

DEPARTMENT OF CHEMISTRY

Annual Report 2022-23

1) Date of Establishment of the Department

UG-June 1991

PG (Drug Chemistry) - June 2009

PG (Organic Chemistry)-June 2020

PG (Analytical Chemistry)-June 2022

2) Built up area of the Department in Sq.Ft.:-

Sr.No	Year	Name of the lab	Area in square Ft
1)	2022-23	Lab-I Organic Lab	755.58 Sq.Ft
		Lab-II Inorganic Lab	755.58 Sq.Ft
		Lab-III Main Lab	1013.84 Sq.Ft
		Lab -IV Instrumental lab	497.38 Sq.Ft
		Store Room	234.38 Sq.Ft
		HOD Cabin	121.00 Sq.Ft
		Staff Room	238.00 Sq.Ft
		Department Library	60.00 Sq.Ft
		Open Space	550.00 Sq.Ft
		Gas Chamber	70.00 Sq.Ft

3) Students Strength 2022-23 UG:

Sr.No.	Class	Male	Female	Total
1)	F.Y.B.Sc	46	101	147
2)	S.Y.B.Sc	40	52	92
3)	T.Y.B.Sc	31	41	72
	Total	117	194	311

PG:

Sr.No.	Class	Male	Female	Total
1)	MSc.I org	19	12	21
2)	MSc.I Drug	05	07	12
3)	MSc.I Ana.	08	14	22
4)	MSc.II org	13	13	26
5)	MSc.II Drug	04	20	24
	Total	49	66	105

4) Number of Teaching Staff : UG & PG

Sr.No.	Name of Teacher	Qualification	Experience
1)	Dr. D.D.Patil	M.Sc.(Physical Chemistry)B.Ed.,M.phil.,Ph.D.	33Yrs.
2)	Dr.S.S.Borhade	M.Sc.(Physical Chemistry)M.Ed.,Ph.D	30Yrs.
3)	Prof.S.B.Surve	M.Sc.(Inorganic Chemistry)B.Ed.	28 Yrs.
4)	Prof. D.C. Pawar	M.Sc.(Physical Chemistry)	26Yrs.
5)	Dr.S.C. Dandwate	M.Sc.(Analytical Chemistry)Ph.D	28Yrs.
6)	Prof.R.K.Manjul	M.Sc.(Organic Chemistry)NET,SET,M.Phil	10Yrs.
7)	Dr.S.P.Goskulwad	M.Sc.(Organic Chemistry)NET(JRF),Ph.D	03 Yrs.
8)	Prof. R.S.Sabale	M.Sc.(Organic Chemistry)	05Yrs.
09	Prof .V.B.Savant	M.Sc.(Organic Chemistry)B.Ed. SET	08Yrs.
S10	Prof .S.S.kawade	M.Sc.(Biochemistry)	04 Yrs
11	Prof.M.B. Ambre	M.Sc.(Organic Chemistry) SET,	02Yrs.
12	Prof.A.M.Aher	M.Sc.(Drug Chemistry)	02Yrs.
13	Prof.K.K.Hase	M.Sc.(Drug Chemistry)	01Yrs.
14	Prof.S.L.Nagare	M.Sc.(Drug Chemistry)	01Yrs.

4) Work-load : UG

Sr.No	Class	No. of Students	Theory	Practical	Total
1)	F.Y.B.Sc	Div A- Div B-	03 × 02=06 03 × 02=06	08×04=32	12+32=44
2)	S.Y.B.Sc.	Div A- Div B-	04 × 02 = 08 04 × 02 = 08	09×04=36	16+36=52
3)	T.Y.B.Sc.		06× 04 = 24	Physical=04×04=16 Inorganic=04×04=16 Organic=04×04=16	24+48=72
				Total Workload=	168

Distribution of workload UG :

Sr.No.	Name of the Teacher	Class	Workload		Total
			Theory	Practical	
1)	Dr.S.S.Borhade	F.Y.B.Sc	03	...	03
		S.Y.B.Sc.	...	08	08
		T.Y.B.Sc	04	04	08
	Total		07	12	19
2)	Prof.S.B.Surve	F.Y.B.Sc.	...	...	...
		S.Y.B.Sc	04	04	08
		T.Y.B.Sc	04	08	12
	Total		08	12	20
3)	Prof.D.C.Pawar	F.Y.B.Sc.	03	06	09
		S.Y.B.Sc	...	04	04
		T.Y.B.Sc	04	06	10
	Total		07	16	23
4)	Dr.S.C.Dandwate	F.Y.B.Sc.		04	04
		S.Y.B.Sc	02	08	10
		T.Y.B.Sc	04	04	08
	Total		06	16	22
5)	Prof.R.K.Manjul	F.Y.B.Sc.	03	04	07
		S.Y.B.Sc	04	04	08
		T.Y.B.Sc	02	..	02
	Total		09	08	17
6)	Dr.S.P.Goskulwad	F.Y.B.Sc.		04	04
		S.Y.B.Sc	04	12	16
		T.Y.B.Sc	02	04	06
	Total		06	20	26
7)	Prof. R.S.Sabale	F.Y.B.Sc.		12	12
		S.Y.B.Sc			
		T.Y.B.Sc	02	14	16
	Total		02	26	28
	Total workload		40	110	40+110=150
				Total	150

Distribution of Workload PG :

Sr.No.	Name of the Teacher	M.Sc.I Drug/org.		M.Sc.II(Drug)		M.Sc.II(Org)		Total
		Theo.	Pract.	Theo.	Pract.	Theo.	Pract.	
2	Dr.S.S.Borhade	02	-	--		-	-	02
3	Dr.S.P.Goskulwad	02	--	---	---	----	---	02
4	Prof.R.K.Manjul	-	-	02	-		-	02
5	Prod.S.S.Kawade		12	06	12	-	-	30
6	Prof.V.B.Savant		10		08	06	-	24
7	Prof.M.B.Ambre	04	10	04	08	-	-	26
8	Prof.R.S.Sabale	02	--	02	--	--	--	04
9	Prof.A.M.Aher	02	10	02	08	-	-	22
10	Prof.K.K.Hase	02	10	02	05	--	---	19
11	Prof.S.L.Nagare	04	10	--	08	--	--	22
	Total	18	62	18	49	06	---	153

7) Paper/Course taught during this year UG:

Sr.No.	Class	Semester	Course No.	Name of the Course/Paper
1)	F.Y.B.Sc	I	Paper-I Paper-II Paper-III	CH-101: Physical Chemistry CH-102: Organic chemistry CH-203: chemistry practical-II
2)	F.Y.B.Sc	II	Paper-I Paper-II Paper-III	CH-201: Inorganic chemistry CH-202: Analytical chemistry CH-203: chemistry practical-II
3)	S.Y.B.Sc	I & II	Paper-I Paper-II Paper-III	Physical & Analytical chemistry Organic & Inorganic chemistry Practical
4)	T.Y.B.Sc		Paper-I Paper-II Paper-III Paper-IV Paper-V Paper-VI Practical Paper-I Paper-II Paper-III	Physical Chemistry Inorganic chemistry Organic chemistry Analytical chemistry Industrial Chemistry Environment chemistry Physical Chemistry Inorganic chemistry Organic chemistry

Paper/course taught during this year PG:

Sr.No.	Class	Semester	Course No.	Name of the Course/Paper
1)	M.Sc.I (Drug, Analytical &Organic chem)	I	CHP-110 CHI-130 CHO-150 CHG-190 CHP-107	Physical Chemistry-I Inorganic chemistry-I Organic chemistry-I General chemistry-I Theory & Practical Basic Practical Chemistry-I
2)	M.Sc.I (Drug Analytical &Organic chem)	II	CHP-210 CHI-230 CHO-250 CHG-290 CHP-227	Physical Chemistry-II Inorganic chemistry-II Organic chemistry-II General chemistry-II Theory & Practical Basic Practical Chemistry-II
3)	M.Sc.II (Organic chem)	III	CHO-350 CHO-351 CHO-352 CHO-353	Organic reaction mechanism Spectroscopic methods in structure determination Organic stereochemistry Free radical,photochemistry, pericyclic reaction and their application
4)	M.Sc.II (Organic chem)	IV	CHO-450 CHO-451 CHO-452 CHO-453 PRACTICAL CHO-347 CHO-447 CHO-452	Chemistry of natural product Synthetic methods in organic chemistry Carbohydrate chemistry ,chiron approach, chiral drugs & medicinal chemistry Heterocyclic chemistry &asymmetric synthesis Single stage preparation Double stage preparation Green chemistry practicals
5.	M.Sc -II (Drug Chemistry)	III	CHD 361 CHD 362 CHD 363 CHD 364 A CHD 364 B Practical CHD 367	Chemistry of Heterocycles and Biologically Active Compounds Advanced Analytical Techniques Stereochemistry and Asymmetric Synthesis Pericyclic Reactions Practical Course-I

6.	M.Sc -II (Drug Chemistry)	IV	CHD 461 CHD 462 CHD 463 CHD 464 A CHD 464 B Practical CHD 468 CHD 469	Synthetic Organic Chemistry Chemotherapy Drug Design Organic Chemistry Organic Chemistry Practical Course-II Practical Course-III
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8.Result :-UG(Previous year 2022-23

Sr. No.	Class	Paper	Adm	No of Student Appeared	No of Student Passed	No of Student Fail	Percentage (%)
1	F.Y.B.Sc	Chem-I	138	138	126	12	93.33
		Chem-II	138	138	111	27	80.43
		Chem-Pract.	138	138	135	03	97.82

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
F.Y.B.Sc	1	Bora shruti Vaibhav	432	86.4
	2	Kale Ashlesha Babasaheb	419	83.8
	3	Abhang Samruddhi Santosh	414.5	82.9

Sr. No.	Class	Paper	Adm	No of Student Appeared	No of Student Passed	No of Student Fail	Percentage (%)
1	S.Y.B. Sc Div- A& B Sem-1	Chem-I	91	91	54	37	59.34
		Chem-II	91	91	69	22	75.82
		Chem-Pract.	91	91	91	00	100

Sr. No.	Class	Paper	Adm	No of Student Appeared	No of Student Passed	No of Student Fail	Percentage (%)
1	S.Y.B.Sc Div- A& B Sem-2	Chem-I	91	91	45	46	49.45
		Chem-II	91	91	47	44	51.64
		Chem-Pract.	91	91	91	00	100

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage(%)
S.Y.B.Sc	1	Chaudhari Rutuja Vilas	426	85.20
	2	Dhokrat Parvati Jalindar	396	79.20
	3	Kuwar Shravani Kishor	394	78.80

Sr. No.	Class	Paper	Adm	No of Student Appeared	No of Student Passed	No of Student Fail	Percentage (%)
1	T.Y.B.Sc Sem 1	Physical 1	73	73	61	12	83.56
		polymer	73	73	63	10	86.30
		Environment chemistry	73	73	68	05	93.15
		analytical	73	73	64	09	87.67
		Physical practical	73	73	73	00	100
		Inorganic	73	73	60	13	82.19
		Organic	73	73	65	08	89.04
		Organic practical	73	73	73	00	100
		Inorganic Practical	73	73	73	00	100
		Biomolecule	73	73	73	00	100
		Inorganic Practical	73	73	73	00	100

Sr. No.	Class	Paper	Adm	No of Student Appeared	No of Student Passed	No of Student Fail	Percentage (%)
1	T.Y.B.Sc Sem 2	Physical 2	73	73	56	17	76.71
		Physical 3	73	73	69	04	94.52
		Inorganic analytical	73	73	56	17	76.71
		Physical practical	73	73	57	16	78.08
		Inorganic 3	73	73	73	00	100
		Organic 2	73	73	69	04	94.52
		Organic practical	73	73	68	05	93.15
		Inorganic Practical	73	73	73	00	100
		Organic 3	73	73	73	00	100
		Soil and aggrochemical	73	73	61	12	83.56
			73	73	71	02	97.26

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage(%)
T.Y.B.Sc	1	Shaike Zeba Rashid	782	79.82
	2	Pathan Zoya Asif	776	79.12
	3	Ilhe Swapnil Pandharinath	774	78.14

10. Result :-PG(Previous year 2022-23

Sr. No.	Class	Fail	No of Student Appeared	No of student Passed	No of student in Distinction
1	Msc.I(analytical)	09	21	12	04

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
MSc-I Analytical)	1	Kawade sonali B.	346	82.17%
	2	Thorat Aruna R.	328	77.90%
	3	Dhamale Sunita J. Tajane Harshda Y.	320	76.00%

Sr. No.	Class	Fail	No of Student Appeared	No of student passed	No of student in Distinction
1	MSc I(Drug)	01	12	11	02

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
MSc I(Drug)	1	Maid Nikita B.	300	71.25%
	2	Gawande Dnyaneshwari N.	298	71.23%
	3	Gunjal Nilam V.	294	69.82%

Sr. No.	Class	Fail	No of Student Appeared	No of student Passed	No of student in Distinction
1	Msc-I (organic)	05	20	15	05

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
Msc-I (organic)	1	Shaikh Ashiyana G.	328	77.90%
	2	Shaikh Mohammad Kaif M. R. Waman Rutuja p.	322	76.47%
	3	Dokhe Vrushali S.	318	75.52%

Sr. No.	Class	Fail	No of Student Appeared	No of student in Ist class	No of student in Distintion
1	Msc-II (organic)	07	24	13	04

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
Msc-II (organic)	1	Kale Pratibha Kailas	1535	76.75%
	2	Thosar Divya Dattaray	1495	74.75%
	3	Dighe Ajay Bhaskar	1463	73.15%

Sr. No.	Class	Fail	No of Student Appeared	No of student in Ist class	No of student in Distinction
1	MSc- II(Drug)	10	23	10	03

Rank Holder

Class	Rank No.	Name of the Student	Total Marks	Percentage (%)
MSc-II(Drug)	1	Kasar priti Gulab	1446	73.80%
	2	Gorde priyanka dattu	1457	72.85%
	3	Kale kalyani subhash	1404	70.20%

11) Aptitude Test- Beginning of the academic year 2022-23

, 48 students have applied for the M.Sc.I (Drug & Organic Chemistry) .We have conducted aptitude test of these students and 48 students selected for the said Examination

10) Enrichment Program For Advanced Learner: We have selected advanced learner students by Tutorials & 06 students selected from T.Y. B.Sc. Chemistry M. Sc. I & II Class. We have delivered the extra lectures to enrich their knowledge & score. We have also provided reference books them by library & We have also conducted extra class for solving reactions.

11) Remedial Teaching For Slow Learners:- The students who have got less marks in the Tutorials & Unit test, are students from T.Y. B.Sc. Chemistry Class We have conducted extra lectures on organized schedule for Slow learners & taught the same topic which has taught in regular class. We have also tried to develop their basic concepts & skills.

Remedial Teaching & Advanced Learners 2022-23

Statistical data

Class	Slow Learners	Advanced Learners
F.Y.B.Sc	05	04
S.Y.B.Sc	04	05
T.Y.B.Sc	05	04
M.Sc-I (Org. Ana.& DRUG)	04	05
M.Sc-II (Org.& DRUG)	03	05
Total	21	23

12) Student Evaluation:- During academic year 2022-23 our Department had conducted 04 Tutorials, 04 Unit tests & 01 Terminal examinations.

13) Guest Lectures :- Our department has been organized guest lecture under Quality improvement scheme is as under.

Sr.No.	Date	Time	Class	Name of the guest lecturer	Topic
01	16/1/2023	9 to 4	M.Sc-II (Drug & Org.)	A . L.. Wakchaure	Spectroscopic & spectrochemical aspects of organic chemistry
02	17/1/2023	9 to 4.30	M.Sc-I & II (Drug & Org.)	Prof.J.S.Shinde	1.Basic concept of stereochemistry 2. Basic concept of asymmetric synthesis 3.Principles & application of stereochemistry
03	15/3/2023	2 to 5	M.Sc-I & II (Drug & Org.)	Dr. Ajit Ekal	Instrument handling techniques. Insta vision Satara

14) Completed Refresher Courses during academic Year 2021-22(Short Term Course):-
NIL

Sr.no.	Name of The Teacher	Place	Period	Subject
1)				

15) Conducted any Seminar, Workshop, Conference during the academic year 2022-23

Sr.no.	Name of The Teacher	Place	Period	Subject
01	All chemistry staff	S.M.B.S.T.College Sangamner	13/02/2023 10.00AM TO 5.00 PM	Poster presentation NEP-2020

16) Attended any Seminar, Workshop, Conference etc. by our Departmental Staff during academic year 2021-22:NIL

Sr.no.	Name of Lecturer	Name of conference	Organized By	Date	Place

Summary:

Sr.no.	Name of Lecturer	University level	State level	National level	International level

17)Research Project On going :-NIL

Sr. no.	Name of the student	University / UGC Funded	Name of teacher	Name of the Topic	Total Cost

Research Project Completed :-NIL

Sr.no.	Name of teacher	University / UGC Funded	Subject	Name of the Topic	Total Cost
01					

18) Ph.D. Research (on giving)/ Completed:-

Research center newly granted /permitted (SPPU)

19) Details of Research Students Working in the College :-

Nil

20)Research Paper Publication :-

21) Information of book & Journal subscribed and their cost:-

Sr.No.	Particulars	Quantity	Amount
01	Text Book	----	---
02	Reference Book	43	44375
03	Journal	29	39485
04	Others	---	----

22) Budget Allocated to the Department :-

Instruments Purchased in the Department-

For UG Department

Total Cost of the Purchased Instrument for the Department in 2022-23

:- Nil

Total Cost of the Purchased Chemicals for the Department in 2022-23

Total Cost of the Purchased Glassware for the Department in 2022-23

For PG Department

Total Cost of the Purchased Instrument for the Department in 2022-23:-Nil

Total Cost of the Purchased Chemicals for the Department in 2022-23

Total Cost of the Purchased Glasswares for the department in 2022-23

Total Cost of the Purchased Books for the Department in 2022-23

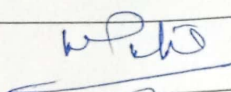
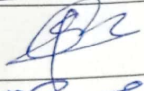
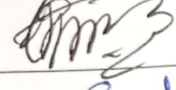
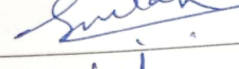
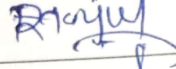
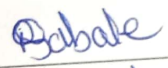
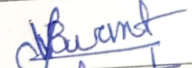
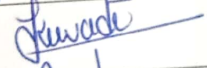
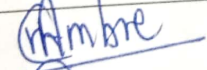
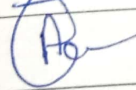
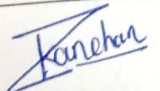
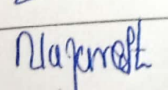
Total Cost of the Purchased Journals for the Department :-Nil

23)Prize Winners of the Department :-Nil

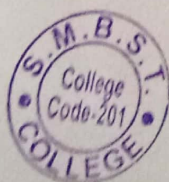
24) Best Practices of the Department:-NIL

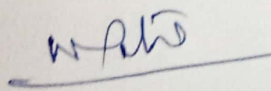
25) Future Plan of the next Academic Year i.e. 2023-24

- 1) To organize Workshop for farmers on Soil & water Testing
- 2) To organize Student seminar
- 3) The Department interested to conduct Chemiad Examination for F.Y.B.Sc
- 4) To organize Guest Lecture for PG Students
- 5) To organize Chem fair
- 6) To Organize NET/SET Workshop
- 7) To organize Campus Interview for B.Sc/M.Sc Drug Chemistry
- 8) To organize Parent Meet
- 9) To organize Alumni Meet
- 10) To Establish research center

Sr.No.	Name of The Teacher	Sign
1)	Dr. D.D.Patil	
2)	Dr.S.S.Borhade	
3)	Prof.S.B.Surve	
4)	Prof. D.C. Pawar	
5)	Dr.S.C. Dandwate	
6)	Prof.R.K.Manjul	
7)	Dr.S.P.Goskulwad	
8)	Prof. R.S.Sabale	
09	Prof .V.B.Savant	
10	Prof .S.S.kawade	
11	Prof.M.B. Ambre	
12	Prof.A.M.Aher	
13	Prof.K.K.Hase	
14	Prof.S.L.Nagare	


Dr. Shobha Borhade
Dr. S. S. Borhade
HOD Dept. of Chemistry
S.M.B.S.T. College, Sangamner




Dr. D.D.Patil
Principal
S.M.B.S.T. College, Sangamner