

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

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

Date: 02/04/2021

All faculty member of Department of Chemistry are hereby informed that meeting will be held on Monday 5<sup>th</sup> April 2021 at 2.30 p.m. through online mode. Please be noted.

Google Link : (Source: Google meet-<https://meet.google.com/wyc-dqat-boy>)

**Agenda of meeting**

- 1) Discussion on methods on conducting online practices
- 2) Discussion on mode to conduct various online exams. .
- 3) Any other matter with the permission of chairman

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





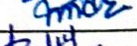
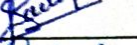



**Head**  
**Dept. of Chemistry**  
Vivekanand College, Kolhapur

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. Patravle	<i>A. A. Patravle</i>



## Report of the Meeting

Following committee members were present for this 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. Patravale	

### Minutes of the meeting

The meeting of the faculty members of the department of chemistry were held on 5<sup>th</sup> April 2021 through online mode under the chairmanship of Head, department of Chemistry, Vivekanand College, Kolhapur. To discuss various issued mentioned in the agenda.

#### Item No. 1) Discussion on methods on conducting online practices.

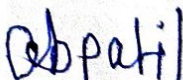
With regarding to the issue mentioned above, it is unanimously decided to record demo of Practicals and its theory in the department by respective teachers and upload on YouTube

#### Item No.II) Discussion on mode to conduct various online exams.

With regarding to the issue mentioned above, it is unanimously decided to conduct the online exams by using google forms.

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, Kolhapur

## Action Taken Report

Meeting Date: 5th<sup>d</sup> April 2021

Meeting Location: online meeting

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

Minutes of the Meeting:

**Item No. 1: Discussion on methods on conducting online practices.**

Action Taken: The decision reached during the meeting was to record demonstrations of practicals and their accompanying theory sessions in the department, with the respective teachers responsible for this task. These recordings will then be uploaded to YouTube for students' access.

**Item No. 2: Discussion on mode to conduct various online exams.**

Action Taken: The decision reached during the meeting was to conduct the online exam by using google forms.

Additional Comments:

1. Recording lectures and practical demonstrations and making them available on YouTube is an effective solution to mitigate the challenges posed by internet connectivity issues, ensuring that students have access to the educational content at their convenience.
2. Teachers should coordinate among themselves to schedule and record these sessions promptly to align with the curriculum.
3. The department should establish a clear process for uploading and organizing these educational materials on YouTube to make them easily accessible to students.
4. Continuous monitoring and evaluation of the effectiveness of this approach should be carried out, and any necessary improvements should be implemented promptly. Effectively online evaluation by using google forms is to solve the online evaluation problem. The department remains committed to providing quality education to its students, and these measures demonstrate its adaptability in the face of challenges brought about by online.

Signature:



*Dbpatil*

Head of Department

(Dr. D. B. Patil)

**Head**

**Dept. of Chemistry**

Vivekanand College, Kolhapur

**Vivekanand College, Kolhapur**  
**Department of Chemistry**  
**Syllabus Distribution for B.Sc. I SEM-II, B.Sc. II SEM-IV and B.Sc. III SEM-VI**  
**Academic year 2020-21**

**B.Sc. I, SEM-II**  
**Chemistry-DSC-1002B: Physical and Organic Chemistry**

<b>Section-I: Physical Chemistry</b>			
Sr. No.	Name of Faculty	Name of the Chapter Allotted	Sign
1.	Dr. K. A. Undale/ Dr. S.S. Ankushrao (A/B/C)	Chemical Energetics [10]	
2.	Dr. K. A. Undale/ Dr. S.S. Ankushrao (A/B/C)	Thermodynamics [05]	
3.	Dr. K. A. Undale/ Dr. S.S. Ankushrao (A/B/C)	Entropy and Third law [08]	
4.	XYZ (A/B/C)	Chemical Equilibria [10]	
5.	Dr. D. S. Gaikwad (A/B/C)	Ionic Equilibria [05]	
<b>Section-II: Organic Chemistry</b>			
6.	Dr. Mrs. S. D. Shirke (A+C Div. complete paper)	Aromatic Hydrocarbons [08]	
7.		Halides [12]	
8.	Mr. S. S. Kadam (B Div. complete paper)	Alcohols, Phenols [08]	
9.		Ethers [03]	
10.		Aldehydes and Ketones [06]	

**B.Sc. II, SEM-IV**

**Chemistry-DSC-2C Physical and Organic Chemistry**

**Section-I: Inorganic Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. Mrs. S. D. Shinde	Transition Elements (3d series) [05]
2.	Dr. Mrs. S. D. Shinde	Lanthanoids and Actinoids [08]
3.	Dr. Mrs. S. D. Shinde	Coordination Chemistry: Valence Bond Theory [09]
4.	Dr. S.S. Ankushrao	Coordination Chemistry: Crystal Field theory [10]
5.	Dr. Mrs. S. D. Shinde	Coordination Chemistry: Molecular Orbital theory [05]

**Section-II: Physical Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. R. A. Kalel	Kinetic Theory of Gases [10]
2.	Dr. R. A. Kalel	Liquids [08]
3.	Dr. R. A. Kalel	Solids [10]
4.	Dr. D. B. Patil	Chemical Kinetics [10]

## B.Sc. III- SEM VI

### Paper: 1002F1- Physical Chemistry & Inorganic Chemistry

#### Section-I: Physical Chemistry

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. K. A. Undale	Thermodynamics [12]
2.	Dr. D. B. Patil	Adsorption [08]
3.	Mr. R. A. Kalel	Radioactivity and its Detection [08]
4.	Mr. R. A. Kalel	Renewable Energy Sources [10]

#### Section-II: Inorganic Chemistry

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S. S. Ankushrao	Corrosion and Passivity [08]
2.	Dr. Mrs. S. D. Shinde	Chelation [07]
3.	Dr. Mrs. S. D. Shinde	Nuclear Chemistry [10]
4.	Dr. Mrs. S. D. Shinde	Inorganic Reaction mechanism [06]
5.	Dr. Mrs. S. D. Shinde	Nanomaterials [06]

### Paper: 1002F2-Organic Spectroscopic techniques & Industrial Chemistry

#### Section-I: Organic Spectroscopic Techniques

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Mr. S. S. Kadam	Introduction to Spectroscopy [03]
2.	Mr. S. S. Kadam	Ultra-Violet (UV) Spectroscopy [05]
3.	Dr. S.S. Ankushrao	Infra-Red (IR) Spectroscopy [08]
4.	Dr. Mrs. S. D. Shirke	Nuclear Magnetic Resonance (NMR) Spectroscopy [09]
5.	Dr. D. S. Gaikwad	Mass spectroscopy [08]
6.	Dr. R. A. Kalel	Combined Problems based on UV, IR, NMR and Mass Spectral data [05]

#### Section-II: Industrial Chemistry

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S.S. Ankushrao	Introduction to Industrial Chemistry [07]
2.	XYZ	Manufacturing of Heavy Chemicals [06]
3.	XYZ	Manufacturing of Sugar and Jaggery [08]
4.	Dr. K. A. Undale	Fermentation Industry [08]
5.	Dr. K. A. Undale	Fertilizers [08]



Dr. D. B. Patil

head  
Dept. of Chemistry  
Vivekanand College, Kolhanur

**M.Sc. I- SEM II****Paper No. V: CH-201 Inorganic Chemistry -II**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. S. P. Patil	Unit 1-Chemistry of non-transition Elements (15)
2.	Mr. A. T. Mane	Unit 2-a. Organometallic chemistry of transition elements(08) b. Reaction mechanism of Transition Metal Complexes (07)
3.	Dr. S. P. Patil	Unit 3- Studies and applications of Lanthanides and Actinides (15)
4.	Mr. A. T. Mane	Unit 4- a. Spectroscopic Term Symbols (07) b. Nuclear and Radiochemistry (08)

**Paper No. VI: CH-202 Organic Chemistry -II**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. M. R. Ghatage	Unit 1-a. Study of following reactions (10) b. Alkylation and Acylation (05) Unit 2-a. Hydroboration (05) b. Enamines (05) c. Oxidation (05)
2.	Mr. S. S. Kadam	Unit 3- a. Reduction (08) b. Protection of functional group (07)
3.	Dr. D. S. Gaikwad	Unit 4- a. Study of Organometallic Compounds (08) b. Methodologies in Organic Synthesis (07)

**Paper No. VII: CH-203 Physical Chemistry -II**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Mr. R. A. Kalel	Unit 1-Quantum Chemistry (15)
2.	Dr. V. R. More	Unit 2-Photochemistry (15)
3.	Dr. D. B. Patil	Unit 3- Electrochemistry (15)
4.	Dr. B. D. Bhosale	Unit 4- Chemical Kinetics (15)

**Paper No. CH- VIII: Analytical Chemistry -II**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Mr. R. A. Kalel	Unit 1-a. Introduction to Spectroscopy (03) b. Electronic Spectroscopy (05) c. Raman Spectroscopy (07)
2.	Dr. Mrs. S. D. Shinde	Unit 2-a. Nuclear Magnetic Resonance (NMR) (08) b. Mass Spectroscopy (07)
3.	Dr. S.S. Ankushrao	Unit 3- a. Thermal Analysis (15)
4.	Dr. A. A. Patravale	Unit 4- a. Atomic Absorption Spectroscopy (10) b. Inductively Coupled Plasma Spectroscopy (05)

**M.Sc. II- SEM IV**

**Paper No. OCH -XIII: Theoretical Organic Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. M. B. Deshmukh	Unit 1-Molecular Orbital Theory (15)
2.	Dr. A. A. Patravale	Unit 2-Non-Benzoid Aromatic Compounds (15)
3.	Dr. D. R. Chandam	Unit 3- Free Radical Reactions (15)
4.	Mr. R. A. Kalel	Unit 4- a. Kinetic and Thermodynamic Control of reactions (09) b. Non Classical Carbocations (06)

**Paper No. OCH - XIV: Stereochemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. K. A. Undale	Unit 1-Newer Methods of Stereoselective Synthesis (15)
2.	Dr. M. B. Deshmukh	Unit 2-Stereochemistry of Acyclic and Alicyclic Compounds a. Conformation and Reactivity in Acyclic Compounds and of Cyclohexanes (05) b. Some Aspects of the Stereochemistry of ring systems (05) c. The shapes of the rings other than six membered (05)
3.	Dr. M. B. Deshmukh	Unit 3- Stereochemistry of the ring system, conformation and configuration a. Fused and bridged rings: Fused bicyclic ring systems (08) b. O.R.D. and C.D.: Types of curves (07)
4.	Dr. K. A. Undale	Unit 4- Stereochemistry of compounds containing no chiral carbon atoms and di stereoisomerism (Geometrical isomerism) a. Stereochemistry of Allenes, Spiranes and Biphenyls (08) b. Configuration of distereoisomerisms (Geometrical isomerism) (07)

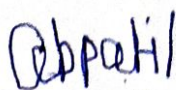
**Paper No. OCH -XV: Chemistry of Natural Products**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. M. R. Ghatage	Unit 1-a. Introduction of Natural Products (03) b. Terpenoids (12)
2.	Dr. D. S. Gaikwad	Unit 2-Alkaloids (15)
3.	Mr. S. S. Kadam	Unit 3- a. Steroids (10) b. Prostaglandins (05)
4.	Dr. D. S. Gaikwad	Unit 4- A. Biogenesis (08) a. Terpenoids b. Alkonoids c. Schematic pathway B. Vitamins (07)

**Paper No. OCH -XVI A: Applied Organic Chemistry**

Sr. No.	Name of Faculty	Name of the Chapter Allotted
1.	Dr. Mrs. S. D. Shirke	Unit 1-Agrochemical (15)
2.	Dr. A. A. Patravale	Unit 2-a. Synthesis and applications of perfumery (05) b. Synthesis and Applications of Pharmaceuticals (05) c. Sugar Based Chemicals (05)
3.	Dr. D. S. Gaikwad	Unit 3- Dyes and Intermediates (15)
4.	Dr. Mrs. V. D. Patil	Unit 4- a. Polymers (10) b. Applications of Oxo and Wacker Process: Soaps and Synthetic Detergents (05)



  
 Dr. D. B. Patil  
 Head  
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**(AUTONOMOUS)**



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UGC Recognition Under 2 F & 12(B) UGC Act 1956

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Website :www.vivekanandcollege.org E-mail : info@vivekanandcollege.org

**Department of Chemistry**

**B.Sc. III, Sem-VI Time-Table (Online Lecture 2020-21)**

w. e. f.: 06/04/2021

Time	Class	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	Saturday
11:30 to 12: 10 pm	B.Sc. III	RAK	SSA	SSK	SDS	RAK	DBP
12:20 to 01:00 pm	B.Sc. III	SSA	SDShinde	SDShinde	KAU	KAU	SSK
1:10 to 1:50 pm	B.Sc. III	-	-	-	-	DSG	SDS



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

**Head**

**Dept. of Chemistry**  
 Vivekanand College Kolhapur



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**DEPARTMENT OF CHEMISTRY**

**M.Sc. TIME-TABLE (2020-21) w.e.f. May 2021**

Time	Class	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	Saturday
11-30	M.Sc. I	SSK	SSK	DBP	DBP	SSA	DSG
TO	M.Sc.II	RAK	DSG	SDS	RAK	SSK	KAU
12: 30							
12-30	M.Sc. I	DBP	SDShinde	RAK	DSG	DBP	SSA
TO	M.Sc.II	DSG	RAK	DSG	SSK	DSG	SDShinde
01-30							

- \* Guest Lecture on Sunday For M.Sc I and II (04 Hr)
- \* MRG, SPP, MBD, VDP, VRM, BDB
- \* Extra lecture 1.30 P.M onwards by faculty

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



  
**Dr. D. B. Patil**

**Head**  
 Dept. of Chemistry  
 Vivekanand College, Kolhapur