

# **STUDENT HANDBOOK AND PROSPECTUS**

**B. Sc. (Nautical Science)**  
(FEBURARY-2008 Session)



**IGNOU-DGS PROJECT  
SCHOOL OF ENGINEERING AND TECHNOLOGY  
INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
MAIDAN GARHI, NEW DELHI – 110 068**

Price Rs.100/-

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*“Education is a liberating force, and in our age it is also a democratising force, cutting across the barriers of caste and class, smoothing out inequalities imposed by birth and other circumstances.”*

**- Indira Gandhi**

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“शिक्षा मानव को बन्धनों से मुक्त करती है और आज के युग में तो यह लोकतंत्र की भावना का आधार भी है। जन्म तथा अन्य कारणों से उत्पन्न जाति एवं वर्गगत विषमताओं को दूर करते हुए मनुष्य को इन सबसे ऊपर उठाती है।”

- इन्दिरा गाँधी

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November, 2007

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*Further information on the Indira Gandhi National Open University programmes may be obtained from the University's office at Maidan Garhi, New Delhi – 110 068, or its website <http://www.ignou.ac.in>.*

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# **A Joint Programme of**



# **Indira Gandhi National Open University**

(A Central University established by an Act of  
Parliament)

**and**



# **Directorate General of Shipping, Mumbai**

(Government of India)

## **RECOGNITION**

**IGNOU is a Central University established by an Act of Parliament in 1985 (Act No. 50 of 1985). IGNOU Degrees/Diplomas/Certificates are recognised by all the members of the Association of Indian Universities (AIU) and are recognised at par with Degrees/ Diplomas/ Certificates of all Indian Universities/Deemed Universities/Institutions vide UGC Circular No. F. 1-52/2000 (CPP-II) dated 5<sup>th</sup> May 2004 and AIU Circular No. EV/B(449)/94/176915-177115 dated January, 1994.**

**Before filling up the application form, please ensure that you are medically fit and fulfil the minimum eligibility criteria prescribed for the programme.**

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#### **IMPORTANT EVENTS AND DATES TO REMEMBER**

Date of Advertisement	1 <sup>st</sup> to 7 <sup>th</sup> November 2007
Issue of Application Form	12 <sup>th</sup> November 2007 (Monday)
Last date of submission of application form at the IGNOU Headquarters	3 <sup>rd</sup> December 2007 (Monday)
Date of Entrance Test (OPENNET)	23 <sup>rd</sup> December 2007 (Sunday)
Declaration of Entrance Test Results (Tentative)	3 <sup>rd</sup> January 2008 (Thursday)
Dates of Interviews	14 <sup>th</sup> , 15 <sup>th</sup> & 16 <sup>th</sup> January 2008 (Monday, Tuesday & Wednesday)
Declaration of Final Results (Tentative)	18 <sup>th</sup> January 2008 (Friday)
Date of Reporting at allotted Institute	30 <sup>th</sup> January 2008 (Wednesday)
Date of Commencement of Programme	1 <sup>st</sup> February 2008 (Friday)
Last Date for the Submission of Form-B at IGNOU-DGS Project, New Delhi by through Training Institutes	11 <sup>th</sup> February, 2008 (Monday)

#### **Important Notes:**

1. Please keep visiting <http://www.ignou.ac.in> for any further information related to admissions and Updates.
2. The Result of Entrance Test (OPENNET)/Interviews/Final Result. Will be made available on IGNOU Web Site.
3. You may also contact at 011-29536443 for your further queries.
4. You can also E Mail to us at [ignoudgs\\_studentinfo@yahoo.co.in](mailto:ignoudgs_studentinfo@yahoo.co.in)

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## **1. THE UNIVERSITY**

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The Indira Gandhi National Open University (IGNOU) was established by an Act of Parliament in 1985 to achieve the following objectives:

- Democratising higher education by taking it to the doorsteps of the learners;
- Providing access to high quality education to all those who seek it irrespective of age, region or formal qualifications;
- Offering need-based academic programmes at affordable cost in emerging professional and vocational areas;
- Promoting and developing distance education and maintaining standards in distance education in the country.

The University has national jurisdiction and strongly believes in resource sharing, collaboration and networking with other institutions and organisations. The University has developed a nationwide student support services to offer socially and academically relevant programmes. Several of these programmes are modular in nature. The University has emerged as the largest Open University in the world. The University uses a judicious multiple media mix for instruction.

### **1.1 The Schools of Studies**

With a view to develop interdisciplinary studies, the University operates through Schools of Studies. Each School is headed by a Director who arranges to plan, supervise, develop and organize its academic programmes and courses in coordination with the School staff and the different academic, administrative service wings of the University. The emphasis is on providing a wide choice of courses at different levels.

The School of Studies in operation currently are as follows :

- School of Computer and Information Sciences.
- School of Continuing Education.
- School of Education.
- School of Engineering and Technology
- School of Health Sciences
- School of Humanities
- School of Management Studies
- School of Sciences
- School of Social Sciences
- School of Agriculture
- School of Law
- School of Journalism and New Media Studies
- School of Gender and Development Studies
- School of Tourism, Hospitality Service Sector Management
- School of Interdisciplinary and Trans-disciplinary Studies
- School of Social Work

- School of Vocational Education and Training
- School of Extension and Development Studies
- School of Foreign Languages
- School of Translation Studies and Training

## **1.2 Academic Programmes Ongoing**

The University offers both short-term and long-term programmes leading to Certificates, Diplomas or Degrees, covering conventional as well as innovative programmes. Most of these programmes have been developed after an initial survey of the demand for such studies. They are launched with a view to fulfil the student's needs for:

- certification,
- improvement of skills
- acquisition of professional qualification,
- continuing education and professional development at work place,
- self-enrichment, and
- diversification of knowledge, etc.

So far the University has launched the following programmes:

### **Doctoral Programmes**

1. Doctor of Philosophy in Education (Ph.D)
2. Doctor of Philosophy in Economics (Ph.D)
3. Doctor of Philosophy in History (Ph.D)
4. Doctor of Philosophy in Tourism Studies (Ph.D)
5. Doctor of Philosophy in Library & Information Science (Ph.D)
6. Doctor of Philosophy in Public Administration (Ph.D)
7. Doctor of Philosophy in Sociology (Ph.D)
8. Doctor of Philosophy in Political Science (Ph.D)
9. Doctoral Programme in Mathematics (Ph.D)
10. Doctoral Programme in Physics (Ph.D)
11. Doctoral Programme in Hindi (Ph.D)
12. Doctoral Programme in English (Ph.D)
13. Integrated Doctoral Programme in Physics (Ph.D)
14. Integrated Doctoral Programme in Mathematics (Ph.D)
15. Doctoral Programme in Management (Ph.D)
16. Doctoral Programme in Commerce (Ph.D)

### **Master's Degree Programmes**

1. Master in English (MEG)
2. Master in Hindi (MHD)
3. Master in Political Science (MPS)
4. Master in History (MAH)

5. Master in Economics (MEC)
6. Master in Sociology (MSO)
7. Master in Public Administration (MPA)
8. Master in Public Policy(MPP)
9. Master of Commerce (MCOM)
10. Master's of Science Degree in Dietetics and Food Service Management {MSc. (DFSM)}
11. Master in Computer Applications (MCA)
12. Master in Library and Information Science (MLIS)
13. Master of Science in Hospitality Administration (MHA)
14. Master of Arts in Distance Education (MADE)
15. Master in Tourism Management (MTM)
16. Master of Business Administration in HRD/ Finance/Operations/Marketing (MBA)
17. Master of Business Administration (Banking & Finance) (MBF)
18. M.A. in Rural Development, M.A.(RD)
19. Commonwealth Executive Master of Business Administration (CEMBA)
20. Commonwealth Executive Master of Public Administration (CEMPA)

#### **Bachelor's Degree**

1. Bachelor of Arts (BA)
2. Bachelor of Commerce (B.Com)
3. Bachelor of Science (B.Sc.)
4. Bachelor of Social Work (BSW)
5. Bachelor of Science (Nautical Science)
6. Bachelor of Science in Nursing (B.Sc. N)
7. Bachelor In Library and Information Science (BLIS)
8. Bachelor in Computer Applications (BCA)
9. Bachelor of Education (B. Ed)
10. Bachelor in Technology in Civil (Construction Management) (BTCM)
11. Bachelor in Technology in Civil (Water Resource Engineering) (BTWRE)
12. Bachelor in Technology in Mechanical Engineering (Computer Integrated Manufacturing) (BTME (CIM))
13. Bachelor of Science in Hospitality & Hotel Administration. (BHA)
14. Bachelor in Tourism Studies (BTS)

#### **PG Diploma Programmes**

1. P.G. Diploma in Library Automation & Networking(PGDLAN)
2. P. G. Diploma in Translation (PGDT)
4. P. G. Diploma in Journalism and Mass Communication (PGJMC)
5. P.G. Diploma in Radio Prasaran (PGDRP)

6. P.G. Diploma in Audio Programme Production(PGDAPP)
7. P. G. Diploma in Maternal and Child Health (PGDMCH)
8. P.G. Diploma in Hospital and Health Management (PGDHHM)
9. P.G. Diploma in Geriatric Medicine (PGDGM)
10. P. G. Diploma in Rural Development (PGDRD)
11. P. G. Diploma in Higher Education (PGDHE)
12. P.G. Diploma in Distance Education.(PGDDE)
13. P. G. Diploma in Management (PGDIM)
14. P. G. Diploma in Human Resource Management (PGDHRM)
15. P. G. Diploma in Financial Management (PGDFM)
16. P.G. Diploma in Operations Management (PGDOM)
17. P. G. Diploma in Marketing Management (PGDMM)
18. P.G. Diploma in International Business Operations (PGDIBO)
19. Post Graduate Diploma in Intellectual Property Rights (PGDIPR)
20. Post Graduate Diploma in Environment & Sustainable Development (PGDESD)
21. Post Graduate Diploma in Community Cardiology (PGDCC)

#### **Diploma Programmes**

1. Advanced Diploma in Construction Management (ADCM)
2. Advanced Diploma in Water Resources Engineering (ADWRE)
3. Diploma in Creative Writing in English (DCE)
4. Diploma in Creative Writing in Hindi (DCH)
5. Diploma in Early Childhood Care and Education (DECE)
6. Diploma in Nutrition & Health Education (DNHE)
7. Diploma in HIV and Family Education (DAFE)
8. Diploma in Computer Integrated Manufacturing (DCIM) leading to B.Tech. Mechanical (Computer Integrated Manufacturing)
9. Diploma in Primary Education (DPE)
10. Diploma in Management (DIM)
11. Diploma in Tourism Studies (DTS)
12. Diploma in Youth in Development Work (DCYP)
13. Diploma in Aquaculture (DIA)
14. Diploma in Nautical Science (DNS)
15. Diploma in Women's Empowerment and Development (DWED)
16. Diploma in Value Added Products in Fruits and Vegetables (DVAPFA)
17. Diploma in Civil Engineering (For Construction Sector) (DCLE)
18. Diploma in Civil Engineering (Army Personnel only) (DCLE)
19. Diploma in Electrical & Mechanical Engineering (Army Personnel only) (DEME)

## **Certificate Programmes**

1. P.G. Certificate in Participatory Management of Displacement Resettlement and Rehabilitation (PGCMRR)
2. PG Certificate in Copyediting and Proofreading(PGCCP)
3. PG Certificate in Writing for Television (PGCTW )
4. PG Certificate in Rural Surgery (PGCRS)
5. Bachelor's Preparatory Programme Leading to BA, B.com for non 10+2 (BPP)
6. Certificate in Computing (CIC).
7. Computer Literacy Programme (CLP)
8. Certificate in ICT Application in Library (CICTAL)
9. Certificate in HIV and Family Education (CAFÉ)
10. Certificate in Nutrition and Child Care (CNCC)
11. Certificate in Food & Nutrition (CFN)
12. Certificate in Food Safety (CFS)
13. Certificate in Rural Development (CRD)
14. Certificate in Guidance (CIG)
15. Certificate in Teaching of Primary School Mathematics (CTPM)
16. Certificate in the Teaching of English (CTE)
17. Certificate in Primary Teaching (CPT)
18. Certificate in Primary Education (CPE)
19. Certificate in ICT applications in Library (CICTAL)
20. Certificate in Shoe Upper Stitching (CSUS)
21. Certificate in Shoe Upper Cutting (CSUC)
22. Certificate in Shoe Lasting and Finishing (CSLY)
23. Certificate in Tourism Studies (CTS)
24. Certificate in Empowering Women through Self Help Groups (CWDL)
25. Certificate in Women's Empowerment and Development (CWED)
26. Certificate in Youth in Development Work (CCYP)
27. Certificate in Craft and Design (Pottery) (CCDP)
28. Certificate in Disaster Management (CDM)
29. Certificate in Environmental Studies (CES)
30. Certificate in Participatory Forest Management (CPFM)
31. Certificate in Labour Development (CLD)
32. Certificate in Human Rights (CHR)
33. Certificate in Consumer Protection (CCP)
34. Certificate in Laboratory Techniques (CPLT)
35. Certificate in Competency Enhancement for ANM/FHW (CCEANM)
36. Certificate in Participatory Project Planning (SAVINI)
37. Certificate in Health Care Waste Management (CHCWM)

38. Certificate in Motorcycle Service and Repair (CMSR)

### **Awareness Programme**

1. Awareness Course on Intellectual Property Rights
2. Awareness Course - Appreciation Course on Environment. It is against the backlog of development of these programmes, the University has launched its distance learning programmes in engineering areas developed by its School of Engineering and Technology.

**Note:** Information on all these Programmes can be obtained from [www.ignou.ac.in](http://www.ignou.ac.in)

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## **2. INSTRUCTIONAL SYSTEM**

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The University follows multi-media approach for imparting instruction to its learners. The instructional package comprises a combination of one or more of the following:

- Self-instructional print materials;
- Audio and video cassettes;
- Telecast/broadcasts through the dedicated education channel of Doordarshan (Gyan Darshan) and the All India Radio (Gyan Vani) Channel;
- Teleconferencing;
- Interactive Radio-counselling;
- Face-to-face counselling at Study Centres and depending on programme requirement at Work Centres;
- Tele-counselling;
- Counselling Tests;
- Assignments;
- Technical and field visits
- Project work including work-related field projects;
- On line teaching-learning;
- Extended contact programmes; and
- Laboratory work.

### **2.1 Course Preparation**

The University prepares the self-instructional print material and audio-video programmes in participation with academia and R & D and practicing personnel. The study material is developed by teams of experts drawn from different universities/institutions all over the country. The print material is scrutinised by the content experts, supervised by the instructors/unit designers and edited in-house. In particular, print materials for programmes and courses offered by the School of Engineering and Technology are prepared by the in-house faculty of the University in association with course preparation project teams drawn from IITs, Engineering Colleges, Universities, R & D institutions, Industries and Professional bodies from all over the country. In the process, these materials are scrutinized by the content experts, supervised by the instructional unit designers and edited by the language experts at IGNOU before they are sent for printing.

Similarly, audio and video programmes are produced in consultation with the course-writers, other technical experts, in-house faculty and producers and wherever feasible in association

with other universities, R & D institutions and industries, and professional bodies. These programmes are reviewed by the faculty as well as outside media experts and edited or modified suitably, wherever necessary, before they are dispatched to the study centres and Doordarshan for broadcast.

## 2.2 Credit System

The University follows the “Credit System” for its programmes. Each credit in IGNOU system is equivalent to 30 hours of study comprising all learning activities which include reading and comprehension, listening to audio, watching videos, attending counselling sessions, teleconferencing, and writing assignment responses. Thus, a four-credit course involves 120 study hours. This helps the student to understand the academic efforts one has to put in, in order to successfully complete a course. Completion of an academic programme requires successful clearing of both the assignments and the term end examination of each course in the programme.

## 2.3 The Print Material

Self-instructional printed material is the mainstay of learning at IGNOU. In concrete terms, the print material comprises books/booklets, which are called “**Blocks**”, each Block having lessons, which are called “**Units**”. Each Unit is structured in such a way so as to facilitate self-study. Number of Blocks in a course depends on course-credits.

The first page of each block indicates the numbers and titles of the units constituting the block. This is followed by a brief introduction to the block.

Each unit begins with mention of unit “**Structure**”, wherein numbers and titles of each section/sub-section comprising the unit are indicated.

“Structure” is followed by the first section on “**Introduction**”, which attempts to forge a link with topics in various sections by briefly outlining what is proposed to be done in the unit, and, in doing so, states the learning “**Objectives**”, through which student is told of what one expects him/her to attain when he/she has completed the unit.

Section on “**Introduction**” is followed by other Sections covering various topics under the unit. In the Section “**Summary**”, coming towards the end, the unit then summarises what has been said in the whole unit to enable the student to recall the main points.

Important words/terms are explained under the section “**Key Words**” to facilitate comprehension.

The structure of a unit, thus, will be as given below:

### UNIT TITLE

	<b>Structure</b>	
1.1	Introduction	
	Objectives	
1.2	Section 1 : Concept 1	
	1.2.1 Subsection 1.1	
	1.2.2 Subsection 1.2	
	1.2.n Subsection 1.n	SAQs <input type="text"/>
1.3	Section 2 : Concept 2	
	1.3.1 Subsection 2.1	
	1.3.2 Subsection 2.2	
	.	
	.	
	1.3.n Subsection 2.n	SAQs <input type="text"/>
	.	
	.	
1.m	Section m	
1.m+1	Summary	

1.m+2	Key Words/Glossary
1.m+3	Further Readings
1.m+4	Answers to SAQs

The section, “**Some Useful Books**” or “**Further Reading**” is meant to suggest some books for additional reading.

While some of the suggested books for reading will be available at the library of your training institution, some may not be. Therefore, students are suggested to make efforts to get access to other libraries as well.

In each Unit, generally after each section, there are Self-check Exercises under the caption “Self-Assessment Questions (SAQs)”. Space is given for you to write your answers to the questions set in these self-assessment questions (SAQs). Each unit invariably ends with answers to the questions set in these SAQs.

While reading the units, mark the words/phrases that you do not fully understand. Look these up under the section Key Words/Glossary or in a dictionary. If there are certain ideas or concepts you do not understand, look these up in earlier unit(s) first, they may be explained there. Read the unit a second or third time till you have understood the point. However, if you still do not understand something, consult your counsellor at the training institutes for clarification.

Proper comprehension of the units and the points/notes made by you while reading through the units would help you in answering the Self-Assessment Questions given in the units. You may have to go through some pages of the unit again to find answer to these exercises. Once you have written the answer in the blank space provided in each unit for the purpose, you can compare your answers with the answers given under the section “**Solutions/Answers to SAQs**”, you must overcome the temptation of having a furtive look at the answers given at the end of the unit before attempting the questions.

**Please note** that the answers to the Self-Assessment Questions are not to be submitted to the University or the Study Centre for correction or evaluation. As the caption “Self-Assessment Questions” itself suggests, these exercises will enable you to check your own progress and find out whether you have mastered the contents of the unit or not.

In addition to SAQs, sections under units can also have solved examples.

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### 3. AN INTRODUCTION TO MERCHANT NAVY

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The B.Sc. (Nautical Science) Programme is designed to cater needs of Shipping Industry to make available competent officers to join the Merchant Navy.

**Note:** The information given herein has been gathered from various sources. However, neither IGNOU nor the Directorate General of Shipping (DGS) or the Training Institute to which you may be attached to for undergoing the programme guarantee a placement on board. Therefore, you are strongly advised to make your own enquiries before making a final decision.

#### 3.1 The Merchant Navy

Today, there are several opportunities to fetch reasonably good salaries but the Merchant Navy may also offer equally rewarding salaries at a young age. Unfortunately, the knowledge on the subject of "What is Merchant Navy & How do one join it?" still remains the privilege of few people who already have their relatives and friends in this industry. With this in background, some useful information about career in Merchant Navy is presented herein

The Merchant Navy is a non-combatant commercial fleet, which deals with transporting cargo and occasionally, passengers, by sea. Its fleet is therefore composed of vessels (ships) such as passenger vessels (called liners/ cruisers), cargo vessels which carry cargo or oil tankers (called tankers), as well as other special types of vehicles. These ships may belong to Indian or foreign Shipping companies. In fact, the Merchant Navy is the backbone of international

trade, carrying cargo across the globe. Without the merchant navy, much of the import-export business may grind to a halt.

The ships today are highly sophisticated and technology intensive. Safety and efficiency of the ship are crucial and depends upon the professional ability, competence and dedication to duty, of a seafarer, on board ship. Naturally, a seafarer is expected to be highly professional for the safe and efficient operation of the ship. The training in India is of reasonably high standards and the Indian seafarers are one of the most sought after commodity in the shipping industry worldwide.

Merchant navy career options mainly include the *navigating officers*, radio officers and marine engineers. In Merchant Navy, major tasks performed are in three basic areas of a ship. The Deck, the Engine and the Service Department. There are thus, many career options that are available for any youngster who has dreams to join the merchant navy. The deck officers include the captain, chief officer, second officer, third officer and other junior officers. The engine department consists of the Chief Engineer, Electrical Officer and Junior Engineers. The service department manages the kitchen, laundry, medical and other services. Jobs are available with shipping companies in India and other countries.

A career in this field is full of adventure and long voyages to exotic places. Above all this, the excellent pay and promising promotional opportunities make the career lucrative and exciting in spite of all the hard working life and long absence from family and home. As an officer in the Merchant Navy, one can expect a unique lifestyle that can take him/her anywhere in the world.

The job calls for genuine interest that can hold the entrant adjust with ease and confidence. The ability to withstand long stretches of hard work in an emergency like situation on board a vessel and to the physical strain, needs a person with touch mental and physical self to sustain through such stress. Therefore, a person with a strong mental makeup and tough physical constitution along with a sporting adaptive and adjustable attitude can find at sea one of adventure and fun. Life at sea is not a comfortable break from the routine of academics. A career in the merchant navy requires people with strong inner self and tough physical form, along with a sporting, adaptive and adjustable attitude. Willing to take on responsibility, love for adventure and challenges; have the urge to strive for higher positions; be able to work as well as study for examinations in between. Candidates need to be intelligent, intuitive, willing to work as a team, flexible, patient; have a liking for solitude, willing to live apart from loved ones for long stretches of time. Those opting for a career should not be sea sick. A merchant navy entrant must involve in a rigorous programme of the on-the-job learning. They have to pass stipulated examination to get promotions.

It may require working in all weather conditions. Although merchant mariners try to avoid severe storms while at sea, working in damp and cold conditions often is inevitable. While it is uncommon nowadays for vessels to suffer disasters such as fire, explosion, or a sinking, workers face the possibility that they may have to abandon their vessel on short notice if it collides with other vessels or runs aground. They also risk injury or death from falling overboard and hazards associated with working with machinery, heavy loads, and dangerous cargo. However, modern safety management procedures, advanced emergency communications, and effective international rescue systems place modern mariners in a much safer position. Now, most new vessels are air conditioned and generally soundproofed from noisy machinery, and equipped with comfortable living quarters. For some mariners, these amenities have helped ease the sometimes difficult circumstances of long periods away from home. Also, modern communications, especially email, link modern mariners to their families. Nevertheless, some mariners may dislike the long periods away from home and the confinement aboard ship and consequently leave the occupation

Although, the OECD (Organisation for Economic Co-operation and Development) countries (e.g. North America, Western Europe, Japan etc.) had been an important source for officers,

but growing numbers of officers are now recruited from the Far East, Eastern Europe and India. The majority of the shipping industry's ratings (General Purpose and Saloon Ratings) are recruited from developing countries, especially the Far East and South East Asia. The Philippines and India are very significant maritime labour supply nations, with many seafarers from these countries enjoying employment opportunities on foreign flag ships operated by international shipping companies

### **3.2 Job Opportunities and Career**

Here we shall be limiting ourselves to job opportunities on Deck side. **Deck Officer** - The officers from this branch look after the ships navigation, loading/unloading of cargo and the general maintenance and administration of the ship. The officer joins in the rank of 3rd officer and is subsequently promoted to the rank of 2nd officer, Chief Officer and finally the Master of the ship. All the promotions are subject to the individual passing his competency exams and his performance onboard the ship. In addition to navigation duties, normally a 3rd officer looks after the life saving appliances, 2nd officer the passage planning and the navigation equipment, the Chief Officer looks after the cargo work and the Master is the overall in-charge of the ship. The subsequent Promotions after acquiring a Certificate of Competency as Second Mate (F.G.), an officer is eligible to be appointed as a Third or a Second Officer on board a merchant ship and would draw a handsome salary. For subsequent promotions, he has to render further sea service and progressively pass the higher examinations appropriate for that rank viz. First Mate (F.G.) and Master (F.G.). The Certificate of Competency as Master (F.G.) entitles the officers to become the Captain of Merchant Navy ships.

A deck cadet after successful completion of one year (1<sup>st</sup> and 2<sup>nd</sup> Semesters i.e. Diploma in Nautical Science) of studies, during his/her onboard training (3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Semesters) can expect stipend in the range of US \$ 200-600 per month. Among officers a 3rd Officer/4th Engineer gets about US \$1500 – 2000 per month, whereas a 2nd Officer / 3rd Engineer, Chief Officer/2nd Engineer, Master / Chief Engineer can easily expect a salary of US \$2200 - 2500, US \$ 3000 - 3500 and US \$4000 – 5000 per month, respectively. People can draw salaries as high as US \$10,000-15,000 per month being on specialized vessels.

Generally, an individual can attain the rank of 3rd officer at the age of approx. 23 yrs and Master by the age of about 35 yrs.

A typical possible career flow chart is given in Figure-1 on the next page.

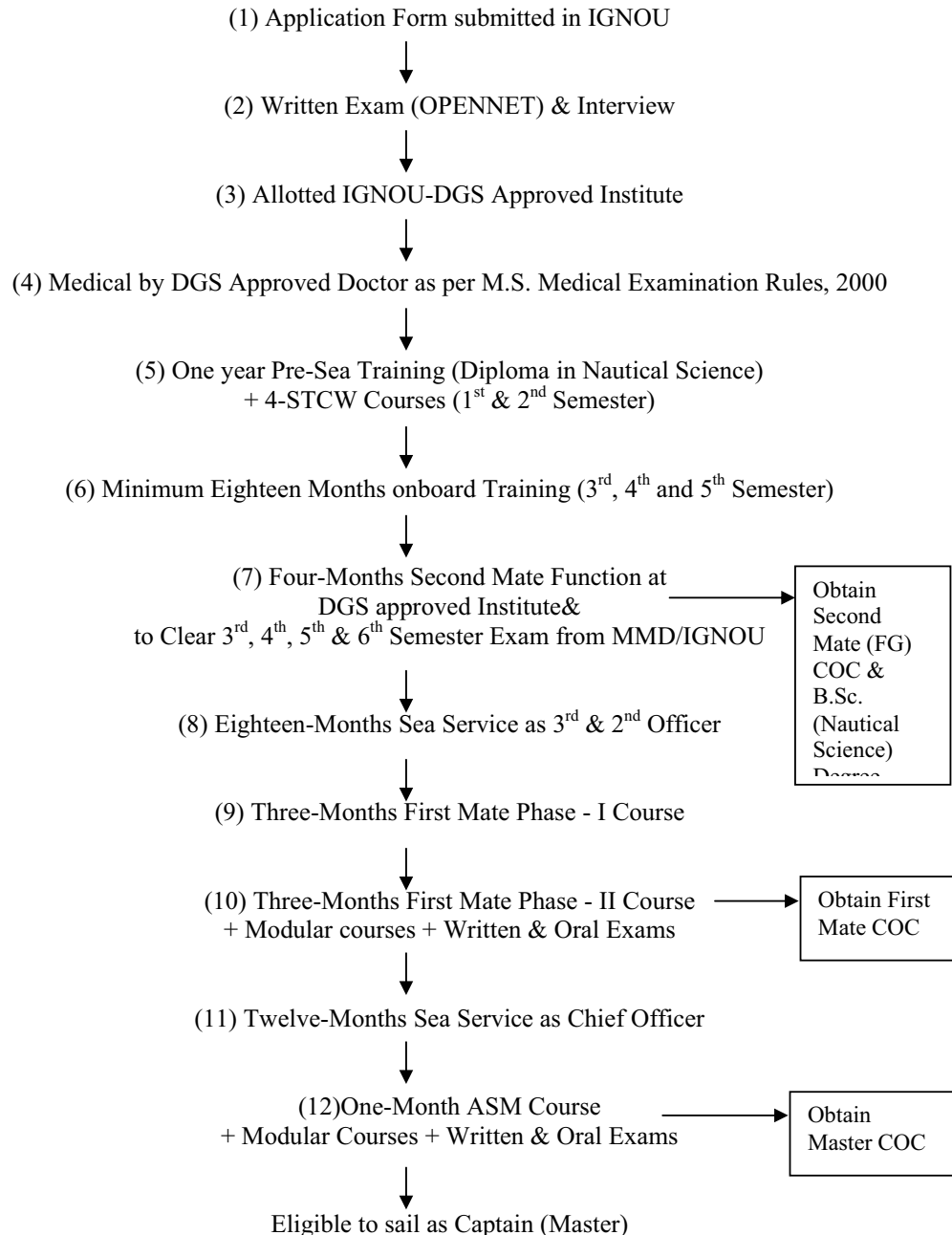
### **3.3 Future Prospects after Leaving Sea as Master or Chief Officer**

After acquiring B.Sc. (Nautical Science) degree one can pursue higher studies as well and look for various on shore jobs. One may get suitable openings in public sectors or private shipping companies as Shipping Managers or Marine Superintendents, the Mercantile Marine Department or Directorate General of Shipping as Nautical Surveyors or join the teaching faculty at any Maritime Training Institute or join various Port Trusts as pilots or join various private training institutions in various managerial positions.

**Note:** The IGNOU/Directorate General of Shipping/Training Institute/Government of India is under no obligation to find employment/ship placements for the persons undergoing the B.Sc. (Nautical Science) programme of IGNOU-DGS. However the Training Institute voluntarily may assist getting a suitable employment with shipping companies in case of non-sponsored candidates. One can always look for advertisements for various openings at different levels. For this purpose, various shipping companies may hold campus interviews of cadets for jobs.

## CAREER FLOW CHART

10+2 PCM with 60% Sponsored by a Company or with PCM 55% through  
IGNOU entrance Test (OPENNET) and 50 % marks in English & other  
eligibility conditions for B.Sc./ B.Tech. candidates as prescribed from time to time



**Figure-1: Typical Career Flow Chart**

### 3.4 Women in Shipping

Although the Merchant Navy traditionally had been an all-male occupation but of late women are now storming this male bastion. They are now increasingly joining up in the Merchant Navy. The United Nations (UN) has issued mandate, through International Maritime Organisation, to create equal representation of women in the work force by 2025. This can be seen as a very positive step in the direction of promoting women in the shipping industry. The followings may be a few indicative Pros & Cons for Women Joining the Merchant Navy which some of you may like to consider before drawing your final conclusions:

Pros:

1. Job opportunity in the Merchant Navy with attractive salary thus additional income
2. Globalization and equal rights for women
3. Will get the opportunity to command the vessels thus representing the country
4. May get opportunity for Shore Jobs
5. May work better in Passenger Ship & Cruise liner.

Cons:

1. Gender bias by male counterparts may exist in some countries depending upon the mindset of people
2. Some women may find it difficult to do heavy work which sometimes may be the requirement of industry
3. Vessel can sail in any part of the world and sometimes the dress code in some countries may be different which few women sailors may find difficult to comply with.
4. One may be in isolation amongst 15-20 male colleagues which may be uncomfortable for some
5. The attitude varies in different countries towards dealing with woman.
6. When in family way sailing may become a handicap for some.
7. Less/restricted availability of time for the family, however, while on leave no such restrictions applies.
8. The shipping company may sometimes be unwilling to accept females as sailors for the fear of losing them early as women possibly try to quit sailing after short tenure of service and look for other on shore jobs

In fact, it all depends upon ones weaknesses and strengths to take any career one likes and shipping is no exception to it. The shipping career can be made more lucrative to Indian women by creating more awareness of profession in the society by effectively propagating the maritime profession highlighting the positive aspects, such as post sailing land based employment opportunities etc. and involving them in faculty team to do maritime research and/or other similar job opportunities.

**Note:** During the pre-sea training programme, physical training is an essential part of the curriculum to keep the young persons fit for the tough and adventurous career at sea.

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## 4. B. Sc. (NAUTICAL SCIENCE) PROGRAMME

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### 4.1 Brief History and Background

As noted earlier, India supplies large highly qualified and well trained work force to the international shipping industry to work on merchant ships. Indian officers are also employed as managers and technical experts in shipping companies all over the world. Statistics available from authoritative sources suggest that Indian Officers will continue to be in demand in the foreseeable future but not without a stiff competition from officers of other Nationalities.

Realising the need of the industry and to ensure that the training programmes continue to be of the highest quality, B.Sc. (Nautical Science) programme has been launched in collaboration with the Directorate General of Shipping (DGS), Ministry of Shipping,

Government of India under the aegis of IGNOU-DGS Project with a view to increase availability of trained manpower to the shipping industry. The DGS is responsible for implementation of the Merchant Shipping Act, 1958 and The Merchant Shipping (Amendment) Act, 2003 as amended from time to time, which deal with regulation and facilitation of Shipping in India which includes Merchant Shipping Training and Examination.

#### 4.2 Aims and Objectives

This education and training programme aims at preparing the candidates to face with fortitude and endurance, the hardships of life at sea and to instil in them a sense of devotion to duty, feeling of goodwill and comradeship, which is essential for the life at sea.

#### 4.3 Programme Structure and Delivery

B.Sc. (Nautical Science) is worth 110 credits which include credit transfer worth 20 credits from Mercantile Marine Department (MMD)/Directorate General of Shipping (DGS). It is a six-semester (three-year) programme constituting three stages. In the beginning, a candidate is admitted for the one-year (2-Semesters) pre-sea **Diploma in Nautical Science (DNS)**, which is administered through IGNOU-DGS approved Nautical Training Institutes located across the country. This diploma programme is followed by one and half year (3-semester) on-board ship training and after successful completion of which, a candidate is awarded **Advanced Diploma in Nautical Science (ADNS)**. After completion of the on-board training, the Sixth Semester constitutes “2<sup>nd</sup> Mate Certificate of Competency” awarded by the Director General of Shipping and simultaneous award of **B.Sc. (Nautical Science)** degree from the University.

The first two Semesters, i.e. 1<sup>st</sup> year constitute on-shore training which is designed to impart basic knowledge on the type of merchant ships, ship operations, types of goods carried by ships, shipping trade and a good foundation in the basic principles of navigation and environmental sciences. During these two semesters the candidates undergo education and training in face to face mode supported by open and distance learning system and are assigned to an approved Training Institute (**Annexure I**).

For the subsequent three semesters, candidates are required to be trained on job, i.e. onboard a ship doing practical application of the theory learnt.

The sixth semester is conducted in face to face mode at an approved Training Institute as identified by Directorate General of Shipping, Mumbai. The training and instructions imparted at the training institute for this semester are directly supervised by the Directorate General of Shipping. The emphasis during this semester is to prepare the candidate for the examination of “2<sup>nd</sup> Mate Certificate of Competency” conducted by the Directorate General of Shipping (DGS), Ministry of Shipping, Government of India. Thus, the 2<sup>nd</sup> Mate Certificate of Competency forms an integral part of B. Sc. (Nautical Science) Programme. On successful completion of all the six semesters, the candidate is awarded a Certificate of Competency from DGS as well as he/she earns a degree in B. Sc. (Nautical Science) from IGNOU which enables him/her to become an officer on a merchant ship. The scheme of education and training for the programme is presented in the table below:

**Table 4.1: Different Stages in B.Sc. (Nautical Science) Programme**

Stage	Semester	Duration	Teaching Method	Award of Qualification
1	Semester 1 and 2	12 Months (Pre Sea)	Face to face Contact Programme	Diploma in Nautical Science (DNS) by IGNOU
2	Semester 3, 4 and 5	18 Months onboard ship (At sea)	Distance Learning	Advanced Diploma in Nautical Science (ADNS) by IGNOU
3	Semester 6	6 Months (Post Sea)	Face to face Contact Programme	B. Sc. (Nautical Science) Degree by IGNOU, and Certificate of Competency (COC) by D G Shipping

Thus, on successful completion of first Five Semesters of 18 credits each and after obtaining Second Mate (Foreign Going) Certificate of Competency (20 credits), a total credit of 110 credits would result in the award of B. Sc. (Nautical Science) degree to a successful candidate.

The distribution of courses of study and their respective credits for different semesters is given below:

**Table 4.2: Programme Structure of the B.Sc. (Nautical Science) [Semester-I]**

S. No.	Course Code	Name of the Course	Credits
1	BNA 011	Applied Mathematics	2
2	BNA 012	Applied Sciences	2
3	BNA 013	Applied Electricity & Electronics	2
4	BNA 014	Navigation-I: Terrestrial & Celestial	2
5	BNA 015	Navigation-II: Bridge Equipment, Watch Keeping, Meteorology & Oceanography	2
6	BNA 016	Cargo Handling, Stowage & Seamanship-I	2
7	BNA 017	English & Human Factors	Nil (Audit)
8	BNAL-011	Applied Sciences Laboratory	2
9	BNAL-012	Computer Laboratory	2
10	BNAL-013	Workshop Practices	2
<b>Total Credits</b>			<b>18</b>

**Table 4.3: Programme Structure of the B.Sc. (Nautical Science) [Semester-II]**

S. No.	Course Code	Name of the Course	Credits
1	BNA 021	Navigation-III :Navigation and Chart Work	2
2	BNA 022	Navigation-IV : Advanced Bridge Equipment, Watch Keeping, Meteorology & Oceanography	2
3	BNA 023	Cargo Handling, Stowage & Seamanship-II	2
4	BNA 024	Ship Operations	4
5	BNA 025	Maritime History and Commerce	Nil (Audit)
6	BNAL-021	Computer Applications Laboratory	2
7	BNAL-022	Workshop Practices and Seamanship Laboratory	4
8	BNAP-021	Project	2
<b>Total Credits</b>			<b>18</b>

**Table 4.4: Programme Structure of the B.Sc. (Nautical Science) [Semester-III]**

S. No.	Course Code	Name of the Course	Credits
1	BNA – 031	Ship Safety and Security	4
2	BNAL – 031	Practical Navigation – I	4
3	BNAL – 032	Practical Cargo Handling, Stowage & Seamanship – I	4
4	BNAL – 033	Practical Ship Operations – I	4
5	BNAL – 034	Practical Bridge Watch Keeping – I	2
<b>Total Credits</b>			<b>18</b>

**Table 4.5: Programme Structure of the B.Sc. (Nautical Science) [Semester-IV]**

S. No.	Course Code	Name of the Course	Credits
1	BNA – 041	Navigational Aids and Environmental Protection	4
2	BNAL – 041	Practical Navigation – III	4
3	BNAL – 042	Practical Cargo Handling, Stowage & Seamanship - II	4
4	BNAL – 043	Practical Ship Operations – II	4
5	BNAL – 044	Practical Bridge Watch Keeping – II	2
<b>Total Credits</b>			<b>18</b>

**Table 4.6: Programme Structure of the B.Sc. (Nautical Science) [Semester-V]**

S. No	Course Code	Name of the Course	Credits
1	BNA – 051	Ship Manoeuvring & Future Issue	4
2	BNAL – 051	Practical Navigation – III	4
3	BNAL – 052	Practical Cargo Handling, Stowage & Seamanship - II	4
4	BNAL – 053	Practical Ship Operations – III	4
5	BNAL - 054	Practical Bridge Watch Keeping – III	2
<b>Total Credits</b>			<b>18</b>

As stated, on successful completion of all the courses listed through Tables 4.2 and Table 4.3, a candidate will be awarded **Diploma in Nautical Science (DNS)**. Similarly, the successful completion of all the courses listed through Tables 4.4, Table 4.5 and Table 4.6 a candidate will be awarded Advanced **Diploma in Nautical Science (ADNS)**.

The programme structure worth 20 credits for the Sixth Semester for the award of Second Mate (Foreign Going) Certificate of Competency by the DG Shipping is given in Table 4.7 given below. On successfully clearing the examinations conducted by DG Shipping for the award of Second Mate (FG) Certificate of Competency, 20 credits will be transferred to IGNOU and a candidate will be awarded the degree of B.Sc. (Nautical Science) by IGNOU.

**Table 4.7: Programme Structure of the B.Sc. (Nautical Science) [Semester-VI]  
(With the Directorate General of shipping /MMD**

The following Courses forming the part of a <b>Certificate of Competency as Second Mate of a Foreign - Going Ship</b> ( <i>Officer In charge of Navigational Watch on Ships of 500 Gross Tonnage or More</i> ) issued by the Government of India under the Merchant Shipping Act 1958 and other applicable International Laws for which the Credit Transfer will be allowed by the University:			
S. No	Course Code	Name of the Course	Credits
1	BNA – 061	Terrestrial & Coastal Navigation at Operational Level	4
2	BNA - 062	Celestial Navigation at Operational Level	4
3	BNA - 063	Meteorology at Operational Level	2
4	BNA - 064	Bridge Watch Keeping and Emergencies at Operational Level	2
5	BNA - 065	Signals and Communications at Operational Level – Visual and Oral	2
6	BNA - 066	Cargo Handling and Stowage at Operational Level	2
7	BNA - 067	Ship Construction, Stability, Ship Safety and Environmental Protection at Operational Level	4
8	BNAL - 061	Practical and Oral	Nil (Audit)
9	BNAL - 062	Radar Observer Simulator Course	Nil (Audit)
10	BNAL - 063	Automatic Radar Plotting Aids Simulator Course	Nil (Audit)
11	BNAL - 064	Advanced Fire Fighting Course	Nil (Audit)
12	BNAL - 065	Proficiency in Survival Craft and Rescue Boats	Nil (Audit)
13	BNAL - 066	Medical First Aid Course	Nil (Audit)
14.	BNAL - 067	General Operator’s Certificate for GMDSS Course	Nil (Audit)
<b>Total Credits</b>			<b>20</b>

The instructional packages for I<sup>st</sup> to V<sup>th</sup> Semesters in the form of books / booklets will be provided by IGNOU to individual learners directly or through the approved Training Institutes.

The Training Institutes shall deliver the theoretical and practical components of the first two semesters of the programme which are fully residential in nature and are organized in face to face mode. These Training Institutes shall also be responsible for administering On-Board Ship Training during III<sup>rd</sup>, IV<sup>th</sup> and V<sup>th</sup> Semesters. However, for On-Board Ship Training the candidates themselves shall be responsible for getting the placement on the Ship and neither IGNOU nor Directorate General of Shipping or Training Institutes is responsible for making any arrangements in this regard.

#### 4.4 Medium of Instructions

The medium of instructions for this programme is **English**.

#### 4.5 Programme Duration

The minimum duration for this programme is Three years. However, a maximum duration of Six years is permissible to complete the programme.

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### 5. ELIGIBILITY

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Admission to this programme is offered on the basis of a written test (Entrance Test – OPENNET) followed by an interview. The Entrance Test is conducted twice a year. Direct admission (without Entrance Test) to this programme is also offered through sponsoring Shipping Companies wherein candidates are required to have a higher percentage of marks in the qualifying eligibility examination than those prescribed for entry through the entrance examination.

Thus, the candidates are selected through two different modes of selection. A candidate can be sponsored by an employing shipping company/ their authorised manning agents registered with the DGS and hence fall under category of **sponsored** candidates. The **non-sponsored** candidates are selected through an all India Entrance Test (**OPENNET**) followed by an interview. The sponsored candidates are exempted from the entrance test and their applications are routed through the employing shipping company and approved Training Institutions. However, in case of sponsored candidates, a higher percentage of marks in qualifying examinations are prescribed.

#### 5.1 Educational Qualification

- (1) Pass in 10+2 examination from a recognised Board/University (Please see the list in Annexure V) with Physics, Chemistry and Mathematics (PCM), with not less than 55% marks in PCM (or 60% marks in PCM in case of sponsored candidates).

OR

With Physics as an individual subject in any one of the years of B. Sc with not less than 50% marks in the final year of B.Sc. from a recognized University provided that the candidate must have passed 10+2 examination with Physics, Chemistry and Mathematics (PCM) with not less than 55% marks in PCM from a recognized Board

OR

B. E./B. Tech. or its equivalent degree from I.I.T or from a college recognized by AICTE/UGC/DEC.

and

- (2) Should have passed with not less than 50% marks in English as a separate subject, at either 10<sup>th</sup> or 12<sup>th</sup> standard or in the Degree programme conducted by a recognised Board/University.

[**Note:** Those appearing in eligibility qualifying examination are also eligible to apply provided they meet all the eligibility criteria and produce the certificates to that effect on or before 1<sup>st</sup> February 2008.]

#### 5.2 Age Limit (As on 1<sup>st</sup> February 2008)

For the session commencing in **February 2008**, the age of the candidate will be reckoned as on 1<sup>st</sup> February 2008. **However, as a special case, the candidates, who become overage on 1<sup>st</sup> February 2008 but meet the age criteria on 1<sup>st</sup> January, 2008 shall also be eligible**

**for the programme.** This is to facilitate the candidates who would have been eligible for the programme had the programme was to commence on 01-01-2008. Depending upon the educational qualification on the basis of which a candidate is seeking admission, the age of the candidate should be as follows:

- Not more than 20 years in case of 10+2 pass (i.e. a candidate should not be born earlier than 2<sup>nd</sup> January 1988/2<sup>nd</sup> February 1988).
- Not more than 22 years in case of B. Sc. degree (i.e. a candidate should not be born earlier than 2<sup>nd</sup> January 1986/2<sup>nd</sup> February 1986).
- Not more than 24 years in case of BE/B. Tech degree (i.e. a candidate should not be born earlier than 2<sup>nd</sup> January 1984/2<sup>nd</sup> February 1984).

Thus, the age of a candidate seeking admission on the basis of PCM marks of 10+2 examination but having higher qualifications should not be of more than 20 years.

The age limit is relaxable by 2 years in case of female candidates and 5 years for SC/ST candidates.

### **5.3 Physical Standards**

Medically fit as per the standards set by Merchant Shipping Medical Examination Rules, 2000, as may be amended from time to time. For details the candidates are advised to visit the website of Directorate General of Shipping i.e. [www.dgshipping.com](http://www.dgshipping.com).

### **5.4 Eye-sight**

6/6 in each eye without visual aids. Normal colour vision. Candidates will have to undergo a full eyesight test conducted by the Mercantile Marine Department before being finally selected for the course.

#### **NOTE:**

(1) The candidates are strongly advised that before participating in Entrance Test/Interview or before making an application for Admission as a sponsored candidate, they shall get themselves medically examined for their physical fitness as per the standards set by Merchant Shipping Medical Examination Rules, 2000, as amended from time to time as well as for their eye-sight to ensure that they meet the relevant criteria in this regard. It would be prudent to get the eye-sight checked from a qualified Eye specialist to ascertain that the candidate possesses 6/6 eye-sight in both eyes and do not suffer from colour blindness or any other deformity of eyes. This will help candidates to avoid any last minute embarrassment besides loss of any fees paid to IGNOU as the same are non refundable.

(2) The candidates are expected to possess good communication skills in English. It is recommended that the candidates should have good command in written and spoken English language as the same may help the candidates to improve their performance in interviews which are conducted in only English, in comprehending the courses taught and also getting placements with the employing shipping companies.

(3) The candidates in their own interest are strongly advised to undergo full medical, before making an application for participation in Entrance Examination/Interview, to ascertain their eligibility and to avoid any last minute embarrassment. Some indicative details in this regard are given below. However, it is made clear that the candidates are required to meet the medical criteria as prescribed in Merchant Shipping Medical Examination Rules, 2000, as amended from time to time. The candidates shall also be subjected to full eyesight test conducted by Mercantile Marine Department of Government of India. For details please visit the website of Directorate General of Shipping i.e. [www.dgshipping.com](http://www.dgshipping.com). In fact, the candidate undergoing the training programme shall cultivate the habit of visiting this website for their professional purposes.

To be declared fit to undergo the prescribed training programme, a candidate must be in good mental and physical health and free from any manufacturing defect likely to interfere with the efficient performance of duties.

1. Constitution : There should be no evidence of weak constitution by way of imperfect development of muscles or serious malformation. Weight below 42 kg. and height below 150 cms. will be rejected. The chest should be well developed with a minimum range of expansion of 5 cms.

2. Skeletal System : There should be no disease or impairment of functions of bones or joints, contracture or of deformity of chest or any joint, abnormal curvature of spine, deformity of feet like bow legs, knock knees, flat feet, deformity of upper limbs, malformation of the head, deformity from fractures or depression of the skull, fractures (healed) with a pin inside will be a disqualification.

3. Ear, nose and throat : There should be no impaired hearing, discharge or disease in either ear, unhealed perforation of tympanic membrane or signs of acute or chronic suppurative otitis media or evidence of radical mastoid operation, evidence of disease of the bones and cartilage of the nose, nasal polypus or disease of nasopharynx or accessory sinuses. Loss or decay of teeth to such an extent as to interfere with efficient mastication. No disease of the throat, palate, tonsils or gums or any disease or injury affecting the normal function of either temporomandibular joint. Individuals with severe pyorrhoea are to be rejected.

4. Speech : There should be no impediment of speech (e.g. stammering)

5. Lymphatic System : There should be no enlarged glands, tubercular or due to other diseases in the neck or other parts of the body. Thyroid gland should be normal.

6. Cardiovascular System : There should be no sign of functional or valvular or other disease of the heart and blood vessels. Electrocardiogram should be within normal limits. Systolic blood pressure should not exceed 150mm of Hg nor Diastolic above 90 mm of Hg.

7. Respiratory System : There should be no evidence of chronic or respiratory tract disease, pulmonary tuberculosis or previous history of this disease or any chronic disease of the lungs. X-ray of chest should be normal.

8. Digestive System : There should be no evidence of any disease of the digestive system and that liver and spleen should not be palpable and there should be no abdominal tenderness on palpation.

9. Genitourinary System : There should be no palpable and enlarged kidneys. There should not be any disease of kidneys. Cases showing albuminuria, glycosuria or blood (RBC) in urine will be rejected. There should be no hernia or tendency thereto. Those who have been operated for hernia may be declared fit provided :

(a) one year has elapsed after the operation. Documentary proof to be produced by the candidate.

(b) General tone of abdominal muscles should be good and

(c) There has been no recurrence of hernia or complications with the operation. There should be no hydrocele, varicocele, spermatocele or any other defect of genital organs, no fistula and/or anal fissure or evidence of hemorrhoids (Piles), rectal polyps. There should be no active latent or congenital venereal diseases, undescended intra abdominal testicle on one side un-associated with hernia, provided the other testicle is normal and that there is no physical or psychological effect due to undescended testicle will be accepted. Undescended testicle is retained in inguinal canal or at the extra abdominal ring will be rejected.

10. Skin : There should be no skin disease unless temporary or trivial. Scars which by their extent or position are likely to cause disability or marked disfigurement are a cause for rejection.

11. Nervous System : There should be no history or evidence of mental disease of the candidate or in his family. Candidates having history of fits in continence or urine or enuresis will not be accepted. Mental or nervous irritability, abnormality of gait, defective functions of cranial nerves, in co-ordination, motor or sensory defaults will be rejected.

12. Eye Sight : There should not be any degree of squint or any morbid condition of eyes or of the eyelids that is liable to aggravate or recur, pressure of trachome and iris complication sequela. Candidates must possess good binocular vision (fusion faculty and full field of vision

in both eyes). Movement of the eyeballs must be full in all directions and the pupils should react normally to light and accommodation. The vision should be 6/6 (normal) (without glasses) in each eye separately with normal colour vision.

13. Any other defect which in the opinion of the medical board will interfere with the individual's efficiency as an officer of the merchant navy

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## 6. FEE STRUCTURE

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### 6.1 Registration Fee

The registration fee for the programme is Rs.500/- (Rs.600/- in case of downloaded form which is inclusive of price of Students handbook and Prospectus) is to be paid along with application form for Entrance Test (OPENNET – February 2008) i.e. **Form-A**. However, the sponsored candidates are required to pay the registration fee along with the application form for the admission using Form-B.

### 6.2 Programme Fee

The programme fee consists of two components, i.e. the fee to be paid to IGNOU and the fee which is to be paid to the Training Institute. The fee to be paid to IGNOU is Rs.27500/- @ Rs.5500/- per semester for the first five semesters of the programme. The Non-Sponsored candidates will pay programme fee in two stages. They will be required to pay Rs.10000/- at the time of interview (refundable in case of non-selection) and balance Rs.17500/- along with application form for admission after reporting to the Training Institute. The Sponsored candidates will pay programme fee of Rs. 27500/- in one stage along with the application form for Admission (Form-B) while doing so they will also add registration fee of Rs.500 (Rs.600 in case of downloaded application form).

The fees to be paid to the Training Institute may vary from one institute to another. The fees payable to Training Institutes include boarding and lodging for the first two semesters as this stage of the programme is fully residential, and administration charges for the On-Board Ship Training for the Third, Fourth and Fifth semesters. These fees are generally expected to be in the range of Rs. 1.8 lacs to 2.5 lacs. The exact fees payable to a particular institute can be found out from the website of Directorate General of Shipping i.e. [www.dgshipping.com](http://www.dgshipping.com) and/or making enquiries from respective Training Institutes. All the Training Institutes have been directed by the Directorate General of Shipping to announce their fees in advance which shall include all the fees payable to the Training Institute for the first five semesters. Such details are also to be provided by the Training Institutes for publication in the Students handbook and Prospectus. The candidates are strongly recommended to make enquires regarding fees etc., well in advance before exercising choice for the Training Institutes while filling up the application form for the Entrance Test (OPENNET). Some concessions in fees payable to Training Institutes owned by the Government of India is available for female candidates therefore such candidates are advised to find out details from the respective institutes.

The fees for the Sixth Semester are not included herein as the same are to be collected by the Post-sea Training Institutes and MMD/DGS. And these are announced separately by the Post-Sea Training Institute and the Directorate General of Shipping, Mumbai.

The fees are subject to revision from time to time.

### 6.3 Mode of Payment

The fees payable to IGNOU are to be paid in the form of a **Demand Draft** drawn in favour of IGNOU payable at Delhi/New Delhi.

The Directorate General of Shipping has mandated all the institutes to collect their fees in the form of account payee Cheque/Draft only and under no circumstances the institutes are authorised to collect any fees in Cash.

#### 6.4 Refund of fees

Registration fee/ Programme fee is not refundable under any circumstances. However, the demand draft submitted to IGNOU by candidates at the time of interviews will be refunded to candidates who do not make it to the final list drawn for admission on the basis of Entrance Test and interviews.

In the event of any information furnished by a candidate being found incorrect or misleading, the candidature of such candidate shall be liable to cancellation by the University at any time and the candidate shall not be entitled to refund of any fee paid by the candidate to the University.

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### 7. ADMISSION SCHEDULE

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- 7.1 The admission for this programme is offered twice a year, i.e. in January/February and July/August. IGNOU invites applications from prospective learners through advertisements in national and regional dailies detailing all the relevant information and criteria for admission. Selected candidates shall be assigned by the University to Training Institutes (**listed in Annexure-I**) strictly on the basis of choice exercised by the candidates in the application form for the Entrance Test (OPENNET).
- 7.2 Admission to this programme is open to both **Sponsored** and **Non-sponsored** candidates. The non-sponsored candidates are selected through an entrance test conducted by IGNOU followed by an interview.
- 7.3 The Prospectus can be obtained from IGNOU headquarters, New Delhi on weekdays during working hours on payment of Rs.100/- in cash from 12<sup>th</sup> November, 2007. It can also be downloaded from IGNOU website i.e. <http://www.ignou.ac.in>. The arrangements are also being made to make it available through some selected Regional centres of IGNOU. It can also be obtained by POST by sending Demand Draft for Rs.200/- drawn in favour of IGNOU and payable at Delhi/New Delhi, by addressing your request to the

IGNOU-DGS PROJECT  
(Room No. 109 Block- C)  
SCHOOL OF ENGINEERING AND TECHNOLOGY  
INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
MAIDAN GARHI, NEW DELHI – 110 068

Your request for Students Handbook and Prospectus shall reach IGNOU in an envelope super-scribing “REQUEST FOR APPLICATION FOR B.Sc. (NAUTICAL SCIENCE) PROGRAMME”.

- 7.4 There are two distinct forms in this Student Handbook and Prospectus. The Application Form **A** is for Entrance Test (OPENNET-February2008) and to be filled-in by the candidates appearing in the Entrance Test. The Application Form **B** i.e. Application Form for Admission - February 2008 is to be filled-in by the candidate who successfully make to the list of Selected candidates drawn on the basis of Entrance Test (OPENNET) and Interview and also by the candidates who are seeking admission on the basis of their Sponsorship by a Shipping Company.
- 7.5 Completed Application Form for the Entrance Test (OPENNET) i.e. Form **A** along with the prescribed registration fee of Rs.500/- (Rs.600/- in case of downloaded application form) in the form of a Demand Draft drawn in favour of IGNOU and payable at Delhi/New Delhi should reach in an envelope super-scribed “Application form for B.Sc. (Nautical Science)” to the “**Registrar (Student Registration and Evaluation Division), Block-12, Indira Gandhi National Open University, Maidan Garhi, New Delhi – 110068**” on or before the last date of submission of applications

i.e. **3<sup>rd</sup> December, 2007**. Incomplete Application Forms or those received after the due date will be summarily rejected and no enquiries will be entertained in this regard. The students are, therefore, advised to fill the relevant information carefully and enclose Application Form **A** for Entrance Test (OPENNET-February 2008 Session). **Please see the checklist before sending the Application Form.** The University will not accept any statement from the students about their ignorance in meeting these requirements.

- 7.6** In case of non-sponsored candidates, basis of selection will be through an All India Entrance Test and interview conducted by IGNOU in association with the DGS. Eligibility for appearing in this test is as stipulated under Section 5 of this Student Handbook and Prospectus.
- 7.7** The Entrance Test will be conducted in different cities in India (**Annexure-III**) on **23<sup>rd</sup> December, 2007**. The Entrance Test will be of 3 hours duration and will have objective type multiple choice questions. A candidate will be assessed in English, Maths, General Science (Physics and Chemistry), General Knowledge and IQ/Aptitude. All subjects will carry equal weight. The standard of this test will generally be that of 10+2 level. The short-listed candidates in the Entrance Test will be called for interview. A final merit list will be prepared on the basis of performance in Entrance Test and interview. The Entrance Test and Interview will carry, 70% and 30% weightage, respectively. The date, place and time of interview will be communicated to the candidates short-listed on the basis of their performance in the Entrance Test. The Interviews will be conducted only in selected cities or in New Delhi only.
- 7.8** In case the number of candidates for the Entrance Test at the city of your choice is less than 10, you may be allotted an examination centre in another city. **No request for change of centre will be entertained.**
- 7.9** You are advised to retain a photocopy of the filled-in Application Form. On the basis of information furnished by you in the Application Form, you would be sent an Admit Card for the Entrance Test. In case you do not receive the same, you should contact the Registrar (SRED) along with the photocopy of the Application Form submitted by you for the issuance of a Duplicate Admit Card.
- 7.10** You will make sure that you retain your Admit card with you duly countersigned by the Invigilator concerned after the Entrance Test and keep it in safe custody. You will be required to produce your Admit Card at the time of Interview. This Admit Card will have to be enclosed along with the Application Form **B** for Admission. You may also be asked to produce your original testimonials at the time of Interview. However, you will have to necessarily produce your all original certificates/testimonials before the Training Superintendent of the Training Institute at the time of taking admission who shall ascertain the genuineness of documents and certify your eligibility for the programme. These documents shall also be forwarded to IGNOU for verification.
- 7.11** Continuation of your admission beyond Second Semester i.e. in 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Semesters which includes On-board Ship training will be possible only after the candidate gets the placement on the Ship which shall be the responsibility of the candidate himself/herself. Many ship owners and manning agents visit training institutes of repute and interview cadets who are not sponsored (Campus Interviews) and select them. Non-sponsored cadets are therefore advised to strive to get admissions in Institutes of repute for their pre-sea training (1<sup>st</sup> and 2<sup>nd</sup> Semesters). They shall also try to score better marks in their term end examinations. In addition, such candidate must improve their command over written and spoken English. All these would enhance their chances of getting an early shipboard placement. The non-sponsored candidates are accordingly advised not to fall pray to the promises made by unauthorised agents of placements onboard ships against payment of large sums of money.

7.12 A candidate can be sponsored by an employing shipping company for admission to this programme. The sponsored candidates are exempted from the Entrance Test (OPENET) for the time being and their applications are routed through the employing shipping company and approved training institutions. However, in case of sponsored candidates seeking admission on the basis of their 10+2 examination, a higher percentage of PCM marks are prescribed. Such candidates must have passed the 10+2 examination from a recognized Board securing 60% marks in Physics, Chemistry and Mathematics. However, those seeking admission as sponsored candidates on the basis of their B.Sc. or B.Tech. programme, the qualifications remains the same as in case of non-sponsored candidates. The criteria for age, physical standards and eye sight etc. remains the same for sponsored and non-sponsored candidates. The IGNOU may interview the candidates under the sponsored category before admitting them. No candidate will be admitted as a Training Institution sponsored candidate. In case of shipping company sponsored candidates, the respective Training Institutions are required to satisfy themselves as to the credibility of the shipping company where the sponsoring shipping company is not a member line of Indian National Ship Owner's Association (INSA)/Foreign Owners & Ship Manager's Association (FOSMA)/Maritime Association of Ship Owners, Ship Managers and Agents (MASSA). In cases, where a sponsored candidate, after successful completion of on-shore training of first and second semesters (1<sup>st</sup> year) is not absorbed by the sponsoring Shipping Company within a reasonable time of 9 months, the DGS/IGNOU may reduce intake capacity of such training institute for future training programmes. This may also lead to withdrawal of programme and/or institute's approval by DGS. The Training Institutions are required to collect the duly completed **form B** for Admission to B.Sc. (Nautical Science) Programme from the candidates and send these to IGNOU by **11<sup>th</sup> February, 2008** (Monday) with the requisite fees Rs.17500/- (Rs.28000 in case of sponsored candidates or Rs.28100/- in case of sponsored candidates using downloaded form) should be sent through the Training Institute to the Project Coordinator, IGNOU-DGS Project, School of Engineering & Technology, Indira Gandhi National Open University, Maidan Garhi, New Delhi – 110068 so as to complete the enrolment formalities. **Please see the checklist before sending the Application Form.** In case of Sponsored candidates, the fee payable is Rs.28,000 inclusive of Registration fee (those using downloaded forms shall pay Rs.28,100). The University will not accept any statement from the students about their ignorance in meeting these requirements. The candidates will have to necessarily produce their all original certificates/testimonials before the Training Superintendent of the Training Institute at the time of taking admission who shall ascertain the genuineness of documents and certify your eligibility for the programme. These documents shall also be forwarded to IGNOU for verification.

The sponsored candidates are advised to seek sponsorship only from *bonafide* Shipping Companies or their duly registered manning agents. The website of DGS has relevant information in this regard and the same may be made use of. Also, it is in the interest of sponsored candidates to possess a letter of sponsorship in their own custody so as to make sure that you are duly sponsored. Such letter of Sponsorship shall clearly mention the name of the candidate, date of birth, father's/mother's name, the e-mail ID of shipping company/manning agents and their contact telephones etc. **The IGNOU/DGS can ask for the production of Sponsorship letter in Original from the candidates admitted as Sponsored candidate and failing which admission the admission is liable for cancellation.**

7.13 As per the latest guidelines issued by the Directorate General of Shipping, Mumbai, it is now mandatory for all the candidates to qualify in Entrance Test (OPENNET) conducted by IGNOU to seek admission in B.Sc. (Nautical Science) programme of IGNOU-DGS, irrespective of whether their candidature is sponsored by a Shipping Company or not. However, one more time relaxation of qualifying in the Entrance

Test for admission for February 2008 Batch has been granted for candidates sponsored by employing Shipping Companies.

7.14 Fees once paid to IGNOU will not be refunded.

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## 8. EVALUATION SYSTEM FOR PROGRAMME

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The salient features of the evaluation scheme for different courses under the programme are given in Table 8.1 for the 1<sup>st</sup> and 2<sup>nd</sup> Semesters and Table 8.2 for the remaining semesters. There is different pass percentage required for different courses as may be noted from these tables. It is compulsory to submit all the prescribed assignments.

A student will receive marks for Continuous Evaluation part as well as for Term End Examination part for each theory courses. To clear a course, a student will have to clear both the components of evaluation separately. Similarly, for laboratory course, one has to clear the guided and unguided components separately.

### 8.1 Assignments

Assignments constitute the continuous evaluation components of a course. The marks that you get in your Continuous Evaluation Components will be counted in your final result. Therefore, you are advised to take your Continuous Evaluation Components seriously.

**More specifically, you have to attempt the assignments compulsorily. You will not be allowed to appear for the term-end examination for a course if you do not submit all assignments in time for that course.**

The main purpose of assignments is to test your comprehension of the learning material you receive from us and also to help you get through the courses by providing feedback to you. The information given in the written course material should be sufficient for answering the assignments. The course co-ordinators should however encourage the cadets and make available to them extra reading material and the facility of internet, so that the students have a wider concept of the subject matter.

Whenever you receive a set of assignments, check them immediately and ask for missing pages, if any, from **Registrar, Material Production & Distribution Division, IGNOU, Maidan Garhi, N. Delhi – 110068** or the Coordinator of your Study Center (**Proforma- III**).

The assignment responses should be complete in all respects. Before submission you should ensure that you have answered all the questions in all assignments. Incomplete answer sheets bring you poor grades.

Read the assignments carefully and follow the specific instructions, if any, given on the assignments itself.

Go through the units on which assignments are based. Make some points regarding the question, rearrange those points in a logical order and draw up a rough outline of your answer. While answering an essay type question, give adequate attention to introduction and conclusion. The introduction must offer your brief interpretation of the question and how you propose to develop it. The conclusion must summarise your response to your question. Make sure that the answer is logical and coherent, and has clear connections between sentences and paragraphs. The answer should be relevant to the question given in the assignment. Make sure that you have attempted all the main points of the question. Once you are satisfied with your answer, write down the final version neatly and underlining the points you wish to emphasise. While solving numerical, use proper units and give working notes wherever necessary.

Use only foolscap size paper for your response and tie all the pages carefully. Avoid using very thin paper. Allow a 4 cm margin on the left and at least 4 lines in between each answer. This may facilitate the evaluator to write useful comments on the margins at appropriate places.

Write the responses in your own hand. Do not print or type the answers. Do not reproduce your answers from the units sent to you by the University. Evaluators/co-coordinators shall

discourage the students from reproducing their TMA answers from the learning material, by giving them poor marks.

Do not copy from the response sheets of other students. If copying is noticed, the assignments of such students are to be rejected.

Write each assignment separately. All answers in the assignments should be written in continuity.

Write the respective question number with each answer.

**Note:** The course counsellor are authorised to award ZERO marks or reduced marks at his/her discretion in assignment(s) in case it is noted that that you have simply copied your assignment(s)

**The completed assignment should be submitted at the allotted Training Institute.** Under no circumstances you should send the tutor marked response sheets to the Evaluation Division at Headquarters for evaluation.

### **INSTRUCTIONS FOR DOING ASSIGNMENTS**

- (1) Read instructions for submission of assignments given in your Programme Guide carefully.
- (2) Assignments should be demanded only, if your registration for that course (Subject) is valid.
- (3) Please ensure that you have mentioned your correct Enrolment No. (it consists of 9 digits), Name, Course Code/Title, Name of Semester/Year, wherever applicable and Study Centre on your assignments responses before submitting it to the concerned authorities.
- (4) Submission of assignments within due dates is a prerequisite for appearing in the term-end-examination. You are, therefore, advised to submit your TMAs at your Study Centre and CMAs to the Registrar (SRED), IGNOU, Maidan Garhi, New Delhi – 110 068, within the prescribed dates. Assignments received after due dates will be summarily rejected.
- (5) You can appear in term-end-examination or submit only minimum required of assignments if you fail to secure over-all qualifying grade in a course (subject).
- (6) Assignments should not be demanded to improve your score if you have secured minimum qualifying score in a course (subject).
- (7) Please do not submit your assignment responses twice either at the same Study Centre or at different Study Centres for evaluation.

### **8.2 Term-end-Examination**

As stated earlier, term-end examination is another component of the evaluation system. The University conducts term-end examinations twice a year, i.e. in June and December. You can take the examination after the completion of the study of a course.

**To be eligible to appear in the term-end examination in any course in a given semester, you are required to fulfil the following conditions:**

- You should have submitted the prescribed assignments for the respective courses.
- You should have submitted the examination form in time (which is explained later).

It is an essential prerequisite for you to submit the **Examination Form** (Given in this Handbook as Proforma-IV) for taking examination in any course. Copies of the examination forms are available at your Training Institute/Regional Centres/SRE&D at Headquarters. Examination forms can also be filled online. The prescribed examination fee can also be paid

online using credit/debit card. The format of Examination form may undergo changes from time to time.

You can take photocopy of this form and use it. Only one form is to be submitted for all the course/course-topic in one term-end examination. **The format of examination form may undergo changes time to time.** The fees for Term end examination is Rs.50/- per course besides any applicable late fee (Please see the latest available examination form at your Training Institute. The examination fees and or late fee are subject to revision from time to time). Keep visiting [www.ignou.ac.in](http://www.ignou.ac.in) for any latest update on examination and other matters.

After receiving the examination form, the University will send **intimation slip** to you at your Training Institute before the commencement of examinations. If your name is registered for examinations in the list sent to the Examination Centre, even if you have not received intimation slips or misplaced the intimation slip, you can take the examination by showing your Identity Card (Student Card) to the Examination Centre Superintendent.

**Be careful in writing your Enrolment Number correctly on the answer script. Any mistake in writing the Enrolment Number may result in non-declaration of your result.**

It is your duty to check whether you are registered for particular course(s) and eligible to appear for the examination or not. If you neglect this and take the examination without being eligible for it, your result may be cancelled by the SRED.

The Training Institute is the contact point for you. The University cannot send communications to all the students individually. All the important communications are sent to the Coordinator of your Training Institute who is generally the Captain. Superintendents of your Training Institute who would display a copy of such important circular/notification on the notice board of the Institute.

While communicating with the University regarding examination or any other matter, please clearly write your enrolment number, name and code of your Study Centre (Training Institute) and complete address of yours. If possible also mention your e-mail address and other telephone contact details to expedite information flow. In the absence of such details, IGNOU may not be able to attend to your problems.

**Properly filled-in examination form is to be submitted to the Registrar (Student Registration and Evaluation), Indira Gandhi National Open University, Maidan Garhi, New Delhi – 110 068. The last date for submission of examination forms is generally 31<sup>st</sup> March for the examinations to be held in June and 30<sup>th</sup> September for examinations to be held in December. However, examination forms may also be submitted within 20 days of last date, i.e. 20<sup>th</sup> April and 20<sup>th</sup> October for June and December examinations respectively with a late fee payable with the form. Examinations forms received at the Headquarters after the last date with late fee shall be rejected. For latest details please visit [www.ignou.ac.in](http://www.ignou.ac.in).**

**Table 8.1: Evaluation Scheme for B.Sc. (Nautical Science) Semesters I & II**

Course Code	Course Title	Pass % in individual components of continuous assessment as well as TEE	Weightage		Term End Exam	
			Cont. Assessment	T.E.E.	Duration	Max. Marks
<b>Semester I</b>						
BNA 011	Applied Mathematics	40	30%	70%	2 hrs.	70
BNA 012	Applied Science	40	30%	70%	2 hrs.	70
BNA 013	Applied Electricity & Electronics	40	30%	70%	2 hrs.	70
BNA 014	Navigation-I: Terrestrial & Celestial	70	30%	70%	3 hrs.	70
BNA 015	Navigation-II: Bridge Equipment, Watch Keeping, Meteorology & Oceanography	50	30%	70%	2 hrs.	70
BNA 016	Cargo Handling, Stowage & Seamanship-I	50	30%	70%	2 hrs.	70
BNA 017	English & Human Factors	40	Nil	100%	2 hrs.	100
BNAL-011	Applied Sciences Laboratory	50	70%	30%	2 hrs.	30
BNAL-012	Computer Laboratory	50	70%	30%	2 hrs.	30
BNAL-013	Workshop Practices	50	70%	30%	2 hrs.	30
<b>Semester II</b>						
BNA 021	Navigation-III: Navigation and Chart Work	70	30%	70%	3 hrs.	70
BNA 022	Navigation-IV: Advanced Bridge Equipment, Watch Keeping, Meteorology & Oceanography	50	30%	70%	2 hrs.	70
BNA 023	Cargo Handling, Stowage & Seamanship-II	50	30%	70%	2 hrs.	70
BNA 024	Ship Operations	50	30%	70%	2 hrs.	70
BNA 025	Maritime History and Commerce	40	Nil	100%	2 hrs.	100
BNAL-021	Computer Applications Laboratory	50	70%	30%	2 hrs.	30
BNAL-022	Workshop Practices and Seamanship Laboratory	50	70%	30%	2 hrs.	30
BNAP-021	Project	50	50% (Report Work)	50% (Viva)	2 hrs.	30

**Table 8.2: Evaluation Scheme for B.Sc. (Nautical Science) Semesters III, IV, V & VI**

Semester	Course Code	Subject	Duration of TEE	Credits	Term-end exam (Whether Theory or Practical)	Maximum Marks		Passing Marks (In Term End Evaluation & Continuous Evaluation Assessment separately)	
						Term End Evaluation (Through Term-end exam/ External Practical Exam)	Continuous Evaluation (Through assignment)		
III <sup>rd</sup> Semester	BNA 031	Ship Safety & Security	3 hours	4	Theory	70	30	50 %	
	BNAL 031	Practical Navigation-I		4	Practical	30	70	50%	
	BNAL 032	Practical Cargo Handling, Stowage & Seamanship-I		4	Practical	30	70	50%	
	BNAL 033	Practical Ship Operation I		4	Practical	30	70	50%	
	BNAL 034	Practical Bridge Watch keeping - I		2	Practical		100	70%	
	BNA 041	Navigational Aids & Environmental Protection	3 hours	4	Theory	70	30	50 %	
IV <sup>th</sup> Semester	BNAL 041	Practical Navigation-II		4	Practical	30	70	50%	
	BNAL 042	Practical Cargo Handling, Stowage & Seamanship II		4	Practical	30	70	50%	
	BNAL 043	Practical Ship Operation -II		4	Practical	30	70	50%	
	BNAL 044	Practical Bridge Watch keeping - II		2			100	70%	
	BNA 051	Ship Manoeuvring & Future Issues	3 hours	4	Theory	70	30	50 %	
	BNAL 051	Practical Navigation- III		4	Practical	30	70	50%	
V <sup>th</sup> Semester	BNAL 052	Practical Cargo Handling, Stowage & Seamanship - III		4	Practical	30	70	50%	
	BNAL 053	Practical Ship Operation- III		4	Practical	30	70	50%	
	BNAL 054	Practical Bridge Watch keeping - III		2	Practical		100	70%	
	Total Credits in III <sup>rd</sup> , IV <sup>th</sup> and V <sup>th</sup> Semesters			54					
	VI <sup>th</sup> Semester	<b>20 credits will be taken care of by DG Shipping and will be transferred to IGNOU</b>							
		The Practical examination for III <sup>rd</sup> , IV <sup>th</sup> and V <sup>th</sup> Semesters will be conducted along with examination of VI <sup>th</sup> Semester by the Directorate General of Shipping.							

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## 9. ONLINE INFORMATION

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### IGNOU Website

Keep visiting our website [www.ignou.ac.in](http://www.ignou.ac.in) regularly for information related to the academic programmes on offer, various Schools/Divisions/Cells of the University, objectives and goals of the University, Date Sheet of the TEE, Online Registration for Examination, Assignments of Management Programmes, Schedule of Gyan Darshan etc. In order to get the latest information about our Regional Centres and Study Centres, please go to the link Regional Services Division. The site also gives you School-wise list of academics and officers dealing with distribution of study materials and student support services. The News section on the website gives latest update on the happening at the University. University publications like the Newsletter, University Profile and Open Channel are also available on the site.

### ON-line Filling of Term-End Examination Form

**Step 1 :** Access IGNOU website [www.ignou.ac.in](http://www.ignou.ac.in)

**Step 2 :** Click 'Examination Form' on the Home Page. The Examination Form will appear on the screen.

**Step 3 :** Fill in the form by taking the cursor to the relevant box(es) and clicking it.

**Step 4 :** Click 'Submit' to submit the Examination Form. It will automatically display a Control Number which you must quote for future reference/query.

**Step 5:** Pay the examination fee as directed

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## 10. PROGRAMME STRUCTURE (COURSE DETAILS)

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### FIRST SEMESTER

#### BNA- 011: Applied Mathematics

Course Details : (2 Credits, 3 Blocks, 9 Units)

##### Block 1 : Algebra & Probability

Unit 1 : Algebra

Unit 2 : Vectors

Unit 3 : Statistics and Probability

##### Block 2 : Solid Geometry

Unit 4 : Co-ordinate Geometry

Unit 5 : 3-Dimensional Geometry

Unit 6 : Spherical Trigonometry

##### Block 3 : Calculus

Unit 7 : Differential Calculus

Unit 8 : Integrated Calculus

Unit 9 : Differential Equations

#### BNA-012: Applied Science

Course Details : (2 Credits, 2 Blocks, 8 Units)

##### Block 1 : Physics

Unit 1 : Mechanics

Unit 2 : Heat

Unit 3 : Oscillations

Unit 4 : Sound

Unit 5 : Light

**Block 2 : Chemistry**

Unit 6 : Physical Chemistry

Unit 7 : Inorganic Chemistry

Unit 8 : Organic Chemistry

**BNA-013: Applied Electricity and Electronics**

Course Details : (2 Credits, 2 Blocks, 7 Units)

**Block 1 : Electricity**

Unit 1 : Current and Static Electricity

Unit 2 : Current Electricity and its Effects

Unit 3 : Measurement of Electrical Quantities

**Block 2 : Electronics**

Unit 4 : Basic Electronics

Unit 5 : Transistors

Unit 6: Transmitters

Unit 7 : Radar

**BNA-014: Navigation-I: Terrestrial & Celestial**

Course Details : (2 Credits, 3 Blocks, 12 Units)

**Block 1 : Terrestrial Navigation**

Unit 1 : Earth

Unit 2 : Parallel and Plane Sailings

Unit 3 : Mercator Sailing

Unit 4 : Dead Reckoning and Days Work

**Block 2 : Celestial Navigation**

Unit 5 : Concepts of Time and Nautical Almanac

Unit 6 : Celestial Sphere and Equinoctial System of Coordinates

Unit 7 : Daily Motion and Horizon System of Coordinates

Unit 8 : Sextant and Altitude Correction

Unit 9 : Amplitude & Azimuth

**Block 3 : Practical Navigation**

Unit 10 : Chart Work

Unit 11 : Position Lines and Positions

Unit 12 : Chart Work Exercises

**BNA- 015: Navigation-II: Bridge Equipment, Watch Keeping, Meteorology & Oceanography**

Course Details : (2 Credits, 2 Blocks, 6 Units)

**Block 1 : Bridge Equipment and Watch Keeping and Collision Prevention**

Unit 1 : Navigational Aids

Unit 2 : Collision Prevention

Unit 3 : Lights Shapes and Sound Signals

**Block 2 : Meteorology and Oceanography**

Unit 4: Meteorology

Unit 5 : Physical Properties of Sea Water

Unit 6 : The Energy Budget of the Oceans

### **BNA-016: Cargo Handling, Stowage and Seamanship-I**

Course Details : (2 Credits, 3 Blocks, 13 Units)

#### **Block 1 : Cargo Handling and Stowage**

Unit 1 : Categories of Cargo and Types of Ships

Unit 2 : Principles of Cargo Work and Port Watch Keeping

Unit 3 : Loading of Cargo and Cargo Regulations

Unit 4 : Care of Cargo Onboard Ship and Documentation

#### **Block 2 : Seamanship and Deck Work**

Unit 5 : Rope Work

Unit 6 : Blocks Purchases and Lifting Appliances

Unit 7 : Corrosion Sign and its Prevention

Unit 8 : Safe Working Practice

#### **Block 3 : Ship Operations**

Unit 9 : Ship Construction-I

Unit 10 : Ship Construction-II

Unit 11 : Displacement

Unit 12 : Buoyancy

Unit 13: Statical Stability

### **BNAL-011: Applied Sciences laboratory**

Course Details : (2 Credits, 1 Block)

#### ➤ **Chemistry Lab Manual**

Determination of Melting point and Boiling Point of Given Substance –

- Determination of hardness of water.
- Volumetric titration
- Determination of pH of the solution using pH meter.
- Fuel Test to determine Viscosity, Density, Water Content, Carbon residue, etc.
- Cooling water test for BOD, Chloride content, etc.
- Determination of the dosage of bleaching powder required for sterilization or disinfections of different samples of water.
- Preparation of acetylene and study of its acidic character.
- Effect of metal coupling on rusting of iron.
- Flash point test – open cup and closed cup.
- Corrosion inhibitor test
- Desalination of saline water

#### ➤ **Physics Lab Manual**

- Use of Vernier Callipers, Screw Gauge, etc., to measure fundamental quantities
- To determine the moment of inertia of a flywheel about its own axis of rotation
- To determine the sp. Heat of a liquid by the method of cooling
- Determination of moisture content of different cargoes
- Determination of angle of repose of different cargoes
- Determination of velocity of sound in water using echo-sounder
- Usage of velocity of sound in water for Doppler effect and determination of speed in water
- Measurement of rate of flow of a liquid through a pipe using VENTURIMETER
- Determination of surface tension of liquid by capillary rise method

- Determination of coefficient of viscosity of a liquid by Stoke's method
- Determination of magnetic elements
- Determination of height of a distant object using Sextant
- Determination of focal length of a combination of two convergent lenses separated by a distance

➤ **Electronics Lab Manual**

**BNAL-012: Computer Laboratory**

Course Details : (2 Credits, 1Block)

- Basic Hardware Familiarisation
- MS-Word Main Features
- MS-Excel
- Use of Other Windows Applications

**BNAL-013: Workshop Practices**

Course Details : (2 Credits, 2 Blocks, 8 Units)

**Block 1 : Hydraulic and Pneumatics**

Unit 1 : Hydraulics

Unit 2 : Pneumatics

Unit 3 : Application to Ship

**Block 2 : Other Workshops**

Unit 4 : Fitting Workshop

Unit 5 : Welding Shop

Unit 6 : Electrical Shop

Unit 7: Plumbing Shop

Unit 8 : Carpentry Shop

**BNA-017: English & Human Factors**

Course Details : (Qualifying Paper, 1 Block, 11 Units)

**Block 1 : English & Human Factors**

Unit 1 : Introduction

Unit 2 : Preparation for Sea

Unit 3 : Sending Across Formal Messages through Notices and Circulars

Unit 4 : Introduction to the Industry Special Needs of the Industry

Unit 5 : Introduction to Human Factors

Unit 6 : Communication

Unit 7 : Interpersonal Relationship

Unit 8 : Team Work

Unit 9 : Developing a Positive Attitude

Unit 10 : Organisational Behaviour

Unit 11 : Hygiene and Physical Fitness

## SECOND SEMESTER

### **BNA-021: Navigation-III : Navigation and Chart Work**

Course Details : (2 Credits, 2 Blocks, 6 Units)

#### **Block 1 : Navigation**

Unit 1 : Solar System

Unit 2 : Time

Unit 3 : Position Fixing

#### **Block 2 : Chart Work**

Unit 4 : Voyage Planning

Unit 5 : ECDIS

Unit 6 : TIDES

### **BNA-022: Navigation-IV: Advanced Bridge Equipment, Watch Keeping, Meteorology & Oceanography**

Course Details : (2 Credits, 2 Blocks, 9 Units)

#### **Block 1 : Bridge Equipment and Watch Keeping**

Unit 1 : Bridge Equipment and Navigational Aids

Unit 2 : Bridge Team Work and Management

Unit 3 : Watch Keeping Principles and Duties

Unit 4 : Collision, Safe Speed and Remedies

Unit 5 : Narrow Channels and Traffic Separation Schemes

#### **Block 2 : Environmental Science-II**

Unit 6 : Condensation and Precipitation

Unit 7 : Tropical Storms

Unit 8 : Weather Reporting

Unit 9 : Oceanography

### **BNA-023: Cargo Handling, Stowage and Seamanship-II**

Course Details : (2 Credits, 2 Blocks, 8 Units)

#### **Block 1 : Cargo Handling and Care**

Unit 1 : Cargo Pumps and Piping Systems

Unit 2 : Gas and Chemical Tankers

Unit 3 : Containerized Cargoes

Unit 4 : Special Bulk Cargoes

Unit 5 : Multipurpose Ships

#### **Block 2: More Seamanship and Deck Work**

Unit 6: Tackles and Purchases

Unit 7 : Anchors and Anchor Work

Unit 8 : Safe Working Practices

### **BNA-024: Ship Operations**

Course Details : (4 Credits, 4 Blocks, 17 Units)

#### **Block 1 : Ship Construction and Stability**

Unit 1 : Hull Structures and Ship Plans

Unit 2 : Ship Stresses

- Unit 3 : Fittings
- Unit 4 : Statical Stability
- Unit 5 : List and Trim
- Unit 6 : Rudders and Propellers

**Block 2 : Environmental Protection**

- Unit 7 : Marpol 73/78
- Unit 8 : SAR and Emergency Drills
- Unit 9 : Maritime Law

**Block 3 : Basic Marine Engineering and Drawing**

- Unit 10 : Engine Room Layout
- Unit 11 : Electrical and other Equipment
- Unit 12 : Propeller and Bow Thruster
- Unit 13 : Maintenance and Machine Drawing

**Block 4 : Communication Skills**

- Unit 14 : Signalling by Morse Code
- Unit 15 : International Code of Signals
- Unit 16 : Global Maritime Distress and Safety System
- Unit 17 : Concepts of GMDSS

**BNA-025: Maritime History & Commerce**

Course Details : (Qualifying Paper, 1 Block, 2 Units)

**Block 1 : Maritime History & Commerce**

- Unit 1 : Maritime History
- Unit 2 : Maritime Commerce

**BNAL-021: Computer Applications Laboratory**

Course Details : (2 Credits, 1 Block, 4 Units)

**Block 1 : Computer Application**

- Unit 1 : DBMS
- Unit 2 : Networks
- Unit 3 : Advanced Word Processing Section
- Unit 4 : Ship Board Application

**BNAL-022: Workshop Practices and Seamanship laboratory**

Course Details : (4 Credits, 3 Blocks, 10 Units)

**Block 1 : Diesel Maintenance Shop**

- Unit 1 : Demonstration of Use of Tools
- Unit 2 : Dismantling and Assembling Engine
- Unit 3 : Opening of Heat Exchanger, Cleaning, Repair and Plug Tubes
- Unit 4 : Dismantling and Assembling of Different Auxiliaries

**Block 2 : Seamanship**

- Unit 5 : Whippings and Splices
- Unit 6 : Throwing Heaving Lines Rope and Chain Stoppers  
(Bosun's Chair and Staging)
- Unit 7 : Types of Paints and Painting Procedures

**Block 3 : Welding**

Unit 8 : Welding Equipment

Unit 9 : Different Types of Welding Techniques

Unit 10 : Safety Measures

**BNAP-021: Project**

Course Details : (2 Credits)

**THIRD SEMESTER**

**BNA-031: Ship Safety & Security**

Course Details : (4 Credits, 2 Blocks, 11 Units)

**Block 1 : Watch Keeping & Procedures**

Unit 1 : Masters Standing Orders

Unit 2 : Bridge Procedures

Unit 3 : Weather Routing

Unit 4 : Navigation, Safe Practices

**Block 2 : Safety and Security**

Unit 5 : Risk Analysis

Unit 6 : ISPS-I

Unit 7 : ISPS-II

Unit 8 : ISPS-III

Unit 9 : Safety General

Unit 10 : Safety Deck Operation

Unit 11 : Safety Miscellaneous Operations

**BNAL - 031: Practical Navigation-I**

**BNAL - 032: Practical Cargo Handling, Stowage & Seamanship-I**

**BNAL- 033: Practical Ship Operations-I**

**BNAL- 034: Practical Bridge Watch Keeping-I**

**FOURTH SEMESTER**

**BNA-041: Navigational Aids and Environmental Protection**

Course Details : (4 Credits, 3 Blocks, 13 Units)

**Block 1 : Navigational System and Equipment**

Unit 1 : Automatic Identification System

Unit 2 : Speed Measurement at Ship

Unit 3 : Radar for Navigation

Unit 4 : Navigation by ARPA

Unit 5 : Electronic Aids

**Block 2 : Environmental Protection**

Unit 6 : Paint Technology

Unit 7 : Ballast Water and Sediment Management

Unit 8 : Marpol Annexure IV

Unit 9 : Marpol Annexure VI – Paper I

Unit 10 : Marpol Annexure VI – Paper II

**Block 3 : Emergencies & Safety**

Unit 11 : Search & Rescue

Unit 12 : Ship Reporting System

Unit 13 : Contingency Planning

Unit 11 : Safety Miscellaneous Operations

**BNAL - 041: Practical Navigation-II**

**BNAL - 042: Practical Cargo Handling, Stowage & Seamanship-II**

**BNAL- 043: Practical Ship Operations-II**

**BNAL- 044: Practical Bridge Watch Keeping-II**

**FIFTH SEMESTER**

**BNA-051: Ship Manoeuvring & Future Issue**

Course Details : (4 Credits, 3 Blocks, 13 Units)

**Block 1 : Manoeuvring**

Unit 1 : Ship Manoeuvring, Ship Propulsion and Control

Unit 2 : Ship Hydrodynamics and Hull Designing

Unit 3 : Manoeuvring in Shallow Water

Unit 4 : Types and Towing

**Block 2 : Marine Insurance**

Unit 5 : Marine Insurances

Unit 6 : Vetting Inspection

**Block 3 : Future Issues**

Unit 7 : Pure Car Carrier

Unit 8 : Sea Trials & Miss. Topics

Unit 9 : Ship's Business

Unit 10 : Container Handling

Unit 11 : Anti Fowling Points

Unit 12 : Double Hulls, Places of Refuge, Fuel Conservation , Green Passport

Unit 13 : Safety Miscellaneous Operations

**BNAL - 031: Practical Navigation-III**

**BNAL - 032: Practical Cargo Handling, Stowage & Seamanship-III**

**BNAL- 033: Practical Ship Operations-III**

**BNAL- 034: Practical Bridge Watch Keeping-III**

**SIXTH SEMESTER**

The syllabus for the Sixth Semester is available from the Directorate General of Shipping. A summary of the same is briefly given in Table 4.7.

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## **11. SOME USEFUL PROFORMA**

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Following are the Proforma presented in next few pages (From Page No. ?? to ??) which are useful after taking admission in Engineering Programme for the purposes mentioned in the booklet.

PROFORMA-I	:	Student Services Centre
PROFORMA-II	:	Sample of Change/Correction of Address
PROFORMA-III	:	Requisition for Fresh set of Assignment
PROFORMA-IV	:	Term-End-Examination Form
PROFORMA-V	:	Sample of Card for Non-receipt of Materials

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**PROFORMA - I**

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**Indira Gandhi National Open University  
STUDENT SERVICES CENTRE**

C. No. \_\_\_\_\_

Date : \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Programme : \_\_\_\_\_ Enrolment No. : \_\_\_\_\_ Semester/Year : \_\_\_\_\_

**ISSUES/GRIEVANCES (Please put tick mark)**

**MPDD**

- (1) \_\_\_\_\_ Non-receipt of study material/assignment.
- (2) \_\_\_\_\_ Remaining study material.
- (3) \_\_\_\_\_ Change of block(s).

**SCHOOL OF STUDIES (.....)**

- (1) \_\_\_\_\_ Synopsis approval.
- (2) \_\_\_\_\_ Submission of project.
- (3) \_\_\_\_\_ Academic matters.

**RSD**

- (1) \_\_\_\_\_ Enquiry pertaining of study centre/regional centre.
- (2) \_\_\_\_\_ Change of regional centre/study centre.
- (3) \_\_\_\_\_

**Referred to :**

**Dealing Assistant**

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**PROFORMA - II**

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**Indira Gandhi National Open University****SAMPLE FOR CHANGE/CORRECTION OF ADDRESS**

(Available at Your Study Centre)

**CHANGE/CORRECTION  
OF RESIDENTIAL  
ADDRESS  
AND STUDY CENTRE**

If you change your address, please complete the attached card, using BLOCK CAPITALS and indicating :

Programme of Study :

Enrolment No. :

Name :

New or Corrected Address including PIN Code :

Date of Change :

The card should be signed, dated and posted at the address printed overleaf.

**CHANGE/CORRECTION OF RESIDENTIAL  
ADDRESS AND STUDY CENTRE**

All correspondence to me, please be sent at the following address and the change of Study Centre kindly be recorded:

Enrolment No. : \_\_\_\_\_ Date change effective from \_\_\_\_\_

Dr./Shri/Smt./.... Name : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Town/State \_\_\_\_\_ PIN \_\_\_\_\_

Programme of Study \_\_\_\_\_

New Study Centre Code \_\_\_\_\_

Signature : \_\_\_\_\_ Date ; \_\_\_\_\_

**Note :**

- (1) For change/correction of address please send it to the concerned Regional Director
- (2) For change of study centre, please send it to Regional Director of the concerned Regional Centre.

**Note:**

Change of Study Centre/Training Institute is not permitted for the B.Sc. (Nautical Science) Programme.

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**PROFORMA - III**

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**Indira Gandhi National Open University**  
**REQUISITION FOR FRESH SET OF ASSIGNMENTS**

Programme of Study :

Enrolment No. :

Study Centre Code :

NAME : Shri/Smt./Km. \_\_\_\_\_

(Write in BLOCK CAPITAL LETTERS only).

Please indicate course code, assignment code and course title for which you need the assignments in the following columns. The assignments of the Course which you have already passed should not be mentioned.

Sl. No.	Course Code	Assignment Code	Course Title
1			
2			
3			
4			

**REASONS FOR REQUEST FOR FRESH SET OF ASSIGNMENTS**

(Tick (√) whichever is applicable)

- (1) Assignments not received at all earlier.
- (2) Assignments were received after the due dates prescribed for their submission.
- (3) Assignments submitted but could not secure minimum qualifying score.
- (4) Assignments submitted earlier but misplaced at Study Centre/Post/HQ.
- (5) Assignments responses submitted after due dates were rejected by the Study Centre.
- (6) Failed to secure over-all qualifying grade in course(s) mentioned above and wish to improve over-all qualifying grade only by attempting one assignment.

Complete Address : \_\_\_\_\_ Signature: \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_

Pin: \_\_\_\_\_

**For Office Use Only**

Date of Despatch of Assignments to the student \_\_\_\_\_ Initials : \_\_\_\_\_

Please mail this form to :

**The Registrar (MPDD)**  
**Indira Gandhi National Open University**  
**Maidan Garhi, New Delhi – 110 068**



### DECLARATION

I hereby affirm that I have submitted/will submit all the required number of assignments as applicable for the above course(s) within the deadlines prescribed by the University to the appropriate authority for evaluation. I also affirm that my registration for the above course(s) is valid and not time barred. If any of my above statements are found to be untrue, I will have no claim for taking examination. I undertake that I shall abide by the rules and regulations of the University.

Date: \_\_\_\_\_

(Signature of the Student)

#### Dated for Submission of Exam Forms

FOR JUNE TEE	LATE FEE	FOR DEC TEE	LATE FEE
1 March to 31 March	NIL	1 Sept to 30 Sept.	NIL
1 April to 20 April	Rs. 100/-	1 Oct to 20 Oct.	Rs. 100/-
21 April to 15 May*	Rs. 500/-	21 Oct to 15 Nov*	Rs. 500/-
16 May to 28 May*	Rs. 1000/-	16 Nov to 28 Nov*	Rs. 1000/-

\* During these dates submit the examination form with late fee to concerned Regional Centre (For outside Delhi); For Delhi, submit to the Registrar (SRE),  
Exam for these students will be conducted at Regional Centre city only.

Please submit the examination form up to 20th April / 20th Oct at the address metioned below and no where else by Regd. Post / Speed Post

THE REGISTRAR (SRE)  
INDIRA GANDHI NATIONAL OPEN UNIVERSITY,  
BLOCK-12, MAIDAN GARHI,  
NEW DELHI - 110068

### INSTRUCTIONS FOR FILLING UP THE EXAM FORM

1. Please send the examination form by Registered Post/Speed post and retain the proof of its mailing till you receive the Hall Ticket.
2. Students should submit the examination form only once for each Term-end Examination.
3. Examination fee @ Rs. 50/- per course in the form of demand draft drawn in favour of IGNOU and payable at New Delhi is required to be sent along with the Examination Form.
4. It is advisable that students fill-up the examination form without waiting for the result of the previous examination. No Examination fee is required to be paid for the courses for which the student appeared in the preceding TEE and the result has not been declared on the date of submission of the Examination form.
5. Term-end Examination result is also available on the university website i.e., [www.ignou.ac.in](http://www.ignou.ac.in). Please see the result status before filling examination form.
6. If you fail to receive Examination Intimation Slip one week before commencement of examination, you may visit our website [www.ignou.ac.in](http://www.ignou.ac.in) and download Hall Ticket and report to Examination Centre with your Identity Card.
7. Normally the Study Centre is the Examination Centre. In case you wish to take examination at a particular centre, the code of your chosen centre be filled up as Examination Centre Code. However, if Examination Centre chosen by you is not activated, you will be allotted another Examination Centre under the same Region.
8. Change of Examination Centre, once allotted, is not permissible under any circumstances.
9. Please write correct course code(s) as indicated in your Programme Guide, failing which the course(s) will not be included in Hall Ticket for taking examination. (For example ECO-01/MS-02.)
10. In case wrong/invalid course code is mentioned in examination form, the course will not be included in the Hall Ticket and the examination fee paid will not be refunded.

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**PROFORMA - V**

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**Indira Gandhi National Open University**  
**SAMPLE OF CARD FOR NON-RECEIPT OF MATERIALS**

(Available at Your Study Centre)

**Intimation of Non-receipt of Study Material/Assignment**

Enrolment No. \_\_\_\_\_ Programme : \_\_\_\_\_

Sir,

I have not received the Study Material/Assignment in respect of the following :

Sl. No.	Course Code	Course Topic(s)	Block No.
1			
2			
3			
4			

**Assignment No. :** \_\_\_\_\_

I have remitted all the dues towards Course Fee and there is NO CHANGE in my address given on the reverse. Kindly make arrangements for the despatch of the same at your earliest.

Yours faithfully

Date : \_\_\_\_\_

Signature: \_\_\_\_\_

From

Name : \_\_\_\_\_

Enrolment No. \_\_\_\_\_

Programme Code. \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

PIN : \_\_\_\_\_

To

Registrar,  
Material Production and Distribution Division (MPDD)  
Indira Gandhi National Open University  
Maidan Garhi, New Delhi – 110 068