

**Bharatiya Jain Sanghatana's
Arts, Science and Commerce College,
Wagholi, Pune 412207.**

DEPARTMENT OF CHEMISTRY

1. Name of the Department: Chemistry
2. Year of establishment: B.Sc. – July 1995, M.Sc. – July 2005
3. Courses offered: UG, PG, M. Phil., Ph.D.

Year	UG	PG	Diploma	Add on	Certificate	Ph.D.
2014-19	Chemistry-25	Organic Chemistry -14	-----	-----	-----	-----

4. Intake of the Courses:

Course	Year	Class	Boys	Girls	Total
UG	2014-15	F. Y.	48	91	139
	2015-16		72	64	136
	2016-17		32	90	122
	2017-18		56	70	126
	2018-19		59	62	121
	2019-20		58	71	129
	2014-15	S. Y.	20	51	71
	2015-16		32	49	91
	2016-17		18	42	62
	2017-18		29	80	109
	2018-19		23	57	80
	2019-20		26	37	63
	2014-15	T. Y.	25	29	54
	2015-16		20	29	50
	2016-17		13	35	48
	2017-18		19	42	61
	2018-19		27	57	84
	2019-20		20	48	68
PG	2014-15	Part I	25	9	34
	2015-16		33	09	42
	2016-17		38	10	48
	2017-18		26	15	41
	2018-19		33	12	45
	2019-20		27	20	47
	2014-15	Part II	21	17	38

	2015-16		24	08	32
	2016-17		34	09	43
	2017-18		34	10	44
	2018-19		23	15	38
	2019-20		29	11	40

5. Number of teaching posts sanctioned, filled and vacant

Designation	Sanctioned	Filled	Permanent	Temporary
Professor	--	--	--	--
Associate Professor	01	01	01	
Assistant Professor	05	04	04	
Adhoc (Funded by College)	--	06	--	06
Visiting faculty	00	00	00	00
Total	06	11	05	06

6. Students Teacher ratio:

Program	Student-Teacher ratio
UG	27
PG	8

7. Faculty profile with name, qualification, designation, experience, nature of appointment (confirmed/ probation/temporary):

Name	Designation	Qualifications	Teaching Experience	Nature of appointment.
Dr. Sanjay Gaikwad	Associate Professor	M.Sc., Ph.D.	23	Confirmed
Dr. R. A. Gulalkari	Assistant Professor	M.Sc., Ph.D., B.Ed.	18	Confirmed
Prof. M. A. Bora	Assistant Professor	M.Sc., SET	13	Confirmed
Prof. D. D. Gaikwad	Assistant Professor	M.Sc., SET, NET, NET, GATE	11	Confirmed
Dr. S. P. Kolat	Assistant Professor	M.Sc., NET-JRF, PhD	05	Confirmed
Prof. T. K. Javeri	Assistant Professor	M.Sc., SET, NET	09	Temporary
Prof. R. B. Shewale	Assistant Professor	M.Sc., NET	08	Temporary
Prof. R. D. Gopale	Assistant Professor	M.Sc., SET	07	Temporary
Prof. R. U. Ambhure	Assistant Professor	M.Sc., PhD.	04	Temporary
Prof. H. S. Manvatkar	Assistant Professor	M.Sc., B.Ed.	01	Temporary
Prof Sunanda Fulari	Assistant Professor	M.Sc.	01	Temporary

8. Details of teachers participated in Refresher courses, Orientation courses

Faculty/staff development programme	Name/s of Faculty benefitted
Refresher courses (01)	Prof. Manisha Bora,
UGC- FIP	---
HRD programs (02)	Dr. Sanjay Gaikwad,
Orientation Programs	02 (Avishkar Orientation series, participant)
Faculty Exchange programme	----
Staff Training conducted	-----
Staff Training conducted by other institutions	----
Summer/ winter school programme	----
Others 04 (as a Teacher expert, Subject expert for Ph.D. admission, resource generation camp)	Dr. Sanjay Gaikwad, Prof. Manisha Bora

9. Number of academic support staff (technical) and administrative staff sanctioned, filled and vacant:

Sr. No	Designation	Sanctioned	Filled	Vacant
1	Laboratory Assistant	01	01	
2	Laboratory Attendant	08	04	04
3	Peon	---	---	--
4	Technical Staff	01	--	--

10. Examination System: Annual/ Semester/Choice Based Credit System (CBCS)

Class	Examination System
F. Y.	CBCS
S. Y. / T. Y.	Semester
PG	CBCS

11. Information about research grants, projects completed and ongoing during the period from National funding agencies (like SPPU, UGC, CSIR, DST, DBT etc):

Sr. No.	Name of the Principal Investigator (Co-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Remarks if any
1.	Prof. Manisha Bora	Synthesis of polymer supported iron & copper oxide Nano composites and their applications as a catalyst in the synthesis of biologically active organic compounds containing N & S.	UGC(WRO-Pune)	4,20,000	Ongoing

2.	Dr. Sanjay Gaikwad	Synthesis , Characterisation and Biological Aspects of Thiocarbonyls	UGC WRO Pune)	(1,90,000 –	Completed Oct 2015
3.	Dr. Sanjay Gaikwad	Common Organic reactions by Green Chemistry	UGC WRO Pune)	(1,70,000 –	Completed Oct 2015

12. Awards/recognition received, if any?

Dr. S. D. Gaikwad	Best Innovative Teacher Award by SPPU, 2017 Best Teacher Award by Bandhuta Sahitya Parishad, 2016 Best teacher Award by Samaj Bandhav Gurujan Sanman, Pune, 2019
Dr. R. A. Gulalkari	Best Program Officer Award by BJS, Pune, 2015
Prof. M. A. Bora	Dr. Homi Bhabha best oral presentation award at the international conference-IACR 2017 Best poster presentation International conference Organized by B G Gholap College, Sangavi , 2016 Best Poster presentation at international conference ESSD-organized by C T Bora College, Shirur, 2016
Prof. R. D. Gopale	‘Inspiration of student toward Education, belong to poor family as a role Model’ Award by Aamhi Gunorekar foundation, 2017

13. Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, resource person, chaired person of the session) by faculty.

Sr. No.	Date and no of Faculty	Date and Whether International / National/ state/ University / local Level	Title of the Conference / Seminar	Attended / Presented / resource person/ chairperson/ expert	Title of the Paper Presented	Organized by	Venue
1	2017-18 & 11	National level	Use of ICT in sciences	-----	-----	SPPU	BJS College
2	24 th aug 2017 & 02	State level	CSIR-NET/SET Orientation Program	Attended	-----	S.M.Joshi College	S.M.Joshi College
3	8-9 th Feb 2018 & 11	State	Recent trends in mathematics and statistics	Attended	-----	SPPU	BJS College
4	5-6 th Jan 2018 & 01	State	Advanced methods for material characterisation	Presented	Synthesis & characterisation by E-DAX analysis	SPPU	Hon. Balasaheb Jadhav College
5	15-16 th	National	Green approach	Presented	Miraculous	SPPU	Gramonnati

	Dec 2017 & 01		towards environment and chemical science	d	properties of Lohabhasma proven by Modern technique		mandals ASC college
6	13-14 th Dec 2017 & 01	International	IACR	Presented	Recyclable and magnetically separable nanocatalyst for the synthesis of biologically active derivatives	SPPU	S.M.Joshi college
7	24-25 th Feb 2018 & 01	National	APC-2018	Presented		SPPU	Dept. of Chemistry
8	23-24 th Jan 2018 & 01	National	Quality enhancement in higher education	Presented	Use of RBPT for students of Chemistry	SPPU	Abasaheb Garware College
9	22-23 th July 2017 & 01	International	Environmental science, ecology, biodiversity and climate change	Presented	Antibacterial activities of Cassia fistula Linn: A review	SPPU	Waghire College
10	15-16 th Jan. 2016 & 01	International	Environmental systems and sustainable development	Presented	Polyaniline-Hematite hybrid nanocomposite as a sensor for detection of ammonia gas	SPPU	C.T.Bora College
11	7-8 Aug. 2015 & 01	National	Radiochemistry and applications of radio isotopes	Participated	-----	SPPU	S.P.College
12	26 Dec. 2015 & 01	State	Role of IQAC in Institutional Quality Improvement	Attended	-----	SPPU	T.C. College
13	10-12 Mar. 2016 & 01	International	Functional ecofriendly smart emerging materials	Presented	Thermal mechanism of Y(III) complexes with derivatives of naturally	SPPU	B.R.Gholap College

						occurring lawsone from henna		
14	3-4 Feb 2017 & 01	Internatio nal	Make in India- Opportunities, challenges & its impact	Resourc e person	Allytics for make in India	SPPU	BJS College	
15	9 Jan 2017 & 02	State	Innovation in Nanoscience and Nanotechnology	Presente d	Juglone- Silver nanoparticle formulation enjanace the cellular & Characterisa tion of Lohabhasm ma	SPPU	BJS College	
16	22-24 Dec.201 6 & 01	National	Indian Council of Chemists	Attende d	-----	COEP	H.V. Desai College	
17	6-7 Feb 2018 & 10	National	Use of ICT in Science	Presente d	-----	SPPU	BJS's ASC College, Wag holi, Pune	
18	24-25 Feb. 2018 & 01	National	Advanced Perspectives in Chemistry	Presente d	-----	SPPU	Chemistry department, SPPU, Pune	
19	8-9 Feb 2018 & 10	State	RTMS-2018	Presente d	-----	SPPU	BJS's ASC College, Wag holi, Pune	
20	18-19 Jan. 2019 &01	National	APCMLS 2019	Presente d	-----	SPPU	Dept of Chemistry, E S Divekar college, varvand	
21	22-23 Jan. 2019 & 01	National	E-resources in Teaching, Learning and Research	Presente d	-----	SPPU	BJS'S ASC college, Wagholi	

Summary: International = 05, National= 10 , State/ University= 06

14. Total no. of Publications by Department:

A) Published Papers in Referred Journals:

Sr. No.	Name of Faculty	Referred Journals
1	Dr. Sanjay Gaikwad	16
2	Dr. Rupali Gulalkari	3

3	Mrs. Manisha Bora	1
4	Dr. Swati Kolat	11

(C) Books published as an author or an editor:

Sr. No.	Name of Faculty	Books published
1	Dr. Sanjay Gaikwad	5
2	Dr. Rupali Gulalkari	1

15. Details of Guide

Name of Guide	MPhil		Ph.D	
	No. of Registered Student	Declared no of student	No. of Registered Student	Declared no of student
Dr. Sanjay Gaikwad	01	02	05	

16. Result Analysis:

(A) Annual class wise UG and PG result.:

Title of Program wise course	Total No. students Appeared	Pass	Fail
UG- FY (Year: 2015/16/17/18)	(169/134/162/125)	(40/61/137/88)	(129/73/30/37)
UG- SY (Year: 2015/16/17/18)	(68/87/62/62)	(54/50/48/44)	(14/37/14/18)
UG – TY (Year: 2015/16/17/18/19)	(52/48/48/44/82)	(50/47/44/42/58)	(02/01/04/02/25)
PG – I (Year: 2015/16/17/18/19)	(33/44/44/46/41)	(32/31/44/40/41)	(01/13/00/06/00)
PG – II (Year: 2015/16/17/18/19)	(37/32/41/37)	(36/30/40/38/25)	(01/02/01/06/12)

17. Number of Students selected/passed Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations?

MPSC/UPSC	NET/SET	GATE	PG	Ph.D.	Total
-----	02	01	13	01	17

18. Student progression: Number/ percentage of students proceeded for higher studies
Number/percentage of students placed:

Total No. Of Students	% proceeded for higher studies	
	UG to PG	PG to Ph.D./ M.Phil
-----	70	02

19. Present details of departmental infrastructural & other facilities with regard to

- Central Library Books relevant for Department:
- Central Library Journals, etc, relevant for Department:
- Departmental Library (books, journals etc.) : 240
- Computers and Internet facilities for staff : 04
- Class rooms with ICT facility : 01
- Students' laboratory : 05
- Research laboratories : 01
- Any other facility LCDs, : 01
- No of Instruments : 22
- No of Instruments costing more than 1 Lakh. :

20. Future Plans.

- 1. Student's & teacher's publications**
 - 2. M. Sc. Analytical chemistry**
 - 3. Alumni meet**
 - 4. Reading hall for students**
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Declaration by the Head of the Department/Institution:

I am aware that the above information provided by the department will be validated by the AAA committee during the visit.

Date:

Head of Department