

INSTITUTE OF MARITIME STUDIES

UNIVERSITY OF NIGERIA

ENUGU CAMPUS

POST GRADUATE DIPLOMA (PGD)

AND

MASTER OF SCIENCE (M.Sc.) PROGRAMMES

IN

MARITIME BUSINESS & INTERNATIONAL LOGISTICS

MARITIME BUSINESS MANAGEMENT

MARITIME REGULATION STUDIES, LAW & POLICY

MARITIME TELECOMMUNICATIONS

2015

UNIVERSITY OF NIGERIA, ENUGU CAMPUS

PGD, AND M.Sc. PROGRAMMES OF THE INSTITUTE OF MARITIME STUDIES

1.1. PHILOSOPHY

Maritime Studies is an interdisciplinary academic field that embraces the liberal arts and the sciences as the foundation for exploring humankind's critical and continually evolving connections with the world's waterways and watersheds. It encompasses the liberal arts in recognized humanities and social science disciplines such as History, English, Philosophy, Geography, Economics, Political Science and Anthropology and highlights the social and cultural side of the human/water relationship as well as recognizes and explores the links between human activities and the composition and condition of the coastal and marine environments. The Philosophy of the Maritime Institute therefore is to provide holistic education that will enable graduates develop their concept building capacities, analytical, verbal and general skills, knowledge, values and attitudes in order to be productive and responsible persons or individuals in the society. The institute recognises individual differences and seeks to encourage individuals to develop their unique capacities and talents in solving global environmental problems particularly maritime related problems. Accordingly, the institute provides inter-disciplinary postgraduate programmes on the literature, history, axiological, policy and science of the ocean and marine environment.

1.2. OBJECTIVES OF THE INSTITUTE

The Maritime industry is an aspect of the Nigerian economy that has been completely underutilised. The Institute of Maritime Studies (IMS) is a very important project that aims to build the capacity of the country to tap into the huge international maritime business. The country therefore looks upon the Institute of Maritime Studies to help her benefit from the immense resources in the international maritime business through the training of middle level manpower with capacity to manage various aspects of the maritime industry.

To this end, the objectives of the Institute of Maritime Studies in the University of Nigeria are to:

- i. Provide a centre of excellence for formal training on Maritime Studies at the postgraduate level;
- ii. Train and develop prospective academic researchers and specialists in Maritime Studies, equipping them in the process, with higher level of thinking and rare zeal for research and development in the maritime industry;
- iii. Produce manpower with capacity to manage various aspects of the maritime industry as they relate to the private and public sectors of the economy;
- iv. Expose students to the integrative and interdisciplinary nature of maritime business and international logistics, regulations, law, policy and their dynamics;
- v. Contribute in the production of manpower, who will not only assist in the creation of information and knowledge-based evidence in maritime business/logistics, regulations but also in research and research-training in the maritime industry.
- vi. Expose the graduate students to the classical and contemporary management theories and techniques needed in analyzing and proffering sustainable solutions to challenges in the maritime industry.

- vii. Provide an international medium for exchange and transfer of knowledge and an effective collaboration centre for learning in maritime studies;
- viii. Produce outstanding maritime management experts and practitioners in particular and global business managers in general.

1.3. SCOPE OF THE PROGRAMMES IN THE INSTITUTE

Programmes of the Institute emphasis Maritime studies which cut across different disciplines and human activities. As a result, the programmes adopt trans-disciplinary approaches and pedagogies. This calls for cooperation and collaboration of faculty from different knowledge areas/disciplines. The programmes cover knowledge, skills, values and attitudes developed from the Arts, Biological Sciences, Engineering, Environmental studies, Law, Management and Social Sciences. Under the Maritime Studies, programmes are designed in such a way that students can pursue a PGD or M.Sc. degree, as the case may be, in either of the following areas of specialisation, depending on their academic background:

- 1 Maritime Business and International Logistics; or
- 2 Maritime Business Management; or
- 3 Maritime Regulation Studies, Law and Policy; or
- 4 Maritime Telecommunications (Navigation, Radio and Telecommunication Systems in Maritime Studies)

1.4. EMPLOYMENT OPPORTUNITIES

Degrees and Diplomas offered by the Institute of Maritime Studies equip her graduates for employment and service in the public and private sectors. Graduates are specially equipped for jobs in such public sector areas as customs, immigrations, the navy and security services, ministries of trade, commerce and industry, ports authorities, shipbuilding and repairs, dock services, marine research institutes and the academia. Graduates should be readily employable in the private sector areas focused on maritime insurance, maritime law, shipping, port and dock services, maritime consultancies, marine related research companies, among others.

1.5. ADMISSION REQUIREMENTS: PGD and M.Sc.

Depending on area of specialisation, the following are the admission requirements in the Institute of Maritime Studies:

1. Postgraduate Diploma (PGD)

(a) Maritime Business and International Logistics and Maritime Business Management:

- (i) Graduates of the University of Nigeria or of other recognized Universities, with a minimum of third class honours degree and a minimum CGPA of 2.0 on a five-point scale.
- (ii) Holders of the Higher National Diploma (HND) in Maritime Studies and related disciplines with not less than an Upper Credit pass. Candidates with HND should have obtained credit pass in 5 subjects including English Language and Mathematics in SSCE, NECO or GCE O/L in not more than two sittings.

(b) Maritime Regulation Studies, Law & Policy

- (i) Graduates of the University of Nigeria or of other recognized Universities who have obtained the Bachelor of Laws Degree (LL.B), with a minimum of third class honours degree and a minimum CGPA of 2.0 on a five-point scale.

(ii) Graduates of the University of Nigeria or of other recognized Universities who have obtained a Bachelor's Degree in any relevant discipline with a minimum of Second Class honours and a minimum CGPA of 2.5 on a five-point scale.

(iii) Holders of the Higher National Diploma (HND) in Maritime Studies and related disciplines with not less than an Upper Credit pass. Candidates with HND should have obtained credit pass in 5 subjects including English Language, English Literature and Mathematics in SSCE, NECO or GCE O/L in not more than two sittings.

(c) Maritime Telecommunications

(i) Graduates of the University of Nigeria or of other recognized Universities with a Bachelor's Degree in Electrical or Electronic Engineering or Engineering Physics or Computer Science. Candidates must have at least a third class honours degree, with a minimum CGPA of 2.0 on a five- point scale.

(ii) Holders of the Higher National Diploma (HND) in Maritime Studies, Electrical or Electronic Engineering or Engineering Physics or Computer Science with not less than an Upper Credit pass.

(iii) In addition, all candidates must have obtained credit level pass in 5 subjects including English Language, Mathematics, Physics, and Chemistry in SSCE, NECO or GCE O/L in not more than two sittings.

2. Master's Degree (M.Sc.) Admission Requirements

(a) Maritime Business and International Logistics and Maritime Business Management:

(i) Graduates of the University of Nigeria or of other recognized Universities who have obtained a Bachelor's Degree in Accountancy, Banking, Business Administration, Economics,

Finance, Insurance, Management and Marketing with a minimum of Second Class honours and a minimum CGPA of 2.5 on a five-point scale.

(ii) Candidates with the Postgraduate Diploma in **Maritime Business and International Logistics or Maritime Business Management** of the University of Nigeria or of any recognized Institution and with not less than an Upper Credit Pass.

(b) Maritime Regulation Studies, Law & Policy

(i) Graduates of the University of Nigeria or of other recognized Universities who have obtained the Bachelor's Degree in Law (LL.B) with a minimum of Second Class honours and a minimum CGPA of 2.5 on a five-point scale.

(ii) Candidates with the Postgraduate Diploma in **Maritime Regulation Studies, Law & Policy** of the University of Nigeria or of any recognized Institution and with not less than an Upper Credit Pass.

(c) Maritime Telecommunications

(i) Graduates of the University of Nigeria or of other recognized Universities with a Bachelor's Degree in Electrical or Electronic Engineering or Engineering Physics or Computer Science. Candidates must have at least a third class honours degree, with a minimum CGPA of 2.5 on a five- point scale.

(ii) Candidates with the Postgraduate Diploma in **Maritime Telecommunications** of the University of Nigeria or of any recognized Institution and with not less than an Upper Credit Pass.

1.6. DURATION OF PROGRAMMES

A. Postgraduate Diploma Programme (PGD)

- (i) Full-time: A minimum of two (2) semesters and a maximum of four (4) semesters.
 (ii) Part-time: A minimum of four (4) Semesters and a maximum of six (6) semesters.

B. Master's Degree Programme (M.Sc.)

- (i) Full-time: A minimum of three (3) semesters and a maximum of six (6) semesters.
 (ii) Part-time: A minimum of five (5) semesters and a maximum of eight (8) semesters.

1.7. COURSE REQUIREMENTS FOR GRADUATION

A. Postgraduate Diploma (PGD)

(i) To be awarded a Postgraduate Diploma (PGD) in Maritime Business and International Logistics or Maritime Business Management or Maritime Regulation Studies, Law & Policy or Maritime Telecommunications, a candidate must have registered and passed a minimum of 30 credit units of both compulsory and elective courses as follows:

Compulsory courses -	15 units
Elective courses -	9 units
Project -	6 units
	30 units

(ii) Curriculum Specification Table for PGD

FIRST SEMESTER

3 Compulsory courses	9
2 Elective courses	6
	15

SECOND SEMESTER

2 Compulsory courses	6
1 Elective course	3
Project	6
	15

B. Master of Science (MSc)

(i) To be awarded a Master of Science (MSc) Degree in Maritime Business and International Logistics or Maritime Business Management or Maritime Regulation Studies, Law & Policy or Maritime Telecommunications, a candidate must have registered and passed a minimum of 45 credit units of both compulsory and elective courses as follows:

Compulsory courses -	30 units
Elective courses -	6 units
Seminar -	3 units
Project -	6 units
	45 units

(ii) Curriculum Specification Table for M.Sc.

FIRST SEMESTER

5 Compulsory courses	15
1 Elective course	3
	18

SECOND SEMESTER

5 Compulsory courses	15
1 Elective course	3
	18

THIRD SEMESTER

Seminar	3
Project	6
	9

1.8. STRESS AREAS

0	Fundamentals (Maritime History, Maritime Ethics, Oceanography, and Research Methodology & ICT)
1	Maritime Telecommunications
2	Maritime Law
3	Maritime Management
4	Maritime Marketing
5	Maritime Finance/Insurance
6	Maritime Accounting
7	Maritime Economics
8	Seminar
9	Project

2.0. POSTGRADUATE DIPLOMA (PGD) COURSES

(A) PGD IN MARITIME BUSINESS AND INTERNATIONAL LOGISTICS

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0501	Introduction to Oceanography and Maritime History	3
2	MST 0521	Principles of International Maritime Law	3
3	MST 0571	Introduction to Maritime Microeconomics	3
ELECTIVE COURSES (ANY TWO COURSES)			
1	MST 0533	Principles of Maritime Management and Administration	3
2	MST 0551	Maritime Insurance I	3
3	MST 0561	Principles of Accounting	3
TOTAL			15
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0502	Maritime Environmental Ethics	3
2	MST 0522	Law of Carriage of Goods by Sea	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 0552	Maritime Insurance II	3
2	MST 0554	Maritime Business Finance	3
3	MST 0538	Human Resource Management in the Maritime Industry	3
PROJECT			
	MST 0590	Project	6
TOTAL			15

(B) PGD IN MARITIME BUSINESS MANAGEMENT

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0501	Introduction to Oceanography and Maritime History	3
2	MST 0521	Principles of International Maritime Law	3
3	MST 0531	International Business Management	3
ELECTIVE COURSES (ANY TWO COURSES)			
1	MST 0551	Maritime Insurance I	3
2	MST 0533	Principles of Maritime Management and Administration	3
3	MST 0561	Principles of Accounting	3
TOTAL			15
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0502	Maritime Environmental Ethics	3
2	MST 0522	Law of Carriage of Goods by Sea	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 0552	Maritime Insurance II	3
2	MST 0538	Human Resource Management in the Maritime Industry	3
PROJECT			
	MST 0590	Project	6
TOTAL			15

(C) PGD IN MARITIME REGULATION STUDIES, LAW & POLICY

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0501	Introduction to Oceanography and Maritime History	3
2	MST 0521	Principles of International Maritime Law	3
3	MST 0523	Regulations on Shipping and Commerce	3
ELECTIVE COURSES (ANY TWO COURSES)			
1	MST 0533	Principles of Maritime Management and Administration	3
2	MST 0551	Maritime Insurance I	3
3	MST 0571	Introduction to Maritime Microeconomics	3
TOTAL			15
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0502	Maritime Environmental Ethics	3
2	MST 0522	Law of Carriage of Goods by Sea	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 0538	Human Resource Management in the Maritime Industry	3
2	MST 0552	Maritime Insurance II	3

PROJECT			
	MST 0590	Project	6
TOTAL			15

(D) PGD MARITIME TELECOMMUNICATIONS

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0501	Introduction to Oceanography and Maritime History	3
2	MST 0511	Marine Navigation I	3
3	MST 0517	Communication Principles (NUC)	3
ELECTIVE COURSES (ANY TWO COURSES)			
1	MST 0513	Microwave Engineering	3
2	MST 0515	Communication Systems	3
3	MST 0519	Data Communications	3
TOTAL			15
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 0502	Maritime Environmental Ethics	3
2	MST 0512	Marine Navigation II	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 0514	Telecommunications Engineering	3
2	MST 0516	Introduction to Radar and Navigation Systems	3
3	MST 0518	Communication Networks	3
PROJECT			
	MST 0590	Project	6
TOTAL			15

2.1. DESCRIPTION OF PGD COURSES

MST 0501 Introduction to Oceanography and Maritime History (3 units)

Description of the ocean basins and the mechanisms of their evolution; the physical and chemical properties of seawater; role of the oceans in elemental cycles, particularly the carbon cycle; ocean circulation and waves. Geology of the coastal ocean, beaches, and estuaries; biotic and physical factors structuring the oceans including global warming; coastal development. The course will also equip students with knowledge of the importance of maritime studies such as: General overview of maritime Globally Including modes of transport: Rail transport; Road transport; Pipeline and water transport. Maritime transport during the colonial period (1900-1960): characteristic of existing waterways in Nigeria; inception of dredging of waterways; development of water transport services in Nigeria. Development of shipping and Establishment of port facilities. Foundation of modern shipping in Nigeria: shipping during the world war 1- 1914 – 1918; colonial government takeover of shipping 1917-1918 in the inter- ways (1919-1939); shipping during and after the World War 2 (1939-1960). Impact of maritime transport in Nigeria and Maritime policies – Acts and policies that have shaped maritime in Nigeria. Socio- political and economic developments, crime and sea pirates impacts of maritime activities.

MST 0502 Maritime Environmental Ethics (3 units)

This course is designed to deal with ethical issues and problems as they relate to the environment, particularly the maritime environment. The course deals with issues and problems arising from the need to extend ethical thinking and moral values beyond the traditional area of the relationship between human beings to the relationship between human beings and nature, both sentient and non-sentient nature, and the question of the intrinsic value of nature. The course explores the evolution of environmental ethics, the contending perspectives, theories and practices; and the most appropriate approaches especially in relation to Nigeria.

MST 0511 Marine Navigation I (3 units)

Earth-navigation methods, Classification of navigation systems, Celestial mechanics, Principles of celestial navigation, Radio navigation systems, Lat, Lon, and nautical charts, Principles of position fixing (Lines of position, Ranges, Position fix, Estimated position, Dead reckoning, Running fix, Danger bearing, Turn bearing, Snellius construction), Sextant usage and care, Compass checks, Compass use and adjustment, Time keeping, Route planning, Daily procedures and logbooks, GNSS (GPS, GLONASS, etc), Emergency navigation techniques.

MST 0512 Marine Navigation II (3 units)

Tides and currents, Tide movements, Chart data, Marine weather Resources (Radio sources of weather, Basic principles of high and low, Weather maps and interpretation, Fronts, Squalls, Storms, and hurricanes, Global winds), Inland and coastal navigation, Ocean navigation, Depth sounding navigation, Radio navigation, High seas communication, Overview of radar principles and operation, Navigation by range and bearing, Navigation rules of the road.

MST 0513 Microwave Engineering (3 units)

Microwave devices and circuits. Variation diode, parametric amplifiers, tunnel diodes, Schottky diode. Gunn oscillators, frequency multipliers and up-converters. Microwave Theory and techniques; transmission lines and waveguides, passive microwave devices: resonators, magic tee, TWT, etc.

MST 0514 Telecommunications Engineering (3 units)

Terminal equipment: Analogue and digital. Transmission modes. Switching and switches: Space and time. Exchange stations: Private and Public. Multiplexing and De-multiplexing: Frequency (FDM) and Time (TDM). Fundamentals of channelization: Frequency (FDMA), Time (TDMA) and Code (CDMA); Spread spectrum. Public Switched Telephone Network (PSTN); Traffic and trunking; Public Switched Data Network (PSDN); Integrated Digital Network (IDN) and B-IDN. Telecommunication network numbering system and services. Mobile communications technology. Satellite systems: Earth stations, space stations and links. Fundamentals of microwave relay system and signal path estimation.

MST 0515 Communication Systems (3 units)

Telephony: Antennas and wave propagation mode. Radar systems. Satellite communication systems. Broadcasting systems (analogue and digital). Introduction to wireless communication systems. Regulations. Telecommunication systems planning.

MST 0516 Introduction to Radar and Navigation Systems (3 units)

Operation, history and applications. Radar equation. Radar range, minimum detectable signal, target indication, tracking radar, laser radar. Radar transmitters, receivers and antennas.

Propagation of radar waves. Airborne direction finders, air traffic control radar beacon, instrument low approach system, Ioran, microwave landing systems. Omega. Inmarsat.

MST 0517 Communications Principles (NUC) (3 units)

A general communications system including source, transmission channel and destination. Analogue modulation systems. AM, FM and Phase Modulation. Pulse Modulation: PAM, PWM, PPM and PCM. Introduction to Digital Modulation Techniques. Bandwidth considerations. Devices and systems for communications.

MST 0518 Communication Networks (3 units)

Network planning principles; standards. Modeling and simulation basics: Network traffics and network nodes. Queuing theory fundamentals, resources and services demand calculations; forecasting and QoS issues. Network reliability. ISO-OSI reference model. Network protocols: Specification. SS7 signaling fundamentals. Network protocol architectures basics: LAN, MAN, WAN (Internet), ISDN, B-ISDN, ATM and GSM networks: Architectures and operations.

MST 0519 Data Communications (3 units)

Introduction to data communication systems: digital signals and characters, data signals, band rate, serial and parallel data transmission. Networks and Network topology. Baseband Analysis, Modulated carrier signals (ASK, PSK, QPSK, FSK, MSK, GMSK, etc). Coherent and non-coherent detection of binary signals. Error rate comparison. International Standards. OSI model and functions of the layers. TCP/IP model and functions of the layers. Network management: Telecommunication Network Management.

MST 0521 General Principles of International Maritime Law (3 units)

This course provides an overview of the various aspects of Maritime Law. Delimitation of the relevant waters: Internal waters, the Territorial Sea and the Contiguous Zone, Harbour works and Roadsteads, International Straights and Waterways, The High Sea and the Sea-bed, the Continental Shelf. The Principle of Freedom of the Seas: Ordinary and Extra-ordinary Rights of 'Jurisdiction in time of peace, special Reference to piracy and the slave trade, coercive measures short of war; Limitations and The Sea-Bed. Uses of the High Seas and the Sea-Bed: Navigation, Fisheries, Exploitation of other Natural Resources, Scientific Research and Experiments, Disposal of radioactive waste; Naval Exercises; Pipelines, Cables, Mechanical Installations and other uses. Jurisdiction over Maritime Areas Adjacent to the Coast: The Regime of Ports and Internal Waters; The Regime of the Territorial Sea and the contiguous zone; The Regime of the Continental Shelf; The Right of Hot Pursuit; Ships in distress. Access to the Sea for States without Sea Coasts: Transit between the Sea and a State without a Sea Coast, use of Ports and the Territorial Sea of Neighbouring States; right to sail ship on the high seas. The Legal Regime of the Ship: Nationality of ships, flags of convenience, warships and other government-owned ships on Non-commercial Service, government-owned merchant ships, privately-owned merchant ships, collision, wreck and salvage, stateless ships and pirate ships. The Legal Regime of Crew, Passengers and Cargo: Jurisdiction, conditions of Labour, consular jurisdiction over seamen abroad, Functional Protection of seamen. Legal Regime of Carriage by Sea: Bills of Lading – When Issued and Their Basic Nature, Transmission of Rights under Bills of Lading, Obligations of the Carrier, Common Clauses in Bills of Lading, The Hague and the Hague Visby Rules, Defences to Maritime Claims, Package Limitation, Tonnage Limitation and Incoterms.

MST 0522 Law of Carriage of Goods by Sea (3 units)

Common and Private Carriers; The history of carrier's liability, The pendulum of liability - Harter/Hague/Hamburg to UNCITRAL/CMI draft , Hague Visby Rules -basic structure & application; F. O. R. or F. O. T., C. I. F., and F. O. B. Contracts; Charter-parties: Charter parties Generally, Time Charters, Voyage Charters, Bareboat or Demise Charters, Obligations of the Owner, Obligations of the Charterer, Common issues arising out Of Charter parties, Law to be Applied to Charter party Disputes; Bills of Lading, Waybills and non-negotiable receipts and their electronic equivalents; Consignor's obligations; Rights, Duties and Liabilities of the Carrier, Common Law and Statutory; Loading, Discharge and Delivery of Goods; The Exclusion of a Carrier's Liabilities; General Average, Demurrage and Freight; Seaworthiness, due diligence and the ISM Code – Art 3 Hague Visby Rules.

MST 0523 Regulations on Shipping and Commerce (3 units)

This course addresses the regulation of domestic shipping and foreign shipping calling at Nigerian and other major ports. The course will begin with an examination of the sources of the Federal government's power to regulate domestic shipping and the ports as well as the role of other tiers of government. Primary emphasis is on the various governmental agencies that administer domestic laws and regulations affecting shipping and commerce, with secondary emphasis on the role of international treaties and conventions. Specifically examined are the activities of agencies such as the Nigerian Navy, the Customs Service, the Immigration Service, Nigerian Maritime Administration and Safety Agency, Nigerian Shippers Council, the Nigerian Port Authorities, Pre-shipment Inspection Agency and various other agencies. Other areas addressed include vessel documentation, pilotage, vessel inspection, crew licensing, tonnage duties, hazardous materials transportation, pollution laws, wreck removal, traffic regulation schemes and port development.

MST 0531 International Business Management (3 units)

The course focuses on the international dimension of business, including trade, financial and foreign investment patterns, problems and policies at the corporate and national levels. It covers theoretical, institutional and case analyses of major issues, including the impact of international codes and organizations on corporate policies in home and host countries, the effect of changing governmental policies on strategies for managing international operations. Using a wide range of data sources, cases, and other empirical studies, each student will prepare an individual study of a specific company and country.

MST 0533 Principles of Maritime Management and Administration (3 units)

To provide a broad overview and appreciation of the role of government in policy formulation and the administration of maritime affairs. To define and examine "maritime administration" conceptually and in terms of governance and organizational structure using modern management methodologies and techniques, such as rational planning and new public management (NPM) in the maritime context. To provide an overview of the international institutions involved in shipping and maritime affairs, including UN agencies and inter-governmental and non-governmental organizations and their interrelationships.

MST 0538 Human Resource Management (3 units)

Manpower planning. Job analysis and description. Manpower forecasting. Manpower inventory. Employee appraisal and compensation. Management development and training. Labour legislation. Employee record maintenance. Sociological skills in supervision and management. Applications of social psychology. Role, structure and management of trade unions and employers associations. Theories of industrial relations systems. Origin and

purpose of trade union acts, labour acts and trade dispute acts. Collective bargaining. Labour economics and labour management relations.

MST 0551 Maritime Insurance I (3 units)

Microeconomic analysis of behaviour under Uncertainty, Lotteries, expected utility, Uniqueness of the expected utility function. Risk aversion and demand for insurance. Comparative analysis of simple portfolio problem. Relative risk aversion, state. Basic principles of risk management and insurance. Examination of the role of insurance in the treatment of pure risk. Foundations of corporate value analysis in the insurance industry and in determining premium and actuarial decisions. Examination of the composition, financial structure, and operations of the insurance industry. Consumer problems and solutions.

MST 0552 Maritime Insurance II (3 units)

Development of reinsurance markets, elements and principles, facultative reinsurance, treaty reinsurance-pro rata, treaty reinsurance-surplus share, excess reinsurance, contract wording and accounting. Group insurance benefits including the analysis of governmental environment, contract provisions, underwriting, cost containment and alternative funding methods.

MST 0590 Research Project (6 units)

Students will carry out project work from any discipline in their area of specialisation in the Maritime Studies. The project duration is over an academic year and a formal report will be required. In all cases, the students must write and submit to the Institute a project duly supervised by a Lecturer approved by the Institute.

3.0. MASTER OF SCIENCE (M.SC.) COURSES

(A) M.Sc. IN MARITIME BUSINESS AND INTERNATIONAL LOGISTICS

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	PGC 601	Research Methods and ICT	3
2	MST 633	Maritime Administration and Safety	3
3	MST 661	International Accounting and Taxation	3
4	MST 671	Maritime Managerial Economics	3
5	MST 621	Principles of International Maritime Law	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 653	Corporate Finance and Financial Management in the Shipping Industry	3
2	MST 655	International Business Finance	3
TOTAL			18
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 602	Introduction to Oceanography & Maritime History	3
2	MST 632	Maritime Strategic Business Management	3

3	MST 636	Port Logistics and Planning	3
4	MST 638	Human Resource Management in the Maritime Industry	3
5	MST 620	International Business Law & Policy	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 656	International Capital Markets	3
2	MST 642	Purchasing and Supply Chain Management	3
3	MST 644	Marketing of Maritime Services	3
TOTAL			18
THIRD SEMESTER			
1	MST 681	Seminar in Maritime Business & International Logistics	3
2	MST 691	Project	6
TOTAL			9

(B) M.Sc. IN MARITIME BUSINESS MANAGEMENT

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	PGC 601	Research Methods and ICT	3
2	MST 631	Management Theory and Practice	3
3	MST 633	Maritime Administration and Safety	3
4	MST 671	Maritime Managerial Economics	3
5	MST 621	Principles of International Maritime Law	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 635	International Business Management	3
2	MST 661	International Accounting and Taxation	3
TOTAL			18
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 602	Introduction to Oceanography & Maritime History	3
2	MST 632	Maritime Strategic Business Management	3
3	MST 636	Port Logistics and Planning	3
4	MST 638	Human Resource Management in the Maritime Industry	3
5	MST 620	International Business Law & Policy	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 662	Management Accounting Theory	3
2	MST 644	Marketing of Maritime Services	3
TOTAL			18
THIRD SEMESTER			
1	MST 681	Seminar in Maritime Business Management	3
2	MST 691	Project	6
TOTAL			9

(C) M.Sc. IN MARITIME REGULATION STUDIES, LAW AND POLICY

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	PGC 601	Research Methods and ICT	3
2	MST 621	Principles of International Maritime Law	3
3	MST 623	Law of Marine Environment	3
4	MST 633	Maritime Administration and Safety	3
5	MST 671	Maritime Managerial Economics	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 625	Regulations on Shipping & Commerce	3
2	MST 627	Public International Law	3
3	MST 629	Law of Carriage of Goods by Sea	3
TOTAL			18
SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 602	Introduction to Oceanography & Maritime History	3
2	MST 622	Regulations on Inland Waters and Water ways	3
3	MST 624	Admiralty Jurisdiction and Practice	3
4	MST 628	International Law of the Sea and Maritime Security	3
5	MST 638	Human Resource Management in the Maritime Industry	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 620	International Business Law & Policy	3
2	MST 626	Law of Marine Insurance	3
TOTAL			18
THIRD SEMESTER			
1	MST 681	Seminar in Maritime Regulation Studies	3
2	MST 691	Project	6
TOTAL			9

(D) M.Sc. IN MARITIME TELECOMMUNICATIONS

FIRST SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	PGC 601	Research Methodology and ICT	3
2	MST 611	Marine Navigation I	3
3	MST 623	Law of Marine Environment	3
4	MST 633	Maritime Administration and Safety	3
5	MST 671	Maritime Managerial Economics	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 613	Communication Theory	3
2	MST 615	Mobile Communication	3
TOTAL			18

SECOND SEMESTER			
COMPULSORY COURSES			
S/N	COURSE CODE	COURSE TITLE	CREDIT UNITS
1	MST 602	Introduction to Oceanography & Maritime History	3
2	MST 612	Marine Navigation II	3
3	MST 614	Radar and Navigation Systems	3
4	MST 616	Communication Modelling and Simulation	3
5	MST 638	Human Resources Management in the Maritime Industry	3
ELECTIVE COURSES (ANY ONE COURSE)			
1	MST 618	Microwave and Satellite Communication	3
2	MST 610	Information & Communication Techniques in Maritime Industry	3
TOTAL			18
THIRD SEMESTER			
1	MST 681	Seminar in Maritime Telecommunications	3
2	MST 691	Project	6
TOTAL			9

3.1. DESCRIPTION OF M.SC. COURSES

PGC 601 Research Methodology and ICT (3 units)

The nature of surveys for maritime management. Methods of collecting data. Design of questionnaire. Survey planning and execution. Sampling and designs: simple, random, stratified, systematic, cluster and multi-stage sampling. Area sampling. Sample size determination. Analysis of response errors. Introductory techniques of data analysis: measures of central tendency and dispersion. Principles of effective communication and technical writing. Organisation and presentation of technical reports, feasibility studies, technical proposals and technical descriptions and instructions. Technical correspondence.

MST 602 Introduction to Oceanography and Maritime History (3 units)

Description of the ocean basins and the mechanisms of their evolution; the physical and chemical properties of seawater; role of the oceans in elemental cycles, particularly the carbon cycle; ocean circulation and waves. Geology of the coastal ocean, beaches and estuaries; biotic and physical factors structuring the oceans including global warming; coastal development. General overview of maritime environment. Global modes of transport: Rail transport; Road transport; Pipeline and water transport. Maritime transport during the colonial period (1900-1960): characteristic of existing waterways in Nigeria; inception of dredging of waterways; development of water transport services in Nigeria. Development of shipping and Establishment of port facilities: Foundation of modern shipping in Nigeria, shipping during the world war 1, 194 – 1918, colonial government takeover of shipping 1917-1918, in the inter-ways (1919-1939) shipping during and after the World War 2 (1939-1960). Impact of maritime transport in Nigeria and Maritime policies: Acts and policies that have shaped maritime in Nigeria; socio-political and economic developments; crime and sea pirates impacts of maritime activities.

MST 610 Introduction to Marine Information Management (3 units)

Introduction and overview of marine data products; scalars and vector analysis; the nature and uses of the saga; basic data analysis; gridding with saga; introduction to vector charts

MST 611 Marine Navigation I (3 units)

Earth-navigation methods, Classification of navigation systems, Celestial mechanics, Principles of celestial navigation, Radio navigation systems, Lat, Lon, and nautical charts, Principles of position fixing (Lines of position, Ranges, Position fix, Estimated position, Dead reckoning, Running fix, Danger bearing, Turn bearing, Snellius construction), Sextant usage and care, Compass checks, Compass use and adjustment, Time keeping, Route planning, Daily procedures and logbooks, GNSS (GPS, GLONASS, etc), Emergency navigation techniques.

MST 612 Marine Navigation II (3 units)

Tides and currents, Tide movements, Chart data, Marine weather Resources (Radio sources of weather, Basic principles of high and low, Weather maps and interpretation, Fronts, Squalls, Storms, and hurricanes, Global winds), Inland and coastal navigation, Ocean navigation, Depth sounding navigation, Radio navigation, High seas communication, Overview of radar principles and operation, Navigation by range and bearing, Navigation rules of the road.

MST 613 Communication Theory (3 units)

Signals (Deterministic and random) and System; Signal processing (signal domain transformations, convolution, sampling, quantization, compression and coding); Modulation and Demodulation (Analogue and Digital); Information theory; Noise; Error control coding.

MST 614 Radar and Navigation Systems (3 units)

Operation, history, applications. Radar Equation, range, minimum detectable signal, noise, cross section of a target, transmitter power, antenna parameters. CW, Doppler, moving – target indication, tracking radar, laser radar. Radar transmitters, receivers and antennas. Propagation of radar waves. Airborne direction finders, air traffic control radar beacon, instrument low approach system, Ioran, microwave landing systems. Omega. Immarsat.

MST 615 Mobile Communications (3 units)

Channelization – FDMA, TDMA, CDMA. Spread Spectrum. Frequency Hopping. Cordless telecommunication technology. Radio paging technology. GSM and Cellular Technologies. 2G; 2.5G, 3G and LTE technologies.

MST 616 Communication Modeling & Simulation (3 units)

Teletraffic; Queuing Theory; Traffic Modeling (Data, Voice and Video Modeling); Network Systems Modeling – Loss System and Delay System; Computer Simulation Modeling – Computer Simulation using Object Oriented Network Simulation Packages – SPSS, MATLAB Simevent, OPNET: Riverbird modeller, Network II.5, BONES.

MST 618 Microwave & Satellite Communication (3 units)

Relay System – Relay Stations and Signals dimensioning, Multiplexing (FDM, WDM, TDM, SDM). Satellite System; Earth Stations; Orbiting Stations; Signal propagation modes and signal interferences. Fibre Optic – Structure & Operation. Optical component systems. Optical System Installation.

MST 620 International Business Law and Policy (3 units)

Introduction to the meaning, nature, terminology and forms of international business transactions as well as the need for and character of their regulation. International Trade Law —the Regulatory Structure for International Trade: The policy justifications for international trade in historical and current perspective; the World Trade Organization (WTO) and the General Agreement on Tariff and Trade (GATT), The Pillars of International Trade under

the WTO Regime (National Treatment, Most Favoured Nation, the Schedule of Concessions) Adjudication and Enforcement under the WTO Regime, the Exceptions to Trade Disciplines, cognates of the WTO (ECOWAS, NAFTA, etc). Foreign Direct Investments: Nature and importance, Challenges to FDI (expropriation, political risk, etc), Risk management and mitigation mechanisms (Multilateral Investment Guaranty Agency, Multilateral Agreement on Investments, International Center for the Settlement of Investment Disputes, etc), cultural issues in FDI, the nature and role of the multinational corporation. International Portfolio Investments: Nature and importance, challenges for investors, peculiar challenges for host nations, the nature, rewards and risks of international securities offering as a means of enhancing portfolio investments. International Sales: Defining the international sale. The infrastructure and mechanics of international sales, the legal regime (principles of private international law, Convention on the International Sale of Goods [CISG], etc), payment systems. International Finance: The nature and significance of international finance, the structure of the international financial system (the actors, private and public, and the system within which they operate), international financial linkages in current as well as historical perspective (imported cowries, manilla and pre-colonial international finance/ globalization), contagion, the international financial system and the control of crime. Theoretical and other miscellany: Extraterritoriality of laws, multiple taxation, harmonization and mutual recognition, regulatory competition, regulatory convergence.

MST 621 Principles of International Maritime Law

(3 units)

This course provides an overview of the various aspects of Maritime Law. History and Sources of the Law: The treatment of sources should include a rudimentary discussion of the nature of treaties and other aspects of public international law which constitute major sources of the law applicable to maritime issues. Delimitation of the relevant waters: Internal waters, the Territorial Sea and the Contiguous Zone, Harbour works and Roadsteads, International Straights and Waterways, The High Sea and the Sea-bed, the Continental Shelf. The Principle of Freedom of the Seas: Ordinary and Extra-ordinary Rights of 'Jurisdiction in time of peace, special Reference to piracy and the slave trade, coercive measures short of war; Limitations and The Sea-Bed. Uses of the High Seas and the Sea-Bed: Navigation, Fisheries, Exploitation of other Natural Resources, Scientific Research and Experiments, Disposal of radioactive waste; Naval Exercises; Pipelines, Cables, Mechanical Installations and other uses. Jurisdiction over Maritime Areas Adjacent to the Coast: The Regime of Ports and Internal Waters; The Regime of the Territorial Sea and the contiguous zone; The Regime of the Continental Shelf; The Right of Hot Pursuit; Ships in distress. Access to the Sea for States without Sea Coasts: Transit between the Sea and a State without a Sea Coast, use of Ports and the Territorial Sea of Neighbouring States; right to sail ship on the high seas. The Legal Regime of the Ship: Nationality of ships, flags of convenience, warships and other government-owned ships on Non-commercial Service, government-owned merchant ships, privately- owned merchant ships, collision, wreck and salvage, stateless ships and pirate ships. The Legal Regime of Crew, Passengers and Cargo: Jurisdiction, conditions of Labour, consular jurisdiction over seamen abroad, Functional Protection of seamen. Introduction to the Legal Regime of Carriage by Sea: Bills of Lading – When Issued and Their Basic Nature, Transmission of Rights under Bills of Lading, Obligations of the Carrier, Common Clauses in Bills of Lading, The Hague and the Hague Visby Rules, Defences to Maritime Claims, Package Limitation, Tonnage Limitation and Incoterms. Maritime Law in time of War; Prize Law and Prize Courts of Maritime Warfare; the law of Maritime Neutrality. International Maritime Institutions: Types, Functions, Organization and Jurisdiction.

MST 622 Inland Waters and Waterways (3 units)

Riparian rights; Competing state rights in navigation and access to water, including the legal regime for dams and other major projects that affect the structure of inland waterways; Indigenous peoples' historical rights to water resources; Environmental issues: pollution control, marine life conservation and the ecological impact of major projects like mines, factories, dams and roads on inland waterways.

MST 623 Law of Marine Environment (3 units)

Nature, history and forms of marine pollution; The sources of pollution law -national laws, international conventions and regimes of self-regulation; Public nuisance and other sources of non-statutory liability; Liability for Pollution from shipping waste and ship bunkers; Pollution damage resulting from exploration for and exploitation of seabed mineral resources; The liability of charterers for marine pollution; Maritime pollution and state liability; Decommissioning of oil installations; The role of criminal law in pollution control; Compensation and Insurance.

MST 624 Admiralty Jurisdiction and Practice (3 units)

Introduction: This should encompass a basic exploration of prerequisite concepts necessary for the non-lawyer to appreciate the intricacies of judicial power and jurisdiction including the definition of key terms. It should also cover the challenges of exercising jurisdiction over ambulatory personnel and vessels, the sources of applicable principles particularly international treaties as domesticated, customary international law and domestically originated statutes. Topics shall include: The history of admiralty jurisdiction in England and its reception into Nigeria and other key jurisdictions; The justification for admiralty courts and tribunals –The Federal High Court and specialized courts in other countries; The law to be applied in maritime disputes; Actions in *rem* and actions in *personam*; The Arrest Conventions/ Maritime liens & claims; Associated ship arrests; Security arrests; Arrest procedures in United States, England and Australia; Declining jurisdiction – *forum non conveniens* and stay of proceedings; Evidence, Inspection & Discovery; Judicial Sale & the execution process / Ranking of claims; Enforcement of judgments abroad and Miscellaneous Admiralty & Uniform Rules.

MST 625 Regulations on Shipping and Commerce (3 units)

This course addresses the regulation of domestic shipping and foreign shipping calling at Nigerian and other major ports. The course will begin with an examination of the sources of the Federal government's power to regulate domestic shipping and the ports as well as the role of other tiers of government. Primary emphasis is on the various governmental agencies that administer domestic laws and regulations affecting shipping and commerce, with secondary emphasis on the role of international treaties and conventions. Specifically examined are the activities of agencies such as the Nigerian Navy, the Customs Service, the Immigration Service, Nigerian Maritime Administration and Safety Agency, Nigerian Shippers Council, the Nigerian Port Authorities, Pre-shipment Inspection Agency and various other agencies. Other areas addressed include vessel documentation, pilotage, vessel inspection, crew licensing, tonnage duties, hazardous materials transportation, pollution laws, wreck removal, traffic regulation schemes and port development.

MST 626 Law of Marine Insurance (3 units)

Historical development of Marine insurance; The contract of marine insurance; Forms, content and construction of marine policies; General principles: insurable interest, indemnity, assignment and subrogation; The rights duties and liabilities of agents and brokers in marine insurance; Floating policies; object of Marine Insurance; Deviation and change of Voyage;

Time policies; Vitiating factors in Marine Insurance: Non-disclosure, misrepresentation and illegality; Warranties, Liability of underwriters: Losses by the perils insured against, Excepted Risks and Losses; General and particular average; Claims: Total and constructive Losses, Return of Premium; marine salvage; Reinsurance.

MST 627 Public International Law (3 units)

Introduction and history of international law; Nature of international law and bases of obedience to international law; Sources of International Law; subjects of international law, States and Sovereignty; State Recognition; Law of Treaties, Law of the Sea; Humanitarian Law, State Responsibility; International economic law; The United Nations and other International Institutions.

MST 628 International Law of the Sea and Maritime Security (3 units)

This module will introduce you to the comprehensive legal framework of the international law of the sea. You will examine the various maritime jurisdictional zones recognized in international law, including principles relating to the territorial sea, archipelagic waters, international straits, contiguous zone, continental shelf, exclusive economic zone, high seas, and deep seabed. The module also considers the resolution of competing claims to maritime areas and resources, and focuses on concerns arising from human use of the oceans, such as maritime security and piracy, exploitation of offshore resources, fisheries management, the conservation of marine biodiversity, and marine pollution, rules for securing safety at sea such as rules for the prevention of collisions at sea; assistance at sea; load-time conventions and safety of life at sea.

MST 629 Law of Carriage of Goods by Sea (3 units)

Common and Private Carriers; The history of carrier's liability, The pendulum of liability - Harter/Hague/Hamburg to UNCITRAL/CMI draft , Hague Visby Rules -basic structure & application; F. O. R. or F. O. T., C. I. F., and F. O. B. Contracts; Charter-parties: Charter parties Generally, Time Charters, Voyage Charters, Bareboat or Demise Charters, Obligations of the Owner, Obligations of the Charterer, Common issues arising out Of Charter parties, Law to be Applied to Charter party Disputes; Bills of Lading, Waybills and non-negotiable receipts and their electronic equivalents; Consignor's obligations; Rights, Duties and Liabilities of the Carrier, Common Law and Statutory; Loading, Discharge and Delivery of Goods; The Exclusion of a Carrier's Liabilities; General Average, Demurrage and Freight; Seaworthiness, due diligence and the ISM Code – Art 3 Hague Visby Rules.

MST 631 Management Theory and Practice (3 units)

Conventional and modern conceptions of management, Definition and dynamics of management theory; levels and features of theory in management. Evolutionary trend in theory/thought in management. Applications and relevance of theory in the Nigerian context, Organizational design and outline, managing L processes, problems of integration and control; managing change and development. Modern issue in management theory.

MST 632 Maritime Strategic Business Management (3 units)

Meaning and concepts of strategic management (policy, strategy, vision, mission, goals, objectives, etc). Strategic management process. Environment and strategic management.' Environmental typology. Concepts of environmental audit. SWOT analysis. Strategic formulation in maritime studies. Vision, mission, goals and objectives. Strategy implementation: grand strategies, business strategies, functional strategies (the organic business function and organizational structure). Strategy and structure in maritime studies;

calculating quantitative indices from maritime business data. Strategic management tools; Decision making and problem solving in Strategic management.

MST 633 Maritime Administration & Safety Operations (3 units)

The maritime industry: Components and administrative implications. The shipping company: structure and functions. The port authority: organization and functions. Administration in related maritime establishments. Maritime administration in Nigeria: roles of the Nigerian Ports Authority, National Maritime Authority, Nigerian Shippers' Council, etc International/regional administrative organizations: IAWACA, MINCOMAR, ANSL, UASC. Overview of risks involved in maritime operations and possible risk control options and vessel traffic management, pilot age, search and rescue, evacuation system. Aspects of marine safety operation. Life-saving devices: Life jackets, lifeboats etc. Fire protection devices and materials. Firefighting and requisite equipment. Marine search and rescue operations. Oil spills and clearance procedures. Safety regulations: IMO conventions on marine safety-ISOLAS, MARPOL, 1509000, etc marine safety administration in Nigeria.

MST 635 International Business Management (3 units)

The course focuses on the international dimension of business, including trade, financial and foreign investment patterns, problems and policies at the corporate and national levels. It covers theoretical, institutional and case analyses of major issues, including the impact of international codes and organizations on corporate policies in home and host countries, the effect of changing governmental policies on strategies for managing international operations. Using a wide range of data sources, cases, and other empirical studies, each student will prepare an individual study of a specific company and country.

MST 636 Port Logistics and Planning (3 units)

To explain the concept of port logistics and its meaning in terms of total transport chain, to discuss the importance of a proper container terminal capacity (PCTC) for both a port and its customer. To identify factors affecting PCTC and analyze port transport system in terms of total transport chain. To demonstrate the implication of an improper container terminal capacity from the viewpoint of future planning and development. To use simulation programs for modern container-terminal planning and operation.

MST 638 Human Resource Management in the Maritime Industry (3 units)

Manpower planning. Job analysis and description. Manpower forecasting. Manpower inventory. Employee appraisal and compensation. Management development and training. Labour legislation. Employee record maintenance. Sociological skills in supervision and management. Applications of social psychology. Role, structure and management of trade unions and employers associations. Theories of industrial relations systems. Origin and purpose of trade union acts, labour acts and trade dispute acts. Collective bargaining. Labour economics and labour management relations.

MST 642 Purchasing and Supply Chain Management (3 Units)

Overview of the Marketing Environment, Meaning and Goals of Logistics and supply chain management, Historical Growth of Logistics, Process and functions of the Logistics system, Organizing for purchasing, Purchasing and supply planning, Policies objectives and procedures, Sourcing, Source of supply, Negotiation, Logistics and supply chain Goals Performance, Customer service, Environmental Aspects of Logistics, Logistics and supply chain structure, Product structures, Material supply structures, Material flow structures in production and distribution structures, Organization of Material, Material purchasing department, Material control, Purchase procedures and record, Purchase price, Value of

Inventory Control, ABC Analysis of Stock Levels, Planning and Control of Logistics and Supply Chain System, Transportation Planning and Management, Information System for Logistics and Supply Chain Management. Types of Organisation, Imprest, Centralized and Decentralized, Stores Layout and Location, Classification and coding of materials, Materials acquisition control.

MST 644 Marketing of Maritime Service (3 Units)

Tasks and philosophers of marketing. The marketing system in Nigeria. Marketing environment. Buyer behaviour. Market segmentation, targeting and positioning. The marketing mix elements. Service marketing. Pricing policies and strategies. Promotional policies and strategies. Mega-marketing. Total quality management in marketing. Marketing planning. Marketing research in shipping. International marketing. Quantitative methods for marketing management decisions.

MST 653 Corporate Finance and Financial Management in the Shipping Industry (3 Units)

The nature of the firm and corporate objectives. Implementation of the firm's goals for choice among alternative investment projects (the capital budgeting problems), market evaluation of non-assets under uncertainty and implication for capital budgeting, evaluation of non-assets under uncertainty and illustration of alternative investment criteria, valuation of the firm and firm's cost of capital, discussion of corporate financial problems e.g. leasing, mergers and acquisition, issuance of new securities etc. Principles of shipping finance. Capital acquisition in the shipping industry. Capital budgeting and financial analysis in shipping. Comprehensive evaluation of ship acquisition and operation projects, including probability-based methods. Ship replacement studies and analysis. Financial structure and analysis of maritime business (understanding the balance sheet, income statement and cash flow statement of maritime business. Credit instrument and legal documentation. Taxation and tariffs. Credit analysis and debt servicing capacity in maritime business. Managing the ship acquisition and ship building fund (SASBF). Strategic Management in decisions in shipping finance.

MST 655 International Business Finance (3 Units)

The overview of the international financial system, international banking and financial market, including the foreign exchange risks and management practices by international businesses, Euro-banks and Euro-financing; financing methods in international trade; international financial management, capital budgeting, project finance and transfer pricing by multinational corporations, foreign direct investment, multilateral investment guarantee and investment codes; international business operations in the context of changing global financial developments.

MST 656 International Capital Markets (3 Units)

Capital market theory, stock exchange –growth, structure and performance in Nigeria. The securities and Exchange Commissions and Operations of the Central Securities Clearing Systems (CSCS), International equity market. The New York stock Exchange. The Tokyo stock exchange and the London stock exchange. automation of the stock exchange process (clearing, settlement and trading, the concepts of dematerialization, e- IPO, e- Bonus and e-dividend); consolidation of exchanges; custody operations, etc. Bond financing/Bond trading/pricing.

MST 661 International Accounting and Taxation (3 Units)

The course is designed for students interested in accounting and financial international operations. It involves preparation, transition and analysis of financial statement for companies that have branches of foreign multinational companies.

MST 662 Management Accounting Theory (3 Units)

Nature, scope and purpose of costing. Theory of costing, elements of costing, material and over-head (in outline only); cost allocation, apportionment; methods of costing. Costing ascertainment, cost-profit/volume analysis, break even analysis. Costing, profit contribution, mix and yield variances, interpretation of variances relationships.

MST 671 Maritime Managerial Economics (3 Units)

Application of principles from various fields in economics and business to management decision making; Price mechanism, allocation of resources, profit drivers of the firm, revenue and cost drivers, interaction among the market players, firms' strategy, understanding market forces, the meaning of competition, pricing and profits, market power good or evil, playing games I Competition versus Cooperation, playing games II Entry and Exist, Firms versus Markets; Make or Buy, auctions and market design, economics of information.

MST 681 – M.Sc. Seminar (3 units)

The students will have the possibility to meet and exchange views with practitioners from the industry in seminar format, providing the opportunity to apply the concepts and principles that govern the maritime world to specific real-world scenarios where a broad understanding of marine activities is needed to identify the solution to interdisciplinary problems.

MST 691 Research Project (6 units)

Students will carry out project work from any discipline in their area of specialisation in the Maritime Studies. The project shall an in-depth study that demonstrates their skill in research, writing and analysis. This requires the conduct of an original empirical study and preparation of a report thereon, the topic having been approved and supervised a Lecturer whose qualifications are not below the Ph.D. degree in the relevant areas of speciality and must have been appointed a Supervisor by the School of Postgraduate Studies and approved by the Senate. The project duration is over an academic year and a formal project report will be required to be submitted to the Institute by the student. Such a project must be sent to an External Examiner and nominated by the Institute and appointed by Senate for that purpose. Such External Examiner must be knowledgeable in the specific area of specialisation within the M.Sc. programmes of the Institute. Each student is required to make an oral presentation before the appointed External Examiner.