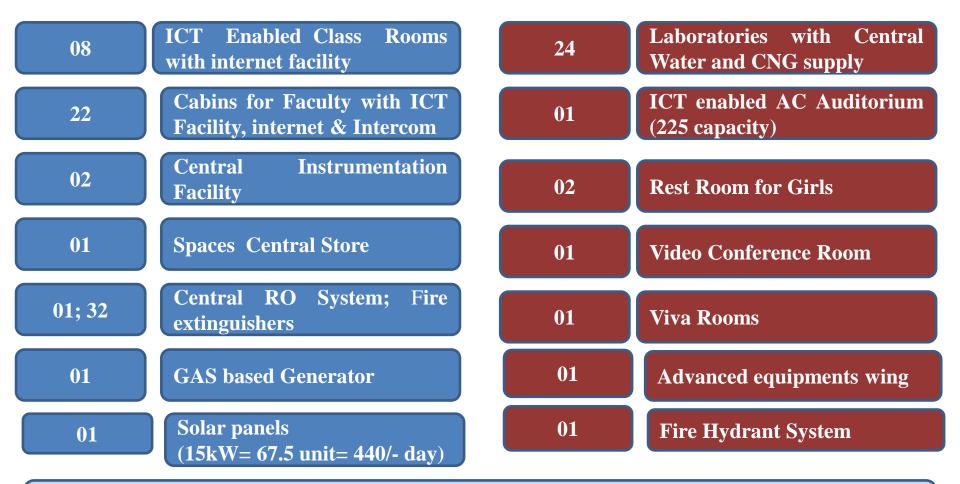








Infrastructure Facilities



Health Centre, Gymnasium, Swimming Pool, Canteen, Hostels for Boys and Girls are the common facilities.

Ramp and Wheel Chair Facilities

Library as Learning Resource

Library: Books : > 8,000

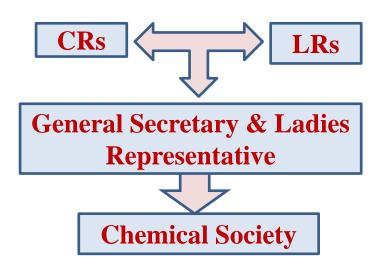
Journals/Periodicals: 20

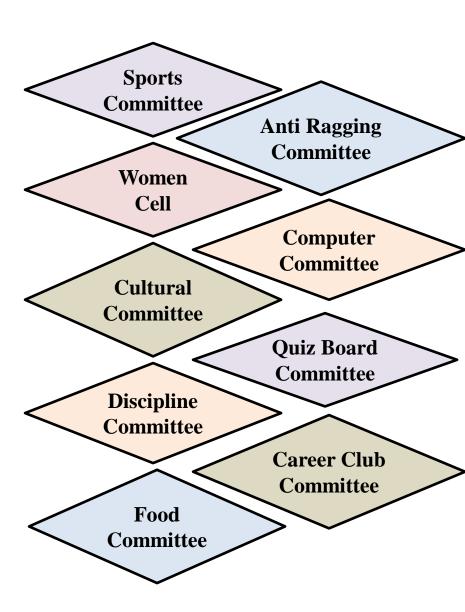
- Library is fully automated with Software version SOUL 3.0.
- All the library documents are bar-coded and books are issued to users by reading the barcode of the book.
- Back volumes of Journals, Project Reports, Question Banks, Syllabus sets are being maintained.
- Departmental library has adequate reading carrels that provide exclusive and undisturbed spaces for serious reading for library users.
- Access to more than 250 journals through UGC (INFLIBNET) up to 2018.
- Library Committee: Purchase of books, journals and other reading materials and augmentation of infrastructures

Fellowships for Students

	Scholarships	Type of Fellowship				
Year	Received by	Project	UGC	IDE/CDE	SHODH	DST
	PG Students	Fellow	RF-MS	JRF/SRF		Inspire/RA
2016-17	22	-	08	01	-	01
2017-18	24	-	06	01	-	01
2018-19	22	12	07	01	-	-
2019-20	23	11	-	-	07	-
2020-21	27	11	-	03	10	01
2021-22	25	3	-	05	18	02
2022-23	22	1	-	05	15	01

STUDENTS PARTICIPATION IN VARIOUS COMMITTEES





CO-CURRICULAR ACTIVITIES

- Quiz and Essay Competitions
- Music based Programs
- Education Tour
- Sports Week
- Inaugural and Annual Day Celebrations
- Blood Donation Camp
- Celebration of Cultural Festival
- Tree Plantation
- Swachchhata Abhiyan
- Guest Lectures by Experts
- No Vehicle day











CO-CURRICULAR ACTIVITIES

















