

## Hydrographic Surveying Under Graduate Course

**Eligibility for enrolment as Student Member:** A student must be above 16 years of age and have passed the Higher Secondary (10+2 system) examinations with Mathematics, Physics and Chemistry of recognized Institution / board.

There are three examinations for 10+2 PCM candidates :-

- (a) First Examinations
- (b) Intermediate Examinations
- (c) Final Examinations

### **Subjects of First Examinations:-**

S.No.	Subjects	Maximum Marks
1.	Mathematics (Pure and Applied)	200
2.	Physics / Measurement Science	150
3.	Physical Geography & Elementary Geology	100
4.	Elementary Cartography & Map Reproduction	100
5.	Elementary Seamanship & Navigation	100
6.	Elementary Surveying	100
7.	Hydrographic Surveying	150

- (a) Intermediate Examinations held in the month of Sept/Oct every year.

Eligibility : Must have passed First Examination and have attained the age of 19 years or Degree/Diploma in Civil Engineering or have undergone Basic Hydrographic Course / SR-I Course from NIH, Goa or Meteorological I Class course from School of Naval Oceanography and meteorology.

### **Subjects of Intermediate Examinations:-**

S.No.	Subjects	Maximum Marks
1.	Mathematics and Physics / Measurement Science	100
2.	Measurement Apparatus and System	100
3.	Terrestrial Surveys	100
4.	Marine Surveys	100
5.	Automated Data Gathering and Processing & Environmental Science	100
6.	Law of the Sea and Nautical Science	100
7.	Survey Computations	100

- (c) Final Examinations : Must have passed the Intermediate Examinations

### **Subjects of Final Examinations:-**

S.No.	Subjects	Maximum Marks
<b>Part - I</b>		
1.	Mathematics and Physics / Measurement Science (Advanced)	100
2.	Measurement Apparatus and System (Advanced)	100
3.	Terrestrial Surveys (Advanced)	100
4.	Marine Surveys (Advanced)	100
5.	Automated Data Gathering and Processing & Environmental Science (Advanced)	100
6.	Law of the Sea and Nautical Science (Advanced)	100

7.	Survey Computations (Advanced)	100
<b>Part - II</b>		
1.	Thesis & Viva Voce	100

(d) Direct Final Examinations : A candidate for the Direct Final Examination must have passed Survey Recorder Class I Course from National Institute of Hydrography, Goa or equivalent course from an Internationally recognized Hydrographic Institution or Organization.

OR

Must have passed the First Examination of the Hughly River Surveying Service.

OR

Must have undergone practical training for a minimum period of 05 years under a Fellow or Member in Sub Division 1(b) in the particular discipline.

**Experience for Direct Final Examination:**-- Must have been in an organized Surveying Service of the Central Government or State Government e.g. Naval Hydrographic Department, Hughly River Surveying Service, Inland Waterways Authority of India (IWAI). Minor Ports Survey Organization, Hydrographic Surveying Organization of Port Trusts / State Governments / Public Sector Undertaking / Commercial Organizations.

**Pass Marks:** Candidates for the various examinations are required to score the under mentioned minimum percentage marks to become eligible for being declared as successful:-

If a candidate appears for all the subjects of an examination at a time, he is required to score minimum of 50% marks in the aggregate and a minimum of 40% marks in each subject.

**Examinations Fee:**-- Examinations fee and other charges are subject to revised from time to time, however, may be obtained from the Institution as and when required.