

**UNIVERSITY OF MUMBAI**



**No. PG/ Univ./VCD/ ICC / 2012-13/ 8**

**ELIGIBILITY CRITERIA FOR ADMISSIONS TO P.G. PROGRAMMES IN  
SCIENCE**

WHEREAS decision was taken in the academic year **2007-2008** by the University to implement credit based system at Under Graduate and Post Graduate level.

AND

WHEREAS it was pertinent to have the ordinances promulgated accordingly.

AND

WHEREAS the process of promulgation of Ordinances for credit based system at Post Graduate Level was initiated in the academic year 2011-2012.

AND

WHEREAS the faculty of Science has resolved in the meeting held on 23<sup>rd</sup> April 2012 that

"After considerable discussion wherein the faculty realized the fact that though the decision of implementing credit based system was taken in the academic year, 2007-2008, no ordinances were framed till the last academic year, as a result of which certain errors have occurred inadvertently in many of the Ordinances. Though, it has been resolved by the Academic Council to review the ordinances, as also operational implementation of credit based system, one of the areas pertaining to subject combinations to be offered at the Under Graduate level, required for Post Graduate admissions in respective subjects, may not be conducive for progression of students academically, due to inherent, inadvertent anomalies. It was therefore, unanimously resolved to request the Honorable Vice Chancellor to use the powers vested upon him under section 14(7) of Maharashtra University Act 1994 for repealing the Ordinance O.6002 and permitting operations of Ordinances O.2441 (Old) to be in force w. r. t. the eligibility criteria for P.G. admissions till the necessary corrective measures are taken by the Competent Authorities of the University. The said request is being made for expeditious implementation in the interest of the students and academics."

AND

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WHEREAS there is no time to do the necessary changes in eligibility criteria for admissions to PG programme in the different subjects mentioned in O.6002 to be amended by the Competent Authorities of the University.

AND

WHEREAS the same has to be implemented expeditiously enabling smooth conducts of admissions in the academic year, 2012-2013.

AND

WHEREAS faculty of Science vide its resolution cited hereinabove, has requested the Vice Chancellor to use its powers vested in him u/s 14(7) of the Maharashtra University Act, 1994.

I, Dr. Rajan Welukar, Vice Chancellor of the University of Mumbai, hereby issue the directions by using powers vested in the Vice Chancellor u/s 14(7) of the Maharashtra University Act, 1994, where, by Ordinance O.6002 is repealed and the same shall be replaced forthwith as follows.

Admissions will be made on merit (i.e. percentage of aggregate marks or grade secured at the qualifying examination). Reservation criteria shall be followed as prescribed by the Government of Maharashtra at the time of admission.

A learner for being eligible to apply for admission for the integrated ten semester M.Sc. programme must have passed H.S.C.(10+02) or equivalent examination with minimum 50% marks for students belonging to the general category and 45% marks for learners belonging to the reserved category with science subjects as may be prescribed for a given course.

A learner for being eligible to apply for admission to the M.Sc. degree course by papers in the branches other than those of Molecular Biology, Computer Science, Biochemistry, Biophysics, Fisheries management, Life Sciences, Information Technology, Applied and Industrial Chemistry, Biotechnology, M.Sc. (Home Science), M.Sc. (Home Science) in Food Processing and Preservation, M.Sc. (Home Science) in Sports and Nutrition, Five year integrated M. Sc. course in Basic Sciences, Bioanalytical Sciences, Herbal Sciences, Bioanalytical instrumentation, Bioinformatics, Nanoscience and NanoTechnology, Environmental Sciences, Nutraceuticals and Five Year Integrated Course in Bioanalytical Sciences must have passed:-

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The B.Sc. degree examination of this university or degree of any other university recognized as equivalent thereto with minimum 46 credits or its equivalent (i.e, the minimum credits required for majoring in a subject and excluding the credits for optional courses) of the subject which he wants to offer for the M.Sc. degree course by papers.

The admission shall be strictly on merit for the seats allotted by the University. However, where the seats are allotted by the college, the Head of the institution shall have discretionary powers for admission under “College seats” which shall not exceed 30% of the total allotted quota. Without prejudice the same shall be applicable unless prescribed by the University Rules or otherwise.

However a learner who has passed the B.Sc. degree of this University or of another University recognized as equivalent thereto with the following combinations of subjects will be eligible for admission to the M.Sc. degree course by papers in the branches as listed below.

### 1. MOLECULAR BIOLOGY

A learner who has either passed Bachelor’s Degree Examination of University of Mumbai in Science or equivalent degree of any other university recognized as equivalent thereto with one of the following as major subject

- (i) Chemistry
- (ii) Biochemistry
- (iii) Physics
- (iv) Mathematics
- (v) Botany
- (vi) Zoology
- (vii) Microbiology
- (viii) Any other branch of Biology
- (ix) Life Science

### 2. COMPUTER SCIENCE

A learner who has either passed Bachelor’s Degree Examination of University of Mumbai in Science or equivalent degree of any other university recognized as equivalent thereto with one of the following as major subject

MAJOR		ANCILIARY
Mathematics		-----
	OR	
Physics		Mathematics
	OR	
Statistics		Mathematics

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OR

The Bachelor of Engineering (B.E.) degree examination

OR

The B.Sc. (Computer Science) / BCS / B.Sc. (I.T.) Degree Examination

### 3. BIOCHEMISTRY

A learner who has either passed Bachelor's Degree Examination of University of Mumbai in Science or equivalent degree of any other university recognized as equivalent thereto with one of the following as major subject

(i) With Biochemistry as a main / major / principal subject at the B.Sc. Degree examination of this University or equivalent degree of other University.

OR

(ii) With Chemistry as a main / major / principal subject at the B.Sc. Degree examination of this University or equivalent degree of other University.

OR

(iii) With 3 Units of Biochemistry at T.Y.B.Sc. in combination with any other subject with 3 units at T.Y.B.Sc.

OR

(iv) With Biochemistry and Chemistry at T.Y.B.Sc. and any of the Biological sciences as ancillary subjects.

### 4. BIOPHYSICS

A learner who has either passed Bachelor's Degree Examination of University of Mumbai in Science or equivalent degree of any other university recognized as equivalent thereto with the following combination of subjects :-

Physics + Chemistry, Chemistry + Biology, Life Science +Biochemistry, Microbiology and Biotechnology. A learner must have secured minimum 50% marks at the B.Sc. Degree examination.

### 5. FISHERIES MANAGEMENT

A learner who has either passed Bachelor's Degree Examination of University of Mumbai in Science or equivalent degree of any other university recognized as equivalent thereto with minimum credits required for majoring in the subject with the combinations as stated below :-

Zoology or Life Sciences or Botany or Microbiology with Chemistry.

### 6. LIFE SCIENCES

A learner who has passed

(i) The Bachelor's degree in the Faculty of Science in the subjects of Life Sciences, Botany, Zoology, Microbiology and Biochemistry and Applied or Allied Biological Sciences of this University or equivalent degree of recognized Universities;

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OR

(ii) The Bachelor's degree in the Faculty of Medicine of this University or of recognized Universities.

OR

(iii) The Bachelor's degree in the Faculty of Technology / Faculty of Science of this University or of recognized Universities with the background of courses in Life Sciences.

OR

(iv) The Bachelor's degree in Agriculture or Veterinary Sciences of this University or equivalent degree of recognized Universities.

### 7. INFORMATION TECHNOLOGY

A learner who has either passed B.Sc. Degree in Information Technology of University of Mumbai or any other recognized University with minimum 45 percent of marks.

OR

B.Sc. In Computer Science / BCS with minimum 45 percent marks.

OR

B.E. Degree in any branch with 45 percent marks

OR

B.Sc. (Mathematics) with minimum 45 percent marks

OR

B.Sc. (Physics) with minimum 45 percent marks

OR

B.Sc. (Statistics) with minimum 45 percent marks

OR

B.Sc. (Electronics) with minimum 45 percent marks

With Mathematics as one of the subjects at 10 + 02 or its equivalent examination. Further, 15 percent of the seats out of the sanctioned capacity is to be utilized for the above said admissions.

### 8. APPLIED AND INDUSTRIAL CHEMISTRY

A learner who has either passed B.Sc. Degree in Chemistry of University of Mumbai or any other recognized University with minimum 50 percent of marks.

Students should have passed Mathematics as one subject at H.S.C. Examination.

### 9. BIOTECHNOLOGY

A learner being eligible for admission to the M.Sc. degree course in Biotechnology must have passed.

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(a) The B.Sc. (Three Year integrated course) degree examination of this University or any other University recognized as equivalent thereto) with the major subject Biotechnology.

OR

(b) With three units in Biotechnology at T.Y.B.Sc. in combination with three units of any other major subject at the T.Y.B.Sc.

The learners will be admitted to the M.Sc. degree course in Biotechnology on the basis of the marks obtained at the T.Y.B.Sc. Examination.

### **10. M.Sc. (Home Science)**

A learner for being eligible for admission to the Master of Science (Home Science) Course must have passed the Bachelor of Science (Home Science) Degree examination of this University or an examination of any other University recognized as equivalent thereto.

#### **BRANCH I: FOODS, NUTRITION & DIETETICS**

For being eligible for admission to the Master of Science (Home Science) degree course by papers in the Branch of Foods, Nutrition & Dietetics, a learner must have passed either :-

- Bachelor of Home Science with specialization in Foods, Nutrition & Dietetics.
- Bachelor of Home Science (General).
- Bachelor of Science (B.Sc.)

#### **BRANCH II: Human Development**

For being eligible for admission to the Master of Science (Home Science) degree course by papers in the branch of Human Development, a learner must have passed either :

Bachelor of Home Science with specialization in Human Development / Child Development.

- Bachelor of Home Science (General)
- Bachelor of Arts : Psychology as major / or as part fulfillment.
- Bachelor of Arts with Sociology as major
- Bachelor of Arts with Education as major
- Bachelor of Social Work.

#### **BRANCH III :- TEXTILE AND FASHION TECHNOLOGY**

For being eligible for admission to the Master of Science (Home Science) degree course by papers in the Branch of Textile and Fashion Technology, a learner must have passed either :-

- a) B.Sc. (Home Science) with specialization in Textiles & Clothing
- b) B.Sc. With specialization in any branch of Home Science of the University of Mumbai
- c) Bachelor of Home Science (General)

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### **11. M.Sc. (Home Science) Degree Course in Food Processing and Preservation**

B.Sc. With Home Science (Any branch)

B.Sc. with Microbiology / Biochemistry / Life Sciences / Chemistry / Biotechnology / Combinations

B.Sc. with Agriculture

Learners of any sex are eligible to apply for admission to the course.

### **12. M.Sc. (Home Science) Degree Course Sports Nutrition**

B.Sc. with Home Science (any branch)

B.Sc. with Biochemistry, Life Sciences,

B.Sc. with Nursing / Physiotherapy

Medical graduates any discipline

Learners of any sex are eligible to apply for admission to the course.

### **13. Five Year Integrated M.Sc. Degree in Basic Sciences**

A learner for being eligible for admission to the Five – Year Integrated M.Sc. degree course must have passed H.S.C. Examination (10 + 02) or equivalent examination from any recognized Board in India with 60% marks for General Category and 55% marks for S.C. / S.T. reserved category in aggregate or equivalent grade.

### **14. Bio-analytical Sciences**

A learner being eligible for admission to the M.Sc. degree course in Bioanalytical Sciences must have passed B.Sc. of University of Mumbai or any other recognized University in any one of the following subjects :

Chemistry, Botany, Zoology, Microbiology, Life Sciences, Biochemistry, Biotechnology and must have offered Chemistry as one of the subject till S.Y.B.Sc. with minimum 50% marks in the entrance examination.

### **15. Herbal Science**

A learner being eligible for admission to the M.Sc. Degree course in Herbal Sciences must have passed B.Sc. degree from University of Mumbai or any other recognized university in any subject of Biological Science / Biochemistry / Chemistry with any one Subject of Biological Sciences up to S.Y. level from any recognized university with 45% marks.

The admission will be granted on the basis of marks obtained in the entrance examination conducted by the college and as per the guidelines of the University of Mumbai. The same shall be in force with immediate effect until further suitable amendment by the Competent Authorities of the University.

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### 16. Bio-analytical Instrumentation

B.Sc. in any one of the following subjects : Chemistry, Botany, Zoology, Microbiology, Life Sciences, Biochemistry, Biotechnology and must have offered Chemistry as one of the subject till S.Y.B.Sc. (total 5 units) or equivalent.

### 17. Bio-Informatics

A learner being eligible for admission to the M.Sc. degree course in Bio-Informatics must have passed B.Sc. of Mumbai University or any recognized University in any of the following disciplines

Science (Biochemistry, Biology, Botany, Biotechnology, Chemistry, Environmental Science, Life Sciences, Physics, Mathematics, Microbiology, Statistics, Zoology)

Agriculture

Medicines

Pharmacy

Veterinary Science

Computer Science

### 18. Nano-Science and Nano Technology

The Following are eligible for admission: learners with B.Sc. Physics, Chemistry, Life Science, Biotechnology, Botany, Zoology, Microbiology, Biochemistry, Geology degrees of the University of Mumbai in second class or equivalent class or equivalent degree of other University or IIT or NIT.

### 19. Environmental Science

A learner who has passed B.Sc. degree examination of University of Mumbai or any other recognized university is eligible for the entrance examination.

The learner must have secured minimum 45% marks (40% for the candidate belonging to reserved category) or equivalent grade at B.Sc. examination in Chemistry, Botany, Zoology, Biotechnology, Microbiology, Life Sciences, Biochemistry, Geology, geography, Natural Science, Agricultural Science or B.Sc. degree with any other subject with Biological Science as one of the subject at F.Y./S.Y. level or B.E. degree of the University of Mumbai or any other University/ institute recognised as equivalent.

**Selection:** Open Entrance test.



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### **20. Nutraceuticals**

A learner being eligible for admission to the M. Sc. Degree course in Nutraceutical must have passed from University of Mumbai or any other recognized University in India with minimum 50% marks in aggregate for learners belonging to general category and 45% marks for learners belonging to reserved category or equivalent grade with any of the following science subjects up to the second year of the B.Sc. course: Chemistry, Botany, Zoology, Microbiology, Life science, Biotechnology, Biochemistry. Alternatively learners with degree in Medical sciences or Graduation in food and nutrition sciences or Pharmacy with aggregates marks as mentioned above for B.Sc. degrees are also eligible.

**Selection:** Open Entrance test.

### **21. Five Years Integrated M. Sc. Degree Course in Bio-analytical Sciences**

A learner for being eligible for admission to the 5 year Integrated M.Sc. degree course in Bio-analytical Sciences must have passed H.S.C. Examination (10 + 02) or equivalent examination from any recognized board in India with minimum of 50% marks for learners belonging to general category and 45% marks for learners belonging to reserved category in aggregate or equivalent grade with Science, subjects- Mathematics and Statistics, Biology, Chemistry and Physics.

The same shall be in force with immediate effect until further suitable amendment by the Competent Authorities of the University.

**Learners belonging to reserve category should be given 5% relaxation in aggregate for admissions in Post Graduate Courses.**

Mumbai- 400 032.  
Date: 19<sup>th</sup> May, 2012.

Sd/-  
(Dr. RAJAN M. WELUKAR)  
VICE-CHANCELLOR

## UNIVERSITY OF MUMBAI



**No. PG/ Univ./VCD /ICC / 2012-13/ 8**

To,

The Directors/ heads of the University Departments, the Directors, of the University Department (Autonomous), Professor-cum-Director of Institute of Distance & open Learning, The Principals, Sir J.J. College of Architecture and the Principals / Directors of the affiliated colleges / Institutes those have admitting the students for Post Graduate are requested to implement the above VCD immediately.

### **Copy forwarded with compliments for information to:-**

1. The Secretary to His Excellency Chancellor of University of Mumbai, Rajbhavan, Malbar Hill, Mumbai.
2. The Secretary, Higher & Technical Department, Government of Maharashtra, .
3. The Secretary to the Chairman, University Grant Commission, Delhi, Bahadur Shah Zafar Marg, New Delhi – 110 002.
4. The Joint Secretary, Higher & Technical Education Department, Government of Maharashtra, Mantralaya, Mumbai.
5. The Deputy Secretary, Higher & Technical Education Department, Government of Maharashtra, Mantralaya, Mumbai.
6. The Director of Higher Education, Higher Education Maharashtra State, Central Building, Pune – 411 001.
7. The Director of Technical Education, Directorate of Technical Education, Maharashtra State, Mahapalika Marg, Mumbai.
8. The Joint Director, Higher Education, Mumbai Region, Mahapalika Marg, Mumbai.
9. The Joint Director, Technical Education, Mumbai Region, Khetwadi, Bandra, Mumbai.
10. The Deans of faculties of Arts, Science, Commerce, Law, Technology & Fine Arts of University of Mumbai.
11. The Chairman, Campus Development Council, University of Mumbai, Vidyanagari Campus, Santacruz (East), Mumbai.

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**Copy to:-**

The Officer on Special Duty in the secretariat of Vice-Chancellor, the Director (CCF), the Director (Students Welfare), the Director (Adult & Continuation Education & Extension), the Coordinator (Ratnagiri Sub Centre), All Deputy Registrar, All Assistant Registrar, Assistant Registrar (Ratnagiri Sub Centre), Personal Assistant to the Vice-Chancellor, Personal Assistant to the Pro- Vice Chancellor, Personal Assistant to Registrar, Personal Assistant to the Director (BCUD), Personal Assistant to the Controller of Examinations, Personal Assistant to the Finance & Accounts Officer, Superintendent to thesis section.

**By the order of Hon'ble Vice Chancellor**

**Sd/-**

Mumbai- 400 032.  
Date: 19<sup>th</sup> May, 2012.

**DEPUTY REGISTRAR**  
Post Graduate Studies

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