

University of Poona

M.Sc. (Partly by Papers and Partly by Research)

(Duration : Four Years)

No candidate shall be admitted to the M.Sc. (Partly by papers and partly by research) of this University unless he has passed the B.Sc. degree examination of this University or equivalent degree examination of any other Statutory University, in a subject which he had offered at the B.Sc. examination at the principal level. Candidate seeking admission to the course must be an employee of the Research Institute recognised by this University and must be engaged in the research in the subject to be offered for this course under a recognised guide from the same institution. However, a candidate may be permitted to work under a recognised guide in another institution, if the subject offered by him makes him/her necessary to do so.

[Note :—The Director / Head of the Institution/Department shall certify that the applicant is in regular full-time paid service and shall remain in the service till he/she completes his/her thesis.

Casual research worker/stipend holder/scholarship or fellowship holder shall not be treated as an employee for the purpose.]

A candidate passing the B.Sc. degree examination of this University or any other examination recognised as equivalent to the B.Sc. degree examination of this University and is employed as a teacher in a school within the jurisdiction of the Poona University, shall be allowed to register his/her name for the course, provided he/she finds admission in any laboratory recognised by this University.

A candidate shall register his/her name for the course at the beginning of each semester—either in June or in November.

A candidate registered for the course shall offer 4 papers prescribed for the M.Sc. (Partly by papers and partly by research) course.

A candidate registered for the course shall be exempted from regular attendance and keeping of terms at the University. He/she shall, however, appear at the relevant University department for an oral examination carrying 25 marks in each paper offered by the candidate, in lieu of 25 marks assigned for the term work in each paper for regular candidates.

[*Note* :—Candidates registered for the course may attend the lectures for the M.Sc. students (by papers) subject to the condition that they shall pay half the fee prescribed for the course of study for which they attend the lectures, irrespective of the number of papers or the period of time for which they attend the lectures provided there is accommodation for admission of such students.

A candidate for the course shall be allowed to appear for one paper only after completing one semester. A candidate shall clear all the 4 papers at the end of the IVth semester within a period of 2 years only.

A candidate shall work under a recognised guide from the institution where he/she is employed and is engaged in the research work.

A candidate shall write a thesis on a subject prescribed by the guide with the approval of the Head of the University Department in the relevant subject. The material to be included in the thesis should be the work done by the candidate under the guidance of research guide, during the course of two years.

A guide shall certify that the material included in the thesis is the work done by the student during the course of 4 terms kept by the student and that the material has not been published by the student before the date of his registration.

A candidate shall submit the thesis only after passing in 4 papers and after completion of 4 semesters.

A candidate shall submit the synopsis within a period of six months after passing in 4 papers. He/she shall submit the synopsis and thesis within a maximum period of two years after passing in 4 papers.

No candidate shall be allowed to submit the thesis after a period of two years from passing in 4 papers unless extension is granted for submitting the thesis by the Head of the Department in relevant subject.

The Head of the University Department may allow extension for submission of the thesis for a maximum period of two years. If no such extension is granted, registration of candidates not submitting the thesis within a period of two years shall be automatically cancelled. Such a candidate shall register himself/herself for the course afresh,

A candidate shall submit 4 copies of thesis.

Following shall be the papers prescribed for the M.Sc. (Partly by papers and partly by research). The syllabi shall be as prescribed for the M.Sc. (by Papers).

(1) *Theory Courses* : The examination will be conducted by the University authorities.

(2) *Departmental Courses* : For which the examination will be conducted by the Departmental authorities.

A candidate shall select Departmental Courses taught in the Department.

Subjectwise List of Recognized Institutes and Approved Centres

PHYSICS

1. Atomic Energy Establishment, Trombay, Bombay
- *2. Ahmednagar College, Ahmednagar

3. Central Water Power, Irrigation and Research Station, Khadakwasla, Pune 411024
- *4. Central Electronics Engineering Research Institute, Pilani (Rajasthan)
5. Indian Institute of Tropical Meteorology, Ramdurg House, Pune 411005
- *5. H.P.T. Arts and R.Y.K. Sc. College, Nasik
5. Institute of Armament Studies, Kirkee, Pune 3
6. National Chemical Laboratory, Pune
6. National Chemical Laboratory, Hyderabad
7. National Institute of Oceanography, Goa
8. Physical Research Laboratory, Ahmedabad.
9. Solar Physics Laboratory, Kodaikanal
10. Tata Cancer Research Centre (parcel) Bombay
11. University of Poona. Ganeshkhind, Pune 411007.

CHEMISTRY

1. Atomic Energy Establishment, Trombay, Bombay (Phy. Chem.)
- *2. Abasaheb Garware College, Pune 411004 (for Org. Chem.)
- *3. Ahmednagar College, Ahmednagar (for Phy. Chemistry)
4. Central Drug Research Institute, Lucknow (for Org. Chemistry and Bio-Chemistry)
- *5. Chief Inspectorate of Military Explosive, Kirkee, Pune 3
- *5. Central Building Research Institute, Roorkee (U.P.)
- *6. Central Food Technology Research (Bio-Chemistry) Institute, Mysore 2
- *7. Central Salt and Marine Chemical Research Institute, Bhavnagar
- *8. Central Research Laboratory, (R. and D. Laboratory) (for Bio-Chemistry)

9. Defence, Research, and Development Organization, Kirkee
10. Explosives Research and Development Laboratory, Armament, Post Pashan, Pune 411021 (for Inorganic Chemistry)
11. Hindustan Antibiotics, Prv. Ltd., Pimpri (for Bio-Chemistry and Organic Chemistry), Pune 411018
12. Haffkine Institute, Bombay 12, (for Bio-Chemistry and Organic Chemistry)
13. H.P.T. College, Nasik
14. Indian Drug Research Laboratory of Indian Drug Research Association, 561-B Shivajinagar, Behind Congress House, Pune 411005
15. Institute of Armament Studies, Kirkee, Pune 3
16. Indian Organic Chemicals Ltd. Khopoli
17. M.S.G. College, Malegaon (for Phy.-Chemistry)
18. Maharashtra Association for the Cultivation of Science, Law College Road, Pune 411004 (for Bio-Chemistry)
19. National Chemical Laboratory, Pashan, Poona 411008 (for Bio-Chemistry)
20. National Sugar Institute, Kanpur (for Physical Chemistry and Bio-Chemistry)
21. National Institute of Oceanography, Goa
22. National Institute of Virology (formerly Virus Research Centre) (for Bio-Chemistry) 20-A Dr. Ambedkar Road, Post Office Box No. 11, Pune 411001
23. N. Wadia College, Pune 1
24. Nutrition Research Laboratory, Hyderabad (for Bio-Chemistry)
25. Public Health Laboratory, Poona 1 (for Bio-Chemistry)
26. Regional Research Laboratory, Hyderabad (for all Physical Chemistry, Inorganic Chemistry, Organic Chemistry and Bio-Chemistry)

24. Soil Specialists Laboratory, Sholapur (for Bio-Chemistry)
25. Southern Regional Station, National Dairy Research Institute, Bangalore
26. Technical Development Establishment, Military Explosive Kirkee, Pune
27. Tata Cancer Research Centre, Parel (Bombay) (for Bio-Chemistry, Organic Chemistry)
28. Veterinary Biological Products, Pune-7 (for Bio-Chemistry)
29. V. P. Chest Institute, New Delhi (for Bio-Chemistry)
30. University of Poona, Ganeshkhind, Pune--411007

BOTANY

- *1. Abasaheb Garware College, Pune
- *2. Agricultural Research Institute, Kosbad
- *3. Botanical Survey of India, Pune 411001
- *4. Botanical Survey of India, Calcutta
5. Birbal Sahani Institute of Palaeobotany, Lucknow
- *6. Central Salt and Marine Chemical Research Institute, Bhavnagar
- *7. Field Laboratory at College of Agriculture
8. Hindustan Antibiotics Ltd., Pimpri, Pune 411018
8. H. P. T. College, Nasik
9. Indian Drug Research Laboratory of Indian Drug Research Association, 561-B, Shivajinagar, Behind Congress House Pune 411005
10. Institute of Plant Industry, Indore
- *11. Indian Agricultural Research Institute (Plant Virus Research Laboratory) Agricultural College Estate, Poona 5

12. Maharashtra Association for the Cultivation of Science, Pune 411004
13. National Institute of Oceanography, Goa
- *14. Plant Virus Research Laboratory, Pune
15. S. P. College, Pune 30
- *16. S. S. V. P. College, Dhulia
- * 17. University of Poona, Ganeshkhind, Pune 411007

ZOOLOGY

- *1. Ahmednagar College, Ahmednagar
1. Disease Investigation Section (Maharashtra State)
Pune 411001
- *2. Fergusson College, Pune 411004
- *3. Life Sciences and Technology Centre, Pune
4. Indian Drug Research Laboratory of Indian Drug Research Association, 561/B, Shivajinagar, Behind Congress House, Pune 411005
- *4. Maharashtra Association for the Cultivation of Science, Pune
4. Modern College, Pune 411005
- *5. National Chemical Laboratory, Pashan, Pune 411008.
6. National Institute of Oceanography, Goa
- *6. National Institute of Virology (Formerly Virus Research Centre) 20-A, Wellesley Road, Post Box No. 11.
Pune 411001
- *7. N. Wadia College, Pune-1
- *7. Veeta Central Research Centre, Pondichary (N.I.V. Sub. Station)
8. Regional Research Laboratory, Hyderabad

- 9. Tata Cancer Research Centre, Parel (Bombay)
- *11. Zoological Survey of India, Pune
- *12. Zoological Survey of India, Hyderabad
- 13. University of Poona, Ganeshkhind, Pune 411007

GEOLOGY

- 1. National Geographical Research Institute, Hyderabad
- 2. National Institute of Oceanography, Goa
- 3. University of Poona, Ganeshkhind, Pune 411007

GEOGRAPHY

- 1. Indian Meteorological Institute Observatories, Pune 5
- 2. S. P. College, Pune
- 3. The Observatories (Climatology and Geophysics), Ram-durg House, Shivajinagar, Pune 411005
- 4. University of Poona, Ganeshkhind, Pune 411007.

MICROBIOLOGY

- 1. Bharat Serums and Vaccines, Thana
- 2. Central Drug Research Institute, Lucknow
- 3. Central Public Health Engineering Research Institute, Nagpur
- *4. Central Research Laboratory (R. and D. Laboratory), Vidarbha
- 5. Disease Investigation Section (Maharashtra State) Pune 411001
- *6. Electric Virus Research Laboratory
- 7. Hindustan Antibiotics, Pimpri, Pune 411018
- 8. Institute of Veterinary Biological Products, Pune 411007

9. Indian Drug Research Association, Pune 411002
10. Maharashtra Association for the Cultivation of Science, Law College Road, Pune 411004
11. National Chemical Laboratory, Pashan, Pune 411008
12. National Institute of Virology (formerly Virus Research Centre)
13. Public Health Laboratory, Pune 411001
14. Southern Regional Station, National Dairy Research Institute, Bangalore
15. Tata Cancer Research Centre, Parel (Bombay)
16. University of Poona, Ganeshkhind, Pune 411007

BIOMETRY

- *1. Maharashtra Association for the Cultivation of Science, Pune 411004
2. National Institute of Virology (formerly Virus Research Centre), 20-A, Wellesley Road, P. Box. No. 11, Pune 411001
3. University of Poona, Ganeshkhind, Pune 411007.

STATISTICS

1. Maharashtra Association for the Cultivation of Science, Pune 411004
2. University of Poona, Ganeshkhind, Pune 411007

A candidate shall be deemed to have passed if he/she obtain 25 marks in each of the oral examination and each theory papers and 40% marks in the aggregate of 4 orals 4 theory paper separately.

The oral examination of theory papers shall be held at the end of each semester in the relevant University Departments immediately on completion of theory papers.

The Academic Council on the suggestion of their local Chairman Boards of Studies, shall recommend to the Executive Council the names of two referees one of whom shall be the internal guide of the candidate. The Registrar shall forward the thesis to the referees appointed by the Executive Council.

Two external referees shall hold viva-voce test of the candidate within one month from the receipt of the thesis.

The referees shall send a report within a fortnight from the date of the viva-voce.

If a referee fails to submit his report within three months from the date of a despatch of the thesis his appointment shall be cancelled and the authorities will make substitute appointment.

The report of the referees, if unanimous, shall be final. In the event of a difference of opinion between two referees, the Executive Council shall appoint a third external referee. The report of the majority of the referees shall be final.

If the thesis is rejected, a candidate may resubmit the thesis after due revision and shall pay half the original fee for assessment of the thesis.

A candidate passing the M.Sc. (partly by papers and partly by research) examination shall be declared to have passed the examination without specifying the class.

A candidate registered for the M.Sc. Course (partly by papers and partly by research) may claim exemption/exemptions in the prescribed course in which they have already passed at the M.Sc. examination.

A candidate shall pay the fee for M.Sc. (Partly by papers and partly by research) course as shown below :—

- Rs. 50/- Admission fee to be paid alongwith the application form for admission.
- Rs. 50/- As examination fee for each paper
- Rs. 200/- As examination fee for the thesis
- Rs. 100/- Fees for extension per term up to the period of two years i. e. up to 4 terms after completing 4 years from the date of registration.
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