

# UNIVERSITY OF PUNE



*Examination Circular No. 158 of 2013*

## PROGRAMME OF M.SC. CHEMISTRY SEM. I TO IV & CREDIT SYSTEM EXAMINATIONS, NOVEMBER, 2013

### INSTRUCTIONS FOR CANDIDATES

1. Candidates are required to be present at the Respective College of examination fifteen minutes before the time fixed for the first paper and ten minutes before the time of each subsequent paper. **(As per Circular No 128/2013 Dated 10.10.2013)**
2. Candidates are forbidden from taking any material into the examination hall, that can be used for malpractice at the time of examination.
3. Candidates are requested to see the Notice-Board at their place of examination regularly for changes if any, that may be notified later in the programme.
4. No request for any special concession such as change in time or any day fixed for the University examination, on religious or any other ground shall be granted.
5. The Use of non-programmable Calculator is permitted.
6. The Examination of Candidates of University Post-Graduate Dept. having credit system will be held at their Respective Departments.

The written Examination will be conducted in the following order :

### M.Sc. CHEMISTRY

| DAY & DATE               | SEMESTER – II<br>TIME : 10.30 A.M.TO 1.30 P.M   |
|--------------------------|---|
| Tuesday,<br>26.11.2013   | CH-210 : Physical Chemistry - II  |
| Wednesday,<br>27.11.2013 | CH-230 : Inorganic Chemistry- II  |
| Thursday,<br>28.11.2013  | CH-250 : Synthetic Organic Chemistry & Spectroscopy   |
|                          | SEMESTER – I<br>TIME : 10.30 A.M.TO 1.30 P.M.   |
| Monday,<br>02.12.2013    | CH-110 :- Physical Chemistry –I (2008 Pattern)<br>CHP-110: Fundamentals of Physical Chemistry(2013 Pattern)                 |
| Tuesday,<br>03.12.2013   | CH-130 : Inorganic Chemistry-I (2008 Pattern)<br>CHI-130: Molecular Symmetry & Chemistry of p-block elements (2013 Pattern) |
| Thursday,<br>05.12.2013  | CH-150 : Org. Reaction Mecha & Stereochem (2008 Pattern)<br>CHO-150: Basic organic chemistry (2013 Pattern)                 |

### PHYSICAL CHEMISTRY

| DAY & DATE               | SEMESTER - IV<br>TIME : 2.30. P.M. TO 5.30 P.M.  |
|--------------------------|--|
| Tuesday,<br>26.11.2013   | CH-410 : Molecular Structure & Spectroscopy  |
| Wednesday,<br>27.11.2013 | CH-411 : Surface & Electrochemistry  |
| Thursday,<br>28.11.2013  | <b>OPTIONAL COURSES</b><br>CH-414 : Biophysical Chemistry & Related Techniques<br>CH-415 : Special Topics in Nuclear Radiation Chem.<br>CH-416 : Special Topics in Physical Chemistry(Old) |
| DAY & DATE               | SEMESTER – III<br>TIME : 2.30. P.M. TO 5.30 P.M  |
| Monday,<br>02.12.2013    | CH-310 :Quantum Chemistry & Solid State chemistry  |
| Tuesday,<br>03.12.2013   | CH-311 : Nuclear & Radiation Chemistry   |
| Wednesday,<br>04.12.2013 | CH-312 : Advanced Instrumental Methods of Analysis   |
| Thursday,<br>05.12.2013  | <b>OPTIONAL COURSES</b><br>CH-314 : Polymer Chemistry<br>CH-315 : Special Topics in Physical Chemistry<br>CH-316 : Environmental Chemistry (Old)   |

## INORGANIC CHEMISTRY

| <b>DAY &amp; DATE</b>                  | <b>SEMESTER - IV</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M.</b>                  |
|--|--|
| <b>Tuesday,</b><br><b>26.11.2013</b>   | CH-430 : Inorganic Solids & Heterogeneous Catalysis                            |
| <b>Wednesday,</b><br><b>27.11.2013</b> | CH-431 : Materials Science   |
| <b>Thursday,</b><br><b>28.11.2013</b>  | CH-445: Inorganic Applications in Industry Biotech & Envi.Chem.                |
| <b>DAY &amp; DATE</b>                  | <b>SEMESTER - III</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M</b>                  |
| <b>Monday,</b><br><b>02.12.2013</b>    | CH-330: Coordination Chemistry Magnetism Reaction Mechanism                    |
| <b>Tuesday,</b><br><b>03.12.2013</b>   | CH-331 : Structural Methods in Inorganic Chemistry                             |
| <b>Wednesday,</b><br><b>04.12.2013</b> | CH-332 : Bioinorganic Chemistry Inorganic Elem in Chem. of life                |
| <b>Thursday,</b><br><b>05.12.2013</b>  | CH-326 : Organ metallic Compounds of Transition Metals & Homogeneous Catalysis |

## ORGANIC CHEMISTRY

| <b>DAY &amp; DATE</b>                  | <b>SEMESTER - IV</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M.</b>   |
|--|---|
| <b>Tuesday,</b><br><b>26.11.2013</b>   | CH-450 : Chemistry of Natural Products                          |
| <b>Wednesday,</b><br><b>27.11.2013</b> | CH-451 : Synthetic Methods in Organic Chemistry                 |
| <b>Thursday,</b><br><b>28.11.2013</b>  | CH-452: Heterocyclic Chem.Chiron Approach & Medicinal Chemistry |
| <b>DAY &amp; DATE</b>                  | <b>SEMESTER - III</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M</b>   |
| <b>Monday,</b><br><b>02.12.2013</b>    | CH-350 : Organic Reaction Mechanism                             |
| <b>Tuesday,</b><br><b>03.12.2013</b>   | CH-351 : Spectroscopic Methods in Structure Determination       |
| <b>Wednesday,</b><br><b>04.12.2013</b> | CH-352 : Organic Stereo chemistry                               |
| <b>Thursday,</b><br><b>05.12.2013</b>  | CH-353 : Pericyclic Reactions free Radicals & Photo Chem.       |

**ANALYTICAL CHEMISTRY**

| <b>DAY &amp; DATE</b>                  | <b>SEMESTER - IV</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M.</b>                               |
|--|---|
| <b>Tuesday,</b><br><b>26.11.2013</b>   | CH-481 : Bionalytical & Forensic Science  |
| <b>Wednesday,</b><br><b>27.11.2013</b> | CH-490 : Analytical Spectroscopy  |
| <b>Thursday,</b><br><b>28.11.2013</b>  | CH-491 : Polymer Technology   |
| <b>DAY &amp; DATE</b>                  | <b>SEMESTER – III</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M</b>                               |
| <b>Monday,</b><br><b>02.12.2013</b>    | CH-390 : Electroanalytical and Current Analytical Methods in Industries                     |
| <b>Tuesday,</b><br><b>03.12.2013</b>   | CH-391 : Environmental & Analysis of Industrial Materials                                   |
| <b>Wednesday,</b><br><b>04.12.2013</b> | CH-392 : Advanced Analytical Techniques   |
| <b>Thursday,</b><br><b>05.12.2013</b>  | <b>OPTIONAL COURSES</b><br>CH-380 : Pharmaceutical Analysis<br>CH-381 : Medicinal Chemistry |

## BIO- CHEMISTRY

|                             |  |
|-----------------------------|--|
| <b>DAY &amp; DATE</b>       | <b>SEMESTER – II</b><br><b>TIME : 10.30 A.M. TO 1.30 P.M.</b>  |
| <b>Tuesday,26.11.2013</b>   | BCH 270 : Bioenergetics and Metabolism (2008 & 2010 Pattern)   |
| <b>Wednesday,27.11.2013</b> | BCH- 271: Biophysical Techniques (2008 Pattern)<br>BCH-271 : Techniques for Characterization of Biomolecules (2010 Pattern)  |
| <b>Thursday, 28.11.2013</b> | BCH- 273 : Membrane Biochemistry & Nucleic acid (2008 Pattern)<br>BCH-273 : Membrane Biochemistry and Genetics (2010 Pattern)  |
| <b>DAY &amp; DATE</b>       | <b>SEMESTER – I</b><br><b>TIME : 10.30 A.M. TO 1.30 P.M.</b>   |
| <b>Monday,02.12.2013</b>    | BCH-170 : Biomolecules (2008 & 2010 Pattern)<br>BCH -170 Biomolecules (2013 Pattern)   |
| <b>Tuesday,03.12.2013</b>   | BCH- 171 : Enzymology and Biophysiological Tech. (2008 & 2010 Pattern)<br>BCH -171 : Enzymology and Biophysical Techniques (2013 Pattern)  |
| <b>Wednesday,04.12.2013</b> | BCH- 172 : Cell Biochemistry (2008 Pattern)<br>BCH-172 : Microbiology and Cell Biochemistry of Eukaryotes (2010 Pattern)<br>BCH-172 :Microbiology and Cell Biology (2013 Pattern)  |
| <b>DAY &amp; DATE</b>       | <b>SEMESTER - IV</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M.</b>  |
| <b>Tuesday,26.11.2013</b>   | BCH -470 : Biochemical Endocrinology and Tissue Culture( 2008 Pattern)<br>BCH- 470 : Biochemical Endocrinology and Plant Biochemistry(2010 Pattern)  |
| <b>Wednesday,27.11.2013</b> | BCH-471 : Fermentation and Enzyme Technology and Food Techn. (2008 Pattern)<br>BCH-471 : Fermentation Technology and Food Technology ( 2010 Pattern)<br>BCH-474 : Genomics and Biotechnology (Optional Course) (2008 Pattern)  |
| <b>Thursday, 28.11.2013</b> | BCH- 472 : Genetic Engineering (2008 Pattern & 2010 Pattern)   |
| <b>Saturday,30.11.2013</b>  | <b>Optional Courses- Any One (2010 Pattern)</b><br>BCH-473 : Nutrition and Clinical Nutrition<br>BCH-474 : Developmental Biology and Molecular Evolution   |
| <b>DAY &amp; DATE</b>       | <b>SEMESTER – III</b><br><b>TIME : 2.30. P.M. TO 5.30 P.M.</b>   |
| <b>Monday,02.12.2013</b>    | BCH 370 : Molecular Biology (2008 & 2010 Pattern)  |
| <b>Tuesday,03.12.2013</b>   | BCH 371: Medical Biochemistry and Immunology (2008 & 2010 Patt.)   |
| <b>Wednesday,04.12.2013</b> | BCH -372: Signal transduction pathways (2008 Pattern)<br>BCH- 372 : Neurochemistry( 2010 Pattern)  |
| <b>Thursday,05.12.2013</b>  | BCH-373 : Biochemical Toxicology (2010 Pattern)<br><b>Optional Courses</b><br>BCH-373 : Recent trends in Biochemistry and Toxicology (2008 Pattern)<br>BCH 374 : Developmental Biology and Molecular Evolution (2008 Pattern)<br>BCH-375 : Nutrition and Clinical Nutrition (2008 Pattern) |

- The Practical examination will be conducted before theory examination. Due notice will be given by the examiners about the place, date and time of the Practical examination on the Notice Board. Candidates are directed to be present at the time & place of their practical examination.

Ganeshkhind,  
Pune-411 007  
Ref. No. XCT/Sci/995  
Date :28.10.2013

**Dr.Sampada Joshi**  
**Controller of Examinations**