



Maratha.Vidya Prasarak Samaj's  
**Arts, Science and Commerce College, Ozar (MIG)**

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**DEPARTMENT OF CHEMISTRY**

**Year – 2017-2018**

(Provide information for last five years from 2013-14 to 2017-18)

1. Name of the Department: **Chemistry**
2. Year of establishment: **June 1984**
3. Courses offered: UG and PG

Year	UG	PG
2013-14	Yes	No
2014-15	Yes	No
2015-16	Yes	No
2016-17	Yes	No
2017-18	Yes	No

4. Courses introduced during last 5 years:

Year	Name of the course introduced
2013-14	Nil
2014-15	Nil
2015-16	Nil
2016-17	Nil
2017-18	Nil

5. Does the department have Academic flexibility? If yes since when?

Year	Class	Course options with course code
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<b>2013-14</b>	T.Y.B.Sc.	Sem-III Nuclear chemistry -CH-336A Polymer chemistry CH-336B Biochemistry and molecular chemistry CH-336C Environmental and green chemistry CH-336D Agriculture Chemistry CH-336E Sem-IV Nuclear chemistry -CH-346A Polymer chemistry CH-346B Biochemistry and molecular chemistry CH-346C Environmental and green chemistry CH-346D Dairy Chemistry CH-346E
<b>2014-15</b>	T.Y.B.Sc.	Sem-III Nuclear chemistry -CH-336A Polymer chemistry CH-336B Biochemistry and molecular chemistry CH-336C Environmental and green chemistry CH-336D Agriculture Chemistry CH-336E Sem-IV Nuclear chemistry -CH-346A Polymer chemistry CH-346B Biochemistry and molecular chemistry CH-346C Environmental and green chemistry CH-346D Dairy Chemistry CH-346E
<b>2015-16</b>	T.Y.B.Sc.	Sem-III Nuclear chemistry -CH-336A Polymer chemistry CH-336B Biochemistry and molecular chemistry CH-336C Environmental and green chemistry CH-336D Agriculture Chemistry CH-336E Sem-IV Nuclear chemistry -CH-346A Polymer chemistry CH-346B Biochemistry and molecular chemistry CH-346C Environmental and green chemistry CH-346D Dairy Chemistry CH-346E ry
<b>2016-17</b>	T.Y.B.Sc.	Sem-III Nuclear chemistry -CH-336A Polymer chemistry CH-336B Biochemistry and molecular chemistry CH-336C Environmental and green chemistry CH-336D Agriculture Chemistry CH-336E Sem-IV Nuclear chemistry -CH-346A Polymer chemistry CH-346B Biochemistry and molecular chemistry CH-346C Environmental and green chemistry CH-346D Dairy Chemistry CH-346E

<b>2017-18</b>	T.Y.B.Sc.	Sem-III Nuclear chemistry -CH-336A Polymer chemistry CH-336B Biochemistry and molecular chemistry CH-336C Environmental and green chemistry CH-336D Agriculture Chemistry CH-336E Sem-IV Nuclear chemistry -CH-346A Polymer chemistry CH-346B Biochemistry and molecular chemistry CH-346C Environmental and green chemistry CH-346D Dairy Chemistry CH-346E
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**6. Interdisciplinary programs offered and departments involved:**

<b>Year</b>	<b>Class</b>	<b>Interdisciplinary course( Name and course code) taught by department</b>
<b>2013-14</b>	SYBSc	Environmental Awareness
<b>2014-15</b>	SYBSc	Environmental Awareness
<b>2015-16</b>	SYBSc	Environmental Awareness
<b>2016-17</b>	SYBSc	Environmental Awareness
<b>2017-18</b>	SYBSc	Environmental Awareness

**7. Examination System: Annual/ Semester/Choice Based Credit System/ Credit and Grading system/ any other system, specify:**

There is annual examination pattern for F.Y.B.Sc and each subject is for 100 marks ,out of which internal exam is for 20 marks and annual exam for 80 marks. The assessment of F.Y.B.Sc is done in college by following the rules and regulations of SPPU. SY and T.Y.B.Sc examination pattern is semester wise, for each semester internal exam is for 10 marks and theory exam for 40 marks. For practical there is only annual pattern in which 20 marks for internal and 80 marks for experimental work

**8. Participation of the department in the curriculum development for courses offered by the Departments.**

- Our faculty members are actively participated in curriculum design workshop conducted by the SPPU, Pune at S.Y.B.Sc in chemistry at KTHM college.

<b>Year</b>	<b>Name of the Teacher</b>	<b>Syllabus revision workshop attended</b>	<b>Suggestions made if any</b>
2013-2014	Prof. H.D. Kale	Yes (01)	--
	Prof. N.T. Date	Yes (01)	--
2014-2015	Nil	Nil	Nil
2015-2016	Nil	Nil	Nil
2016-2017	Nil	Nil	Nil
2017-2018	Nil	Nil	Nil

**9. Number of teaching posts sanctioned, filled and vacant.**

<b>Year</b>	<b>Designation</b>	<b>Sanctioned</b>	<b>Filled</b>	<b>Vacant</b>
2013-2014	Associate Professor	03	03	----
	Assistant Professor	01	01	--
	Total	04	04	Nil
2014-2015	Associate Professor	04	04	---
	Assistant Professor	-	-	--
	Total	04	04	Nil
2015-2016	Associate Professor	04	04	----
	Assistant Professor			--
	Total	04	04	Nil
2016-2017	Professor			--
	Associate Professor	03	03	----
	Assistant Professor	01	01	--
	Total	05	04+01 (Principal)	Nil
2017-018	Professor			--
	Associate Professor	03	03	---
	Assistant Professor	03	03	--
	Total	06	04+02 (Principal)	Nil

**10. Faculty profile with name, qualification, designation, experience, nature of appointment (permanent/temporary):**

**Appointed on Government Sanctioned Post.**

Year	Name	Designation	Qualifications	Teaching/Research Experience	Nature of appointment Permanent /Temporary
2013-2014	Prof. D. Z.Borse	Asso. Prof.	M.Sc. BEd.	29yrs	Permanent
	Prof. H. D. Kale	Asso. Prof.	M.Sc. LLB	25yrs	Permanent
	Prof. N.T.Date	Asso. Prof.	M.Sc. DHE.	25yrs	Permanent
	Prof. M.P.Dushing	Assi. Prof.	M.Sc. NET SET.	2 Yrs	Permanent
2014-2015	Prof. D. Z.Borse	Asso. Prof.	M.Sc. BEd.	30yrs	Permanent
	Prof. H. D. Kale	Asso. Prof.	M.Sc. LLB	26yrs	Permanent
	Prof. N.T.Date	Asso. Prof.	M.Sc. DHE.	26yrs	Permanent
	Prof.B.S.Shinde (joined wef 27/8/2014)	Asso. Prof.	M. Sc. M.PHIL	29 yrs	Permanent
	Prof M.P.Dushing Transfer wef 26/8/2014)	Assi. Prof.	M.Sc. NET SET.	2 Yrs	Permanent
2015-2016	Prof. D. Z.Borse	Asso. Prof.	M.Sc. BEd.	31yrs	Permanent
	Prof. H. D. Kale	Asso. Prof.	M.Sc. LLB	27yrs	Permanent
	Prof. N.T.Date	Asso. Prof.	M.Sc. DHE.	27yrs	Permanent
	Prof.B.S.Shinde (Transfer wef 29-12-2015)	Asso. Prof.	M. Sc. M.PHIL	28 yrs	Permanent
	Prof. A.M.Bhagare (Joined wef 30-12-2015)	Assi. Prof.	M.Sc. B.Ed NET	13 yrs	Permanent

2016-2017	Dr.S.V. Patil (Joined wef 11.10.2016)	Principal	M.Sc. Ph. D.	29Yrs	Permanent
	Prof. D. Z.Borse	Asso. Prof.	M.Sc. BEd.	32yrs	Permanent
	Prof. H. D. Kale	Asso. Prof.	M.Sc. LLB	28yrs	Permanent
	Prof. N.T.Date	Asso. Prof.	M.Sc. DHE.	28yrs	Permanent
	Prof. A.M.Bhagare	Assi. Prof.	M.Sc. B.Ed NET	14 yrs	Permanent
2017-2018	Dr.S.V. Patil	Principal	M.Sc. Ph. D.	30 yrs	Permanent
	Prof. D. Z.Borse (Retired June 2017)	Asso. Prof.	M.Sc. BEd.	33 yrs	Permanent
	Prof. H. D. Kale	Asso. Prof.	M.Sc. LLB	29 yrs	Permanent
	Prof. N.T.Date	Asso. Prof.	M.Sc. DHE.	29 yrs	Permanent
	Prof. A.M.Bhagare	Assi. Prof.	M.Sc. B.Ed NET	15 yrs	Permanent
	Prof. Smt.C.B. Pawar (Joined wef 14-09-2017)	Assi. Prof.	M.Sc. B.Ed SET	--	Temporary
	Prof. Smt.B. L. Ugale (Joined wef 22-11-2017)	Assi. Prof.	M.Sc.	--	Temporary

**11. List of Visiting Fellows/Teachers, Adjunct and Emeritus Professors, (for last 5 years).**

Year	Name of the Visiting person	Class	Topic covered	Duration
<b>2013-14</b>				
<b>2014-15</b>	--	--	--	--
<b>2015-16</b>	--	--	--	--
<b>2016-17</b>	--	--	--	--
<b>2017-18</b>	Prof.D.Z.Borse	T.Y.B.Sc	Physical chemistry	June 2017 to Sept. 2017( 03 months)

**12. Programme-wise Student Teacher Ratio: (Average of 5 Years)**

Year	Program name	Total number of students admitted	Student-Teacher ratio
2013-14	F.Y.B.Sc.	105	43.5:1
	S.Y.B.Sc.	38	
	T.Y.B.Sc.	31	
	<b>Total</b>	174	
2014-15	F.Y.B.Sc.	119	46.25:1
	S.Y.B.Sc.	50	
	T.Y.B.Sc.	16	
	<b>Total</b>	185	
2015-16	F.Y.B.Sc.	130	51.5:1
	S.Y.B.Sc.	56	
	T.Y.B.Sc.	20	
	<b>Total</b>	206	
2016-17	F.Y.B.Sc.	130	45.2:1
	S.Y.B.Sc.	71	
	T.Y.B.Sc.	25	
	<b>Total</b>	226	
2017-18	F.Y.B.Sc.	138	41:1
	S.Y.B.Sc.	69	
	T.Y.B.Sc.	39	
	<b>Total</b>	246	

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

Sr. No.	Posts	Sanctioned posts	Filled	Actual
1	Laboratory Assistant	01	01	01
	Laboratory Attendant	02	02	02



**14. Thrust areas of research as identified by the department:**

To synthesize the hetrocyclic compounds and study there physicochemical properties like bond length, bond energy, viscosity ,density, electrical conductivity etc . To study the solute-solute and solute solvent interactions of different solutes and solvent at various temperature. One pot synthesis of various organic compounds. Determination of different parameters from vegetables, soil and water.

**15. Information about research grants, projects completed and ongoing during the period of last 5 years**

- a) **From University and National funding agencies (like BCUD,UGC, CSIR, DST, DBT etc):**

Sr. No.	Name of the Principle Investigator (C0-investigator)	Title of the Project	Funding Agency, Duration & date of sanction	Amount (in Lakh)	Period of work	Remarks if any
1	Mr. Arun M. Bhagare	Synthesis of Benzodiazepine derivatives : Study of their biological activities	BCUD	1.90	2016-18	Ongoing

**16. Research facilities available in the department and recognition received, if any?**

The following instruments are available in the research laboratory .

- 1)Muffle furnace
- 2)Autoclave
- 3) Distillation Assembly
- 4) Refrigerator
- 5)Suction pump
- 6) Digital Balances
- 7) Centrifugal Machine
- 8) pH-Meters
- 9) Refractometer
- 10) Melting Point Apparatus
- 11)Vaccum pump

**17. Publications:**

Year	Paper Published in peer review journal	Whether journal UGC listed or not	Monographs, Books, Chapters in books	Citation	h-index	Average Impact Factor
2013-14	--	---	--	--	--	--
2014-15	--	--	--	--	--	---
2015-16	---	--	--	--	--	--
2016-17	1	No	--	--	-	-
2017-18	3	Yes	--	--	--	--
Total	4	...				

Sr. No.	Title of paper	Name of The Author/S	Department	Name of Journal	Year of publication	ISBN/ISSN number	Impact Factor
1)	Synthesis of Thiazolidone derivatives from 4-amino-2-chloroquinone	Balasaheb P. Pagar, <b>Arun M Bhagare,</b> Amol H. Kategaonkar, Raghunath B. Toche	Chemistry	Pursuit: a half yearly international journal	2016	ISSN: 2393-2649	
2)	Synthesis of Tetraaza-chrysen-5-one and cyclopenta[a]phenanthren-7-one derivatives from 4-Aminoquinoline	Balasaheb P. Pagar, <b>Arun M Bhagare,</b> Amol H. Kategaonkar, Ravindra R. Zoman	Chemistry	Scholarly research Journal for Interdisciplinary Studies  Special Issue Jan-Mar,2017 Vol.6,Issue 21	2017	Online ISSN 2278-8808  Printed ISSN 2319-4766	
3)	Solvent free Greener Approach to synthesize 4,5-Diphenyl-1H-imidazoltetrazolo[1,5-a] quinoline	Amol H. Kategaonkar,  Manohar K. Jopale, Santosh S. Katkar, <b>Arun M.Bhagare,</b> Balasaheb P. Pagar	Chemistry	Scholarly research Journal for Interdisciplinary Studies  Special Issue Jan-Mar,2017 Vol.6,Issue 21	2017	Online ISSN 2278-8808  Printed ISSN 2319-4766	
4)	A simple and efficient one pot synthesis of 2,4 dioxypyrimidine carbonitrile and 4-oxo-2-thioxypyrimidine carbonitrile derivatives using ammonium chloride under solvent free conditions	M.R.Gaware,  J.S.Aher, D.D.Lokhande,  P.J.Tambade  <b>A.M. Bhagare</b>	Chemistry	Indian Journal of Chemistry, Vol.56B, September 2017, pp.997-999	2017	ISSN 0975-0983(online)  0376-4699 (print)	
5)	Heavy metal contamination in vegetables collected from different market sites in and around Nashik city (Maharashtra)	<b>Arun M. Bhagare</b>	Chemistry	'Research Journey' International Multidisciplinary E-Research Journal, Special Issue 45: Agro Base Industries & Environment, UGC Approved No. 40705 & 44117, Feb.2018	2018	ISSN 2348-7143,  CIF-3.452, SJIF-3.009,  GIF-0.676	
6)	Investigation of bond Lengths, Bond Angles, Thermodynamic properties and Chemical Reactivity of N-(4-Methoxy Phenyl) Maleanilic Acid, and N-(Methoxy Phenyl) Maleamide by DFT method	D.D. Lokhande,  <b>A.M. Bhagare,</b>  J.S. Aher	Chemistry	International Journal of Chemical and Physical Sciences, Vol.7,special Issue ICAFM- March 2018	2018	ISSN : 2319-6602	

**18. Consultancy services provided, name of the teacher/s and income generated:**

<b>Sr. No.</b>	<b>Year</b>	<b>Name of the teacher</b>	<b>Nature of consultancy</b>	<b>Funds generated (In Lakh)</b>
1	2013-14	Nil	Nil	Nil
2	2014-15	--	--	--
3	2015-16	--	--	--
4	2016-17	--	--	--
5	2017-18	--	--	--

**19. Details of teachers invited as resource persons for Refresher courses, Orientation courses, Seminars, Workshops, Conferences at University, State national and international levels.**

<b>Year</b>	<b>Name of Teacher</b>	<b>Levels</b>	<b>Refresher</b>	<b>Orientat ion</b>	<b>Seminars</b>	<b>Workshops</b>	<b>Conferences</b>
2013-14	Nil	Nil	Nil	Nil	Nil	Nil	Nil
2014-15	--		--	--	--	--	--
2015-16	--		--	--	--	--	--
2016-17	--		--	--	--	--	--
2017-18	--		--	--	--	--	--

**20. Details of teachers participated in Refresher courses, Orientation courses, Seminars, Workshops, Conferences at national and international levels.(participant, presented paper, chaired the session)**

<b>Year</b>	<b>Orie ntati on cour se</b>	<b>Refres her course</b>	<b>ST C</b>	<b>Seminar</b>	<b>Work shop</b>	<b>Confe rence</b>	<b>Level</b>	<b>Parti cipat ed</b>	<b>Paper prese nted</b>	<b>Chaire d the session</b>
<b>2013-14</b>		--		--	2	1	National	3		
		--		--	--	--	--			
		--		--	--	--	--			
		--		--	--	--	--			
<b>2014-15</b>		--		1		--	State	1		
		--		2		--	National	2		
		--				2	National	2		
		--		--		--	--			
<b>2015-16</b>		--		12		--	State	12		
		--		3		--	National	3		
		--		--		--	--			
		--		--		--	--			
<b>2016-17</b>		--		--	3	--	District	3		
				--		2	Internatio nal	2		
		--		--		1	Internatio nal		1	
				--		--	--			
<b>2017-18</b>		--		2			State	2		
		--			2		University	2		
						1	University	1		
		--		--	--	1	Internatio nal	1		
		--	1	--	--	--	--			
<b>Total</b>	-	--	1	20	7	8		34	1	

**21. Participation of teachers in various academic activities as members of committees at University level, State level, National level, International level bodies. (give details)**

Year	Name of the teacher	Name of the committee	Level
2013-2014	Prof.D.Z.Borse	External Senior Supervisor	University
	Prof H.D.Kale	Examination Committee	University
	Prof N.T.Date	-	-
	Prof .B.S Shinde	-	-
			-
2014-2015	Prof.D.Z.Borse	External Practical examiner	University
	Prof H.D.Kale	External Practical examiner	University
	Prof N.T.Date	-	-
	Prof .B.S Shinde	-	-
2015-2016	Prof.D.Z.Borse	External Practical examiner	University
	Prof H.D.Kale	External Practical examiner	University
	Prof N.T.Date	-	-
	Prof .B.S Shinde	-	-
	Prof.A.M.Bhagare	-	-
2016-2017	Dr S.V. Patil	-	-
	Prof.D.Z.Borse	External Practical examiner	University
	Prof H.D.Kale	External Practical examiner	University
	Prof N.T.Date	External Practical examiner	University
	Prof A.M.Bhagare	Examiner committee	University
2017-2018	Prof H.D.Kale	1.Examiner committee	University
		2.Practical examiner	University
	Prof N.T.Date	External Practical examiner	University
	Prof A.M.Bhagare	Examiner committee	University
	Prof .B.S Shinde	-	-

**22. Details of teachers appointed/nominated on Editorial Boards at university, state, national and international levels.**

<b>Year</b>	<b>Name of teacher</b>	<b>Editorial Boards</b>	<b>appointed/nominated on</b>	<b>Level</b>
2013-14	--	--	--	--
2014-15	--	--	--	----
2015-16	--		--	--
2016-17	--	--	--	--
2017-18	--	--	--	--

**23. Awards / Prizes and recognitions received by teachers at university, state, national and international level:**

➤ Nil

**24. Awards / Prizes and recognitions received by teachers at local, above local and Institute level state, national and international level:**

➤ Nil

**25. Awards and Prizes received by students at university, state, national and international level:**

➤ Nil

**26. Details of Seminars/ Conferences/Workshops organized at university, state, national and international level and the source of funding with details:**

<b>Name of Conference/ Seminars / Workshops</b>	<b>Funding agency</b>	<b>No. of Participants</b>	<b>University/State/National/ International</b>	<b>Dates</b>
One day seminar on Chemistry in Drug Discovery and Material Science	BCUD SPPU Pune	180	State Level	20 Jan 2018

## 27. Student profile programme-wise at UG and PG

Year	UG/PG	Class	Applications Received	No. of students Admitted	Seats Available	Male	Female	Total
2013-14	UG	F.Y.B.Sc.	105	105	120	43	62	105
		S.Y.B.Sc.	38	38	120	08	30	38
		T.Y.B.Sc.	31	31	120	15	16	31
2014-15	UG	F.Y.B.Sc.	119	119	120	53	66	119
		S.Y.B.Sc.	50	50	120	09	41	50
		T.Y.B.Sc.	16	16	120	04	12	16
2015-16	UG	F.Y.B.Sc.	130	130	120	58	72	130
		S.Y.B.Sc.	56	56	120	15	41	56
		T.Y.B.Sc.	20	20	120	06	14	20
2016-17	UG	F.Y.B.Sc.	130	130	120	58	72	130
		S.Y.B.Sc.	71	71	120	29	42	71
		T.Y.B.Sc.	25	25	120	06	19	25
2017-18	UG	F.Y.B.Sc.	138	138	120	70	68	138
		S.Y.B.Sc.	69	69	120	27	42	69
		T.Y.B.Sc.	39	39	120	14	25	39

## 28. Year-wise results of students at UG and PG:

UG	Year	Class	Appeared	Passed	Pass %	Grade %			
						Distinction	First class	Second class	Pass
UG	2013-14	T.Y.B.Sc. (31)	31	14	45%	05	07	02	---
		S.Y.B.Sc (38)	34	06	17.64%	01	02	03	--
		F.Y.B.Sc (105)	90	48	53.33%	05	02	08	33
UG	2014-15	T.Y.B.Sc (16)	16	05	31.25%	----	04	01	---
		S.Y.B.Sc (50)	50	15	30%	07	8	0	--
		F.Y.B.Sc (119)	101	43	42.57%	08	17	15	03
UG	2015-16	T.Y.B.Sc	20	09	45%	03	05	01	----



		(20)							
		S.Y.B.Sc (56)	56	10	17.34%	06	02	02	---
		F.Y.B.Sc (130)	122	27	22.13%	06	08	11	02
UG	2016-17	T.Y.B.Sc (25)	25	09	36%	07	02	---	--
		S.Y.B.Sc (71)	67	12	17.91%	01	10	01	---
		F.Y.B.Sc (130)	111	38	34.33%	04	15	18	01
UG	2017-18	T.Y.B.Sc (39)	38	15	39.5%	04	11	--	---
		S.Y.B.Sc (69)	67	29	42.02%	08	20	1	---
		F.Y.B.Sc (138)	127	35	27.55	07	12	15	01

### 29. Diversity of Students : (Year-wise)

Name of the Programme		% of students from the same university	% of students from other universities within the State	% of students from universities outside the State
UG	2013-2014	100%	Nil	Nil
UG	2014-2015	100%	---	---
UG	2015-2016	100%	---	----
UG	2016-2017	100%	---	----
UG	2017-2018	99.988%	---	0.012 %

**30. Number of students cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give Category wise data.**

Year	MPSC/UPSC	NET/ SET	GATE	Other Exams	Total
2013-14	--	--	--	--	--
2014-15	--	--	--	--	--
2015-16	--	--	--	--	--
2016-17	--	--	--	--	--
2017-18	--	--	--	--	--

**31. Student progression/ placement record: Number/ percentage of students proceeded for higher studies Number/percentage of students placed:**

Year	% proceeded for higher studies		% of student placed
	% UG to PG	PG to Ph.D./ M.Phil	
2013-14	12.90	--	9.68
2014-15	31.25	--	31.25
2015-16	25	--	05
2016-17	28	--	08
2017-18	28	--	Nil

**32. Diversity of Faculty:**

Teaching faculty	%
from the same university	100 %
from other universities within the State	00
from other States	00
from outside the country	00

**33. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. / D.Lit.:**

Year	Number of teachers	M.Phil	Ph.D
2013-14	--	--	--
2014-15	--	--	--
2015-16	--	--	--
2016-17	--	--	--

2017-18	--	--	--
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### 34. Present details of departmental infrastructural & other facilities with regard to

a) Central Library Books and Journals, etc, relevant to Department	:	Magazine = 03; Reference Books = 105 Text Books = 366
b) Departmental Library (books, journals etc.)	:	Reference = 09 and Text Book = 151
c) Computers and Internet facilities for staff	:	Computer: 02 Internet Connection: 01 Printer = 01
d) Class rooms with ICT facility	:	--
e) Students' laboratory	:	02
f) Research laboratories	:	01
g) Seminar Hall	:	Common seminar hall
h) Smart class room	:	--
i) Any other facility LCDs,	:	--

### Curricular Aspects:

**a) Does the faculty take initiative in curriculum development process? If Yes, mention the initiative taken**

- Yes
- Faculty member of Chemistry department are actively participated in curriculum design workshop at SY.BSc and TY B.Sc. organized by different colleges under the SPPU, Pune.

Sr. No.	Name of the Teacher	Class	Place	Date
1	Prof. H.D. Kale	S.Y.B.Sc.	KTHM College Nashik	13 Dec.2013
2	Prof. N.T. Date	S.Y.B.Sc.	KTHM College Nashik	13 Dec.2013

**b) Is curriculum suitable to make students globally competitive in the subject? If yes, substantiate.**

Yes , It is helpful for post graduation. Number of students taking the admission in the same as well as other university by qualifying the entrance examination for PG course.

The curriculam is designed by our SPPU and we follow it.

c) **Does the department offer program with sufficient no. of electives options.**

➤ **At TYBSc (Chemistry)**

➤ **Optional Course for Paper- VI**

CH-336-A: Nuclear Chemistry

CH-336-B: Polymer Chemistry

CH-336-C: Introduction to Biochemistry and Molecular Biology

CH-336-D: Environmental and Green Chemistry

CH-336-E: Agriculture Chemistry (I Term)

CH-346-E: Dairy Chemistry (II Term)

**Our Department offer Optional Course for paper -VI**

CH-336-E: Agriculture Chemistry (I Term)

CH-346-E: Dairy Chemistry (II Term)

d) **Is the feed-back taken from stakeholder's viz.**

**Students/Alumni/Parents/Employerson curriculam**

Feedback on curriculum taken from Student, Alumni and analyzed.and action taken .

e) **What is the frequency of curriculum revision? (3/4/5 years or more)**

After 5 Year Curriculum is revised as per the guidelines of SPPU

f) **Does the curriculum have emerging thrust areas, including interdisciplinary areas? (If yes, elaborate).**

➤ Yes

1.Our Department Offers Paper VI at T.Y.B.Sc. is Agriculture and Dairy Chemistry

2. S.Y.B.Sc students offered Environmental awareness as a interdisciplinary subject

3. Industrial chemistry have the topics like pollution control, Waste water treatment as well as purification methods

4. The use of pesticides and insecticides

### **35. Teaching-Learning, Evaluation.**

**1) Number of teachers preparing & following Academic Teaching plan**

➤ All faculty members prepares and follows academic teaching plans before start of regular lectures.

**2) How many teachers use the following teaching methods:**

**a) Interactive lecture method using blackboard, Group discussions, Problem solving, Seminars.**

- Total Six (06) teacher use above method for teaching.

**b) Use ICT methods to support lectures.**

- Four (04) teacher uses ICT techniques for effective teaching.

**3) Does the department have any mechanism to ensure that entire syllabus is completed?**

- Yes , Periodically Departmental meetings are conducted and review of syllabus is taken. Necessary instructions about completion of syllabus are given.

**4) Do you conduct Remedial teaching program? If yes, Give details.**

- Remedial teaching is conducted for the slow learners to improve subject Knowledge. Advanced learners are motivated by giving research projects to participate in research project competition like 'Avishkar'.

**5) What is the method for conducting internal evaluation?**

- Our Department conducts periodically unit tests after completion of each unit and internal examinations before university examinations. After assessment of answer books, they are shown to students. The queries and doubts are solved simultaneously and marks are displayed on the notice board.

**36. Teacher Performance:**

**1) Whether the performance of the teacher assessed by the students? If yes, are the feedback reports analyzed and suggestions communicated to teachers?**

- Yes  
Feedbacks from the students are collected and after analysis suggestions are communicated to the teachers.

**2) Number of teachers getting** a) **Very Good = 05**  
b) **Good \_\_\_\_\_** c) **Average \_\_\_\_\_** **remarks from students.**

**3) Whether suggestion boxes are kept in the department to get suggestions from students on infrastructural facilities available in the department?**

- There is common suggestion box in the main building. Students give the suggestion by using this box.

**4) Are the suggestions received from students used for improvement of facilities?**

- Yes

**5) Do teachers submit Self-Appraisal Reports? Are these reports appraised by HOD and forwarded to the university with comments?**

- Yes

**6) Give details of “beyond syllabus scholarly activities” of the department.**

- Tree plantation at college campus with help of students.
- Participation of faculty as well as students in blood donation Camp
- Students take part in different rallies for the awareness of social issues.
- Active participation in soft skill development program
- Prof. H.D.Kale worked as Coordinator for grievance redressal cell.
- Prof.N.T.Date worked as coordinator for discipline committee
- Prof.N.T.Date worked as member for staff academy
- Prof A.M.Bhagare worked as coordinator for environmental awareness
- Prof.H.D.Kale worked as Coordinator for timetable committee

**37. List the distinguished alumni of the department (maximum 10)**

Sr. No.	Name of Alumini	Position held	Year of passing
1	Wadghule Gaurav Sarjerao	Lab Assistant	2013-14
2	Misar Dipak Pramod	Field Officer	2013-14
3	Dhumase Babaji Madhukar	Marketing Representative	2013-14
4	Karate Harish Uttam	Consultant	2015-16
5	Gore Yogesh Laxman	Clerk	2016-17
6	Chaudhari Varsharani Punjaji	Assistant Teacher	2016-17
7	Sayyad Sumaiya Razzak	M.Sc.	2013-14
8	Rahane Vishal Khanderao	M.Sc.	2015-16
9	Doke Poonam Shantaram	M.Sc.	2015-16
10	Shelar Pooja Sukhadev	M.Sc.	2016-17
11	Nikumbh Kalyani Umesh	M.Sc.	2016-17

**38. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**

- Students of SY/TY B.Sc. Classes are participated in one day State level Seminar on “Chemistry in Drug Discovery and Material Science.” Organized by Our Department.

**39. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**

- The departmental meetings are held to discuss the timetable, teaching plan and other activities.
- The syllabus to be completed within the prescribed time and it is reported to the head of the department.
- The Internal test, practice test, seminar, group discussion, oral during practicals to be taken
- The recent trends in chemistry to be discussed with students.
- Feedback from students and alumni are collected and analysed.

**40. Highlight the Special facilities (if, any) of the Department.**

- Soil and water analysis kit is available to determine the different parameters.
- Daily interaction other than classroom between teacher-student for effective communication.

- Separate laboratory for practical and research

#### **41. Highlight the unique features of the department.**

- Departmental Library provides books, previous question papers to the students .
- Counseling of students regarding admission , Health issue by the teachers
- Guidance for entrance exam and admission process for PG course
- Special guidance for competitive examination

#### **42. State the Innovative practices adopted in the department.**

- Our department organizes “CHEMIAD” examination for F.Y. B.Sc. students at this centre
- Advanced learners are also motivated by giving research projects for participation in university organized research competition “Avishkar”.
- To arrange the Industrial Visit
- Participation Of students in Chemistry Quiz Competition.

#### **43. Highlight the participation of students and faculty in extension activities.**

- Prof. N.T. Date is elected as Director, Maratha Vidya Prasarak Samaj Nashik and also elected in MVP Sevak Society Nashik and College Teacher Society Nashik.
- Prof. H.D. Kale working as ‘Centre Director’ of Extra Mural Studies and organized Jaykar Lecture Series and Yashvantrao Chavan Lecture Series for students on different subjects (issues)
- Our chemistry students are actively participated in NSS and NCC activities of the college
- The students are also involved in cultural and sport activities during the academic year.

#### **44. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.**

##### **a. Strengths:**

1. Well experienced and qualified staff
2. Sufficient instruments and glassware's
3. Research laboratory
4. Departmental library for students
5. Well equipped laboratories

##### **b. Weaknesses-**

1. Insufficient research instruments
2. Virtual learning laboratory
3. Student :Teacher ratio is higher
4. Smart classroom
5. lower ratio for higher education



**c. Opportunities:**

1. Availability of jobs for students in nearest industrial factories and laboratories.
2. To start Dairy related product and business.
3. To start fertilizer and pesticide shops and related small scale industries.
4. To start soil and water testing laboratories.
5. They can prepare for chemistry based competitive exams

**d. Challenges:**

1. Developing skill in our students which helps to progress in industrial and research field.
2. Providing best foundation to the students desiring to develop carrier in the higher education.
3. To develop ecofriendly approach in the students and make them responsible citizens.
4. To develop research attitude among the students in various institutes like NCL, IIT and others.
5. To inculcate the national values and ethics among the students and make them aware about social issues.

**45. Future plans of the department:**

**a. Long term plans-**

1. Starting M.Sc. Chemistry and certificates courses
2. Development of research laboratory, Purchasing New Research equipments.
3. Preparation of virtual learning laboratories.

**b. Short term plans-**

- 1) Development of Specious Digital classroom.
- 2) Development of Departmental Digital library.

**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.**

**Head of Department**

**Date:**

