PROFILE OF CHEMISTRY DEPARTMENT

The Chemistry department of the college was established in the year **1968**. For the first two years, department functioned in the laboratories of the Nutan Vidyalaya. A department was then shifted to Hall No. 2 of the present main building of the college, which was temporarily renovated to accommodate departmental laboratories. Department was finally shifted to the present place in **1976**.

LABORATORIES

Department is now housed in a spacious building which was constructed under UGC assistance. Department sincerely want to thank UGC for its generous contribution in the construction of laboratory buildings. Departmental building comprises two laboratories, a preparation room, a store room, LPG gas stored room, cabin for Head of the department, staff room, etc.

Dimensions of our laboratories i.e. 40 X 22, provide sufficient moving space to 24 students working in a single practical batch. Our laboratories are well furnished and have all the physical facilities such as Inverter, running water, L.P.G. line, exhaust fans etc. Department has given serious consideration for its safety and thus had made provision for two fire extinguishers to meet any emergency. Department has a first aid box, which is used for providing first aid in case of minor injuries.

CHEMICAL EQUIPMENTS

Department has ample stock of laboratory chemicals, glassware and other equipment required for U.G. level courses. Department has a special store room for stocking chemicals, glassware and equipments. Department rightfully boasted of having multiple copies of all the analytical instruments required for physical chemistry practical. Department is really grateful to UGC for providing financial assistance for the procurement of laboratory equipment and instruments. The infrastructure of the department is sufficient to carry out minor research projects. Beside equipments department has a stock of few charts, models, video cassettes etc. A separate list of major equipments, instruments, charts, Video cassettes is given.

Department makes its routine purchases of chemicals, glassware and equipments from the budget allowed to the department every year. A part of the departmental budget is utilized for the maintenance and repairs of laboratory instruments. Department Strictly adheres to the government norms regarding purchases such as calling quotations, making comparative statements of quotations etc.

STAFF

Department was established in 1968, under the leadership of Dr. R. M. Kharwadkar, who was the founder head of the unit. In the current academic year, department has two full time teachers, who is assisted by one part time teacher appointed on clock hour basis. A list of faculty is given separately.

Department is manned by a full time laboratory assistant who is assisted by two laboratory attendants. Laboratory assistant is assigned the work of maintenance of stock registers, yearly stock verification, preparation work of practical's, etc. A list of staff is given separately.

LIBRARY

Department have its own library unit. The books in our subjects are stocked in the racks of central library. The total number of chemistry titles in the central library is 1205, which includes text and reference books. Besides, the department has started its own departmental library with selective books useful for regular studies. The faculty has their own personal books which are made available to the students as per the need and demand.

- Chemistry for degree students B.Sc. Ist, IInd, IIIrd by R.L. Madan
- Organic chemistry by Bahl and Bahl
- Principle of Inorganic Chemistry by Puri, Sharma &Kalia.
- Essential of physical chemistry by Bahl, Bahl and Tuli

- Organic Spectroscopy by P.S. Kalsi
- Organic reactions by Adams
- Organic chemistry by Gilman
- Inorganic chemistry by J.D. Lee

The library of chemistry books includes books in all the branches of chemistry such as organic, physical, analytical, Industrial etc. Enrichment of our departmental library could be possible due to U.G.C. financial assistance in different plan periods.

Besides text and reference books, department has subscribed for research journals such as

- *Current Science*
- *Indian journal of chemistry*

Library has bound volumes of back numbers for the above journals. Presently, we have subscribed for Indian journal of chemistry.

Library budget allotted to the department is utilized for the procurement of books.

Faculty Profiles: link will be provided...

http://www.nutanmahavidyalaya.com/images/facultyprofile/Resume%20of%20Dr%20Niralwad.pdf

AIMS AND OBJECTIVES

1. Basically the Chemistry including the study of Organic, Physical and Inorganic chemistry.
2. To create interest among the student in chemistry and make them aware of the economic importance which is needed for industrial importance
3. To create among the student regarding self employment and generate of sources of the income through chemical science.
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5. To create Inspiration and motivation to students.
6. To provide students with the latest technologies and learning aids.
7. To encourage the students for creative writing.
8. To develop research faculties and research discipline in the students.

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1. To organize conferences and seminars in the future.
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3. To arrange more and more guest lecturers in the department.
4. To enrich the reservoir of e-content
5. To encourage the students for wall bulletin, seminar and group discussion.

Report of Academic Year 2013-14:

ACTIVITIES

Since department runs only UG level courses, minor activity of the department is teaching, obviously research contribution of the department is marginal. To supplement classroom teaching activity, department actively participate in organizing following co-curricular activities.

- Organization of Guest lectures
- Subject seminar by students
- Wall bulletin by students.
- Poster presentation for Avishkar by students.

FORMAT-1

2013-14

TOTAL STUDENT STRENGTH OF THE DEPARTMENT OF CHEMISTRY

NO	CLASS	STUDENT STREGTH			NO OF DIVISIONS
		MALE	FEMALE	TOTAL	
01	B.Sc. FY	36	23	59	03
02	B.Sc. SY	08	20	28	01
03	B.Sc. TY	10	09	19	01

FORMAT-2

2013-14

NAME OF DEPARTMENT: Chemistry

NO	NAME OF THE STAFF MEMBER	QUALIFICATIONS	DATE OF APPOINTMENT	NATURE OF APPOINTMENT	YEARS OF SERVICE
01	Dr. K.S. Niralwad	M.Sc. , Ph.D.	10/10/2011	Permanent	02
02	Mr. P.R. Pande	M.Sc. NET	20/10/2012	Permanent	01
03	Mr. A.S. Akat	M.Sc.B.Ed.	June-2013	CHB	01

FORMAT-3

2013-14

NAME OF DEPARTMENT: CHEMISTRY

NO	NAME OF THE STAFF MEMBER	WORK LOAD				
		CLASS WISE	THEORY	PRACTICAL	TOTAL	SIGNATURE OF THE STAFF MEMBER
01	Dr. K.S. Niralwad	B.Sc. F.Y	02	01	18	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	01		
02	Mr. P.R. Pande	B.Sc. F.Y	03	01	20	
		B.Sc. S.Y	03	01		
		B.Sc. T.Y	02	01		
03	Mr. A.S. Akat	B.Sc. F.Y	01	01	08	
		B.Sc. S.Y	01	00		
		B.Sc. T.Y	02	00		

FORMAT-4
2013-14

DEPARTMENT OF CHEMISTRY

Name: Dr. KIRTI S. NIRALWAD

Time	Mon	Tue	Wed	Thu	Fri	Sat
10.10					B.Sc.S.Y	B.Sc.S.Y
11.50	B.Sc.T.Y.	B.Sc. T.Y.				
12.40			B.Sc.F.Y.	B.Sc.F.Y.		
2.50			B.Sc.T.Y (P)		B.Sc.F.Y (P)	
3.40	B.Sc.S.Y (P)					

DEPARTMENT OF CHEMISTRY

Name: Mr. P.R. Pande

Time	Mon	Tue	Wed	Thu	Fri	Sat
10.10		B.Sc.S.Y	B.Sc.S.Y	B.Sc.S.Y		
11.50					B.Sc.T.Y.	B.Sc.T.Y.
2.00	B.Sc. F.Y.	B.Sc. F.Y.			B.Sc.F.Y.	
2.50				B.Sc.T.Y (P)	B.Sc.F.Y (P)	
3.40		B.Sc.S.Y (P)				

DEPARTMENT OF CHEMISTRY

Name: Mr. A.S. Akat

Time	Mon	Tue	Wed	Thu	Fri	Sat
10.10	B.Sc.S.Y					
11.50			B.Sc.T.Y.	B.Sc.T.Y		
2.00						B.Sc.F.Y.
2.50						B.Sc.F.Y (P)

FORMAT-5
2013-14

NAME OF THE DEPARTMENT: Chemistry

NO	NAME OF THE TEACHER	CLASS	COURSE NAME AND NUMBER	TOTAL NO OF LECTURES ALLOTTED	DATE OF TEACHING PLAN COMPLETION
01	Dr. K.S. Niralwad	B.Sc. F.Y. (SEM-I)	Org + Inorg. Chem (I)	02	
		B.Sc. S.Y. (SEM-III)	Org + Inorg. Chem (VI)	02	
		B.Sc. T.Y. (SEM-V)	Org + Inorg. Chem (XII)	02	
		B.Sc. F.Y. (SEM-II)	Org + Inorg. Chem (III)	02	
		B.Sc. S.Y. (SEM-IV)	Org + Inorg. Chem (VIII)	02	
		B.Sc. T.Y. (SEM-VI)	Org + Inorg. Chem (XIV)	02	
02	Mr. P.R. Pande	B.Sc. F.Y. (SEM-I)	Phy + Inorg. Chem (II)	03	
		B.Sc. S.Y. (SEM-III)	Phy + Inorg. Chem (VII)	03	
		B.Sc. T.Y. (SEM-V)	Phy + Inorg. Chem (XIII)	02	
		B.Sc. F.Y.	Phy + Inorg.	03	

		(SEM-II)	Chem (IV)		
		B.Sc. S.Y. (SEM-IV)	Phy + Inorg. Chem (IX)	03	
		B.Sc. T.Y. (SEM-VI)	Phy + Inorg. Chem (XV)	02	
03	Mr. A.S. Akat	B.Sc. F.Y. (SEM-I)	Inorg. Chem (I &II)	01	
		B.Sc. S.Y. (SEM-III)	Inorg. Chem (VI &VII)	01	
		B.Sc. T.Y. (SEM-V)	Inorg. Chem (XII & XIII)	02	
		B.Sc. F.Y. (SEM-II)	Inorg. Chem (III & IV)	01	
		B.Sc. S.Y. (SEM-IV)	Inorg. Chem (VIII & IX)	01	
		B.Sc. T.Y. (SEM-VI)	Inorg. Chem (XIV & XV)	02	

FORMAT-6

2013-14

NAME OF THE DEPARTMENT: CHEMISTRY

NAME OF THE TEACHER	CLASS	THEORY COURSE NAME & NUMBER	AVAILABLE LECTURES	CONDUCTED LECTURES	% CONDUCTED
Dr. K. S. Niralwad	B.Sc. F. Y.,S.Y, T.Y	Organic + Inorganic Chemistry –[I,III,VI,VIII,XII,XIV]	45 per course	45 per course	100%
Mr. P.R. Pande	B.Sc. F. Y.,S.Y, T.Y	Physical + Inorganic Chemistry –[II,IV,VII,IX,XIII,XV]	45 per course	45 per course	100%
		Total courses: lectures:			

FORMAT-7

2013-14

NAME OF THE DEPARTMENT : CHEMISTRY

Class	Practical course	Available	Conducted	% conducted
B.Sc. F.Y	V	120	120	100%
B.Sc. S.Y	X & XI	240	240	100%
B.Sc. T.Y	XVI & XVII	240	240	100%
	Total courses: practical:			

FORMAT-8

2013-14

Departmental Documentation Performa:-

Collage Name:- __Nutan Mahavidyalaya, Selu

No.	Name of the Teacher	Leave taken				Teachers Signature
		C.L.	D.L	M.L	Any other	
01	Dr. K.S. Niralwad	09	14	--		
02	Mr. P.R. Pande	12	11	--		

FORMAT-9

2013-14

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya Selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
25/08/2013	**Science**	**Science association**	**Dr. V.H. Panchal**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
8:30 p.m.	**Botany Lab**	**Wall Bulletin**	**Co-curricular**

Support / Assistance:_____-_____

Brief Information about the Activity (Citerion no-):

Topic/Subject of the Activity	B. Sc. S.Y. Students Presented a **Wall Bulletin** on dated 15 Aug 2013
Objective for conducting the activity.	• graduate students with exposure to a variety of research projects and activities in order to enrich their academic experience •Department members with an opportunity to familiarize themselves with all graduate students within the department and learn about each student's research activities. • An opportunity for graduate students to develop skills in presentation and discussion of research topics in a public forum. Seminars will be conducted on a continuing basis appropriate to the complement of students within the department
Methodology	
Outcome	• Developing students as successful professionals. • Developing students as effective researchers. • Maintaining and enhancing the overall quality of the students.

Recommendations from:
Date of Proposal Submission:
Proofs attached: letter/ student list of participation / certificate / document/ **photos** / any other.

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
27/08/2013	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:00 p.m.	**Hal No. 22**	**Seminar**	**Co-curricular**

Support / Assistance:_____-_____

Brief Information about the Activity (Citerion no-):

Topic/Subject of the Activity	**Seminar** of B.Sc. T.Y.
Objective for conducting the activity.	• To help students develop professional skills and attitudes of scientists. • To address issues of importance to scientists that typically do not fit well into traditional chemistry courses. • To work in conjunction with academic advisors to help students appreciate the interconnections in the chemistry curriculum and develop and execute a plan to successfully complete graduation requirements in a timely fashion. • To introduce ideas or topics of growing importance related to chemistry that are not typically covered in General Chemistry.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ **student list of participation** / certificate / **document**/ photos / any other.

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
22/09/2013	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:00 p.m.	**Hal No. 22**	**Guest Lecture**	**Co-curricular**

Support / Assistance:_____-_____

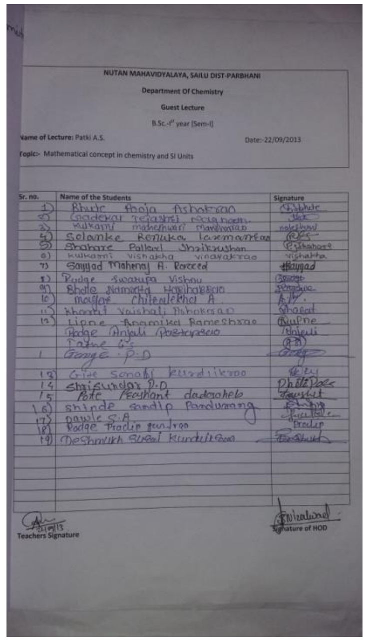
Brief Information about the Activity

Topic/Subject of the Activity	**Guest Lecture** on Mathematical concepts in chemistry & SI
Objective for conducting the activity.	• Students have an opportunity to learn something new from resource person • It supports subjects you may not khow a lot about • Create amazing community relations • Give Professionals a chance to connect with students.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ **student list of participation** / certificate / **document**/ photos / any other.



NUTAN MAHAVIDYALAYA, SAILU DIST-PARBHANI

Department Of Chemistry

Guest Lecture

B.Sc.-I[st] year [Sem-I]

Name of Lecture: Patki A.S. Date:-22/09/2013

Topic:- Mathematical concept in chemistry and SI Units

Sr. no.	Name of the Students	Signature

Teachers Signature

Signature of HOD

Collage Name:- Nutan Mahavidyalaya Selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
18/10/2013	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
11:00 p.m.	**Late. Saw. Kamaltai Jamkar Mahila Mahavidyalaya, Parbhani**	**Avishkar Research Festival**	**Co-curricular**

Support / Assistance:________-__________________________

Brief Information about the Activity (Citerion no-   ):

Topic/Subject of the Activity	Poster Presentation
Objective for conducting the activity.	• graduate students with exposure to a variety of research projects and activities in order to enrich their academic experience •Department members with an opportunity to familiarize themselves with all graduate students within the department and learn

	about each student's research activities. • An opportunity for graduate students to develop skills in presentation and discussion of research topics in a public forum. Seminars will be conducted on a continuing basis appropriate to the complement of students within the department
Methodology	
Outcome	Developing students as successful professionals. • Developing students as effective researchers. • Maintaining and enhancing the overall quality of the students.

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Date of Proposal Submission:

Proofs attached: letter/ student list of participation / certificate / document/ **photos** / any other

Nutan Vidya Mandir Education Society's

Late Sow. Kamaltai Jamkar Mahila Mahavidyalaya, Parbhani

NAAC Re-accredited with 'A' Grade

Best College Award by S.R.T.M.University, Nanded

Organized

One Day District Level Research Festival Avishkar

in collaboration with

Swami Ramanand Teerth Marathwada University, Nanded

Certificate

This is to certify that, Prof./Dr./Mr./Ms. Dr. K.S. Niralwad

of Nutan Mahavidyalaya, Sailu actively participated / stood first / stood second/ worked as an Examiner in "One Day District Level Research Festival" organized by *Late Sow. Kamaltai Jamkar Mahila Mahavidyalaya, Parbhani* in collaboration with *Swami Ramanand Teerth Marathwada University, Nanded* on Friday, October 18, 2013. He/she Worked as guidance teacher.

Dr.R.N. Gacche, University Coordinator | Dr.K.K.Patil, District Coordinator | Ms.S.G. Avachar, Organizing Secretary | Dr. A. D. Sarnaik, Principal


PST -2
Microwave-assisted one-pot synthesis of octahydroquinazolinone derivatives using ammonium metavanadate under solvent-free condition
Need of Newer Techniques
Literature survey of octahydroquinazolinone derivatives
Standard model reaction:
Table 1. Effect of catalyst concentration on model reaction*
Table 2. Screening of catalysts on the model reaction*
Table3. Synthesis of octahydroquinazolinone derivatives catalyzed by ammonium metavanadate under microwave irradiation*
Biological Importance of Octahydroquinazolinone Derivatives
Conclusion
References:

FORMAT-13

2013-14

Teaching Plan.

Department: **Chemistry**

Faculty:- **Science**

Name of the Faculty: **Dr. Kirti S. Nralwad**

Subject : **Chemistry**

THEORY Term I /					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (I)	JULY	Nomenclature of Organic Compounds	Nomenclature of Organic Compounds
			AUG	Basic Concepts In Organic Chemistry	Basic Concepts In Organic Chemistry
			SEP	Alkanes and Cycloalkanes	Alkanes and Cycloalkanes
			OCT	Alkenes, Dienes and Alkynes	Alkenes, Dienes and Alkynes
			NOV	Alcohols and Epoxides	Alcohols and Epoxides
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VI)	JULY	Aromatic Carbonyl Compounds	Aromatic Carbonyl Compounds
			AUG	Polymers	Polymers
			SEP	Stereochemistry	Stereochemistry
			OCT	Organic Synthesis via Enolates	Organic Synthesis via Enolates
			NOV	Theory of Qualitative Analysis	Theory of Qualitative Analysis
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XII)	JULY	Heterocyclic Compounds	Heterocyclic Compounds
			AUG	Six-membered heterocyclics	Six-membered heterocyclics
			SEP	Synthetic drugs and dyes	Synthetic drugs and dyes
			OCT	Alkaloids, Vitamins and Pesticides	Alkaloids, Vitamins and Pesticides
			NOV	Hard And Soft Acids And Bases	Hard And Soft Acids And Bases
THEORY TERM II					

Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (III)	DEC	Aromatic Hydrocarbons and Aromaticity	Aromatic Hydrocarbons and Aromaticity
			JAN	Phenols & Haloalkene and Haloarene	Phenols & Haloalkene and Haloarene
			FEB	Carboxylic Acid Derivatives	Carboxylic Acid Derivatives
			MARCH	Study of P-block elements	Study of P-block elements
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VIII)	DEC	Carbohydrates & Organic compounds of nitrogen	Carbohydrates & Organic compounds of nitrogen
			JAN	Heterocyclic Compounds	Heterocyclic Compounds
			FEB	Polynuclear Hydrocarbon	Polynuclear Hydrocarbon
			MARCH	Chemistry of Transition series elements	Chemistry of Transition series elements
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XIV)	DEC	U. V. & I.R. Spectroscopy	U. V. & I.R. Spectroscopy
			JAN	NMR – Spectroscopy	NMR – Spectroscopy
			FEB	Amino acids, Peptides and Proteins	Amino acids, Peptides and Proteins
			MARCH	Synthetic Polymers and Molecular Rearrangements	Synthetic Polymers and Molecular Rearrangements

PRACTICALS (In case of Science)					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic + Physical Chemistry	June-March	Laboratory Course-I	Laboratory Course-I
	B.SC.S.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-II	Laboratory Course-II

	B.SC.T.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-IV	Laboratory Course-IV

FORMAT-14

2013-14

Academic Year

Student Strenght of Department : **F.Y**. :- 60 **S.Y.:-** 28 **T.Y.:-** 19 **Total :-** 107

F.Y. B.Sc = Practical Batches :- 03

S.Y. B.SC = Practical Batches:- 01

Total Departmental workload = 46

Name of the Teacher : Dr. Kirti S. Niralwad

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06	**20**	
2	S.Y. B.Sc	02	02	10		02
3	T.Y. Bsc	02	01	06		

Name of the Teacher : Mr.Pande .P.R.

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	03	01	07	**20**	
2	S.Y. B.Sc	03	02	07		
3	T.Y. Bsc	02	01	06		

FORMAT-15

2013-14

Academic Year

Faculty Science

Department Chemistry

Name of the Teacher Dr. Kirti S. Niralwad

Total Workload _____ 18 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			18	00

Name of the Teacher Mr. P.R.Pande

Total Workload _____ 20 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	03	01	07	
2	B.Sc. S.Y.	03	01	07	
3	B.Sc. T.Y.	02	01	06	
	Total			20	00

Name of the Teacher Mr. A.S.Akat

Total Workload _____ 08 Lectures (04) Practical's (01)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	01	01	05	
2	B.Sc. S.Y.	01	00	01	
3	B.Sc. T.Y.	02	00	02	
	Total			08	00

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- Organization of Guest lectures
- Subject seminar by students
- Wall bulletin by students.
- Poster presentation for Avishkar by students.

FORMAT-1

2014-15

TOTAL STUDENT STRENGTH OF THE DEPARTMENT OF CHEMISTRY

NO	CLASS	STUDENT STREGTH			NO OF DIVISIONS
		MALE	FEMALE	TOTAL	
01	B.Sc. FY	28	20	48	02
02	B.Sc. SY	21	16	36	01
03	B.Sc. TY	07	18	25	01

FORMAT-2

2014-15

NAME OF DEPARTMENT: Chemistry

NO	NAME OF THE STAFF MEMBER	QUALIFICATIONS	DATE OF APPOINTMENT	NATURE OF APPOINTMENT	YEARS OF SERVICE
01	Dr. K.S. Niralwad	M.Sc. , Ph.D.	10/10/2011	Permanent	03
02	Mr. P.R. Pande	M.Sc. NET	20/10/2012	Permanent	02
03	Mr. V.P. Kharat	M.Sc.B.Ed.	June-2014	CHB	01

FORMAT-3

2014-15

NAME OF DEPARTMENT: CHEMISTRY

NO	NAME OF THE STAFF MEMBER	WORK LOAD				
		CLASS WISE	THEORY	PRACTICAL	TOTAL	SIGNATURE OF THE STAFF MEMBER
01	Dr. K.S. Niralwad	B.Sc. F.Y	02	01	18	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	01		
02	Mr. P.R. Pande	B.Sc. F.Y	01	01	21	
		B.Sc. S.Y	02	02		
		B.Sc. T.Y	02	01		
03	Mr. V.P. Kharat	B.Sc. F.Y	03	00	11	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	00		

FORMAT- 2014-15

DEPARTMENT OF CHEMISTRY

Name: Dr. KIRTI S. NIRALWAD

Day	**9:20**	**10:10**	**11:00**	**2:50-5:20**
Monday				S.Y.(S_1batch Pra.) Lab 1(Paper X)
Tuesday	F.Y.			
Wednesday		S.Y.	S.Y.	T.Y.(T_1batch Pra.) Lab 1(Paper XVI)
Thursday		T.Y.		
Friday		T.Y.		F.Y. (F1 Batch Pra.) Lab 1
Saturday	F.Y.			

DEPARTMENT OF CHEMISTRY

Name: Mr. P.R. Pande

Day	**9:20**	**10:10**	**11:00**	**2:50-5:20**
Monday				S.Y.(S_2batch Pra.) Lab 2(Paper XI)
Tuesday				S.Y.(S_1batch Pra.) Lab 2(Paper XI)
Wednesday		T.Y.		
Thursday		S.Y.	S.Y.	T.Y.(T_1 batch Pra.)
Friday	F.Y.			
Saturday		T.Y.		F.Y. (F2 Batch Pra.) Lab 1

DEPARTMENT OF CHEMISTRY

Name: Mr. V.P. Kharat

Day	**9:20**	**10:10**	**11:00**	**2:50-5:20**
Monday	F.Y.	T.Y.		
Tuesday		T.Y.		S.Y.(S_2batch Pra.) Lab 2(Paper X)
Wednesday				F.Y.
Thursday				F.Y.
Friday			S.Y.	
Saturday			S.Y.	

FORMAT-5

2014-15

NAME OF THE DEPARTMENT: Chemistry

NO	**NAME OF THE TEACHER**	**CLASS**	**COURSE NAME AND NUMBER**	**TOTAL NO OF LECTURES ALLOTTED**	**DATE OF TEACHING PLAN COMPLETION**
01	Dr. K.S. Niralwad	B.Sc. F.Y. (SEM-I)	Org + Inorg. Chem (I)	02	
		B.Sc. S.Y. (SEM-III)	Org + Inorg. Chem (VI)	02	
		B.Sc. T.Y. (SEM-V)	Org + Inorg. Chem (XII)	02	
		B.Sc. F.Y. (SEM-II)	Org + Inorg. Chem (III)	02	
		B.Sc. S.Y. (SEM-IV)	Org + Inorg. Chem (VIII)	02	
		B.Sc. T.Y. (SEM-VI)	Org + Inorg. Chem (XIV)	02	
02	Mr. P.R. Pande	B.Sc. F.Y. (SEM-I)	Phy + Inorg. Chem (II)	01	

		B.Sc. S.Y. (SEM-III)	Phy + Inorg. Chem (VII)	02	
		B.Sc. T.Y. (SEM-V)	Phy + Inorg. Chem (XIII)	02	
		B.Sc. F.Y. (SEM-II)	Phy + Inorg. Chem (IV)	01	
		B.Sc. S.Y. (SEM-IV)	Phy + Inorg. Chem (IX)	02	
		B.Sc. T.Y. (SEM-VI)	Phy + Inorg. Chem (XV)	02	
03	Mr.V.P. Kharat	B.Sc. F.Y. (SEM-I)	Inorg. Chem (I &II)	03	
		B.Sc. S.Y. (SEM-III)	Inorg. Chem (VI &VII)	02	
		B.Sc. T.Y. (SEM-V)	Inorg. Chem (XII & XIII)	02	
		B.Sc. F.Y. (SEM-II)	Inorg. Chem (III & IV)	03	
		B.Sc. S.Y. (SEM-IV)	Inorg. Chem (VIII & IX)	02	
		B.Sc. T.Y. (SEM-VI)	Inorg. Chem (XIV & XV)	02	

FORMAT-6
2014-15

NAME OF THE TEACHER	CLASS	THEORY COURSE NAME & NUMBER	AVAILABLE LECTURES	CONDUCTED LECTURES	% CONDUCTED
Dr. K. S. Niralwad	B.Sc. F.Y.,S.Y , T.Y	Organic + Inorganic Chemistry –[I,III,VI,VIII,XII, XIV]	45 per course	45 per course	100%
Mr. P.R. Pande	B.Sc. F.Y.,S.Y , T.Y	Physical + Inorganic Chemistry –[II,IV,VII,IX,XIII, XV]	45 per course	45 per course	100%
		Total courses: lectures:			

FORMAT-7
2014-15

Class	Practical course	Available	Conducted	% conducted
B.Sc. F.Y	V	120	120	100%
B.Sc. S.Y	X & XI	240	240	100%
B.Sc. T.Y	XVI & XVII	240	240	100%
	Total courses: practical:			

FORMAT-8

2014-15

No.	Name of the Teacher	Leave taken				Teachers Signature
		C.L.	D.L	M.L	Any other	
01	Dr. K.S. Niralwad	08	17	--		
02	Mr. P.R. Pande	12	22	--		

FORMAT-9

2014-15

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya Selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
15/08/2014	**Science**	**Science association**	**Dr. V.H. Panchal**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
8:30 p.m.	**Botany Lab**	**Wall Bulletin**	**Co-curricular**

Support / Assistance:_____-_____

Brief Information about the Activity (Citerion no-):

Topic/Subject of the Activity	B. Sc. T.Y. Students Presented a Wall Bulletin on dated 15 Aug 2014
Objective for conducting the activity.	• graduate students with exposure to a variety of research projects and activities in order to enrich their academic experience •Department members with an opportunity

	to familiarize themselves with all graduate students within the department and learn about each student's research activities. • An opportunity for graduate students to develop skills in presentation and discussion of research topics in a public forum. Seminars will be conducted on a continuing basis appropriate to the complement of students within the department
Methodology	
Outcome	• Developing students as successful professionals. • Developing students as effective researchers. • Maintaining and enhancing the overall quality of the students.

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ student list of participation / certificate / document/ **photos** / any other.

FORMAT-13
2014-15

Teaching Plan.

Department: **Chemistry**
Faculty:- **Science**
Name of the Faculty: **Dr. Kirti S. Nralwad**
Subject : **Chemistry**

THEORY Term I /					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (I)	JULY	Nomenclature of Organic Compounds	Nomenclature of Organic Compounds
			AUG	Basic Concepts In Organic Chemistry	Basic Concepts In Organic Chemistry

			SEP	Alkanes and Cycloalkanes	Alkanes and Cycloalkanes
			OCT	Alkenes, Dienes and Alkynes	Alkenes, Dienes and Alkynes
			NOV	Alcohols and Epoxides	Alcohols and Epoxides
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VI)	JULY	Aromatic Carbonyl Compounds	Aromatic Carbonyl Compounds
			AUG	Polymers	Polymers
			SEP	Stereochemistry	Stereochemistry
			OCT	Organic Synthesis via Enolates	Organic Synthesis via Enolates
			NOV	Theory of Qualitative Analysis	Theory of Qualitative Analysis
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XII)	JULY	Heterocyclic Compounds	Heterocyclic Compounds
			AUG	Six-membered heterocyclics	Six-membered heterocyclics
			SEP	Synthetic drugs and dyes	Synthetic drugs and dyes
			OCT	Alkaloids, Vitamins and Pesticides	Alkaloids, Vitamins and Pesticides
			NOV	Hard And Soft Acids And Bases	Hard And Soft Acids And Bases
THEORY TERM II					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic +	DEC	Aromatic	Aromatic

		Inorganic Chemistry (III)		Hydrocarbons and Aromaticity	Hydrocarbons and Aromaticity
			JAN	Phenols & Haloalkene and Haloarene	Phenols & Haloalkene and Haloarene
			FEB	Carboxylic Acid Derivatives	Carboxylic Acid Derivatives
			MARCH	Study of P-block elements	Study of P-block elements
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VIII)	DEC	Carbohydrates & Organic compounds of nitrogen	Carbohydrates & Organic compounds of nitrogen
			JAN	Heterocyclic Compounds	Heterocyclic Compounds
			FEB	Polynuclear Hydrocarbon	Polynuclear Hydrocarbon
			MARCH	Chemistry of Transition series elements	Chemistry of Transition series elements
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XIV)	DEC	U. V. & I.R. Spectroscopy	U. V. & I.R. Spectroscopy
			JAN	NMR – Spectroscopy	NMR – Spectroscopy
			FEB	Amino acids, Peptides and Proteins	Amino acids, Peptides and Proteins
			MARCH	Synthetic Polymers and Molecular Rearrangemen	Synthetic Polymers and Molecular Rearrangement

				ts	s

PRACTICALS (In case of Science)					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic + Physical Chemistry	June-March	Laboratory Course-I	Laboratory Course-I
	B.SC.S.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-II	Laboratory Course-II
	B.SC.T.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-IV	Laboratory Course-IV

FORMAT-14

2014-15

Academic Year

Student Strenght of Department : **F.Y**. :- 48 **S.Y.:-** 36 **T.Y.:-** 25
Total :- 119

F.Y. B.Sc = Practical Batches :- 02

S.Y. B.SC = Practical Batches:- 02

Total Departmental workload = 50

Name of the Teacher : Dr. Kirti S. Niralwad

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06		
2	S.Y. B.Sc	02	01	06	**18**	00
3	T.Y. Bsc	02	01	06		

Name of the Teacher : Mr.Pande .P.R.

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06		
2	S.Y. B.Sc	02	02	10	**21**	01
3	T.Y. Bsc	01	01	05		

FORMAT-15

2014-15

Faculty Science

Department Chemistry

Name of the Teacher Dr. Kirti S. Niralwad

Total Workload _____ 22 Lectures (06) Practical's (04)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	02	10	
	Total			22	04

Faculty Science

Department Chemistry

Name of the Teacher Mr. P.R.Pande

Total Workload _____ 21 Lectures (05) Practical's (04)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	01	01	05	
2	B.Sc. S.Y.	02	02	10	
3	B.Sc. T.Y.	02	01	06	
	Total			21	00

Faculty Science

Department Chemistry

Name of the Teacher Mr. V.P.Kharat

Total Workload _____ 11 Lectures (07) Practical's (01)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	03	00	03	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	00	02	
	Total			11	00

PROFILE OF CHEMISTRY DEPARTMENT

The Chemistry department of the college was established in the year **1968**. For the first two years, department functioned in the laboratories of the Nutan Vidyalaya. A department was then shifted to Hall No. 2 of the present main building of the college, which was temporarily renovated to accommodate departmental laboratories. Department was finally shifted to the present place in **1976**.

LABORATORIES

Department is now housed in a spacious building which was constructed under UGC assistance. Department sincerely want to thank UGC for its generous contribution in the construction of laboratory buildings.

Departmental building comprises two laboratories, a preparation room, a store room, LPG gas stored room, cabin for Head of the department, staff room, etc.

Dimensions of our laboratories i.e. 40 X 22, provide sufficient moving space to 24 students working in a single practical batch. Our laboratories are well furnished and have all the physical facilities such as Inverter, running water, L.P.G. line, exhaust fans etc. Department has given serious consideration for its safety and thus had made provision for two fire extinguishers to meet any emergency. Department has a first aid box, which is used for providing first aid in case of minor injuries.

CHEMICAL EQUIPMENTS

Department has ample stock of laboratory chemicals, glassware and other equipment required for U.G. level courses. Department has a special store room for stocking chemicals, glassware and equipments. Department rightfully boasted of having multiple copies of all the analytical instruments required for physical chemistry practical. Department is really grateful to UGC for providing financial assistance for the procurement of laboratory equipment and instruments. The infrastructure of the department is sufficient to carry out minor research projects. Beside equipments department has a stock of few charts, models, video cassettes etc. A separate list of major equipments, instruments, charts, Video cassettes is given.

Department makes its routine purchases of chemicals, glassware and equipments from the budget allowed to the department every year. A part of the departmental budget is utilized for the maintenance and repairs of laboratory instruments. Department Strictly adheres to the government norms regarding purchases such as calling quotations, making comparative statements of quotations etc.

STAFF

Department was established in 1968, under the leadership of Dr. R. M. Kharwadkar, who was the founder head of the unit. In the current academic year, department has two full time teachers, who is assisted by one part time teacher appointed on clock hour basis. A list of faculty is given separately.

Department is manned by a full time laboratory assistant who is assisted by two laboratory attendants. Laboratory assistant is assigned the work of maintenance of stock registers, yearly stock verification, preparation work of practical's, etc. A list of staff is given separately.

LIBRARY

Department have its own library unit. The books in our subjects are stocked in the racks of central library. The total number of chemistry titles in the central library is 1205, which includes text and reference books. Besides, the department has started its own departmental library with selective books useful for regular studies. The faculty has their own personal books which are made available to the students as per the need and demand.

- Chemistry for degree students B.Sc. Ist, IInd, IIIrd by R.L. Madan
- Organic chemistry by Bahl and Bahl
- Principle of Inorganic Chemistry by Puri, Sharma &Kalia.
- Essential of physical chemistry by Bahl, Bahl and Tuli
- Organic Spectroscopy by P.S. Kalsi

- Organic reactions by Adams
- Organic chemistry by Gilman
- Inorganic chemistry by J.D. Lee

The library of chemistry books includes books in all the branches of chemistry such as organic, physical, analytical, Industrial etc. Enrichment of our departmental library could be possible due to U.G.C. financial assistance in different plan periods.

Besides text and reference books, department has subscribed for research journals such as

- *Current Science*
- *Indian journal of chemistry*

Library has bound volumes of back numbers for the above journals. Presently, we have subscribed for Indian journal of chemistry.

Library budget allotted to the department is utilized for the procurement of books.

Faculty Profiles: link will be provided...

http://www.nutanmahavidyalaya.com/images/facultyprofile/Resume%20of%20Dr%20Niralwad.pdf

AIMS AND OBJECTIVES

1. Basically the Chemistry including the study of Organic, Physical and Inorganic chemistry.
2. To create interest among the student in chemistry and make them aware of the economic importance which is needed for industrial importance
3. To create among the student regarding self employment and generate of sources of the income through chemical science.
4. To promote and create the student for higher education and research aptitude.
5. To create Inspiration and motivation to students.
6. To provide students with the latest technologies and learning aids.
7. To encourage the students for creative writing.
8. To develop research faculties and research discipline in the students.

Objective

1. To organize conferences and seminars in the future.
2. To connect the faculty and all the students through latest devices of information technologies
3. To arrange more and more guest lecturers in the department.
4. To enrich the reservoir of e-content
5. To encourage the students for wall bulletin, seminar and group discussion.

Report of Academic Year 2013-14:

ACTIVITIES

Since department runs only UG level courses, minor activity of the department is teaching, obviously research contribution of the department is marginal. To supplement classroom teaching activity, department actively participate in organizing following co-curricular activities.

- Organization of Guest lectures
- Subject seminar by students
- Wall bulletin by students.
- Poster presentation for Avishkar by students.

FORMAT-1

2015-16

TOTAL STUDENT STRENGTH OF THE DEPARTMENT OF CHEMISTRY

NO	CLASS	STUDENT STREGTH			NO OF DIVISIONS
		MALE	FEMALE	TOTAL	
01	B.Sc. FY	34	24	58	02
02	B.Sc. SY	10	09	19	01
03	B.Sc. TY	17	14	31	01

FORMAT-2

2015-16

NAME OF DEPARTMENT: Chemistry

NO	NAME OF THE STAFF MEMBER	QUALIFICATIONS	DATE OF APPOINTMENT	NATURE OF APPOINTMENT	YEARS OF SERVICE
01	Dr. K.S. Niralwad	M.Sc. , Ph.D.	10/10/2011	Permanent	04
02	Mr. P.R. Pande	M.Sc. NET	20/10/2012	Permanent	03
03	Mr.M.S. Rathod	M.Sc.B.Ed.	June-2015	CHB	01

FORMAT-3

2015-16

NAME OF DEPARTMENT: CHEMISTRY

NO	NAME OF THE STAFF MEMBER	WORK LOAD				
		CLASS WISE	THEORY	PRACTICAL	TOTAL	SIGNATURE OF THE STAFF MEMBER
01	Dr. K.S. Niralwad	B.Sc. F.Y	02	01	18	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	01		
02	Mr. P.R. Pande	B.Sc. F.Y	02	01	20	
		B.Sc. S.Y	04	01		
		B.Sc. T.Y	02	01		
03	Mr. M.S. Rathod	B.Sc. F.Y	02	00	04	
		B.Sc. S.Y	00	00		
		B.Sc. T.Y	02	00		

FORMAT- 4

2015-16

DEPARTMENT OF CHEMISTRY

Name: Dr. KIRTI S. NIRALWAD

Day	**10:10**	**11:00**	**2:50-6:10**
Monday			S.Y.(S_1batch Pra.) (Paper X)
Tuesday		F.Y.	
Wednesday		S.Y.	T.Y.(T_1batch Pra.) Lab 1(Paper XVI)
Thursday	T.Y.	S.Y.	
Friday	T.Y		F.Y. (F1 Batch Pra.) Lab 1
Saturday		F.Y.	

DEPARTMENT OF CHEMISTRY

Name: Mr. P.R. Pande

Day	**10:10**	**11:00**	**2:50-6:10**
Monday	T.Y.		
Tuesday	T.Y.		S.Y.(S_1batch Pra.) Lab (Paper XI)
Wednesday	S.Y.		
Thursday	S.Y.	F.Y.	T.Y.(T_1 batch Pra.) Lab 2(Paper XVII)
Friday		F.Y.	
Saturday		S.Y.	F.Y. (F2 Batch Pra.) Lab 1

DEPARTMENT OF CHEMISTRY

Name: Mr. M.S. Rathod

Day	10:10		11:00
Monday			F.Y.
Wednesday		T.Y.	F.Y.
Friday			S.Y.

FORMAT-5
2015-16

NAME OF THE DEPARTMENT: Chemistry

NO	NAME OF THE TEACHER	CLASS	COURSE NAME AND NUMBER	TOTAL NO OF LECTURES ALLOTTED	DATE OF TEACHING PLAN COMPLETION
01	Dr. K.S. Niralwad	B.Sc. F.Y. (SEM-I)	Org + Inorg. Chem (I)	02	
		B.Sc. S.Y. (SEM-III)	Org + Inorg. Chem (VI)	02	
		B.Sc. T.Y. (SEM-V)	Org + Inorg. Chem (XII)	02	
		B.Sc. F.Y. (SEM-II)	Org + Inorg. Chem (III)	02	
		B.Sc. S.Y. (SEM-IV)	Org + Inorg. Chem (VIII)	02	
		B.Sc. T.Y. (SEM-VI)	Org + Inorg. Chem (XIV)	02	
02	Mr. P.R. Pande	B.Sc. F.Y. (SEM-I)	Phy + Inorg. Chem (II)	02	
		B.Sc. S.Y. (SEM-III)	Phy + Inorg. Chem (VII)	04	
		B.Sc. T.Y. (SEM-V)	Phy + Inorg. Chem (XIII)	02	
		B.Sc. F.Y. (SEM-II)	Phy + Inorg.	02	

			Chem (IV)		
		B.Sc. S.Y. (SEM-IV)	Phy + Inorg. Chem (IX)	04	
		B.Sc. T.Y. (SEM-VI)	Phy + Inorg. Chem (XV)	02	
03	Mr.M.S. Rathod	B.Sc. F.Y. (SEM-I)	Inorg. Chem (I &II)	02	
		B.Sc. S.Y. (SEM-III)	Inorg. Chem (VI &VII)	00	
		B.Sc. T.Y. (SEM-V)	Inorg. Chem (XII & XIII)	02	
		B.Sc. F.Y. (SEM-II)	Inorg. Chem (III & IV)	02	
		B.Sc. S.Y. (SEM-IV)	Inorg. Chem (VIII & IX)	00	
		B.Sc. T.Y. (SEM-VI)	Inorg. Chem (XIV & XV)	02	

FORMAT-6

2015-16

NAME OF THE TEACHER	CLASS	THEORY COURSE NAME & NUMBER	AVAILABLE LECTURES	CONDUCTED LECTURES	% CONDUCTED
Dr. K. S. Niralwad	B.Sc. F. Y.,S.Y, T.Y	Organic + Inorganic Chemistry –[I,III,VI,VIII,XII,XIV]	45 per course	45 per course	100%
Mr. P.R. Pande	B.Sc. F.	Physical + Inorganic	45 per course	45 per course	100%

	Y.,S.Y, T.Y	Chemistry –[II,IV,VII,IX,XIII, XV]			
		Total courses: lectures:			

FORMAT-7
2015-16

Class	**Practical course**	**Available**	**Conducted**	**% conducted**
B.Sc. F.Y	V	120	120	100%
B.Sc. S.Y	X & XI	240	240	100%
B.Sc. T.Y	XVI & XVII	240	240	100%
	Total courses: practical:			

FORMAT-8
2015-16

No.	**Name of the Teacher**	**Leave taken**				**Teachers Signature**
		C.L.	**D.L**	**M.L**	**Any other**	
01	Dr. K.S. Niralwad	03	25	--		
02	Mr. P.R. Pande	07	17	--		

FORMAT-9
2015-16

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya Selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
11/01/2016	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:50 p.m.	**Hal No. 21**	**Seminar**	**Co-curricular**

Support / Assistance:_____-_____

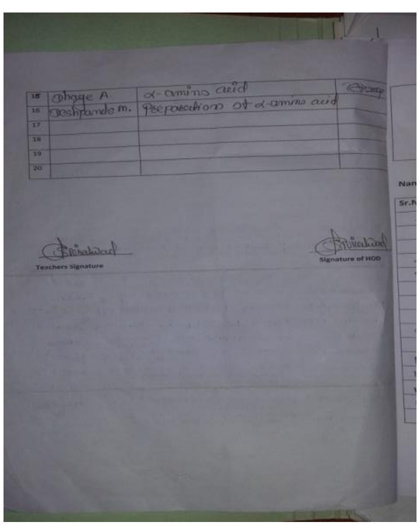
Brief Information about the Activity (Citerion no-):

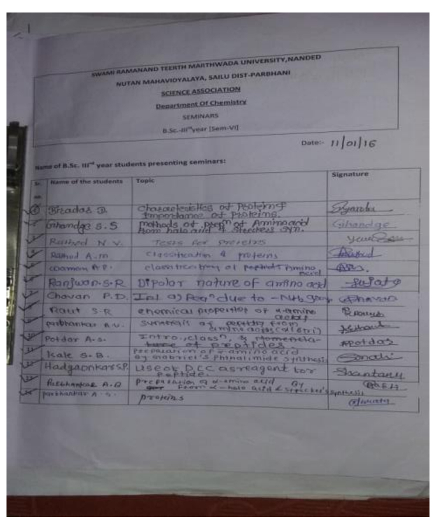
Topic/Subject of the Activity	Seminar of B.Sc. T.Y.
Objective for conducting the activity.	• To help students develop professional skills and attitudes of scientists. • To address issues of importance to scientists that typically do not fit well into traditional chemistry courses. • To work in conjunction with academic advisors to help students appreciate the interconnections in the chemistry curriculum and develop and execute a plan to successfully complete graduation requirements in a timely fashion. To introduce ideas or topics of growing importance related to chemistry that are not typically covered in General Chemistry.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ student list of participation / certificate / document/ **photos** / any other.





FORMAT-13
2015-16

Teaching Plan.

Department: **Chemistry**
Faculty:- **Science**
Name of the Faculty: **Dr. Kirti S. Nralwad**
Subject : **Chemistry**

THEORY Term I /					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (I)	JULY	Nomenclature of Organic Compounds	Nomenclature of Organic Compounds
			AUG	Basic Concepts In Organic Chemistry	Basic Concepts In Organic Chemistry
			SEP	Alkanes and Cycloalkanes	Alkanes and Cycloalkanes
			OCT	Alkenes, Dienes and Alkynes	Alkenes, Dienes and Alkynes
			NOV	Alcohols and Epoxides	Alcohols and Epoxides
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VI)	JULY	Aromatic Carbonyl Compounds	Aromatic Carbonyl Compounds
			AUG	Polymers	Polymers
			SEP	Stereochemistry	Stereochemistry
			OCT	Organic Synthesis via Enolates	Organic Synthesis via Enolates
			NOV	Theory of Qualitative	Theory of Qualitative

				Analysis	Analysis
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XII)	JULY	Heterocyclic Compounds	Heterocyclic Compounds
			AUG	Six-membered heterocyclics	Six-membered heterocyclics
			SEP	Synthetic drugs and dyes	Synthetic drugs and dyes
			OCT	Alkaloids, Vitamins and Pesticides	Alkaloids, Vitamins and Pesticides
			NOV	Hard And Soft Acids And Bases	Hard And Soft Acids And Bases
TERM II			**THEORY**		
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (III)	DEC	Aromatic Hydrocarbons and Aromaticity	Aromatic Hydrocarbons and Aromaticity
			JAN	Phenols & Haloalkene and Haloarene	Phenols & Haloalkene and Haloarene
			FEB	Carboxylic Acid Derivatives	Carboxylic Acid Derivatives
			MARCH	Study of P-block elements	Study of P-block elements
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VIII)	DEC	Carbohydrates & Organic compounds of nitrogen	Carbohydrates & Organic compounds of nitrogen
			JAN	Heterocyclic Compounds	Heterocyclic Compounds

			FEB	Polynuclear Hydrocarbon	Polynuclear Hydrocarbon
			MARCH	Chemistry of Transition series elements	Chemistry of Transition series elements
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XIV)	DEC	U. V. & I.R. Spectroscopy	U. V. & I.R. Spectroscopy
			JAN	NMR – Spectroscopy	NMR – Spectroscopy
			FEB	Amino acids, Peptides and Proteins	Amino acids, Peptides and Proteins
			MARCH	Synthetic Polymers and Molecular Rearrangements	Synthetic Polymers and Molecular Rearrangements

PRACTICALS (In case of Science)					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic + Physical Chemistry	June-March	Laboratory Course-I	Laboratory Course-I
	B.SC.S.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-II	Laboratory Course-II
	B.SC.T.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-IV	Laboratory Course-IV

FORMAT-14

2015-16

Student Strenght of Department : **F.Y**. :- 58 **S.Y.:-** 19 **T.Y.:-** 31 **Total :-** 108

F.Y. B.Sc = Practical Batches :- 02

S.Y. B.SC = Practical Batches:- 01

Total Departmental workload = 42

Name of the Teacher : Dr. Kirti S. Niralwad

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06	**18**	
2	S.Y. B.Sc	02	01	06		00
3	T.Y. Bsc	02	01	06		

Name of the Teacher : Mr.Pande .P.R.

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06	**20**	
2	S.Y. B.Sc	03	01	07		00
3	T.Y. Bsc	03	01	07		

FORMAT-14

2015-16

Faculty Science

Department Chemistry

Name of the Teacher Dr. Kirti S. Niralwad

Total Workload _____ 18 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			18	00

Faculty Science

Department Chemistry

Name of the Teacher Mr. P.R.Pande

Total Workload _____ 20 Lectures (08) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	03	01	07	
3	B.Sc. T.Y.	03	01	07	
	Total			20	00

Faculty Science

Department Chemistry

Name of the Teacher Mr. M.S.Rathod

Total Workload _____ 04 Lectures (04) Practical's (00)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	00	00	
2	B.Sc. S.Y.	01	00	01	
3	B.Sc. T.Y.	01	00	01	
	Total			04	00

PROFILE OF CHEMISTRY DEPARTMENT

The Chemistry department of the college was established in the year **1968**. For the first two years, department functioned in the laboratories of the Nutan Vidyalaya. A department was then shifted to Hall No. 2 of the present main building of the college, which was temporarily renovated to accommodate departmental laboratories. Department was finally shifted to the present place in **1976**.

LABORATORIES

Department is now housed in a spacious building which was constructed under UGC assistance. Department sincerely want to thank UGC for its generous contribution in the construction of laboratory buildings.

Departmental building comprises two laboratories, a preparation room, a store room, LPG gas stored room, cabin for Head of the department, staff room, etc.

Dimensions of our laboratories i.e. 40 X 22, provide sufficient moving space to 24 students working in a single practical batch. Our laboratories are well furnished and have all the physical facilities such as Inverter, running water, L.P.G. line, exhaust fans etc. Department has given serious consideration for its safety and thus had made provision for two fire extinguishers to meet any emergency. Department has a first aid box, which is used for providing first aid in case of minor injuries.

CHEMICAL EQUIPMENTS

Department has ample stock of laboratory chemicals, glassware and other equipment required for U.G. level courses. Department has a special store room for stocking chemicals, glassware and equipments. Department rightfully boasted of having multiple copies of all the analytical instruments required for physical chemistry practical. Department is really grateful to UGC for providing financial assistance for the procurement of laboratory equipment and instruments. The infrastructure of the department is sufficient to carry out minor research projects. Beside equipments department has a stock of few

charts, models, video cassettes etc. A separate list of major equipments, instruments, charts, Video cassettes is given.

Department makes its routine purchases of chemicals, glassware and equipments from the budget allowed to the department every year. A part of the departmental budget is utilized for the maintenance and repairs of laboratory instruments. Department Strictly adheres to the government norms regarding purchases such as calling quotations, making comparative statements of quotations etc.

STAFF

Department was established in 1968, under the leadership of Dr. R. M. Kharwadkar, who was the founder head of the unit. In the current academic year, department has two full time teachers, who is assisted by one part time teacher appointed on clock hour basis. A list of faculty is given separately.

Department is manned by a full time laboratory assistant who is assisted by two laboratory attendants. Laboratory assistant is assigned the work of maintenance of stock registers, yearly stock verification, preparation work of practical's, etc. A list of staff is given separately.

LIBRARY

Department have its own library unit. The books in our subjects are stocked in the racks of central library. The total number of chemistry titles in the central library is 1205, which includes text and reference books. Besides, the department has started its own departmental library with selective books useful for regular studies. The faculty has their own personal books which are made available to the students as per the need and demand.

- Chemistry for degree students B.Sc. Ist, IInd, IIIrd by R.L. Madan
- Organic chemistry by Bahl and Bahl
- Principle of Inorganic Chemistry by Puri, Sharma &Kalia.
- Essential of physical chemistry by Bahl, Bahl and Tuli
- Organic Spectroscopy by P.S. Kalsi

- Organic reactions by Adams
- Organic chemistry by Gilman
- Inorganic chemistry by J.D. Lee

The library of chemistry books includes books in all the branches of chemistry such as organic, physical, analytical, Industrial etc. Enrichment of our departmental library could be possible due to U.G.C. financial assistance in different plan periods.

Besides text and reference books, department has subscribed for research journals such as

- *Current Science*
- *Indian journal of chemistry*

Library has bound volumes of back numbers for the above journals. Presently, we have subscribed for Indian journal of chemistry.

Library budget allotted to the department is utilized for the procurement of books.

Faculty Profiles: link will be provided...

http://www.nutanmahavidyalaya.com/images/facultyprofile/Resume%20of%20Dr%20Niralwad.pdf

AIMS AND OBJECTIVES

1. Basically the Chemistry including the study of Organic, Physical and Inorganic chemistry.
2. To create interest among the student in chemistry and make them aware of the economic importance which is needed for industrial importance
3. To create among the student regarding self employment and generate of sources of the income through chemical science.
4. To promote and create the student for higher education and research aptitude.
5. To create Inspiration and motivation to students.
6. To provide students with the latest technologies and learning aids.
7. To encourage the students for creative writing.
8. To develop research faculties and research discipline in the students.

Objective

1. To organize conferences and seminars in the future.
2. To connect the faculty and all the students through latest devices of information technologies
3. To arrange more and more guest lecturers in the department.
4. To enrich the reservoir of e-content
5. To encourage the students for wall bulletin, seminar and group discussion.

Report of Academic Year 2013-14:

ACTIVITIES

Since department runs only UG level courses, minor activity of the department is teaching, obviously research contribution of the department is marginal. To supplement classroom teaching activity, department actively participate in organizing following co-curricular activities.

- Organization of Guest lectures
- Subject seminar by students
- Wall bulletin by students.
- Poster presentation for Avishkar by students.

FORMAT-1

2016-17

TOTAL STUDENT STRENGTH OF THE DEPARTMENT OF CHEMISTRY

NO	CLASS	STUDENT STREGTH			NO OF DIVISIONS
		MALE	FEMALE	TOTAL	
01	B.Sc. FY	25	32	57	02
02	B.Sc. SY	10	15	25	01
03	B.Sc. TY	07	09	16	01

FORMAT-2

2016-17

NAME OF DEPARTMENT: Chemistry

NO	NAME OF THE STAFF MEMBER	QUALIFICATIONS	DATE OF APPOINTMENT	NATURE OF APPOINTMENT	YEARS OF SERVICE
01	Dr. K.S. Niralwad	M.Sc. , Ph.D.	10/10/2011	Permanent	05
02	Mr. P.R. Pande	M.Sc. NET	20/10/2012	Permanent	04
03	Mr.M.S. Rathod	M.Sc.B.Ed.	June-2015	CHB	02

FORMAT-3

2016-17

NAME OF DEPARTMENT: CHEMISTRY

NO	NAME OF THE STAFF MEMBER	WORK LOAD				
		CLASS WISE	THEORY	PRACTICAL	TOTAL	SIGNATURE OF THE STAFF MEMBER
01	Dr. K.S. Niralwad	B.Sc. F.Y	02	01	18	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	01		
02	Mr. P.R. Pande	B.Sc. F.Y	01	02	21	
		B.Sc. S.Y	02	01		
		B.Sc. T.Y	02	01		
03	Mr. M.S. Rathod	B.Sc. F.Y	03	00	07	
		B.Sc. S.Y	02	00		
		B.Sc. T.Y	02	00		

FORMAT- 2016-17

DEPARTMENT OF CHEMISTRY

Name: Dr. KIRTI S. NIRALWAD

Day	**10:10**	**11:00**	**2:50**	**3:40-6:10**
Monday				S.Y.(S_1batch Pra.) (Paper X)
Tuesday		F.Y.		
Wednesday		S.Y.	T.Y.(T_1batch Pra.) (Paper XVI)	
Thursday	T.Y	S.Y.		
Friday	T.Y.		F.Y. (F1 Batch Pra.)	
Saturday		F.Y.		

DEPARTMENT OF CHEMISTRY

Name: Mr. P.R. Pande

Day	**10:10**	**11:00**	**2:00**	**2:50**	**3:40-6:10**
Monday	T.Y.				
Tuesday	T.Y.				S.Y.(S_1batch Pra.) (Paper XI)
Wednesday	S.Y.				
Thursday	S.Y.			T.Y.(T_1batch Pra.) (Paper XV)	
Friday		F.Y.		F.Y. (F3 Batch Pra.)	
Saturday				F.Y. (F2 Batch Pra.)	

DEPARTMENT OF CHEMISTRY

Name: Mr. M.S. Rathod

Day	**10:10**	**11:00**	**2:50**	**3:40-6:10**
Monday		F.Y.		
Tuesday				
Wednesday	T.Y.	F.Y.		
Thursday		F.Y.		
Friday		S.Y.		
Saturday	T.Y.	S.Y.		

FORMAT-5

2016-17

NAME OF THE DEPARTMENT: Chemistry

NO	**NAME OF THE TEACHER**	**CLASS**	**COURSE NAME AND NUMBER**	**TOTAL NO OF LECTURES ALLOTTED**	**DATE OF TEACHING PLAN COMPLETION**
01	Dr. K.S. Niralwad	B.Sc. F.Y. (SEM-I)	Org + Inorg. Chem (I)	02	
		B.Sc. S.Y. (SEM-III)	Org + Inorg. Chem (VI)	02	
		B.Sc. T.Y. (SEM-V)	Org + Inorg. Chem (XII)	02	
		B.Sc. F.Y. (SEM-II)	Org + Inorg. Chem (III)	02	
		B.Sc. S.Y. (SEM-IV)	Org + Inorg. Chem (VIII)	02	
		B.Sc. T.Y. (SEM-VI)	Org + Inorg. Chem (XIV)	02	
02	Mr. P.R. Pande	B.Sc. F.Y. (SEM-I)	Phy + Inorg. Chem (II)	01	
		B.Sc. S.Y. (SEM-III)	Phy + Inorg. Chem (VII)	02	
		B.Sc. T.Y.	Phy +	02	

		(SEM-V)	Inorg. Chem (XIII)		
		B.Sc. F.Y. (SEM-II)	Phy + Inorg. Chem (IV)	01	
		B.Sc. S.Y. (SEM-IV)	Phy + Inorg. Chem (IX)	02	
		B.Sc. T.Y. (SEM-VI)	Phy + Inorg. Chem (XV)	02	
03	Mr.M.S. Rathod	B.Sc. F.Y. (SEM-I)	Inorg. Chem (I &II)	03	
		B.Sc. S.Y. (SEM-III)	Inorg. Chem (VI &VII)	02	
		B.Sc. T.Y. (SEM-V)	Inorg. Chem (XII & XIII)	02	
		B.Sc. F.Y. (SEM-II)	Inorg. Chem (III & IV)	03	
		B.Sc. S.Y. (SEM-IV)	Inorg. Chem (VIII & IX)	02	
		B.Sc. T.Y. (SEM-VI)	Inorg. Chem (XIV & XV)	02	

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2016-17

NAME OF THE TEACHER	CLASS	THEORY COURSE NAME & NUMBER	AVAILABLE LECTURES	CONDUCTED LECTURES	% CONDUCTED
Dr. K. S. Niralwad	B.Sc. F. Y.,S.Y , T.Y	Organic + Inorganic Chemistry –[I,III,VI,VIII,XII,XIV]	45 per course	45 per course	100%
Mr. P.R. Pande	B.Sc. F. Y.,S.Y , T.Y	Physical + Inorganic Chemistry –[II,IV,VII,IX,XIII,XV]	45 per course	45 per course	100%
		Total courses: lectures:			

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2016-17

Class	Practical course	Available	Conducted	% conducted
B.Sc. F.Y	V	120	120	100%
B.Sc. S.Y	X & XI	240	240	100%
B.Sc. T.Y	XVI & XVII	240	240	100%
	Total courses:			

FORMAT-8
2016-17

No.	Name of the Teacher	Leave taken				Teachers Signature
		C.L.	D.L	M.L	Any other	
01	Dr. K.S. Niralwad	06	22	06		
02	Mr. P.R. Pande	08	01	06		

FORMAT-9
2016-17

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya ,selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
08/09/2016	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:50 p.m.	**Hal No. 09**	**Seminar**	**Co-curricular**

Support / Assistance:_____-_____

Brief Information about the Activity (Citerion no-):

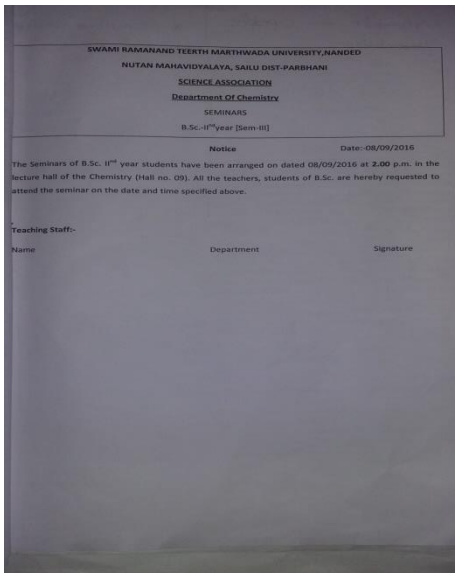
Topic/Subject of the Activity	Seminar of B.Sc. S.Y.
Objective for conducting the activity.	• To help students develop professional skills and attitudes of scientists. • To address issues of importance to scientists that typically do not fit well into traditional chemistry courses. • To work in conjunction with academic advisors to help students appreciate the interconnections in the chemistry

	curriculum and develop and execute a plan to successfully complete graduation requirements in a timely fashion. To introduce ideas or topics of growing importance related to chemistry that are not typically covered in General Chemistry.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ **student list of participation** / certificate / document/ photos / any other



SWAMI RAMANAND TEERTH MARTHWADA UNIVERSITY,NANDED

NUTAN MAHAVIDYALAYA, SAILU DIST-PARBHANI

SCIENCE ASSOCIATION

Department Of Chemistry

SEMINARS

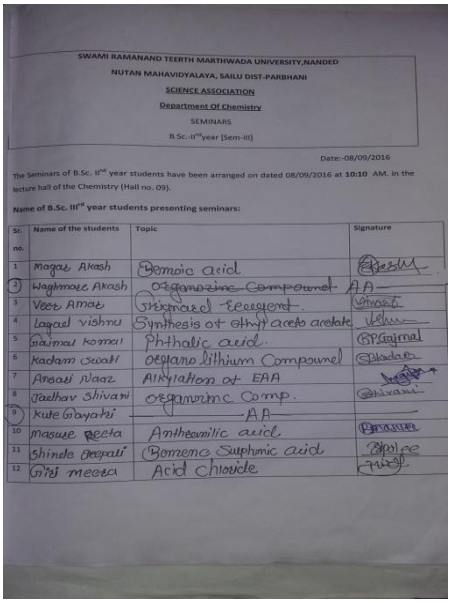
B.Sc.-II[nd]year [Sem-III]

Notice Date:-08/09/2016

The Seminars of B.Sc. II[nd] year students have been arranged on dated 08/09/2016 at **2.00** p.m. in the lecture hall of the Chemistry (Hall no. 09). All the teachers, students of B.Sc. are hereby requested to attend the seminar on the date and time specified above.

Teaching Staff:-

Name Department Signature



SWAMI RAMANAND TEERTH MARTHWADA UNIVERSITY,NANDED

NUTAN MAHAVIDYALAYA, SAILU DIST-PARBHANI

SCIENCE ASSOCIATION

Department Of Chemistry

SEMINARS

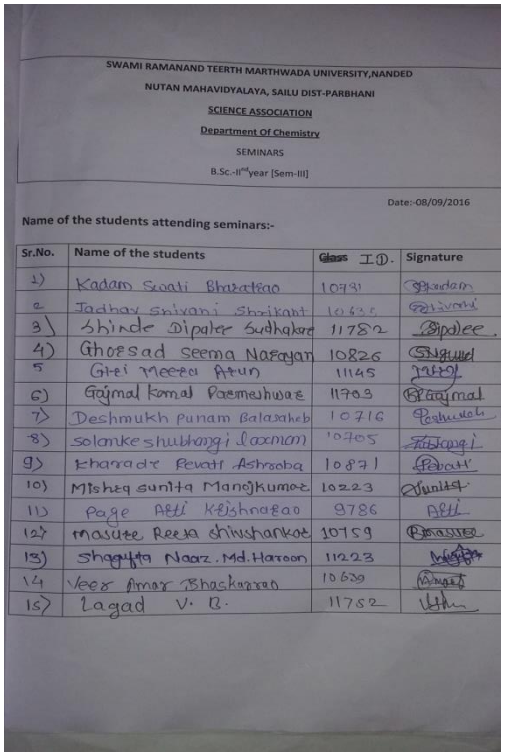
B.Sc.-II[nd]year [Sem-III]

Date:-08/09/2016

The Seminars of B.Sc. II[nd] year students have been arranged on dated 08/09/2016 at **10:10** AM. in the lecture hall of the Chemistry (Hall no. 09).

Name of B.Sc. III[rd] year students presenting seminars:

Sr. no.	Name of the students	Topic	Signature
1	Magar Akash	Benzoic acid	
2	Waghmare Akash	organozinc Compound	AA
3	Veer Amar	Grignard Reagent.	
4	Lagad Vishnu	Synthesis of ethyl aceto acetate	
5	Jaimal Komal	Phthalic acid.	
6	Kadam Swati	organo lithium Compound	
7	Ansari Naaz	Alkylation of EAA	
8	Jadhav Shivani	organozinc Comp.	
9	Kute Gayatri	AA	
10	Masure Reeta	Anthranilic acid.	
11	Shinde Deepali	Benzene Sulphonic acid	
12	Giri Meera	Acid Chloride	



SWAMI RAMANAND TEERTH MARTHWADA UNIVERSITY,NANDED

NUTAN MAHAVIDYALAYA, SAILU DIST-PARBHANI

SCIENCE ASSOCIATION

Department Of Chemistry

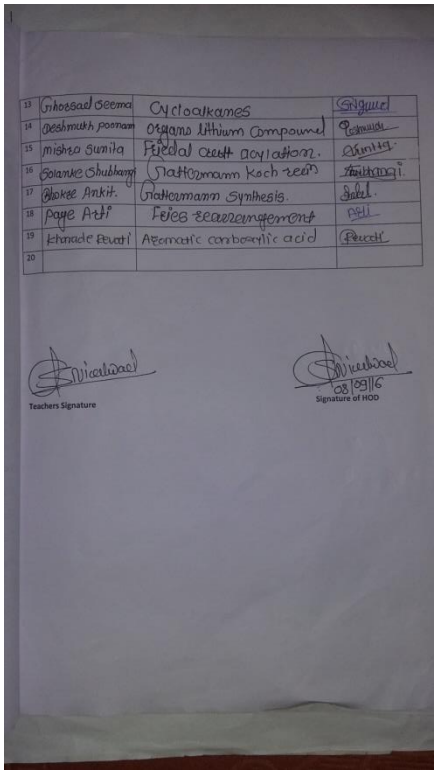
SEMINARS

B.Sc.-II[nd]year [Sem-III]

Date:-08/09/2016

Name of the students attending seminars:-

Sr.No.	Name of the students	~~Class~~ ID.	Signature
1)	Kadam Swati Bhaskarrao	10731	Swkadam
2	Jadhav Snivani Shrikant	10625	Snivani
3)	Shinde Dipaker Sudhakar	11782	Dipalee.
4)	Ghosad Seema Narayan	10826	Ghosad
5	Gitei Meera Arun	11145	Gitei
6)	Gajmal Komal Parmeshwar	11703	Gajmal
7)	Deshmukh Punam Balasaheb	10716	Deshmukh
8)	solanke shubhangi laxman	10705	Shubhangi
9)	Kharade Revati Ashraba	10871	Revati
10)	Mishra sunita Manojkumar	10223	Sunita
11)	Page Arti Krishnarao	9786	Arti
12)	masute Reena shivshankar	10759	Reena
13)	Shagufta Naaz. Md. Haroon	11223	Naaz
14)	Veer Amar Bhaskarrao	10639	Amar
15)	Lagad V. B.	11752	VBL



13	Ghosad Seema	Cycloalkanes	Ghosad
14	Deshmukh poonam	Organo Lithium Compound	Deshmukh
15	mishra sunita	Friedal Craft acylation.	Sunita
16	Solanke Shubhangi	Gattermann Koch reaction	Shubhangi
17	Bhokre Ankit.	Gattermann Synthesis.	Ankit.
18	Page Arti	Fries Rearrangement	Arti
19	Kharade Revati	Aromatic carboxylic acid	Revati
20			

Teachers Signature

08/09/16

Signature of HOD

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya ,selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
12/01/2017	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:50 p.m.	**Hal No. 08**	**Seminar**	**Co-curricular**

Support / Assistance:_____-_____

Brief Information about the Activity (Citerion no-):

Topic/Subject of the Activity	Seminar of B.Sc. T.Y.
Objective for conducting the activity.	• To help students develop professional skills and attitudes of scientists. • To address issues of importance to scientists that typically do not fit well into traditional chemistry courses. • To work in conjunction with academic advisors to help students appreciate the interconnections in the chemistry curriculum and develop and execute a plan to successfully complete graduation requirements in a timely fashion. To introduce ideas or topics of growing importance related to chemistry that are not typically covered in General Chemistry.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ **student list of participation** / certificate / document/ photos / any other

SWAMI RAMANAND TEERTH MARTHWADA UNIVERSITY,NANDED

NUTAN MAHAVIDYALAYA, SAILU DIST-PARBHANI

SCIENCE ASSOCIATION

Department Of Chemistry

SEMINARS

B.Sc.-III[rd]year [Sem-VI]

Date:- 12/01/2017

Name of the students attending seminars:-

Sr.No.	Name of the students	Class	Signature
1)	Rangwan Sujata	B.Sc.T.Y	Sujata
2)	pathankar A.J.	B.Sc.T.Y	
3)	Ghardge Shital	B.Sc.T.Y	Ghardge
4)	Chavan Pooja	B.Sc.T.Y	Chavan.
5)	Bireadar Dnyanda	B.Sc. T.Y	Dnyanda.
6)	Potbhankar Patil Bapurao	B.Sc.T.Y	Patil
7)	Potdar Aishwarya Sanjay	B.Sc.T.Y.	Potdar
8)	Kale sonali Balasaheb	B.Sc.T.Y	Kale
9)	Waman Ashtake Pandurang	B.Sc.T.Y.	Ashtake
10)	Rathod Avinash Manikrao	B.Sc T.Y.	Rathod
11)	Hadgaonkar Shantanu P.	B.Sc.T.Y.	Shantanu.
12)	Pathankar Hrishant vijaya	B.Sc T.Y	Hrishant
13)	Raut Sarita Ramkishan	B.Sc.T.Y.	Raut
14)	Dhage Amol Bhagwan	B.Sc.T.Y	Dhage
15)	Deshpande Madhav Durgadas	B.Sc T.Y	Deshpande

FORMAT-13
2016-17

Teaching Plan.

Department: **Chemistry**
Faculty:- **Science**
Name of the Faculty: **Dr. Kirti S. Nralwad**
Subject : **Chemistry**

THEORY Term I /					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (I)	JULY	Nomenclature of Organic Compounds	Nomenclature of Organic Compounds
			AUG	Basic Concepts In Organic Chemistry	Basic Concepts In Organic Chemistry
			SEP	Alkanes and Cycloalkanes	Alkanes and Cycloalkanes
			OCT	Alkenes, Dienes and Alkynes	Alkenes, Dienes and Alkynes
			NOV	Alcohols and Epoxides	Alcohols and Epoxides
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VI)	JULY	Aromatic Carbonyl Compounds	Aromatic Carbonyl Compounds
			AUG	Polymers	Polymers
			SEP	Stereochemistry	Stereochemistry
			OCT	Organic Synthesis via Enolates	Organic Synthesis via Enolates
			NOV	Theory of Qualitative	Theory of Qualitative

				Analysis	Analysis
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XII)	JULY	Heterocyclic Compounds	Heterocyclic Compounds
			AUG	Six-membered heterocyclics	Six-membered heterocyclics
			SEP	Synthetic drugs and dyes	Synthetic drugs and dyes
			OCT	Alkaloids, Vitamins and Pesticides	Alkaloids, Vitamins and Pesticides
			NOV	Hard And Soft Acids And Bases	Hard And Soft Acids And Bases
TERM II			**THEORY**		
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (III)	DEC	Aromatic Hydrocarbons and Aromaticity	Aromatic Hydrocarbons and Aromaticity
			JAN	Phenols & Haloalkene and Haloarene	Phenols & Haloalkene and Haloarene
			FEB	Carboxylic Acid Derivatives	Carboxylic Acid Derivatives
			MARCH	Study of P-block elements	Study of P-block elements
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VIII)	DEC	Carbohydrates & Organic compounds of nitrogen	Carbohydrates & Organic compounds of nitrogen
			JAN	Heterocyclic Compounds	Heterocyclic Compounds

			FEB	Polynuclear Hydrocarbon	Polynuclear Hydrocarbon
			MARCH	Chemistry of Transition series elements	Chemistry of Transition series elements
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XIV)	DEC	U. V. & I.R. Spectroscopy	U. V. & I.R. Spectroscopy
			JAN	NMR – Spectroscopy	NMR – Spectroscopy
			FEB	Amino acids, Peptides and Proteins	Amino acids, Peptides and Proteins
			MARCH	Synthetic Polymers and Molecular Rearrangements	Synthetic Polymers and Molecular Rearrangements
PRACTICALS (In case of Science)					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic + Physical Chemistry	June-March	Laboratory Course-I	Laboratory Course-I
	B.SC.S.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-II	Laboratory Course-II
	B.SC.T.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-IV	Laboratory Course-IV

FORMAT-14

2016-17

Student Strenght of Department : **F.Y**. :- 57 **S.Y.:-** 25 **T.Y.:-** 16 **Total :-** 98

F.Y. B.Sc = Practical Batches :- 02

S.Y. B.SC = Practical Batches:- 01

Total Departmental workload = 42

Name of the Teacher : Dr. Kirti S. Niralwad

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06	**18**	
2	S.Y. B.Sc	02	01	06		00
3	T.Y. Bsc	02	01	06		

Name of the Teacher : Mr.Pande .P.R.

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	01	02	09	**21**	
2	S.Y. B.Sc	02	01	06		01
3	T.Y. Bsc	02	01	06		

FORMAT-15
2016-17

Faculty Science

Department Chemistry

Name of the Teacher Dr. Kirti S. Niralwad

Total Workload _____ 18 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			18	00

Faculty Science

Department Chemistry

Name of the Teacher Mr. P.R.Pande

Total Workload _____ 21 Lectures (05) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	01	02	09	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			21	01

Faculty Science

Department Chemistry

Name of the Teacher Mr. M.S.Rathod

Total Workload _____ 11 Lectures (07) Practical's (00)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	03	00	03	
2	B.Sc. S.Y.	02	00	02	
3	B.Sc. T.Y.	02	00	02	
	Total			07	00

PROFILE OF CHEMISTRY DEPARTMENT

The Chemistry department of the college was established in the year **1968**. For the first two years, department functioned in the laboratories of the Nutan Vidyalaya. A department was then shifted to Hall No. 2 of the present main building of the college, which was temporarily renovated to accommodate departmental laboratories. Department was finally shifted to the present place in **1976**.

LABORATORIES

Department is now housed in a spacious building which was constructed under UGC assistance. Department sincerely want to thank UGC for its generous contribution in the construction of laboratory buildings.

Departmental building comprises two laboratories, a preparation room, a store room, LPG gas stored room, cabin for Head of the department, staff room, etc.

Dimensions of our laboratories i.e. 40 X 22, provide sufficient moving space to 24 students working in a single practical batch. Our laboratories are well furnished and have all the physical facilities such as Inverter, running water, L.P.G. line, exhaust fans etc. Department has given serious consideration for its safety and thus had made provision for two fire extinguishers to meet any emergency. Department has a first aid box, which is used for providing first aid in case of minor injuries.

CHEMICAL EQUIPMENTS

Department has ample stock of laboratory chemicals, glassware and other equipment required for U.G. level courses. Department has a special store room for stocking chemicals, glassware and equipments. Department rightfully boasted of having multiple copies of all the analytical instruments required for physical chemistry practical. Department is really grateful to UGC for providing financial assistance for the procurement of laboratory equipment and instruments. The infrastructure of the department is sufficient to carry out minor research projects. Beside equipments department has a stock of few charts, models, video cassettes etc. A separate list of major equipments, instruments, charts, Video cassettes is given.

Department makes its routine purchases of chemicals, glassware and equipments from the budget allowed to the department every year. A part of the departmental budget is utilized for the maintenance and repairs of laboratory instruments. Department Strictly adheres to the government norms regarding purchases such as calling quotations, making comparative statements of quotations etc.

STAFF

Department was established in 1968, under the leadership of Dr. R. M. Kharwadkar, who was the founder head of the unit. In the current academic year, department has two full time teachers, who is assisted by one part time teacher appointed on clock hour basis. A list of faculty is given separately.

Department is manned by a full time laboratory assistant who is assisted by two laboratory attendants. Laboratory assistant is assigned the work of maintenance of stock registers, yearly stock verification, preparation work of practical's, etc. A list of staff is given separately.

LIBRARY

Department have its own library unit. The books in our subjects are stocked in the racks of central library. The total number of chemistry titles in the central library is 1205, which includes text and reference books. Besides, the department has started its own departmental library with selective books useful for regular studies. The faculty has their own personal books which are made available to the students as per the need and demand.

- Chemistry for degree students B.Sc. Ist, IInd, IIIrd by R.L. Madan
- Organic chemistry by Bahl and Bahl
- Principle of Inorganic Chemistry by Puri, Sharma &Kalia.
- Essential of physical chemistry by Bahl, Bahl and Tuli
- Organic Spectroscopy by P.S. Kalsi

- Organic reactions by Adams
- Organic chemistry by Gilman
- Inorganic chemistry by J.D. Lee

The library of chemistry books includes books in all the branches of chemistry such as organic, physical, analytical, Industrial etc. Enrichment of our departmental library could be possible due to U.G.C. financial assistance in different plan periods.

Besides text and reference books, department has subscribed for research journals such as

- *Current Science*
- *Indian journal of chemistry*

Library has bound volumes of back numbers for the above journals. Presently, we have subscribed for Indian journal of chemistry.

Library budget allotted to the department is utilized for the procurement of books.

Faculty Profiles: link will be provided...

http://www.nutanmahavidyalaya.com/images/facultyprofile/Resume%20of%20Dr%20Niralwad.pdf

AIMS AND OBJECTIVES

1. Basically the Chemistry including the study of Organic, Physical and Inorganic chemistry.
2. To create interest among the student in chemistry and make them aware of the economic importance which is needed for industrial importance
3. To create among the student regarding self employment and generate of sources of the income through chemical science.
4. To promote and create the student for higher education and research aptitude.
5. To create Inspiration and motivation to students.
6. To provide students with the latest technologies and learning aids.
7. To encourage the students for creative writing.
8. To develop research faculties and research discipline in the students.

Objective

1. To organize conferences and seminars in the future.
2. To connect the faculty and all the students through latest devices of information technologies
3. To arrange more and more guest lecturers in the department.
4. To enrich the reservoir of e-content
5. To encourage the students for wall bulletin, seminar and group discussion.

Report of Academic Year 2013-14:

ACTIVITIES

Since department runs only UG level courses, minor activity of the department is teaching, obviously research contribution of the department is marginal. To supplement classroom teaching activity, department actively participate in organizing following co-curricular activities.

- Organization of Guest lectures
- Subject seminar by students
- Wall bulletin by students.
- Poster presentation for Avishkar by students.

FORMAT-1

2017-18

TOTAL STUDENT STRENGTH OF THE DEPARTMENT OF CHEMISTRY

NO	CLASS	STUDENT STREGTH			NO OF DIVISIONS
		MALE	FEMALE	TOTAL	
01	B.Sc. FY	27	55	82	04
02	B.Sc. SY	14	24	38	01
03	B.Sc. TY	09	12	21	01

FORMAT-2

2017-18

NAME OF DEPARTMENT: Chemistry

NO	NAME OF THE STAFF MEMBER	QUALIFICATIONS	DATE OF APPOINTMENT	NATURE OF APPOINTMENT	YEARS OF SERVICE
01	Dr. K.S. Niralwad	M.Sc. , Ph.D.	10/10/2011	Permanent	06
02	Mr. P.R. Pande	M.Sc. NET	20/10/2012	Permanent	05
03	Mr.M.S. Rathod	M.Sc.B.Ed.	June-2015	CHB	03

FORMAT-3

2017-18

NAME OF DEPARTMENT: CHEMISTRY

NO	NAME OF THE STAFF MEMBER	WORK LOAD				
		CLASS WISE	THEORY	PRACTICAL	TOTAL	SIGNATURE OF THE STAFF MEMBER
01	Dr. K.S. Niralwad	B.Sc. F.Y				
02	Mr. P.R. Pande	B.Sc. S.Y				
03	Mr.M.S. Rathod	B.Sc. T.Y				

FORMAT- 4

2017-18

DEPARTMENT OF CHEMISTRY

Name: Dr. KIRTI S. NIRALWAD

Day	**10:10**	**11:00**	**12:40**	**2:00**	**2:50**	**3:40-6:10**
Monday			T.Y.			S.Y.(S_1batch Pra.)
Tuesday		F.Y.				
Wednesday		F.Y.		T.Y.(T_1batch Pra.)		
Thursday	S.Y.					
Friday			T.Y.	F.Y. (F1 Batch Pra.) Lab 1.		
Saturday	S.Y.					

DEPARTMENT OF CHEMISTRY

Name: Mr. P.R. Pande

Day	**10:10**	**11:00**	**12:40**	**2:00**	**2:50**	**3:40-6:10**
Monday		F.Y.				
Tuesday	S.Y.					S.Y.(S_2batch Pra.)
Wednesday			T.Y.			
Thursday			T.Y.	T.Y.(T_1batch Pra.)		
Friday	S.Y.			F.Y. (F2 Batch Pra.)		
Saturday		F.Y.		F.Y. (F3 Batch Pra.) Lab 1		

DEPARTMENT OF CHEMISTRY

Name: Mr. M.S. Rathod

Day	**10:10**	**11:00**	**12:40**	**2:00**	**2:50**	**3:40-6:10**
Monday	S.Y.					S.Y.(S_2batch Pra.)
Tuesday			T.Y.			S.Y.(S_1batch Pra.)
Wednesday	S.Y.					
Thursday		F.Y.				
Friday		F.Y.				
Saturday			T.Y.	F.Y. (F4 Batch Pra.) Lab 1		

FORMAT-5

2017-18

NAME OF THE DEPARTMENT: Chemistry

NO	**NAME OF THE TEACHER**	**CLASS**	**COURSE NAME AND NUMBER**	**TOTAL NO OF LECTURES ALLOTTED**	**DATE OF TEACHING PLAN COMPLETION**
01	Dr. K.S. Niralwad	B.Sc. F.Y. (SEM-I)	Org + Inorg. Chem (I)	02	
		B.Sc. S.Y. (SEM-III)	Org + Inorg. Chem (VI)	02	
		B.Sc. T.Y. (SEM-V)	Org + Inorg. Chem (XII)	02	
		B.Sc. F.Y. (SEM-II)	Org + Inorg. Chem (III)	02	
		B.Sc. S.Y. (SEM-IV)	Org + Inorg. Chem (VIII)	02	
		B.Sc. T.Y. (SEM-VI)	Org + Inorg. Chem (XIV)	02	
02	Mr. P.R.	B.Sc. F.Y.	Phy +	02	

	Pande	(SEM-I)	Inorg. Chem (II)		
		B.Sc. S.Y. (SEM-III)	Phy + Inorg. Chem (VII)	02	
		B.Sc. T.Y. (SEM-V)	Phy + Inorg. Chem (XIII)	02	
		B.Sc. F.Y. (SEM-II)	Phy + Inorg. Chem (IV)	02	
		B.Sc. S.Y. (SEM-IV)	Phy + Inorg. Chem (IX)	02	
		B.Sc. T.Y. (SEM-VI)	Phy + Inorg. Chem (XV)	02	
03	Mr.M.S. Rathod	B.Sc. F.Y. (SEM-I)	Inorg. Chem (I &II)	02	
		B.Sc. S.Y. (SEM-III)	Inorg. Chem (VI &VII)	02	
		B.Sc. T.Y. (SEM-V)	Inorg. Chem (XII & XIII)	02	
		B.Sc. F.Y. (SEM-II)	Inorg. Chem (III & IV)	02	
		B.Sc. S.Y. (SEM-IV)	Inorg. Chem (VIII & IX)	02	
		B.Sc. T.Y. (SEM-VI)	Inorg. Chem (XIV & XV)	02	

FORMAT-6
2017-18

NAME OF THE TEACHER	CLASS	THEORY COURSE NAME & NUMBER	AVAILABLE LECTURES	CONDUCTED LECTURES	% CONDUCTED
Dr. K. S. Niralwad	B.Sc. F. Y.,S.Y , T.Y	Organic + Inorganic Chemistry –[I,III,VI,VIII,XII,XIV]	45 per course	45 per course	100%
Mr. P.R. Pande	B.Sc. F. Y.,S.Y , T.Y	Physical + Inorganic Chemistry –[II,IV,VII,IX,XIII,XV]	45 per course	45 per course	100%
		Total courses: lectures:			

FORMAT-7
2017-18

Class	Practical course	Available	Conducted	% conducted
B.Sc. F.Y	V	120	120	100%
B.Sc. S.Y	X & XI	240	240	100%
B.Sc. T.Y	XVI & XVII	240	240	100%
	Total courses: practical:			

FORMAT-8
2017-18

No.	Name of the Teacher	Leave taken				Teachers Signature
		C.L.	D.L	M.L	Any other	
01	Dr. K.S. Niralwad	08	24	02		
02	Mr. P.R. Pande	07	39	08		

FORMAT-9
2017-18

Departmental Documentation Performa:-

Collage Name:- Nutan Mahavidyalaya Selu

Name of the Activity :			
Date	Faculty	Department / Committee	Coordinator Name @ Phone no.
06/02/2018	**Science**	**Science association**	**Dr. Kirti Niralwad**
Time	Venue	Activity for class / group Expected student number	Nature of the Activity:
2:50 p.m.	**Hal No. 21**	**Seminar**	**Co-curricular**

Support / Assistance:_____-_____
Brief Information about the Activity (Citerion no-):

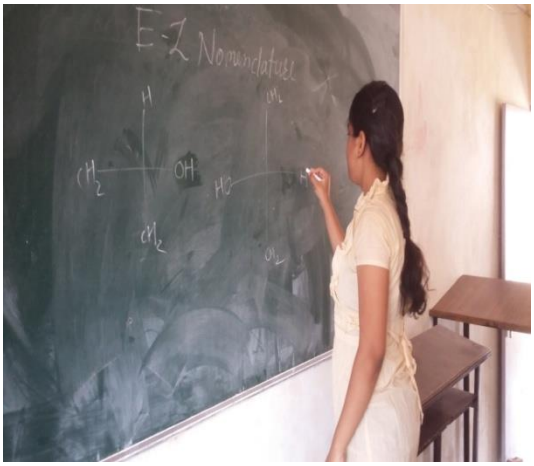
Topic/Subject of the Activity	Seminar of B.Sc. S.Y.
Objective for conducting the activity.	• To help students develop professional skills and attitudes of scientists. • To address issues of importance to scientists that typically do not fit well into traditional chemistry courses. • To work in conjunction with academic advisors to help students appreciate the interconnections in the chemistry

	curriculum and develop and execute a plan to successfully complete graduation requirements in a timely fashion. To introduce ideas or topics of growing importance related to chemistry that are not typically covered in General Chemistry.
Methodology	
Outcome	

Recommendations from:

Date of Proposal Submission:

Proofs attached: letter/ student list of participation / certificate / document/ **photos** / any other.



FORMAT-13
2017-18

Teaching Plan.

Department: **Chemistry**
Faculty:- **Science**
Name of the Faculty: **Dr. Kirti S. Nralwad**
Subject : **Chemistry**

THEORY Term I /					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (I)	JULY	Nomenclature of Organic Compounds	Nomenclature of Organic Compounds
			AUG	Basic Concepts In Organic Chemistry	Basic Concepts In Organic Chemistry
			SEP	Alkanes and Cycloalkanes	Alkanes and Cycloalkanes
			OCT	Alkenes, Dienes and Alkynes	Alkenes, Dienes and Alkynes
			NOV	Alcohols and Epoxides	Alcohols and Epoxides
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VI)	JULY	Aromatic Carbonyl Compounds	Aromatic Carbonyl Compounds
			AUG	Polymers	Polymers
			SEP	Stereochemistry	Stereochemistry
			OCT	Organic Synthesis via Enolates	Organic Synthesis via Enolates
			NOV	Theory of Qualitative	Theory of Qualitative

				Analysis	Analysis
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XII)	JULY	Heterocyclic Compounds	Heterocyclic Compounds
			AUG	Six-membered heterocyclics	Six-membered heterocyclics
			SEP	Synthetic drugs and dyes	Synthetic drugs and dyes
			OCT	Alkaloids, Vitamins and Pesticides	Alkaloids, Vitamins and Pesticides
			NOV	Hard And Soft Acids And Bases	Hard And Soft Acids And Bases
TERM II			**THEORY**		
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic Chemistry (III)	DEC	Aromatic Hydrocarbons and Aromaticity	Aromatic Hydrocarbons and Aromaticity
			JAN	Phenols & Haloalkene and Haloarene	Phenols & Haloalkene and Haloarene
			FEB	Carboxylic Acid Derivatives	Carboxylic Acid Derivatives
			MARCH	Study of P-block elements	Study of P-block elements
	B.Sc.S.Y.	Organic + Inorganic Chemistry (VIII)	DEC	Carbohydrates & Organic compounds of nitrogen	Carbohydrates & Organic compounds of nitrogen
			JAN	Heterocyclic Compounds	Heterocyclic Compounds

			FEB	Polynuclear Hydrocarbon	Polynuclear Hydrocarbon
			MARCH	Chemistry of Transition series elements	Chemistry of Transition series elements
	B.Sc.T.Y.	Organic + Inorganic Chemistry (XIV)	DEC	U. V. & I.R. Spectroscopy	U. V. & I.R. Spectroscopy
			JAN	NMR – Spectroscopy	NMR – Spectroscopy
			FEB	Amino acids, Peptides and Proteins	Amino acids, Peptides and Proteins
			MARCH	Synthetic Polymers and Molecular Rearrangements	Synthetic Polymers and Molecular Rearrangements

PRACTICALS (In case of Science)					
Sr.No	Class	Subject	Month	Topic covered	Topics to be covered
	B.SC.F.Y.	Organic + Inorganic + Physical Chemistry	June-March	Laboratory Course-I	Laboratory Course-I
	B.SC.S.Y.	Organic + Inorganic Chemistry	June-March	Laboratory Course-II	Laboratory Course-II
	B.SC.T.Y.	Organic + Inorganic Chemistr	June-March	Laboratory Course-IV	Laboratory Course-IV

		y			

FORMAT-14

2017-18

Student Strenght of Department : **F.Y**. :- 82 **S.Y.:-** 38 **T.Y.:-** 21 **Total :-** 141

F.Y. B.Sc = Practical Batches :- 04

S.Y. B.SC = Practical Batches:- 02

Total Departmental workload = 01

Name of the Teacher : Dr. Kirti S. Niralwad

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	01	06	**18**	
2	S.Y. B.Sc	02	01	06		00
3	T.Y. Bsc	02	01	06		

Name of the Teacher : Mr.Pande .P.R.

Sr.No	Class	Lectures	Practicals	Total workload		Extra workload
1	F.Y. B.Sc	02	02	10	**22**	
2	S.Y. B.Sc	02	01	06		02
3	T.Y. Bsc	02	01	06		

FORMAT-15
2017-18

Faculty Science

Department Chemistry

Name of the Teacher Dr. Kirti S. Niralwad

Total Workload _____ 18 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			18	00

Faculty Science

Department Chemistry

Name of the Teacher Mr. P.R.Pande

Total Workload _____ 22 Lectures (05) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	02	10	
2	B.Sc. S.Y.	02	01	06	
3	B.Sc. T.Y.	02	01	06	
	Total			22	02

Faculty Science

Department Chemistry

Name of the Teacher Mr. M.S.Rathod

Total Workload _____ 18 Lectures (06) Practical's (03)

Sr. No	Class	Lectures	Practical's	Total workload	Extra workload
1	B.Sc. F.Y.	02	01	06	
2	B.Sc. S.Y.	02	02	10	
3	B.Sc. T.Y.	02	00	02	
	Total			18	00