

UNIVERSITY OF MUMBAI

No./UG 75 of 2006.

CIRCULAR:-

Attention of Principals of the affiliated colleges in the faculty of Science are hereby invited to the Ordinances, Regulations and syllabi relating to the Bachelor of Science (B. Sc.) (Maritime Science) vide Pamphlet No. 35 and Circular No.UG.410 of 2003 dated 25th August, 2003, and they are hereby informed that the recommendation made by the Ad-hoc committee appointed by the Academic Council to advise it on all matters relating to the courses of study and examinations leading to the degree of B.Sc. (Maritime Sciences) degree course at its meeting held on 13th September, 2005 has been accepted by the Academic Council at its meeting held on 28th December, 2005 vide item No. 4.18 and subsequently approved by the Management Council at its meeting held on 18th February, 2006 vide item No. 3 and that in accordance therewith in exercise of the powers conferred upon the Management Council under Section 54(1) and Section 55(1) of the Maharashtra Universities Act 1994. it has made the Ordinances 5577, 5578, 5579, 5580, 5581, 5582, 5583 and 5584 and Regulations 5301, 5302, 5303, 5304, 5305, 5306, 5307, 5308, 5309, 5310 and 5311 relating to the F.Y., and S.Y. and T.Y.B. Sc. (Maritime Sciences) degree course including scheme of examination, eligibility and standard of passing is passed as per Appendix* and that the same will be brought into force with effect from the examination to be held in the first half of 2006.

MUMBAI-400 032

16th March, 2006

Respectfully
for REGISTRAR

To,

The Principals of the affiliated colleges in Faculty of Science.

A.C/4.18 /28/12/2005

M.C/3/18.02.2006

No.UG/ 75-A of 2006, MUMBAI-400 032 16th March, 2006

Copy forwarded with compliments for information to :-

- 1) The Dean, Faculty of Science.
- 3) The Chairman, Ad-hoc Committee B. Sc. (Maritime Science)

Respectfully
for REGISTRAR

28/12/05

UNIVERSITY OF MUMBAI

Ordinances and Regulations

Relating to the B.Sc.

(Maritime Sciences) Degree Course

(with effect from the examination to be held from first half of 2006)

Ordinances and Regulations relating to
B.Sc. (Maritime Sciences) Degree Course

O. 5577 : The course for the Degree of B.Sc. (Maritime Sciences) shall be of three year duration.

O. 5578 : A candidate for being eligible for admission to the B.Sc.(Maritime Sciences) Degree Course must be unmarried and must have passed the Higher Secondary School Certificate (Standard XII) Examination conducted by the Maharashtra State Board of Secondary Education, Pune, or an examination of any other body recognised as equivalent thereto, with the following subjects :- English, Physics, Chemistry, Mathematics.

O. 5579 : There shall be an examination at the end of each year of the course. The examinations at the end of First and Second Year shall be conducted by the college on behalf of the University. The final examination at the end of the Third Year for the Degree of B.Sc.(Maritime Sciences) shall be conducted by the University.

5301
R. ## : The candidates shall be examined in the following subjects :-
First Year

Sr. No.	Subjects
1	Mathematics
2	Basic Engineering Science
3	Heat & Thermodynamics
4	Marine Electrotechnology Paper - 1
5	Terrestrial & Coastal Navigation Paper - 1
6	Bridge Watch Keeping & Emergencies Paper - 1
7	General Engineering Knowledge Paper - 1
8	Motor Engineering Knowledge Paper - 1
9	Marine Auxiliaries Paper - 1
10	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper - 1

H The students at the First Year of the B.Sc.(Maritime Sciences) Degree Course are permitted the use of Non-Programmable Scientific Calculator in all the subjects except for Terrestrial & Coastal Navigation Paper - 1.

Second Year

Sr. No.	Subjects
1	Marine Electrotechnology Paper – 2
2	Celestial Navigation
3	Terrestrial & Coastal Navigation Paper – 2
4	Bridge Watch Keeping & Emergencies Paper – 2 (Training)
5	Meteorology
6	General Engineering Knowledge Paper – 2
7	Motor Engineering Knowledge Paper – 2
8	Marine Auxiliaries Paper – 2
9	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper – 2

- ★ The students at the Second Year of the B.Sc.(Maritime Sciences) Degree Course are permitted the use of Non-Programmable Scientific Calculator in all the subjects except for Terrestrial & Coastal Navigation Paper – 2

Third Year

Sr. No.	Subjects
1	Marine Electrotechnology Paper – 3
2	Marine Engineering Drawing & Design
3	Practical Celestial Navigation
4	Bridge Watch Keeping & Emergencies Paper – 3
5	Motor Engineering Knowledge Paper – 3
6	Marine Auxiliaries Paper – 3
7	Cargo Handling & Stowage
8	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper – 3
9	Competency Enhancement Modules including GMDSS GOC, Engine Room Simulator Modular Course

- ★ The students at the Third Year of the B.Sc.(Maritime Sciences) Degree Course are permitted the use of Non-Programmable Scientific Calculator in all the subjects.

First Year B.Sc.(Maritime Sciences) Examination

O. 5480

A candidate for being eligible for admission to the First year B.Sc.(Maritime Sciences) Examination shall produce a testimonial of having satisfactorily kept two terms and to have undergone, to the satisfaction of the Principal of the college, the courses of study prescribed for the examination.

R. 5302

Candidates shall be instructed and examined in the subjects as indicated in the R. ## 5301

R. 5305

Standard for passing at the First Year B.Sc.(Maritime Sciences) Examination

To pass the First Year Examination, a candidate must obtain the specified minimum marks required for passing in each subject/s for Theory and Practical separately as shown below :-

Sr. No.	Subject	Pass Marks	
		Theory	Practical
1	Mathematics	50	-
2	Basic Engineering Science	38	15
3	Heat & Thermodynamics	38	15
4	Marine Electrotechnology Paper - 1	38	15
5	Terrestrial & Coastal Navigation Paper - 1	53	17
6	Bridge Watch Keeping & Emergencies Paper - 1	38	15
7	General Engineering Knowledge Paper - 1	38	15
8	Motor Engineering Knowledge Paper - 1	50	-
9	Marine Auxiliaries Paper - 1	38	15
10	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper - 1	30	30

★ Provided further that a candidate who fails in either Theory or Practical of the subject shall be treated as failed in that subject.

R. 5304

An unsuccessful candidate who secures minimum marks required for passing in a subject (both Theory and Practical), may at his option, be exempted from appearing in that subject at subsequent attempt/s and shall be declared to have passed the whole examination on his passing in the remaining subject/s.

Second Year B.Sc.(Maritime Sciences) Examination

O. 5581 : No candidate shall be permitted to the Second Year Examination of the B.Sc.(Maritime Sciences) Degree Course unless he / she has passed the First Year B.Sc.(Maritime Sciences) Examination and has kept two terms thereafter to the satisfaction of the Principal of the college

O. 5582 : Notwithstanding what is contained in O. 5581, a candidate who fails at the First Year Examination in not more than three subjects shall be permitted to keep terms for the Second Year of the B.Sc.(Maritime Sciences) Degree Course, but shall not be declared to have passed the Second Year Examination unless he / she has passed in all the subjects of the First Year Examination either previously or simultaneously with the Second Year Examination.

R. 5305 : Candidates shall be instructed and examined in the subjects as indicated in the R. ## 5301

R. 5300 : Standard for passing at the Second Year B.Sc.(Maritime Sciences) Examination.

To pass the Second Year Examination, a candidate must obtain the specified minimum marks required for passing in each subject/s for Theory and Practical separately as shown below :-

Sr. No.	Subject	Pass Marks	
		Theory	Practical
1	Marine Electrotechnology Paper - 2	38	15
2	Celestial Navigation	70	-
3	Terrestrial & Coastal Navigation Paper - 2	53	17
4	Bridge Watch Keeping & Emergencies Paper - 2 (Training)	-	60
5	Meteorology	38	15
6	General Engineering Knowledge Paper - 2	38	15
7	Motor Engineering Knowledge Paper - 2	50	-
8	Marine Auxiliaries Paper - 2	38	15
9	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper - 2	30	30

★ Provided further that a candidate who fails in either Theory or Practical of the subject shall be treated as failed in that subject.

R. 5307 : An unsuccessful candidate who secures minimum marks required for passing in a subject (both Theory and Practical), may at his

option, be exempted from appearing in that subject at subsequent attempt/s and shall be declared to have passed the whole examination on his passing in the remaining subject/s.

5583
O. ** : Third Year B.Sc.(Maritime Sciences) Examination
No candidate shall be permitted to the Third Year Examination of the B.Sc.(Maritime Sciences) Degree Course unless he / she has passed the Second Year B.Sc.(Maritime Sciences) Examination and has kept two terms thereafter to the satisfaction of the Principal of the college.

5583
O. 5584 : Notwithstanding what is contained in O. **, candidate who fails at the Second Year Examination in not more than three subjects shall be permitted to keep terms for the Third Year of the B.Sc.(Maritime Sciences) Degree Course but shall not be declared to have passed the Third Year Examination unless he has passed in all the subjects of the Second Year Examination either previously or simultaneously with the Third Year Examination.

R. 5308 : Candidates shall be instructed and examined in the subjects as indicated in the R. ## 530\

5309
R. *** : Standard for passing at the Third Year B.Sc.(Maritime Sciences) Examination.

To pass the Third Year Examination, a candidate must obtain the specified minimum marks required for passing in each subject/s for Theory and Practical separately as shown below :-

Sr. No.	Subject	Pass Marks	
		Theory	Practical
1	Marine Electrotechnology Paper – 3	38	15
2	Marine Engineering Drawing & Design	60	
3	Practical Celestial Navigation	53	17
4	Bridge Watch Keeping & Emergencies Paper – 3	38	15
5	Motor Engineering Knowledge Paper – 3	38	15
6	Marine Auxiliaries Paper – 3	38	15
7	Cargo Handling & Stowage	60	-
8	Ship Construction, Naval Architecture (Stability), Safety and Environmental Protection Paper – 3	45	15
9	Competency Enhancement Modules including GMDSS GOC, Engine Room Simulator Modular Course	PASS	

- ★ Provided further that a candidate who fails in either Theory or Practical of the subject shall be treated as failed in that subject.

R. 5310 : Award of class to successful candidates shall be on the basis of marks obtained at Third Year B.Sc. (Maritime Sciences) Examination as indicated below :-

Second Class	Minimum marks required for passing in each subject for Theory and Practical separately as per R. <u>***5309</u>
First Class	Satisfy passing requirements and min. 60% marks on the aggregate i.e. 480/800
First Class with Distinction	Satisfy passing requirements and min. 70% marks on the aggregate i.e. 560/800

R. 5311 : An unsuccessful candidate who secures minimum marks required for passing in a subject (both Theory and Practical), may at his option, be exempted from appearing in that subject at his subsequent attempt/s at the examination and shall be declared to have passed the whole examination on his passing in the remaining subject/s.