

"Education for Knowledge, Science and Culture"  
-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur  
**Vivekanand College, Kolhapur (Autonomous)**  
**Department of Chemistry**

**Notice for faculty members**

**Date: 20/06/2018**

All faculty member of Department of chemistry are hereby informed that meeting will be held on Friday 22<sup>nd</sup> June 2018 at 2.30 p.m. Please be noted.

Venue:- Department of Chemistry

**Agenda of meeting**

- 1) Distribution of syllabus for B.Sc. I, II and III
- 2) Preparation of timetable for M.Sc. I and II
- 4) Any other matter with the permission of chairman

*Dr. D. B. Patil*

Head of department  
(Dr. D. B. Patil )

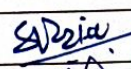


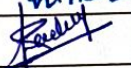
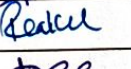

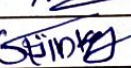
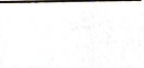
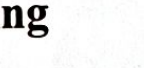
Head  
Dept. of Chemistry  
Vivekanand College, Kolhapur

Sr. No.	Name of Faculty	Sign
1	Dr. S. D. Shirke.	<i>S.D. Shirke</i>
2	Dr. K.A. Undale	<i>K.A. Undale</i>
3	Dr. S. S. Ankushrao	<i>S.S. Ankushrao</i>
4	Dr. S.D. Shinde	<i>S.D. Shinde</i>
5	Shri. S.S. Kadam	<i>S.S. Kadam</i>
6	Shri. R.A. Kalel	<i>R.A. Kalel</i>
7	Dr. D.S. Gaikwad	<i>D.S. Gaikwad</i>
8	Shri. A.T. Mane	<i>A.T. Mane</i>
9	Shri. A.A. Patravale	<i>A.A. Patravale</i>



## Report of the Meeting

Following committee members were present for the is meeting

Sr. No.	Name of Faculty	Sign
1	Dr. S. D. Shirke.	
2	Dr. K. A. Undale	
3	Dr. S. S. Ankushrao	
4	Dr. S. D Shinde	
5	Shri. S. S. Kadam	
6	Shri. R. A. kalel	
7	Dr. D. S. Gaikwad	
8	Shri. A. T. Mane	
9	Shri. A. A. Patravle	

## **Minutes of the meeting**

The meeting of the faculty members of the department of Chemistry were held on 22<sup>nd</sup> June 2018 under the chairmanship of Head, department of Chemistry, Vivekanand College, Kolhapur. To discuss various issued mentioned in the agenda.

### **Item No. 1) Distribution of syllabus for B.Sc. I, II and III**

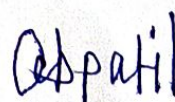
With regarding to the issue mentioned above, syllabus is distributed among all faculties members.

### **Item No. 2) Preparation of timetable for M.Sc. I and II**

With regarding to the issue mentioned above, timetable for M.Sc. is prepared.

As there is no issue for further discussion and hence the meeting is over.



  
Head of department  
(Dr. D. B. Patil )  
**Head**  
**Dept. of Chemistry**  
Vivekanand College, Kolhanur

## Action Taken Report

Meeting Date: 22<sup>nd</sup> June 2018

Meeting Location: Dept. of Chemistry, Vivekanand College, Kolhapur

Chairperson: DR. D. B. Patil, Head of Chemistry Department

Minutes of the Meeting:

Item No. 1: Distribution of Syllabus for B.Sc. I, II, and III

Action Taken: It was reported that the syllabi for B.Sc. I, II, and III have been distributed among all faculty members.

Item No. 2: Preparation of Time table for M.Sc. I and II

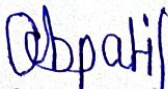
Action Taken: It was reported that the timetable for M.Sc. I and II has been successfully prepared.

Additional Comments:

1. The distribution of syllabi for B.Sc. I, II, and III has been completed, and faculty members have been informed of their respective teaching responsibilities.
2. The timetable for M.Sc. I and II has been finalized, and it will be circulated among the M.Sc. students and faculty members for their reference.
3. The department will monitor the implementation of the syllabus distribution and timetable preparation to ensure that all faculty members and students are aware of their schedules.
4. Any necessary adjustments to the timetable will be made promptly to accommodate any unforeseen circumstances or changes in the academic calendar.
5. Faculty members are encouraged to provide feedback on the timetable to the department for future improvements.

Signature:



  
Head of department  
(Dr. D. B. Patil)  
**Head**  
**Dept. of Chemistry**  
Vivekanand College, Kolhapur

## Vivekanand College, Kolhapur

(Autonomous)

Department of Chemistry

Syllabus Distribution

(Academic Year 2018-19)

### • B.Sc. I (Sem-I)

#### Paper No. I: Inorganic Chemistry (50 Marks)

Sr. No.	Name of faculty	Name of Chapter Allotted
1	Shri. R. A. Kalel	Atomic Structure [10]
2	Dr. S. D. Shinde	Periodicity of elements [07]
3	Dr. S. S. Ankushrao	Ionic Bonding [06]
4	Dr. S. S. Ankushrao	Covalent bonding -Valence Bond Theory (VBT) [07]
5	Dr. S. D. Shinde	Molecular orbital theory (MOT) [07]

#### Paper No. II: Organic Chemistry (50 Marks)

Sr. No.	Name of faculty	Name of Chapter Allotted
1	Mr. S. S. Kadam	Fundamentals of Organic Chemistry [09]
2	Dr. Mrs. S. D. Shirke	Stereochemistry [10]
3	Dr. Mrs. S. D. Shirke	Alkanes [06]
4	Dr. Mrs. S. D. Shirke	Alkenes [07]
5	Mr. S. S. Kadam	Alkynes [06]

### • B.Sc. II (Sem-III)

#### Paper No. V: Organic Chemistry

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. Mrs. S. D. Shirke	Stereochemistry [08]
2.	Mr. S. S. Kadam	Polynuclear Hydrocarbons [08]
3.	Dr. Mrs. S. D. Shirke	Study of Heterocyclic Compounds [08]

4.	Mr. S. S. Kadam	Name Reactions [08]
5.	Mr. S. S. Kadam	Green Chemistry [08]

**Paper No. VI: Analytical Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. K. A. Undale	Introduction to analytical chemistry [08]
2.	Mr. S. B. Gaikwad	Gravimetry [08]
3.	Mr. S. B. Gaikwad	Inorganic qualitative analysis [08]
4.	Dr. D. B. Patil	Conductometric titration [07]
5.	Mr. R. A. Kalel	Analysis of fertilizer [07]

• **B.Sc. III (Sem-V)**

**Paper No. IX: Physical Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Mr. R. A. Kalel	Quantum Theory [08]
2.	Dr. K. A. Undale	Spectroscopy [08]
3.	Mr. R. A. Kalel	Photochemistry [07]
4.	Dr. K. A. Undale	Solutions [05]
5.	Dr. D. B. Patil	Electromotive force [10]

**Paper No. X: Inorganic Chemistry**

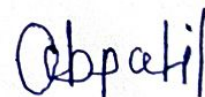
Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S. S. Ankushrao	Hard and Soft acids and Bases [05]
2.	Mr. S. B. Gaikwad	Metal ligand bonding in Transition metal complexes [08].
3.	Dr. S. D. Shinde	Inorganic Polymers [07]
4.	Dr. S. D. Shinde	Metals, Semiconductors and Superconductors [10]
5.	Mr. S. B. Gaikwad	Organometallic Chemistry. [07]

**Paper No. XI: Organic Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Mr. S. S. Kadam	Introduction to Spectroscopy [03]
2.	Mr. S. S. Kadam	UV Spectroscopy [05]
3.	Mr. S. S. Kadam	IR Spectroscopy [06]
4.	Dr. Mrs. S. D. Shirke	NMR Spectroscopy [09]
5.	Dr. Mrs. S. D. Shirke	Mass spectroscopy. [08]
6.	Mr. S. S. Kadam	Combined Problems based on UV, IR, NMR and Mass Spectral data [08]

**Paper No. XII: Industrial Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S. S. Ankushrao	Manufacture of Heavy Chemicals (8)
2.	Dr. S. S. Ankushrao	Corrosion and Passivity (8)
3.	Dr. Mrs. S. D. Shirke	Sugar Industry (7)
4.	Dr. Mrs. S. D. Shirke	Soaps and Detergents (7)
5.	Dr. K. A. Undale	Nanomaterials (8)

**Dr. D. B. Patil****Head  
Dept. of Chemistry  
Vivekanand College, Kolhanur**

## Vivekanand College, Kolhapur

(Autonomous)

Department of Chemistry

Syllabus Distribution (Academic Year 2018-19)

• M.Sc. I (Sem-I)

Paper No. I: CH-101 Inorganic Chemistry -I

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.		<b>Unit-I:</b> Group theory and Symmetry concept [15]
2.		<b>Unit-II:</b> a) Stereochemistry and Bonding in main group compounds [08] b) Metal ligand equilibria in solution [07]
3.		<b>Unit-III:</b> a) Chemistry of transition elements [10] b) Bioinorganic Chemistry [05]
4.		<b>Unit-IV:</b> Electronic, Electric and Optical behaviour of Inorganic materials [15]

Paper No. II: CH-102 Organic Chemistry -I

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.		<b>Unit-I:</b> a) Reaction Mechanism: Structure and Reactivity [8] b) Aliphatic Nucleophilic substitutions [7]
2.		<b>Unit-II:</b> a) Aromatic Electrophilic Substitutions [8] b) Non benzenoid aromatic Compounds [7]
3.		<b>Unit-III:</b> a) Elimination Reactions [8] b) Study of following reactions [7]
4.		<b>Unit-IV:</b> Stereochemistry [15]

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**Paper No. III: CH-103 Physical Chemistry -I**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.		<b>Unit-I:</b> Molecular Spectroscopy [15]
2.		<b>Unit-II:</b> Chemistry of Polymers [15]
3.		<b>Unit-III:</b> Colloids and surface phenomena [15]
4.		<b>Unit-IV:</b> Thermodynamics [15]

**Paper No. CH- IV: 104 Analytical Chemistry-I**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S. S. Ankushrao	<b>Unit-I:</b> Introduction to Quality Control and quality assurance [15]
2.		<b>Unit-II:</b> Chromatographic methods [15]
3.		<b>Unit-III:</b> Electroanalytical Techniques [15]
4.		<b>Unit-IV:</b> a) Introduction to Research Methodology [7] b) Nanomaterials [8]

**• M.Sc. II (Sem-III)**

**Paper No. OCH -IX: Organic Reaction Mechanism**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. M. B. Deshmukh	<b>Unit 1-</b> Methods of determining reaction mechanism, (15)
2.		<b>Unit 2-</b> Pericyclic reactions (15)
3.	Dr. D. R. Chandam	<b>Unit 3-</b> A) Study of reactive intermediates (7) B) Study of following reactions (8)
4.		<b>Unit 4-</b> Photochemistry (15)

**Paper No. OCH - X: Advanced Spectroscopic Methods**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. K. A. Undale	<b>Unit 1-</b> a) Ultraviolet Spectroscopy



		(05) b) IR Spectroscopy (10)
2.	Dr. M. B. Deshmukh	<b>Unit 2-</b> NMR Spectroscopy (15)
3.	Dr. M. B. Deshmukh	<b>Unit 3-</b> Mass Spectrometry (15)
4.		<b>Unit 4-</b> A) Carbon-13 NMR Spectroscopy (7) B) Structural problems based on combined spectroscopic techniques (including reaction sequences) (8)

**Paper No. OCH -XI: Advanced Synthetic Methods**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. M. R. Ghatage	<b>Unit 1-</b> Disconnection approach (15)
2.		<b>Unit 2-</b> Application of the following reagents and reaction in synthesis. (15)
3.	Mr. S. S. Kadam	<b>Unit 3-</b> Applications of following metal in organic synthesis (15)
4.	Dr. D. S. Gaikwad	<b>Unit 4-</b> Application of the following in synthesis (15)

**Paper No. OCH -XII: Drug and Heterocycle**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. Mrs. S. D. Shirke	<b>Unit 1-</b> a) Drug design (10) b) Study of Antibiotics (05)
2.	Dr. A. A. Patravale	<b>Unit 2-</b> Study of the Following types of drugs (15)
3.	Dr. D. S. Gaikwad/ Dr. A. A. Patravale	<b>Unit 3-</b> a) Small ring Heterocycles (05) b) Benzofused five membered Heterocycles (05) c) Six membered Heterocycles with one heteroatom (05)
4.	Dr. Mrs. V. D. Patil Dr. D. S. Gaikwad	<b>Unit 4-</b> a) Six membered Heterocycles with two and more Heteroatoms (8) b) Seven membered Heterocycles (7)

*Dr. D. B. Patil*  
Dr. D. B. Patil

Head  
Dept. of Chemistry  
Vivekanand Collage, Kolhapur



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2130 E, Tarabai Park, Tal. Karveer, Dist. Kolhapur 416 003

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**DEPARTMENT OF CHEMISTRY**

**B.Sc. TIME TABLE YEAR 2018-19 w.e.f. 23/07/2018**

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	Saturday
07-30 TO 11-30			<b>B.Sc.III PRA.</b> C1-DBP/SDS/SBG C2-SSA/DBP/KAU C3-SSK/AAG/DBP	<b>B.Sc.III PRA.</b> DBP -C1 SDShinde -C2 SDS-C3	<b>B.Sc.III PRA.</b> DBP-C2 SSA-C3 KAU-C1	<b>B.Sc.III PRA.</b> RAK-C3 SBG-C1 SSK-C2
11-30 TO 02-45	<b>B.Sc.II PRA.</b> [SSA+SSK]	<b>B.Sc.II PRA.</b> [SSA+SSK]	<b>B.Sc.II PRACT.</b> [SBG+KAU]	<b>B.Sc.II PRA.</b> [SBG+KAU]	<b>B.Sc.II PRA.</b> [SDS+SDShinde]	<b>B.Sc.II PRA.</b> [SDS+SDShinde]
11-30 TO 12-18	<b>B.Sc.III [KAU]</b>	<b>B.Sc. III</b> [DBP]		<b>B.Sc.I-B</b> [SDShinde]		<b>B.Sc.I-B</b> [SSA]
12-18 TO 01-06	<b>B.Sc.III</b> [SDS]	<b>B.Sc.III</b> [SDShinde] <b>B.Sc.I-B</b> [SDS]	<b>B.Sc.III</b> [SSA] <b>B.Sc. I (B)</b> [SSK]	<b>B.Sc.III</b> [SDS]	<b>B.Sc.III</b> [SSK]	<b>B.Sc.III</b> [SSK]
01-06 TO 01-54	<b>B.Sc.III</b> [SBG] <b>B.Sc.I (B)</b> [RAK]	<b>B.Sc.III[RAK]</b>	<b>B.Sc. I(A)</b> [SDS]	<b>B.Sc.I-A</b> [SSK]		<b>B.Sc.I(A)</b> [SSA]
01-54 TO 02-05		R	E	C	E	S
02-05 TO 02-53	<b>B.Sc.III[DBP]</b>	<b>B.Sc.III[SBG]</b> <b>B.Sc.I-A</b> [SDShinde]			<b>B.Sc.I (A)</b> [RAK]	
02-53 TO 03-41	<b>B.Sc.II[SDS]</b>		<b>B.Sc.II[RAK]</b>		<b>B.Sc.II[SBG]</b>	
03-41 TO 04-29						<b>B.Sc.II</b> [KAU]/[DBP]
04-29 TO 05-17		<b>B.Sc.II[SSK]</b>		<b>B.Sc.II[SBG]</b>		
02-53 TO 05-17	<b>B.Sc.I PRA.</b> [1. SSK] [2.SDShinde]	<b>B.Sc.I PRA.</b> [1.KAU] [2. RAK]	<b>B.Sc.I PRA.</b> [1. SDS] [2. SSA]	<b>B.Sc.I PRA.</b> [1.AAP] [2. RAK]	<b>B.Sc.I PRA.</b> [1.ATM] [2. DSG]	

Dr. S. S. Ankushrao  
Time Table In-charge



Dr. D. B. Patil  
Head

Dept. of Chemistry  
Vivekanand College Kolhapur



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**DEPARTMENT OF CHEMISTRY**

**Term I M.Sc. TIME-TABLE (2018-19)**

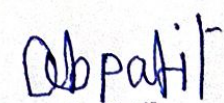
w. e. f. 23/07/2018

Time	Class	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	Saturday
07-30	M.Sc. I (Practical)	Lab-3[ATM] Lab-4[AAP]	Lab-3[AAP] Lab-4 [DBP]	Lab-3 [ATM] Lab-4 [DBP]	Lab-3[ATM] Lab-4 [DBP]		
TO 10-30	M.Sc.II (Practical)			Lab-1[DSG] Lab-2[AAP]	Lab-1[DSG] Lab-2[AAP]	Lab-1[DSG] Lab-2[AAP]	Lab-1[DSG] Lab-2[AAP]
11-30	M.Sc. I	ATM	ATM	DBP	DBP	SSA	SPP
TO 12:30	M.Sc.II	AAP	AAP	SDS	SSK	RAK	DSG
12-30	M.Sc. I	SDShinde	DSG	RAK	DSG	AAP	SPP
TO 01- 30	M.Sc.II	MRG	KAU	DSG	SSA	DSG	AAP
1:30	M.Sc. I	-	-	-	MRG	SSK	VRM
TO 03- 00	M.Sc.II	MRG	-	-	VNP	MBD	MBD

- \* Guest Lecture on Sunday : TIME 9.00 TO 1.00
- \* Guest faculty : Dr. S. D. Delekar, Dr. Mrs. V. D. Patil for M.Sc – I
- \* Guest faculty : Prof. Dr. M. B. Deshmukh for M.Sc – II

  
Dr. S. S. Ankushrao  
Time Table In-charge



  
Dr. D. B. Patil  
Head  
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