

DEPARTMENT OF CHEMISTRY

Annual Report 2020-21

1) Date of Establishment of The Department

- UG-June 1991.
- PG(Drug Chemistry) - June 2009.
- PG(Organic Chemistry) - June 2020.

2) Built Up Area of The Department In Sq.Ft.:-

Sr.No	Year	Name of the lab	Area in square Ft
1)	2020-21	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 2020-21 :

UG:

Sr.No.	Class	Male	Female	Total
1)	F.Y.B.Sc	66	111	177
2)	S.Y.B.Sc	58	96	154
3)	T.Y.B.Sc	35	60	95
	Total	159	267	426

PG:

Sr.No.	Class	Male	Female	Total
1)	MSc-I (org)	15	11	26
2)	MSc-I (Drug)	15	11	26
3)	MSc- II (org)	12	11	23
4)	MSc- II (Drug)	06	13	19
	Total	48	46	94

04) Number of Teaching Staff : UG :09.

Sr.No.	Name of Teacher	Qualification	Experience
1)	Dr. D.D.Patil	M.Sc.(Physical Chemistry)B.Ed.,M.phil.,Ph.D.	34 Yrs.
2)	Dr.S.S.Borhade	M.Sc.(Physical Chemistry)M.Ed.,Ph.D	29 Yrs.
3)	Prof.S.B.Surve	M.Sc.(Inorganic Chemistry)B.Ed.	28 Yrs.
4)	Prof. D.C. Pawar	M.Sc.(Physical Chemistry)	27 Yrs.
5)	Dr.S.C. Dandwate	M.Sc.(Analytical Chemistry)Ph.D	28 Yrs.
6)	Prof.R.K.Manjul	M.Sc.(Organic Chemistry)NET,SET,M.Phil	01 Yrs.
7)	Dr.S.P.Goskulwad	M.Sc.(Organic Chemistry)NET(JRF),Ph.D	01 Yrs.
8)	Prof.R.C Kadlag	M.Sc (Drug Chemistry),B.Ed.	06 Yrs.
9)	Prof.P.V.Nathe	M.Sc(Organic Chemistry)	01 Yrs.

Number of Teaching Staff : PG : 09.

Sr.No.	Name of Teacher	Qualification	Experience
1)	Dr. D.D.Patil	M.Sc.(Physical Chemistry)B.Ed.,M.phil.,Ph.D.	34 Yrs.
2)	Dr.S.S.Borhade	M.Sc.(Physical Chemistry)M.Ed.,Ph.D	29 Yrs.
3)	Prof.S.B.Surve	M.Sc.(Inorganic Chemistry)B.Ed.	28 Yrs.
4)	Prof. D.C. Pawar	M.Sc.(Physical Chemistry)	27 Yrs.
5)	Dr.S.C. Dandwate	M.Sc.(Analytical Chemistry)Ph.D	28 Yrs.
6)	Prof.R.K.Manjul	M.Sc.(Organic Chemistry)NET,SET,M.Phil	01 Yrs.
7)	Dr.S.P.Goskulwad	M.Sc.(Organic Chemistry)NET(JRF),Ph.D	01 Yrs.
8)	Prof.R.C Kadlag	M.Sc (Drug Chemistry),B.Ed.	06 Yrs.
9)	Prof.P.V.Nathe	M.Sc(Organic Chemistry)	01 Yrs.

05) Work-Load : UG: 168.

Sr.No	Class	No. of Students	Theory	Practical	Total
1)	F.Y.B.Sc	177	03 × 02=06 03 × 02=06	08×04=32	12+32=44
2)	S.Y.B.Sc.	154	04 × 02 = 08 04 × 02 = 08	09×04=36	16+36=52
3)	T.Y.B.Sc.	95	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	04	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	04	07
		S.Y.B.Sc	...	...	...
		T.Y.B.Sc	04	10	14
	Total		07	14	21
4)	Dr.S.C.Dandwate	F.Y.B.Sc.	..	04	04
		S.Y.B.Sc	04	04	08
		T.Y.B.Sc	04	04	08
	Total		08	12	20
5)	Prof.R.K.Manjul	F.Y.B.Sc.	03	04	07
		S.Y.B.Sc	04	08	12
		T.Y.B.Sc	02	..	02
	Total		09	12	21
6)	Dr.S.P.Goskulwad	F.Y.B.Sc.	..	04	04
		S.Y.B.Sc	04	12	12
		T.Y.B.Sc	02	04	06
	Total		06	20	26
7)	Prof.R.C.Kadlag	F.Y.B.Sc.	..	12	12
		S.Y.B.Sc	..	..	..
		T.Y.B.Sc	02	04	06
	Total		02	16	18
8)	Prof.P.V.Nathe	F.Y.B.Sc.	03	04	07
		S.Y.B.Sc	...	...	...
		T.Y.B.Sc	02	14	16
	Total		05	18	23
	Total workload		52	116	52+116=168
				Total	168

Distribution of Workload PG :242.

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.	
1	Dr.D.D.Patil	02	-	-	-	-	-	02
2	Dr.S.S.Borhade	-	-	--	09	-	-	09
3	Prof.R.C.Kadlag	-	-	-	09	-	-	09
4	Prof.R.K.Manjul	-	-	-	-	02	10	12
6	Prof.S.A.Khule	08	21	-	-	08	15	52
8	Prof.S.A.Tambe	04	21	08	10	-	10	53
9	Prof.P.B.Autade	04	21	-	10	06	15	56
10	Prof.P.V. Nathe	02	21	08	15	-	04	50
	Total	18	84	16	54	16	54	242

06) 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 & 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 & Organic chem)	II	CHP-210 CHI-230 CHO-250 CHG-290	Physical Chemistry-II Inorganic chemistry-II Organic chemistry-II General chemistry-II Theory & Practical Basic Practical Chemistry-II

			CHP-227	
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

07) Result :-Ug (Previous Year 2020-21)

Sr.No	Class	Adm..	App.	Pass	Fail	Abs.	%
1.	F.Y.B.Sc						
	CH-I	131	131	131	00	00	100
	CH-II	131	131	131	00	00	100
	CH-III	131	131	131	00	00	100
2.	S.Y.B.Sc						
	CH-I	141	141	141	00	00	100
	CH-II	141	141	141	00	00	100
	CH-III	141	141	141	00	00	100

3.	T.Y.B.Sc						
	CH-I	92	91	91	01	00	98.91
	CH-II	92	92	92	00	00	100
	CH-III	92	92	92	00	00	100
	CH-Iv	92	92	92	00	00	100
	CH-V	92	92	92	00	00	100
	CH-VI	92	92	92	00	00	100
	Practical						
	CH-I	92	92	92	00	00	100
	CH-II	92	92	92	00	00	100
	CH-III	92	92	92	00	00	100

Rank Holders

Class	Rank no.	Name of the student	Total Marks	%
T.Y.B.Sc	1	Kadlag Saurabh Gorakshanth	1066	88.83
	2	Waman Rutuja Sandip	1050	87.50
	3	Kshirsagar Anjali Bhagvan	1041	86.75

08). Result :-PG (Previous Year 2020-2021)

Sr.No	Class	Adm..	App.	Pass	Fail	Abs.	%
1.	M.Sc-I (Org.C hem) Sem-I	26	26	26	00	00	100
	CHP-110	26	26	26	00	00	100
	CHI-130	26	26	26	00	00	100
	CH0-150	26	26	26	00	00	100
	CHA-190	26	26	26	00	00	100
	M.Sc-I (Org.C hem) Sem-II						
	CHP-107 Prac.	26	26	26	00	00	100
	CHI-147 Prac.	26	26	26	00	00	100

	CHP-210	26	26	26	00	00	100
	CHI-230	26	26	26	00	00	100
	CHO-250	26	26	26	00	00	100
	M.Sc-I (Drug Chem) Sem-I						
	CHP-110	26	26	26	00	00	100
	CHI-130	26	26	26	00	00	100
	CHO-150	26	26	26	00	00	100
	CHA-190	26	26	26	00	00	100
	CHP-108 Prac.	26	26	26	00	00	100
	M.Sc-I (Drug Chem) Sem-II						
	CHP-210	26	26	26	00	00	100
	CHI-230	26	26	26	00	00	100
	CHO-250	26	26	26	00	00	100
	CHA-290	26	26	26	00	00	100
	CHD-248 Prac.	26	26	26	00	00	100
	CHD-128 Prac.	26	26	26	00	00	100
	M.Sc-II (Drug Chem) Sem-III						
	CHD-361	23	23	23	00	00	100
	CHD-362	23	23	23	00	00	100
	CHD-363	23	23	23	00	00	100

CHD-364 A&B	23	23	23	00	00	100
CHD-367	23	23	23	00	00	100
M.Sc-II (Drug Chem) Sem-IV						
CHD-461	23	23	23	00	00	100
CHD-462	23	23	23	00	00	100
CHD-463	23	23	23	00	00	100
CHD-464 A&B	23	23	23	00	00	100
CHD-468	23	23	23	00	00	100
CHD-469	23	23	23	00	00	100
CHD-461	23	23	23	00	00	100

Rank Holders

Class	Rank no.	Name of the student	Total Marks	%
Msc II Org Chem	1	Kotkar Shubham Shivaji	1595	79.75 %
	2	Gade Prasad Goraksha	1550	77.50 %
	3	Jondhale Shubham Ganpat	1543	77.15 %

09) Aptitude Test .

10) Enrichment Program For Advanced Learner.

11) Remedial Teaching For Slow Learners.

Remedial Teaching & Advanced Learners 2020-21 : Nil.

12) Student Evaluation.

13) Guest Lectures :- Nil.

14) Completed Refresher Courses During Academic Year 2020-21

(Short Term Course):-Nil

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

15)) Conducted Any Seminar, Workshop, Conference During The Academic Year 2020-21

Sr.no.	Name of The Teacher	Place	Period	Subject
-	-	-	-	-

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

Research Project Completed :-

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

18) Ph.D. Research (On Giving)/ Completed:-

Research Centre Newly Granted /permitted (SPPU)

19) Details Of Research Students Working In The College :-

Nil

20)Research Paper Publication :-

- 1) Dr.S.C.Dandwate :- 1)Mrudasavardhanasathishetkaryanmadhildurdarshitamulyancheadhyayan
- 2) An International multidisciplinary quarterly research journal.

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 :-

Nil

For UG Department

Total Cost of the Purchased Instrument for the Department in 2020-21:- Nil

Total Cost of the Purchased Chemicals for the Department in 2020-21 Nil

Total Cost of the Purchased Glassware for the Department in 2020-2021 Nil

For PG Department

Total Cost of the Purchased Instrument for the Department in 2020-21:-Nil

Total Cost of the Purchased Chemicals for the Department in 2020-21

Total Cost of the Purchased Glasswares for the department in 2020-21 Nil

Total Cost of the Purchased Books for the Department in 2020-21 Nil

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

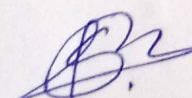
23)Prize Winners of The Department:-Nil

24) Best Practices of The Department:-

Sr.No.	Programme
1	Chemiad Examination
2	Soil water testing
3	Industrial visit
4	Departmental Staff donated books for Departmental library

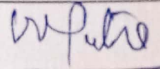
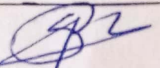
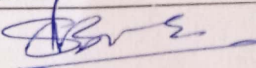
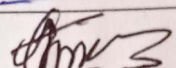
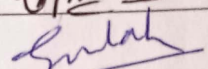
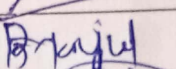
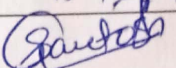
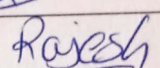
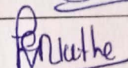
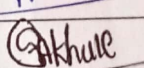
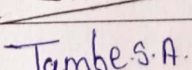
25) Future Plan of The Next Academic Year I.E. 2021-2022

- 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


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




Dr. D. D. Patil
प्राचार्य
सहकार महर्षी भाऊसाहेब संतुजी थोरात
कला, विज्ञान व वाणिज्य महाविद्यालय
संगमनेर, जि. अहमदनगर (४२२६०५)

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.C.Kadlag	
09	Prof . P.V.Nathe	
10	Prof .S.A.Khule	
11	Prof.S.A. Tambe	
12	Prof.P.B.Autade	