

**M.C.E. Society's**  
**Abeda Inamdar Senior College of Arts, Science & Commerce (Autonomous), Pune 1.**  
**NAAC Reaccredited 'A' Grade**  
**Faculty of Science**  
**Board of Studies in Chemistry**

<b>SR. No.</b>	<b>Name and Address of Members</b>	<b>Specialisation in Chemistry</b>	<b>Designation</b>
1.	Dr. Khursheed Ahmed Associate Professor and Head, Department of Chemistry, Abeda Inamdar Senior College of Arts, Science & Commerce, <b>Email:</b> <a href="mailto:khursheedahmed@azamcampus.org">khursheedahmed@azamcampus.org</a> <b>Mobile No.</b> +919922073720	Inorganic Chemistry	Chairman
2.	Prof. Avinash Kumbhar, Professor, Department of Chemistry, Savitribai Phule Pune University, Pune <b>Email:</b> <a href="mailto:askum@chem.unipune.ac.in">askum@chem.unipune.ac.in</a> <b>Mobile No:</b> +919890607871	Inorganic Chemistry	VC Nominee, Savitribai Phule Pune University, Pune
3.	Dr. Rashinkar G.S. Professor, Department of Chemistry, Shivaji University, Kolhapur. <b>Email:</b> <a href="mailto:grr_chem@unishivaji.ac.in">grr_chem@unishivaji.ac.in</a> <b>Mobile No:</b> +919823113269	Organic Chemistry	Academic Council Nominee Subject Experts
4.	Dr. Chavan Promod Vinayak, Associate Professor, Yashwantrao Chavan Institute of Science, Autonomous College, Satara. <b>Email :</b> <a href="mailto:pvchavan2276@gmail.com">pvchavan2276@gmail.com</a> <b>Mobile No:</b> +919421874256	Organic Chemistry	Academic Council Nominee Subject Experts
5.	Dr. Dileep M. Bhosale, General Manager, Micro Labs Limited, Bangalore. <b>Email :</b> <a href="mailto:dileepbhosale@rediffmail.com">dileepbhosale@rediffmail.com</a> <b>Mobile No:</b> +919850913668	Physical/ Analytical Chemistry	Industrial Nominee Expert
6.	Mr. Rajendra Nimbale, Sr. Research Associate, Accutest Research Laboratories (I) Pvt. Lid. Navi Mumbai. <b>Email:</b> <a href="mailto:rajnimbaleraja@gmail.com">rajnimbaleraja@gmail.com</a> <b>Mobile No:</b> +919764524675	Analytical Chemistry	Alumni
7.	Dr. Anil Markandeya, Associate Professor, Fergusson College, Pune <b>Email :</b> <a href="mailto:anilmarkandeya@fergusson.edu">anilmarkandeya@fergusson.edu</a> <b>Mobile No:</b> +919604139973	Physical Chemistry	Subject Expert from outside the College

8.	Dr. Mhaske Pravin, Associate professor, Department of Chemistry, S.P. College, Pune <b>Email:</b> <a href="mailto:mhaskepc18@gmail.com">mhaskepc18@gmail.com</a> <b>Mobile No:</b> +919850577751	Organic Chemistry	Subject Expert from outside the College
9.	Dr. Ramdas A. Pawar, Associate professor, Department of Chemistry, Akurdi College, Pune <b>Email:</b> <a href="mailto:rapawar9@gmail.com">rapawar9@gmail.com</a> <b>Mobile No:</b> +919850127840	Inorganic Chemistry	Subject Expert from outside the College
10.	Dr. Sandip B. Rathod, Associate professor, Department of Chemistry, Waghire College, Saswad <b>Email :</b> <a href="mailto:sandip.pdea@gmail.com">sandip.pdea@gmail.com</a> <b>Mobile No:</b> +918623895455	Physical/ Analytical Chemistry	Subject Expert from outside the College
11.	Dr. Doke Kailas Mahadeo	Physical Chemistry	College faculty Member
12.	Dr. Bhosale Mrunalini	Physical Chemistry	College faculty Member
13.	Mr Amin H. Shaikh	Physical Chemistry	College faculty Member
14.	Ms. Darakhshan Ansari	Physical Chemistry	College faculty Member
15.	Dr. Yusufi Mujahid	Organic Chemistry	College faculty Member
16.	Mrs. Nazia Sayyed	Organic Chemistry	College faculty Member
17.	Mr. Siraj B Shaikh	Organic Chemistry	College faculty Member
18.	Mr. Anees Pangal	Organic Chemistry	College faculty Member
19.	Mr Javed A. Shaikh	Organic Chemistry	College faculty Member
20.	Dr. Yaseen Shaikh	Organic Chemistry	College faculty Member
21.	Dr. Shaheen Mulani	Organic Chemistry	College faculty Member
22.	Mrs Nazneen D shaikh	Analytical Chemistry	College faculty Member
23.	Ms. Heena Pathan	Inorganic Chemistry	College faculty Member
24.	Mr. Sreenivasulu Enamula	Inorganic Chemistry	College faculty Member

**Prof. Dr. Shaila Bootwala**  
Principal

**Dr. Khursheed Ahmed**  
Chairman, BoS, Chemistry

## **Minutes of First Online Meeting of Board of Studies (Chemistry)**

### **Agenda:**

To review the syllabi of F.Y.B.Sc. and M.Sc. Part I (Organic and Analytical Chemistry)

To Approve the syllabi for implementation from Academic Year 2021-22

Online meeting was organized on Saturday, 5<sup>th</sup> June 2021 from 3:00 pm to 5:00 pm on google meet. The details of meet are as follows:

Details of Google Meet:

Title: BoS Chemistry

Schedule: Saturday, June 5 · 2:30 – 5:30pm

Google Meet joining info

Video call link: <https://meet.google.com/qvz-upag-ito>

Or dial: (US) +1 916-750-2784 PIN: 457 074 592#

### **Minutes of the Meeting:**

- 1) Members appreciated the content of First Year of B.Sc. and M.Sc., to be implemented from academic year 2021-22.
- 2) The syllabus was unanimously approved in the meeting. However, members suggested minor changes which are given in the next points.
- 3) Dr. Chavan Pramod suggested incorporation of Program Objectives and Program Outcome along with Program Specific Objectives and Program Specific Outcomes.
- 4) Dr. Ramdas Pawar notices that in First Sem of F.Y.B.Sc. 13 Experiment were added in place of 12 and suggested to decrease it to 12 Experiment. He also suggested binary mixture should be changed to single compounds in organic qualitative analysis.
- 5) Dr. Dileep Bhosale suggested incorporation of small topic from Medicinal Chemistry so that it can gradually be introduced with increasing difficulty levels.
- 6) Dr. Anil Markandeya suggested decreasing the number of recommended reference books and ask students to refer to fewer books which may cover maximum number of units.
- 7) Dr. Ramdas Pawar suggested reduction in content of Application of Group Theory in Infrared Spectroscopy and in paper Main Group Chemistry, he suggested removal of Organometallic Compounds and suggested increase in the number of lectures assigned to Halogen Group and Noble Gases.
- 8) In the practical course of CHI-116, Inorganic Chemistry Practical M.Sc. it was suggested that one method of synthesis of Fe nanoparticle needs to be mentioned, as there are many methods.
- 9) Dr. Dileep M. Bhosale suggested introduction of pharmaceutical analysis in analytical chemistry in first year so that in second year method development can be covered.
- 10) Dr. Chavan Pramod advised to think about implementation of project/internship in second year of M.Sc. and give students some preliminary work of project in first year

### Action Take Report:

As per the points discussed in the first online BoS Meeting of Chemistry Department, the following changes have been made as per the suggestions of honorable members.

- 1) Program Objectives and Program Outcome along with Program Specific Objectives and Program Specific Outcomes have been incorporated in B.Sc. Syllabus.
- 2) The number of Experiment in first year B.Sc. Practical changed from 13 to 12 and binary mixture has been changed to single compounds in organic qualitative analysis.
- 3) For introduction of Medicinal Chemistry in First Year, Chiral Drugs and Significance of Stereochemically Pure Drugs has been added in Unit II-Stereochemistry
- 4) Number of reference books for 21SBCH112: Organic Chemistry paper has been decreased from 8 to 4.
- 5) Dr. Ramdas Pawar suggested reduction in content of Application of Group Theory in Infrared Spectroscopy and in paper Main Group Chemistry, he suggested removal of Organometallic Compounds and suggested increase in the number of lectures assigned to Halogen Group and Noble Gases.
- 6) In the practical course of CHI-116, Inorganic Chemistry Practical M.Sc. it was suggested that one method of synthesis of Fe nanoparticle needs to be mentioned, as there are many methods.
- 7) Dr. Dileep M. Bhosale suggested introduction of pharmaceutical analysis in analytical chemistry in first year so that in second year method development can be covered.
- 8) Dr. Chavan Pramod advised to think about implementation of project/internship in second year of M.Sc. and give students some preliminary work of project in first year.

Sr. No.	Course	Sem	Paper Code	Paper Title	Faculty In charge
<b>F.Y. B.Sc. (U.G.)</b>					
1.	B.Sc.	I	21SBCH111	Physical Chemistry	Dr. Doke Kailas
2.	B.Sc.	I	21SBCH112	Organic Chemistry	Dr. Yusufi Mujahid
3.	B.Sc.	I	21SBCH113	Chemistry Practical –IA	Dr. Doke Kailas Dr. Yusufi Mujahid
4.	B.Sc.	II	21SBCH121	Inorganic Chemistry	Dr. Khursheed Ahmed
5.	B.Sc.	II	21SBCH122	Analytical Chemistry	Mrs. Nazneen D shaikh
6.	B.Sc.	II	21SBCH123	Chemistry Practical –IB	Dr. Khursheed Ahmed Mrs. Nazneen D shaikh
<b>M.Sc. (I) [PG]</b>					
7.	M.Sc.	I	21SMCH111	CHP-111: Kinetics and Thermodynamics In Chemistry	Dr. Doke Kailas
8.	M.Sc.	I	21SMCH112	CHI-112: Symmetry, Group Theory and Main Group	Mr. Sreenivasulu

				Chemistry	Enamula
9.	M.Sc.	I	21SMCH113	CHO-113: Basic Organic Chemistry and Stereochemistry	Mr Javed A. Shaikh
10.	M.Sc.	I	21SMCH114A	CHA-114A: Biochemistry (Optional)	Dr. Yaseen Shaikh
11.	M.Sc.	I	21SMCH114B	CHA-114B: Material Science (Optional)	Ms. Heena Pathan
12.	M.Sc.	I	21SMCH115	CHP-115: Physical Chemistry Practical-I	Mr. Amin H. Shaikh
13.	M.Sc.	I	21SMCH116	CHI-116: Inorganic Chemistry Practical-I	Mr. Sreenivasulu Enamula
14.	M.Sc.	I	21SMCH117	CHO-117: Organic Chemistry Practical-I	Mrs. Nazia Sayyed
15.	M.Sc.	II	21SMCH121	CHP-121: Molecular Spectroscopy, Chemical Bonding and Nuclear Chemistry	Dr. Bhosale Mrunalini
16.	M.Sc.	II	21SMCH122	CHI-122: Co-Ordination And Bio-Inorganic Chemistry	Dr. Khursheed Ahmed
17.	M.Sc.	II	21SMCH123	CHO-123: Synthetic Organic Chemistry and Spectroscopy	Mr. Siraj B Shaikh
18.	M.Sc.	II	21SMCH124A	CHA-124A: Advanced Analytical Chemistry (Optional)	Mr. Anees Pangal
19.	M.Sc.	II	21SMCH124B	CHA-124B: Organometallic Chemistry (Optional)	Ms. Heena Pathan
20	M.Sc.	II	21SMCH125	CHP-125: Physical Chemistry Practical-II	Ms. Amin Shaikh
21	M.Sc.	II	21SMCH126	CHI-126: Inorganic Chemistry Practical-II	Mrs. Darakhasha Ansari
22	M.Sc.	II	21SMCH127	CHO-127: Organic Chemistry Practical-II	Mrs. Nazia Sayyed

Following Board Members attended the online meeting:

Dr. Khursheed Ahmed, Head, Department of Chemistry, Abeda Inamdar Sr. College, Pune

Chairperson

Professor Avinash Kumbhar, Professor, Department of Chemistry, Savitribai Phule Pune University, Pune V. C. Nominee, SPPU

Professor Rashinkar G.S. Professor, Department of Chemistry, Shivaji University, Kolhapur. Academic Council Nominee Subject Experts

Dr. Chavan Promod Vinayak, Associate Professor, Yashwantrao Chavan Institute of Science, Autonomous College, Satara Academic Council Nominee Subject Experts

Dr. Dileep M. Bhosale, General Manager, Micro Labs Limited, Bangalore General Manager, Glenmark Pharmaceutical Ltd., Nashik

Mr. Rajendra Nimbale, Sr. Res. Asso., Accutest Res. Lab. (I) Pvt. Lid. Navi Mumbai,  
Alumnus

Subject Expert from outside the College

Dr. Anil Markandeya, Associate Professor, Fergusson College, Pune

Dr. Mhaske Pravin, Associate professor, Department of Chemistry, S.P. College, Pune

Dr. Ramdas A. Pawar, Associate professor, Department of Chemistry, Akurdi College, Pune

Dr. Sandip B. Rathod, Associate professor, Department of Chemistry, Waghire College,  
Saswad

Staff Members

Dr. Doke Kailas Mahadeo

Dr. Yusufi Mujahid

Prof. Nazneen Shaikh

Mrs. Sayyed Nazia

Mr. Siraj Shaikh

Mr. Anees Pangal

Dr. Mrunalini Bhosale

Mr. Javed Shaikh

Dr. Yaseen I Shaikh

Ms. Ansari Darakhshan

Ms. Heen Pathan

Mrs. Priti Singh

Head of Department and Chairman BoS

Principal

Screenshot Gallery

## 21SBCH111: Fundamentals of Physical Chemistry

- Unit I: Chemical Mathematics
- Unit II: Chemical Energetics
- Unit III: Chemical Equilibrium
- Unit IV: Ionic Equilibria



Yusufi Mujahid

BoS Chemistry (2021-06-05 at 02\_32 GMT-7)

Basic structure/pattern (Framework) of the proposed postgraduate syllabus for the two year integrated course leading to M.Sc. (Analytical and Organic Chemistry) in the Abeda Inamdar Senior College, Pune (Autonomous) affiliated to Savitribai Phule Pune University.

- MSc Degree of 92 credit
- Each semester of 20 credit (CGPA) + 03 credit Non CGPA

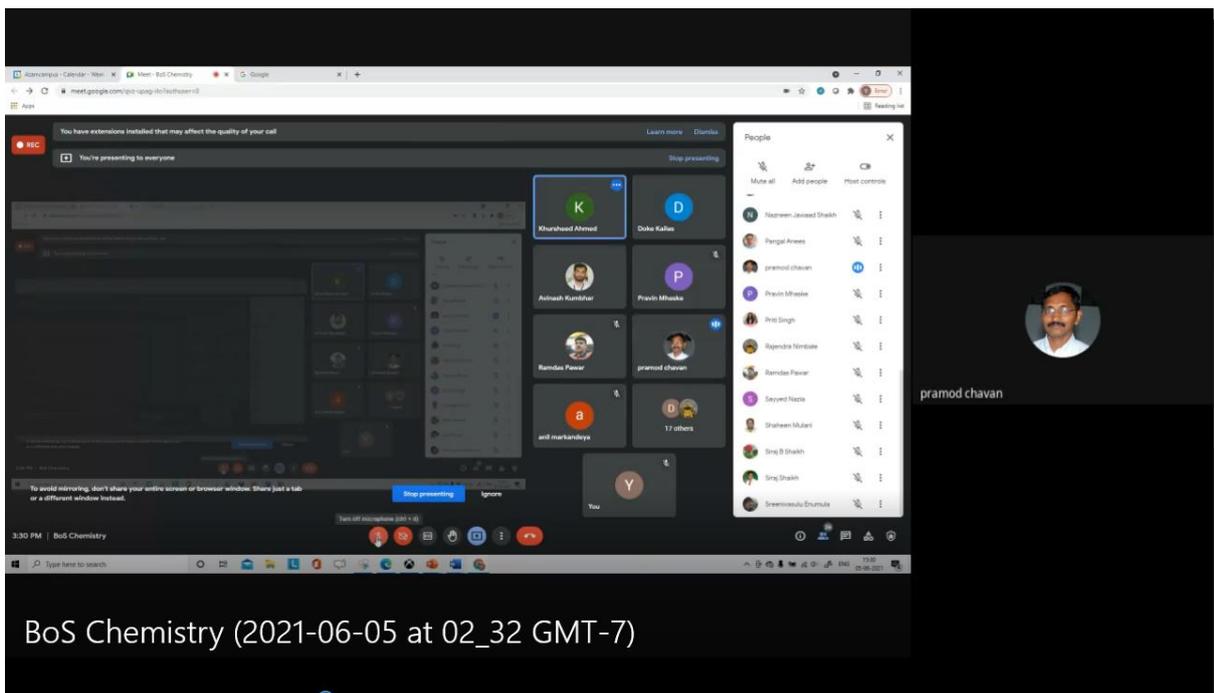
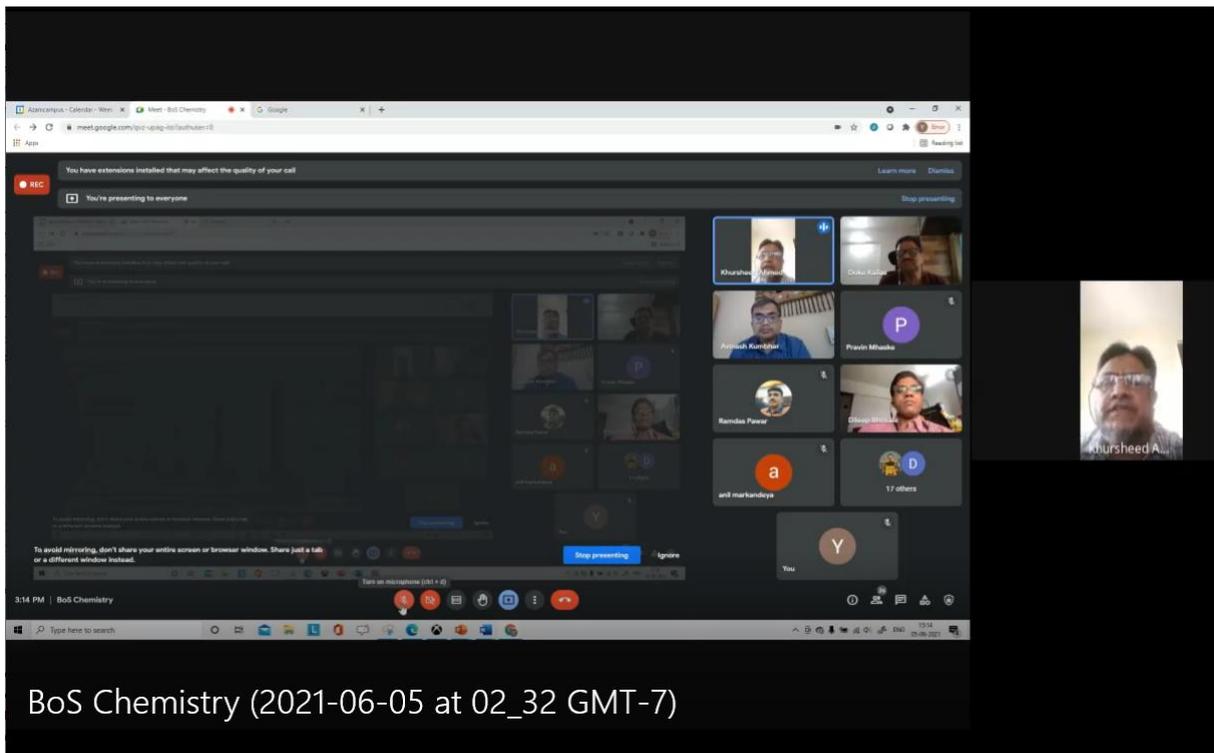
Table 2: Total credits for PG Science Programme (2021 Pattern)

Sr. No.	Nature of Courses	Semesters (Credits)				Total (Credits)	
		I	II	III	IV		
<b>M.Sc.(Organic Chemistry and Analytical Chemistry)</b>							
1.	Discipline Specific Core Course Theory	12	12	12	12	48	
2.	Discipline Specific Core Course Practical	6	6	6	4	22	
3	Discipline Specific Choice Based optional Theory	2	2	2	2	08	
4	Discipline Specific Choice Based optional Practical	--	--	--	2	02	
5.	Ability Enhancement Course	3	3	-	-	06	
6.	Skill Enhance	meet.google.com is sharing your screen		Stop sharing	Hi3	3	06
						23	92



Siraj Shaikh

BoS Chemistry (2021-06-05 at 02\_32 GMT-7)



# CIE

**Written Exam, Online MCQ**

**Presentations**

**Assignments**

**Oral Examination**

**Quiz**

**Projects**

**Tutorials**

**Open Book Test and Others**

meet.google.com is sharing your screen. [Stop sharing](#) [Hide](#)



BoS Chemistry (2021-06-05 at 02\_32 GMT-7)