



King Abdulaziz University

جامعة الملك عبد العزيز



Faculty of

MARITIME STUDIES



Student Book

2nd edition, 2026

King Abdulaziz University

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Student Book

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Table of Contents

1. Introduction	1
1.1 Message from The Dean	1
1.2 Message from The Vice Dean for Academic Affairs	2
1.3 Message from The Working Team	3
1.4 About the Faculty of Maritime Studies.....	4
1.4.1 College Vision, Mission, and Objectives	4
1.4.2 Academic Departments	5
1.4.3 General Features of the Academic Programs Offered by the College:	5
1.4.4 Hands-on Training and Facilities	5
1.4.5 International and Local Accreditations	5
1.4.6 College Communications	6
1.5 Graduation Requirements	6
1.5.1 Preparatory Year Requirements.....	6
1.5.2 University Requirements	7
1.5.3 Faculty Requirements.....	7
2. Definitions of Study Regulations	8
2.1 Academic Year.....	8
2.2 Academic Level	8
2.3 Study Plan	8
2.4 Course	8
2.5 Credit Unit	8
2.6 Academic Load	8
2.7 Registration of Less than 12 Credit Units.....	9
2.8 Incomplete Grade (IC).....	9
2.9 In-Progress Grade (IP)	9
2.10 Semester GPA	10
2.11 Cumulative GPA	10
2.12 Grade	10
2.13 Overall Grade	10
2.14 Academic Record	10
2.15 Class Schedule.....	10
2.16 Attendance and Regularity	11
2.17 Academic Advising.....	11
2.18 Academic Advisor	11
2.19 Specialization	11

2.20	Change of Major.....	12
2.21	Withdrawal from a Semester	12
2.22	Study Deferral.....	13
2.23	Transfer.....	13
2.24	Dismissal and Reinstatement.....	14
2.25	Honors	15
2.26	Course Scheduling in Semesters	15
2.27	Periodic Exams	15
2.28	Final Exams	16
2.29	Medical Excuses	16
2.30	Grade Amendments.....	16
2.31	Student Stipends	17
3.	Department of Supply Chain Management and Maritime Business	18
3.1	Program Overview.....	18
3.2	Mission, Objectives, and Learning Outcomes.....	18
3.2.1	Program Mission.....	18
3.2.2	Program Objectives	18
3.2.3	Program Learning Outcomes.....	19
3.3	Graduate Attributes	19
3.4	Career Opportunities for Graduates.....	20
3.5	Alignment of PLOs with Labor Market.....	20
3.6	Program-specific Admission Criteria	23
3.7	Structure of the Program	23
3.8	Program Requirements	24
3.8.1	Mandatory Courses	24
3.8.2	Elective Courses.....	25
3.8.3	Training Courses.....	26
3.9	Study Plan	26
3.10	Exit Point	29
3.10.1	Objectives of the Advanced Diploma	29
3.10.2	Expected Learning Outcomes	29
3.10.3	Proposed Study Plan.....	30
3.11	Academic and Administrative Staff	30
3.12	Facilities and Equipment.....	34
3.12.1	Learning Resources	34
3.12.2	Faculty Offices	35
3.12.3	Classrooms.....	35

3.12.4 Student Affairs Office.....	35
4. Department of Nautical Science	37
4.1 Program Overview.....	37
4.2 Mission, Objectives, and Learning Outcomes.....	37
4.2.1 Program Mission.....	37
4.2.2 Program Objectives	37
4.2.3 Program Learning Outcomes.....	38
4.3 Graduate Attributes:	38
4.4 Career Opportunities for Graduates:.....	39
4.5 Alignment of PLOs with Labor Market.....	39
4.6 Program-specific Admission Criteria	41
4.7 Structure of the Program	42
4.8 Program Requirements	43
4.8.1 Mandatory Courses	43
4.8.2 Elective Courses.....	44
4.8.3 Training Courses:.....	45
4.9 Study Plan	45
4.10 Exit Point	49
4.10.1 Objectives of the Advanced Diploma	49
4.10.2 Expected Learning Outcomes	50
4.10.3 Proposed Study Plan.....	50
4.11 Academic and Administrative Staff	51
4.12 Facilities and Equipment.....	55
4.12.1 Learning Resources	55
4.12.2 Faculty Offices	56
4.12.3 Classrooms.....	56
4.12.4 56	
4.12.5 Student Affairs Office.....	58
4.12.6 Laboratories.....	58
5. Department of Hydrographic Surveying	60
5.1 Program Overview.....	60
5.2 Mission, Objectives, and Learning Outcomes.....	60
5.2.1 Program Mission.....	60
5.2.2 Program Objectives	60
5.2.3 Program Learning Outcomes.....	61
5.3 Graduate Attributes	62
5.4 Career Opportunities for Graduates.....	62

5.5	Alignment of PLOs with Labor Market.....	62
5.6	Program-specific Admission Criteria	65
5.7	Structure of the Program	66
5.8	Program Requirements	66
5.8.1	Mandatory Courses	66
5.8.2	Elective Courses.....	68
5.8.3	Training Courses:.....	68
5.9	Study Plan	68
5.10	Exit Point	71
5.10.1	Objectives of the Advanced Diploma	71
5.10.2	Expected Learning Outcomes	71
5.10.3	Proposed Study Plan.....	72
5.11	Academic and Administrative Staff	72
5.12	Facilities and Equipment	75
5.12.1	Learning Resources	75
5.12.2	Faculty Offices	76
5.12.3	Classrooms.....	76
5.12.4	Student Affairs Office.....	76
5.12.5	Laboratories.....	77
6.	Marine Engineering Department	78
6.1	Program Overview.....	78
6.2	Mission, Objectives, and Learning Outcomes.....	78
6.2.1	Program Mission.....	78
6.2.2	Program Objectives	79
6.2.3	Program Learning Outcomes.....	79
6.3	Graduate Attributes	80
6.4	Career Opportunities for Graduates.....	80
6.5	Alignment of PLOs with Labor Market.....	81
6.6	Program-specific Admission Criteria	83
6.7	Structure of the Program	83
6.8	Program Requirements	84
6.8.1	Mandatory Courses	84
6.8.2	Elective Courses.....	85
6.8.3	Training Courses:.....	86
6.9	Study Plan	87
6.10	Exit Point	89
6.10.1	Objectives of the Advanced Diploma	90
6.10.2	Expected Learning Outcomes	90

6.10.3 Proposed Study Plan.....	90
6.11 Academic and Administrative Staff	91
6.12 Facilities and Equipment.....	94
6.12.1 Learning Resources	94
6.12.2 Faculty Offices	95
6.12.3 Classrooms.....	95
6.12.4 Student Affairs Office.....	96
6.12.5 Laboratories.....	96
7. Student Participation Systems.....	98
7.1 Student Activities	98
7.2 Student Activity Committees	98
7.3 Competitions.....	98
7.4 Award for the Medal of Excellence in Student Activities	99
7.4.1 Evaluation Criteria for the Medal of Excellence in Student Activities	99
7.4.2 Prizes	99
7.4.3 Student Clubs	99
7.5 Communication Between Students and Faculty Members.....	100
8. Guides and Regulations	101
8.1 Introduction.....	101
8.2 Students Admission Guide	101
8.3 Academic Advising - Student Guide:	102
8.4 Testing Students and Performance Evaluation Policies.....	103
8.4.1 Key Objectives of the KAU Policies	103
8.4.2 Criteria for Effective Student Evaluation	104
8.4.3 General Policies for Testing & Evaluation	104
8.5 Students Rights and Responsibilities	105
8.5.1 Goals of the Regulations	105
8.5.2 Key Definitions	105
8.5.3 Summary of Student Rights	106
8.5.4 Summary of Student Responsibilities	106
8.6 Complaints and Grievances	107
8.7 Avoiding Plagiarism in Scientific Research	109
8.7.1 The Definition and Gravity of Plagiarism.....	109
8.7.2 Actions Constituting Plagiarism	109
8.7.3 Detailed Breakdown of Plagiarism Types	109
8.7.4 Copyright Laws and General Knowledge	110

1. Introduction

Welcome to the **Student Book** of the Faculty of Marine Studies (FMS), designed to guide students through their academic journey at the faculty. It provides essential information about the faculty's vision, mission, programs, academic structure, regulations, and student support services.

This book is intended to help students understand what to expect during their studies and how to make the most of the opportunities available to them. It also introduces the faculty's learning environment, facilities, and the resources that support academic success.

By using this orientation book, students can become familiar with the key information they need for a smooth and successful start at FMS.

1.1 Message from The Dean

Dear Students,

Welcome to the Faculty of Maritime Studies () at King Abdulaziz University. We are proud to have you as part of our academic community, where we strive to achieve excellence in maritime education, research, and training. Our faculty is dedicated to preparing future leaders and professionals who will contribute to the development of the maritime sector both locally and internationally.

This student manual has been designed to provide you with essential information about your academic life, rights, responsibilities, and the services available to you. It will guide you through your journey, helping you navigate your studies and make informed decisions.

We encourage you to engage actively with your studies, participate in student activities, and take advantage of the opportunities offered by our college. Our faculty members and administrative teams are always here to support you, so do not hesitate to seek guidance whenever needed.

I look forward to witnessing your success and achievements, and I am confident that with commitment and determination, you will reach your goals and contribute positively to the maritime industry.

With my best wishes for success and growth,

Dean of the Faculty of Maritime Studies

Dr. Faisal Mana Alsaq

1.2 Message from The Vice Dean for Academic Affairs

Dear Students,

It is with great pleasure that I welcome you to the College of Maritime Studies — a proud institution that is honored to have you among its ranks. Your presence here is not just a point of pride for us, but a strong sign of your commitment to excellence and your readiness to take part in shaping the future of the maritime industry in our nation.

At the Office of Academic Affairs, we consider it a great honor to serve and support you throughout your academic journey. We are here to offer you guidance, assistance, and mentorship — every step of the way, from your first day to graduation.

Our doors are always open, and we encourage you to reach out whenever you need advice or academic support. We're here for you — not just as administrators, but as partners in your growth and success.

Wishing you a fulfilling and successful academic experience. We are proud to call you students of the College of Maritime Studies — the future professionals of the sea.

Best regards,

Vice Dean for Academic Affairs

College of Maritime Studies

Dr. Saleh Ghonaim

1.3 Message from The Working Team

Dear Students,

It is our great pleasure to present to you this Student Manual for the Faculty of Maritime Studies. This manual has been carefully prepared to serve as your trusted guide throughout your academic journey. It outlines the college's vision, mission, programs, rules, and services that will support your educational and personal growth.

Our aim is to provide you with a comprehensive reference that helps you understand the college structure, study plans, academic regulations, student activities, and the various opportunities available to you. We encourage you to make the most of the resources and services offered, and to take an active role in both academic and extracurricular activities.

This manual is a reflection of the collaborative efforts of the faculty members and administrative staff, who are committed to creating an enriching and supportive learning environment. We hope this document will empower you to excel academically and build a successful career in the maritime field.

We wish you every success and a rewarding journey with the Faculty of Maritime Studies.

The Working Team

1.4 About the Faculty of Maritime Studies

The Faculty of Maritime Studies (FMS) at King Abdulaziz University in Jeddah is a pioneering and leading academic institution in the region, specializing in maritime education and training. Saudi Arabia boasts a highly strategic geographical location, featuring over 1,800 nautical miles of coastline along the Red Sea and the Arabian Gulf. With over 90% of the Kingdom's imports and exports transported by sea, the maritime sector is of critical importance to the national economy. The faculty was established to support this vital industry and meet the growing demand for highly qualified professionals.

The urgent need to qualify specialized national professionals for the maritime field led to the creation of the faculty. Following the approval of the Higher Education Council, the institution was officially established and crowned with a Royal Decree in **1431 AH (2010 CE)**. This milestone marked FMS as the **first specialized college for maritime studies in Saudi Arabia**.

The college was founded to bridge the gap in qualified national personnel needed to work on commercial vessels, in port management, and across both civil and military maritime sectors. The faculty's objectives align perfectly with **Saudi Vision 2030**, which aims to transform the Kingdom into a leading global logistics hub.

Today, the Faculty of Maritime Studies is not just an academic hub; it is a center for innovation and professional development in the maritime field. It strives to equip students with the knowledge, practical skills, and confidence to excel in their careers and actively contribute to the future of the Kingdom's maritime sector.

1.4.1 College Vision, Mission, and Objectives

❑ College Vision

A leading college in maritime education, training, and innovation, contributing to the sustainability and the advancement and development of society.

❑ College Mission

To provide international education and training in qualifying maritime cadets to meet the needs of the labor market, sustainable development and promote scientific research.

❑ College Objectives

1. Provide internationally recognized education and training.
2. Prepare maritime professionals qualified for professional and international certifications.
3. Develop the academic and professional competencies of the college staff.
4. Introduce postgraduate studies across all disciplines.
5. Encourage applied scientific research in the maritime industry.
6. Provide effective community services.

1.4.2 Academic Departments

To support the diverse needs of the global and local maritime industry, FMS provides students with comprehensive academic programs across four main departments:

1. **Hydrographic Surveying:** A highly specialized field focused on surveying the topography of sea beds and oceans to produce accurate navigational charts.
2. **Marine Engineering:** Focused on graduating marine engineers responsible for operating, maintaining, and managing ship engines and mechanical systems.
3. **Nautical Science (Marine Navigation):** Dedicated to graduating highly skilled navigation officers and ship captains.
4. **Supply Chain Management and Maritime Business:** Designed to graduate specialists in maritime administration, port operations, shipping, and logistics.

1.4.3 General Features of the Academic Programs Offered by the College:

1. Each program duration ranges from 4 to 5 years, including the preparatory year.
2. Emphasis on practical application.
3. Hands-on training.
4. Instruction is conducted in English.
5. Alignment with labor market needs.

1.4.4 Hands-on Training and Facilities

The faculty is deeply committed to delivering high-quality education by combining rigorous academic knowledge with practical, hands-on experience. The main campus is strategically located in the **Obhur district of Jeddah**, directly overlooking the Red Sea, which provides an ideal environment for maritime education.

Students benefit extensively from modern laboratories, advanced simulation centers (equipped with state-of-the-art bridge and engine room simulators), engineering workshops, and practical training opportunities onboard ships and in real marine environments.

1.4.5 International and Local Accreditations

Ensuring that students are well-prepared for both national and international markets, the faculty's programs (especially Nautical Science and Marine Engineering) are designed to fully comply with the **International Maritime Organization (IMO)** and the requirements of the STCW Convention.

Upon passing the examinations set by the Saudi maritime authority (Transport General Authority), graduates of the maritime departments earn a **Certificate of Competency (CoC)**. This internationally recognized certification qualifies them to work as maritime officers and engineers on commercial ships anywhere in the world.

1.4.6 College Communications

No	Item	Description
1	Faculty Location	To access the geographical location of the Faculty, Click here: Google Map
2	email	fms@kau.edu.sa
3	Official Website	maritime.kau.edu.sa
4	Faculty Social Media Accounts	Twitter: Kau_Fms

1.5 Graduation Requirements

To earn a bachelor's degree in one of the four major programs offered by the college, as described later, a student must successfully fulfill all graduation requirements. These include the preparatory year requirements, university requirements, college requirements, and the mandatory and elective departmental requirements. The following table summarizes these requirements:

Requirements	Credit Units
Preparatory Year Requirements	24
University Requirements (common to all colleges)	14
College Requirements	9
Department Requirements – Mandatory	Varies by department
Department Requirements – Elective	Varies by department
Total	Varies by department

1.5.1 Preparatory Year Requirements

Level	Course Code	Course Title	Pre-Requisite Courses	Credit Hours
Level 1	CHEM 110	General Chemistry	None	3
	ELIS 110	English Language I	None	3
	MATH 110	General Mathematics	None	3
	STAT 110	General Statistics	None	3
Level 2	BIO 110	General Biology	None	3
	CPIT 100	Computer Skills	None	3
	ELIS 120	English Language III	ELIS 110	3
	PHYS 110	General Physics	None	3
Total				24

1.5.2 University Requirements

These are courses studied by all university students, with a total of **14 credit units**. They aim to prepare students academically and provide them with communication skills, computer literacy, and English language proficiency. The courses are as follows:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Islamic Culture I	ISLS 101	2	-	-	2	-
2	Islamic Culture II	ISLS 201	2	-	-	2	ISLS 101
3	Islamic Culture III	ISLS 301	2	-	-	2	ISLS 201
4	Islamic Culture IV	ISLS 401	2	-	-	2	ISLS 301
5	Arabic Language I	ARAB 101	3	-	-	3	-
6	Arabic Language II	ARAB 201	3	-	-	3	ARAB 101
Total						14	

1.5.3 Faculty Requirements

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Oceanography	MS 201	3	-	-	3	-
2	Marine Environment	MS 202	3	-	-	3	-
3	Fundamental of Marine Safety	MSN 230	3	2	-	3	-
Total						9	

2. Definitions of Study Regulations

2.1 Academic Year

Consists of two semesters and a summer semester (if applicable). The duration of each semester shall not be less than fifteen (15) weeks, while the summer semester shall not exceed eight (8) weeks. The allocated time for teaching each course is doubled during the summer semester. The registration period and final examinations are not included in the study weeks.

2.2 Academic Level

A number that indicates the stage of study according to the approved study plans.

2.3 Study Plan

A set of compulsory, elective, and free courses prescribed in each major (program), the total credit units of which form the graduation requirements. The student must successfully complete these requirements with a specific GPA to obtain the academic degree in the designated major.

2.4 Course

An academic subject within the approved study plan of each major (program). Each course has a code, number, title, credit units, and a detailed description that distinguishes its content and level from other courses.

2.5 Credit Unit

A weekly theoretical lecture of no less than fifty (50) minutes or a practical/lab session of no less than one hundred (100) minutes.

2.6 Academic Load

For students outside the level-based system, the minimum academic load is twelve (12) credit units, and the maximum is eighteen (18) credit units. The maximum number of credits a student may register depends on their cumulative GPA, as per the following table:

GPA	Credit Hours (Non-Graduating Students)	Credit Hours (Graduating Students)
Less than 2.00	12–13	+12 (One additional course only)
2.00 – 2.74	15–16	+12 (One additional course only)
2.75 – 3.74	18–19	+18 (One additional course only)
Above 3.75	18–19	Up to 24 hours

2.7 Registration of Less than 12 Credit Units

If the student is unable to register the minimum required academic load from the courses of the next level (due to schedule conflicts, not completing a prerequisite, or having completed all courses of that level), the student may complete their academic load from the courses of subsequent levels that are permitted. If, after this process, the student still cannot register the minimum required units, they are allowed to register only the available courses, even if the total falls below the minimum load.

Note: Under no circumstances may a student register for a course without first completing its prerequisite. Furthermore, a student may not register for a course and its prerequisite concurrently within the same semester.

Symbol	Score Range	Grade Weight	Grade Description
A+	> 95	5.00	Excellent (High)
A	90 – < 95	4.75	Excellent
B+	85 – < 90	4.50	Very Good (High)
B	80 – < 85	4.00	Very Good
C+	75 – < 80	3.50	Good (High)
C	70 – < 75	3.00	Good
D+	65 – < 70	2.50	Pass (High)
D	60 – < 65	2.00	Pass
F	< 60	1.00	Fail
DN	—	0.00	Denied (Due to Absence)
IP	—	—	In Progress
IC	—	—	Incomplete
NP	—	—	Pass without Grade
W	—	—	Withdrawn

2.8 Incomplete Grade (IC)

An incomplete grade is temporarily assigned to any course in which a student is unable to fulfill its requirements by the specified deadline due to compelling circumstances. In the academic record, it is denoted by the letter (J) or (IC). The student must complete a formal request for an incomplete grade through the Academic Affairs Office of the college, obtain approval from the course instructor and the head of the department, and then have the request endorsed by the Vice Dean of the college. The incomplete grade does not count toward the semester or cumulative GPA until the student completes all course requirements and a final grade is assigned. If one semester passes without the incomplete grade being resolved, it is automatically converted into a failing grade (F) and is then included in the calculation of the semester and cumulative GPA.

2.9 In-Progress Grade (IP)

An in-progress grade is temporarily assigned to any course that, by its nature, extends over more than one semester. It is denoted by the letter (ا) or (IP).

2.10 Semester GPA

The Semester GPA is calculated by dividing the total points a student earns by the total credit units of all courses taken in that semester. Points are determined by multiplying each course's credit units by the grade weight obtained in that course.

2.11 Cumulative GPA

The Cumulative GPA is calculated by dividing the total points the student has earned in all completed courses since enrollment by the total number of credit units for those courses.

2.12 Grade

A grade is a descriptor of the student's academic achievement in a course. It is represented either as a percentage score or an alphabetical letter corresponding to the final grade achieved.

2.13 Overall Grade

The overall grade describes the level of academic achievement at graduation and is measured as shown in the following table:

GPA	Overall Grade
4.50 or higher	Excellent
3.75 to 4.49	Very Good
2.75 to 3.74	Good
2.00 to 2.74	Pass

Note: The minimum cumulative GPA required for graduation from the bachelor's program at the Faculty of Maritime Studies must not be less than **2.75**.

2.14 Academic Record

The academic record is a statement that reflects the student's academic progress. It includes all courses taken in each semester along with their codes, numbers, credit units, grades received, and the corresponding grade symbols and values. It also displays the semester GPA, cumulative GPA, overall grade, and any courses that have been waived for transfer students.

2.15 Class Schedule

The class schedule is the timetable of the student's lectures during the registered semester. It includes course names, credit units, locations, timings, and section numbers. Students can obtain their schedules from the university's online academic services system (ODUS Plus).

2.16 Attendance and Regularity

Attendance in lectures and laboratory sessions is mandatory. A student will be barred from continuing in any course and from taking the final exam if their absence exceeds 25% of the total course sessions during the semester. In such cases, the grade (DN) will be recorded for that course.

2.17 Academic Advising

At the beginning of each academic year, the college organizes a special program to orient students about the study plan, the departments, and the various activities available to them. At the start of each year, academic departments also divide students at different levels into small groups, each supervised by a faculty member, in order to achieve the objectives of the academic advising program.

2.18 Academic Advisor

An academic advisor is a faculty member from the department to which the student belongs. The advisor serves as a guide throughout the student's academic journey, assisting with decisions related to their study plan. Students are encouraged to meet their advisor during the designated advising hours or communicate via email. The academic advisor provides important guidance, such as selecting elective and free courses and choosing suitable specialization tracks. Students can find out who their advisor is by contacting the department chair or through the university's online academic services system (ODUS Plus). Academic advising for new students is overseen by the Vice Dean of the college.

2.19 Specialization

The Faculty of Maritime Studies consists of four departments:

1. Department of Supply Chain Management and Maritime Business.
2. Department of Hydrographic Surveying.
3. Department of Marine Engineering.
4. Department of Marine Navigation.

Specialization in each department is determined based on the admission requirements and the department's capacity. The college organizes orientation sessions for students to provide essential information that helps them select the most suitable department.

The allocation to departments primarily depends on the students' cumulative GPA. A higher GPA gives students a greater competitive advantage in securing a place in their desired department. The specialization process involves the following steps:

1. The following courses must be completed before submitting a specialization request to any academic department within the college. Failure to complete these courses will result in the

student being placed in an available department regardless of preferences and may reduce the number of credit hours they are allowed to register.

No.	Course Name	Code (English)
1	General Physics	PHYS 110
2	Mathematics	MATH 110
3	General Statistics	STAT 110
4	General Chemistry	CHEM 110
5	General Biology	BIO 110
6	English Language (1)	ELIS 110
7	English Language (2)	ELIS 120

2. Specialization requests are submitted through the ODUS Plus academic services system within the deadlines announced by the Deanship of Admission and Registration. Students must indicate their first, second, and third choices of departments in order of preference.
3. The Deanship of Admission and Registration matches the specialization requirements with student requests, ensuring alignment between departmental capacity and student preferences.

2.20 Change of Major

Students wishing to transfer from one department to another must visit the Academic Affairs Office to complete the transfer form within the announced deadlines, provided they meet the admission requirements of the department they wish to join. Students are allowed to change their major only once during their entire undergraduate study period.

2.21 Withdrawal from a Semester

Students may withdraw from a semester without being considered as failing under the following conditions:

1. The student's cumulative GPA must not be less than 2.00.
2. The student must have completed at least two semesters of study.
3. A student may withdraw from two consecutive semesters or a total of three separate semesters during their study period at the university. Note that withdrawn semesters count toward the regular study period.
4. The withdrawal request must be submitted at least five weeks before the start of the final exams (refer to the university calendar).

Procedures

1. Submit the request through the ODUS Plus academic services system.

2. Ensure that the request has been processed through the system.
3. If the above conditions are not met, the student must visit the Academic Affairs Office.

2.22 Study Deferral

A student is allowed to defer their studies for up to two consecutive semesters or three non-consecutive semesters, provided they have an acceptable excuse approved by the College Council. If a student discontinues study for a semester without submitting a deferral request, they will be dismissed from the university.

☐ Conditions

1. The student must submit a deferral request before the end of the semester preceding the intended deferral to obtain College Council approval.
2. The deferral period must not exceed two consecutive semesters or three non-consecutive semesters during the student's entire time at the university.
3. The student's cumulative GPA must not be less than 2.00.
4. Deferral is not permitted during the student's first two semesters at the university.

☐ Procedures

1. The deadline for submitting deferral requests is announced on the Deanship of Admission and Registration website in accordance with the academic calendar.
2. The student must visit the Academic Affairs Office to fill out the deferral form, which will then be reviewed and approved by the College Council.

2.23 Transfer

A student may transfer from other colleges within King Abdulaziz University to the Faculty of Maritime Studies according to the following conditions:

1. The student's cumulative GPA must not be less than 3.75, or the student must meet the college's admission requirements.
2. A score of not less than 80 in Mathematics, Physics, and English courses.
3. The student must not have completed more than half of the graduation requirements in their current major.
4. The application must be submitted through the Academic Services System (ODUS Plus).
5. Review the Internal Transfer Guide between Colleges of King Abdulaziz University (page 10).

❑ Course Equivalency

A student transferring to the Faculty of Maritime Studies who has previously studied courses at another college within the university or at an external university may apply for course equivalency under the following conditions and procedures:

❑ Conditions

1. The content of the course to be transferred must match one of the required graduation courses.
2. The credit units of the course to be transferred must be equal to or greater than those of the equivalent course.
3. Any additional conditions set by the college must be met.

❑ Procedures

1. The student may submit a course equivalency request to:
 - a. The Deanship of Admission and Registration, if transferring from another university.
 - b. The Academic Affairs Office, if transferring from another college within the university.
2. Attach a certified copy of the course descriptions for the courses to be transferred, stamped by the transferring university or college.
3. Once the equivalency request form and all required attachments (transcript, course descriptions) are verified, the Academic Affairs Office forwards the request to the relevant academic departments.
4. After course equivalency is finalized at the college, it is sent to the Deanship of Admission and Registration for execution.
5. Courses transferred from another university will appear in the student's academic record but will not count toward the cumulative GPA.
6. Courses transferred from within the university will appear in the academic record and will be included in the cumulative GPA calculation.

2.24 Dismissal and Reinstatement

A student's enrollment is terminated if they discontinue their studies for one semester. The student may submit a reinstatement request using their previous student ID and record.

❑ Conditions

1. The reinstatement request must be submitted within four semesters from the date of termination.
2. The College Council and relevant authorities must approve the reinstatement.

3. A student who was under academic warning at the time of dismissal cannot be reinstated.
4. A student cannot be reinstated more than once.
5. A student dismissed for academic or disciplinary reasons from this or any other university cannot be reinstated.
6. If five semesters or more have passed since the dismissal, the student may apply as a new applicant without referring to their previous academic record, provided they meet all current admission requirements.

❑ Procedures

1. The student submits a reinstatement request to the Registrar at the Deanship of Admission and Registration.
2. If the conditions are met, the request is presented to the College Council.
3. Upon the College Council's recommendation and approval, the Deanship of Admission and Registration is notified for execution.
4. The student must follow up on their reinstatement process with the Deanship of Admission and Registration.

2.25 Honors

First Class Honors are awarded to students with a cumulative GPA of 4.75 or higher upon graduation. Second Class Honors are awarded to students with a cumulative GPA between 4.25 and less than 4.75 upon graduation.

❑ Conditions for Honors

1. The student must not have failed any course at this university or another university.
2. The student must complete graduation requirements within a period not exceeding the average between the minimum and maximum allowed duration of study in their college.
3. The student must have completed at least 60% of the graduation requirements at this university.

2.26 Course Scheduling in Semesters

The Academic Affairs Office prepares the course allocation schedule at the beginning of each semester, ensuring that most courses are taught in the laboratories of the Faculty of Maritime Studies. The schedule is announced on the college's electronic notice boards and website.

2.27 Periodic Exams

The Academic Affairs Office sets the schedule for periodic exams (twice during the semester), which is announced on the college's electronic notice boards and website. Students are not allowed

to enter the exam room after 30 minutes from the start time, and they are not allowed to leave before 30 minutes have passed.

2.28 Final Exams

The Academic Affairs Office prepares the final exam schedule for the Faculty of Maritime Studies courses after the main exam schedule is issued by the Deanship of Admission and Registration, ensuring there are no more than two exams per student in one day. The schedule is announced on the college's electronic notice boards and website. Students are not allowed to enter the exam room after 30 minutes from the start time, and they are not allowed to leave before 30 minutes have passed.

2.29 Medical Excuses

- Medical excuses are accepted only if accompanied by a medical report issued or certified by the university medical administration, the university hospital, or any government hospital.
- All medical reports must be submitted to the Vice Dean of the college within five days of the date and time of the medical condition stated in the report.

2.30 Grade Amendments

1. The Deanship of Admission and Registration amends a student's grades based on a letter from the Dean of the College, supported by a decision from a three-member committee chaired by the Vice Dean of the College, with the department head and course instructor as members, stating the reasons for the grade amendment request.
2. Grade amendments must be completed within the first month of the following semester.
3. Requests for grade amendments are recorded for each instructor and academic department. The College Council reviews these records at the end of each semester to establish controls or penalties, if necessary, in cases where a specific instructor or department shows an unusual pattern of grade amendments.
4. If a student doubts the accuracy of their grade, the following steps must be taken:
 - a. The student must consult the course instructor to verify the grade. If the instructor finds that a correction is necessary, the matter is escalated to the department head and then to the committee, following steps 1, 2, and 3. If no correction is needed, the student is informed accordingly.
 - b. If the student remains unsatisfied, they can submit a request to the department head, who reviews it with the course instructor. If the instructor insists on their grading, the department head may assign another faculty member from the same specialty to recheck the exam paper in accordance with Article (34) of the undergraduate study and examination regulations. The matter is then referred to the committee for a final decision following steps 1, 2, and 3.

2.31 Student Stipends

Students receive a stipend of 990 SAR, which is discontinued in the following cases:

- If the student exceeds the standard duration of study.
- If the student receives an academic warning.

3. Department of Supply Chain Management and Maritime Business

3.1 Program Overview

The maritime transport industry is a vital and fundamental pillar of the global economy, as it serves as the main channel for moving goods from production centers to consumer markets across the world. Today, commercial vessels such as container ships, bulk carriers, and tankers transport more than 90% of international trade, which highlights the strategic importance of maritime transport in supporting global commercial activity and economic growth.

In this context, the Department of Supply Chain Management and Maritime Business aims to provide students with a deep understanding of the maritime transport industry and its close relationship with supply chain management, logistics, port operations, and maritime business practices. The program focuses on developing the knowledge and skills needed to analyze and improve the economic and operational performance of the maritime sector, while also preparing students to respond to the challenges of modern global trade.

The department also emphasizes the importance of integrating theoretical knowledge with practical applications in shipping, logistics, and maritime trade. Through this approach, students are prepared to contribute effectively to port management, shipping operations, freight services, supply chain coordination, and other related fields. Graduates of the program are equipped to meet the growing demands of the maritime and logistics sectors at both local and international levels.

3.2 Mission, Objectives, and Learning Outcomes

3.2.1 Program Mission

To provide high quality education and training to graduate cadres in order to meet the needs of the market and develop a conducive atmosphere to expand and enhance the quality of scientific research.

3.2.2 Program Objectives

1. To actively contribute to Saudi Vision 2030 by developing academic programs and research initiatives that support the growth of the Supply Chain Management and Logistics sector.
2. To qualify national cadres in line with international standards through comprehensive education and professional training in port management and operations.
3. To enhance the economic and operational performance of the maritime transport sector through practice-oriented learning and the development of industry-relevant competencies.

4. To build and sustain strategic academic partnerships with international universities to foster collaborative research and global educational standards.
5. To deliver specialized training programs aligned with international best practices to meet evolving market needs in ports and supply chain sectors.

3.2.3 Program Learning Outcomes

Knowledge and Understanding	
K1	Recognize the essential facts, theories, concepts, principles, best practices, and standards related to supply chain management with special focuses on maritime-related businesses.
K2	Describe legal conditions and different practices of the transportation industry.
K3	Recognize the basics of business and economics for effective supply chain and logistics operations.
Skills	
S1	Apply theories, concepts, strategies, and techniques of supply chain management in the local and global context of maritime-related business developments.
S2	Develop information and technology management skills for transportation operations and product flows.
S3	Analyze and solve managerial problems and challenges that are related to the design, planning, and operational activities of supply chain and maritime logistics.
Values, Autonomy, and Responsibility	
V1	Demonstrate academic and professional ethics, norms, and responsibilities in the field of supply chain and maritime logistics.
V2	Participate effectively as a member or leader in diverse teams and inclusive settings.
V3	Show the ability of continuous learning in the field of supply chain and maritime logistics.

3.3 Graduate Attributes

- 1- Creativity in problem solving
- 2- Critical thinking of real transportation challenges
- 3- Function effectively as a team collaborator
- 4- Effective oral and written communication skills
- 5- Social interaction skills
- 6- Ethical and professional responsibilities
- 7- Leadership and decision-making skills
- 8- English proficiency
- 9- Knowledgeable of discipline aspects and principles
- 10- Applying knowledge in interdisciplinary context to the industry
- 11- Developing and applying analytical (statistical and spatial) techniques
- 12- Life-long knowledge seeking and continuous learning

- 13- Cultural competency
- 14- Independence and proactivity
- 15- Resilience and adaptability

3.4 Career Opportunities for Graduates

Graduates of this program are qualified to work in port operations (including port traffic management and cargo handling), port management and planning, management and operation of specialized terminals (such as container terminals), shipping companies and maritime agencies, marine shipping and unloading companies, insurance companies, maritime transport management within the Ministry of Transport, as well as academic and training positions in universities, academies, colleges, and maritime institutes.

3.5 Alignment of PLOs with Labor Market

To ensure students are fully prepared for the labor market, the Bachelor of Ports and Maritime Transport (PMT) program curriculum is designed around the Program Learning Outcomes (PLOs). These PLOs are not merely academic objectives; they directly reflect the knowledge, practical skills, and professional values that employers seek in the maritime transportation, ports, and logistics sectors.

Whether students aspire to work in shipping lines, port and terminal operations, logistics and supply chain management, or maritime regulatory and supervisory organizations, every course, practical activity, and academic project within the program is designed to connect academic learning with students' future career pathways.

The table below illustrates how the Knowledge (K), Skills (S), and Values and Responsibility (V) outcomes acquired throughout the program prepare graduates for the diverse career opportunities available in the maritime and logistics labor market.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
1	Shipping & Maritime Operations (Shipping lines, vessel operations, freight forwarding, liner and tanker operations)	Efficient maritime transportation management, freight coordination, shipping documentation, and operational planning in global maritime trade.	K1, K2, K3, S1, S2, V1	Knowledge of maritime transportation systems, operational planning skills, ethical and professional responsibility, and ability to manage shipping operations effectively.

3- Department of Supply Chain Management and Maritime Business Alignment of PLOs with Labor Market

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
2	Port Operations & Terminal Management (Port authorities, container terminals, cargo handling operations)	Port planning, cargo flow coordination, terminal productivity, logistics integration, and digitalized port operations.	K1, S1, S2, S3, V2	Analytical problem-solving, teamwork, operational efficiency, leadership in logistics environments, and technology management capabilities.
3	Supply Chain & Logistics Management (Logistics firms, distribution centers, 3PL providers, warehousing operations)	Supply chain coordination, inventory control, transportation planning, procurement, and logistics optimization.	K1, K3, S1, S2, S3, V1, V2	Strategic thinking, supply chain decision-making, communication and collaboration skills, and application of logistics technologies.
4	Maritime Regulatory, Customs & Compliance Services (Customs authorities, maritime authorities, compliance and inspection agencies)	Understanding maritime regulations, trade compliance, customs procedures, safety standards, and international transportation laws.	K2, S1, S3, V1	Professional ethics, regulatory awareness, critical analysis, responsibility, and compliance-oriented decision-making.
5	Transportation & Logistics Technology (Digital logistics platforms, smart ports, transportation systems, maritime IT solutions)	Application of digital technologies, data management, transportation information systems, and logistics automation.	S2, S3, V3	Technological competency, innovation mindset, continuous learning ability, and data-driven problem-solving skills.
6	Procurement & International Trade Operations (Import/export companies, procurement departments, trade facilitation firms)	Trade coordination, sourcing, supplier management, international logistics, and global supply chain operations.	K2, K3, S1, V1, V2	Negotiation and coordination abilities, understanding of global trade practices, teamwork, and ethical professional conduct.

3- Department of Supply Chain Management and Maritime Business Alignment of PLOs with Labor Market

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
7	Maritime Consultancy & Business Development (Consultancy firms, maritime investment, transport economics and advisory services)	Market analysis, maritime business evaluation, logistics consulting, and strategic transportation planning.	K1, K3, S3, V3	Critical thinking, analytical capability, strategic planning skills, independent learning, and professional adaptability.
8	Academia, Research & Training (Universities, maritime academies, logistics training centers, research institutions)	Applied research, training delivery, and development of maritime and logistics knowledge.	K1, K2, K3, V2, V3	Research capability, academic integrity, communication skills, leadership in educational settings, and lifelong learning orientation.

The Program Learning Outcomes are embedded in the curriculum to prepare students for successful careers in supply chain management and maritime business as follows:

- **Knowledge and Understanding (K1–K3):** Building a strong foundation of expertise. The labor market requires graduates who understand supply chain management principles, maritime transportation systems, business operations, and logistics practices. By mastering concepts related to maritime business, transportation regulations, and economics, students develop the knowledge needed to support efficient, sustainable, and globally connected supply chains.
- **Skills (S1–S3):** Developing the abilities of an effective logistics and maritime professional. Employers seek graduates who can apply theories and strategies in real-world logistics and maritime environments. Through the program, students learn to analyze operational challenges, apply supply chain and transportation management techniques, and utilize information technology systems to improve logistics performance, cargo flows, and maritime operations. They also strengthen their analytical, managerial, and problem-solving capabilities required in dynamic global markets.
- **Values, Autonomy, and Responsibility (V1–V3):** Building the mindset of a responsible professional and future leader. The maritime and logistics sectors depend on ethical conduct, teamwork, adaptability, and continuous improvement. By promoting academic integrity, professional ethics, collaboration, and lifelong learning, the program prepares students to work effectively in diverse environments and to take responsibility in local and international supply chain and maritime industries.

By focusing on these Program Learning Outcomes, students are not only completing their studies but also building the knowledge, practical skills, and professional attributes needed to succeed in the global supply chain and maritime business sector.

3.6 Program-specific Admission Criteria

The Council of the Department of Supply Chain Management and Maritime Business (SCMMB) recommends the approval of the admission requirements for male and female students in the Department of Supply Chain Management and Maritime Business (Bachelor's Program in Ports and Maritime Transport), effective from the academic year 2026–2027, according to the following criteria:

1. The student's preparatory year cumulative GPA shall not be less than (3.25).
2. The student's grade in Mathematics (Math 110) shall not be less than (80).
3. The student's grade in Physics (Physics 110) shall not be less than (80).
4. The student's grade in the English language courses for Levels One and Two shall not be less than (80).
5. The student's grade in General Chemistry (CHEM 110) shall not be less than (80).
6. Successful completion of the personal interview according to the department's approved evaluation system.

3.7 Structure of the Program

The Ports and Maritime Transport (PMT) program is designed to provide students with a comprehensive understanding of the maritime transport industry and its vital role in global trade. The program equips students with the theoretical knowledge and practical skills required to analyze, manage, and optimize port and shipping operations within an increasingly complex and competitive logistics environment.

Graduates of the program develop a strong foundation in maritime transport systems, port operations, logistics, supply chain management, and maritime economics. The curriculum emphasizes both operational and managerial aspects of the sector, preparing students to address challenges related to efficiency, safety, sustainability, and international trade.

To ensure academic flexibility and professional relevance, the program incorporates elective courses that allow students to explore specialized areas aligned with their career interests and emerging industry trends. In addition, the curriculum integrates interdisciplinary studies covering legal, economic, environmental, and administrative dimensions of maritime transport.

The program also highlights the importance of professional competencies through courses that enhance analytical thinking, decision-making, communication skills, and understanding of regulatory frameworks governing maritime and port activities.

To strengthen practical learning and industry engagement, the department supports experiential training opportunities and maintains collaborations with relevant maritime and logistics organizations, enabling.

The PMT program requires the completion of the following courses:

No	Requirements		Number of Courses	Number of Units
1	Preparatory year requirements		12	24
2	University requirements		6	14
3	Faculty requirements		3	9
4	Department requirements	Mandatory courses	29	73
		Elective Courses	---	7
		Training	2	4
	Total		52	131

3.8 Program Requirements

In addition to the preparatory year, university, and college requirements discussed in Section 1.5 “Graduation Requirements”, the Ports and Maritime Transport (PMT) program requires the program requires the following courses:

3.8.1 Mandatory Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Principles of Accounting	ACCT 117	3	-	-	3	-
2	Organizational Management	BUS 232	3	-	-	3	-
3	Principles of Microeconomics	ECON 107	3	-	-	3	-
4	General Physics Laboratory	PHYS 281	-	3	-	1	PHYS 110
5	Cost Accounting	ACCT 213	3	-	-	3	ACCT 117
6	Principles of Macroeconomics	ECON 203	3	-	-	3	ECON 107
7	Human Resource Management	HRMA 340	3	-	-	3	BUS 232
8	Principles of Marketing	MRKT 260	3	-	-	3	-
9	International Economics	ECON 320	3	-	-	3	ECON 203
10	Fundamentals of Ship Operations	MST 351	2	-	-	2	-

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
11	Maritime Transport Economics	MST 352	3	-	-	3	ECON 107
12	Maritime Law	MST 353	2	-	-	2	-
13	Port Management	MST 354	3	-	-	3	BUS 232
14	Shipping Operations	MST 355	2	-	-	2	-
15	Principles of Shipbuilding and Naval Architecture	MSE 379	2	-	-	2	-
16	Cargo Transport Law	MST 361	2	-	-	2	MST ၃၀၃
17	Port Operations	MST 362	3	-	-	3	MST ၃၀၄
18	Marine Insurance	MST 363	3	-	-	3	MST ၃၀၃
19	Ship Chartering	MST 451	2	-	-	2	MST ၃၀၃
20	Multimodal Transport	MST 452	3	-	-	3	-
21	Logistics	MST 453	3	-	-	3	-
22	Port Economics	MST 454	2	-	-	2	MST ၃၀၂
23	Tanker Operations Economics	MST 461	2	-	-	2	MST ၃၀၂
24	Applied Statistics	MST 462	2	-	-	2	-
25	Maritime Accounting	MST 463	2	-	-	2	ACCT 117
26	Container Terminal Management	MST 464	2	-	-	2	MST ၃၀၄
27	Technical Reports	MST 466	2	-	-	2	-
28	Graduation Project	MST 467	-	-	-	3	-
29	Job Market Skills in Ports and Maritime Transport	MST 468	3	-	-	3	-
Total						73	

3.8.2 Elective Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Elective Course (1)	-	-	-	-	3	
2	Elective Course (2)	-	-	-	-	2	
3	Elective Course (3)	-	-	-	-	2	
Total						7	

Students should select 7 units out of 24 from the following List:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Corporate Finance	BUS 340	3	-	-	3	ACCT 117 & BUS 232
2	Quantitative Analysis II	ECON 204	3	-	-	3	-
3	Shipyards Business Technology	MSN 435	2	-	-	2	MSE 379
4	Maritime Traffic Management	MSN 445	2	-	-	2	-
5	Commercial Transactions Law	MST 350	2	-	-	2	-
6	Economic Geography	MST 357	2	-	-	2	-
7	Petroleum Port Management	MST 455	2	-	-	2	MST 354
8	Maritime Safety and Security Management	MST 456	2	-	-	2	-
9	Special Topics	MST 457	2	-	-	2	-
10	Maritime Feasibility Study	MST 458	2	-	-	2	MST 352
11	Economics of Liner Shipping	MST 465	2	-	-	2	MST 352
A Student chooses 3 courses (Total of 7 credit hours)						24	

3.8.3 Training Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Summer Practical Training	MST 291	-	-	-	2	-
2	Sea Training on Board Ships for 6 months (Semester 9)	MST 391	-	-	-	2	MST 291
Total						4	

3.9 Study Plan

Level 1

Course Name	Code	Credit Units	Prerequisites
Programming and Problem Solving	CPIT 110	3	—
English Language – Scientific (1)	ELIS 110	3	—
General Mathematics (1)	MATH 110	3	—
General Physics (1)	PHYS 110	3	—
Total		12	

Level 2

Course Name	Code	Credit Units	Prerequisites
General Biology (1)	BIO 110	3	–
General Chemistry (1)	CHEM 100	3	–
English Language – Scientific (2)	ELIS 120	3	ELIS 110
General Statistics (1)	STAT 110	3	–
Total		12	

Level 3

Course Name	Code	Credit Units	Prerequisites
Principles of Financial Accounting	ACCT 117	3	–
Organizational Management	BUS 220	3	–
Principles of Microeconomics	ECON 107	3	–
Marine Sciences	MS 201	3	–
General Physics Lab	PHYS 281	1	PHYS 110
Total		13	

Level 4

Course Name	Code	Credit Units	Prerequisites
Cost Accounting	ACCT 317	3	ACCT 117
Principles of Macroeconomics	ECON 203	3	–
Human Resources Management	HRMA 340	3	–
Islamic Culture (1)	ISLS 101	2	–
Principles of Marketing	MRKT 260	3	–
Marine Environment	MS 202	3	MS 201
Cooperative Training (1)	MST 291	2	–
Total		19	

Level 5

Course Name	Code	Credit Units	Prerequisites
International Economics	ECON 320	3	ECON 107
Fundamentals of Ship Operations	MST 351	2	–
Maritime Transport Economics	MST 352	3	ECON 107
Maritime Law	MST 353	2	–
Port Management	MST 354	3	BUS 220
Shipping Operations	MST 355	2	–
Total		15	

Level 6

Course Name	Code	Credit Units	Prerequisites
Arabic Language (1)	ARAB 101	3	–
Islamic Culture (2)	ISLS 201	2	ISLS 101
Principles of Shipbuilding and Construction	MSE 379	2	–
Cargo Transport Law	MST 361	2	MST 353
Port Operations	MST 362	3	MST 354
Marine Insurance	MST 363	3	MST 353
Cooperative Training (2)	MST 391	2	MST 291
Total		17	

Level 7

Course Name	Code	Credit Units	Prerequisites
Arabic Language (2)	ARAB 201	3	ARAB 101
Islamic Culture (3)	ISLS 301	2	ISLS 201
Principles of Marine Safety	MSN 230	3	–
Ship Chartering	MST 451	2	MST 353
Multimodal Transport	MST 452	3	–
Logistics	MST 453	3	–
Port Economics	MST 454	2	MST 352
Total		18	

Level 8

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (4)	ISLS 401	2	ISLS 301
Tanker Operations Economics	MST 461	2	MST 352
Applied Statistics	MST 462	2	–
Maritime Accounting	MST 463	2	–
Container Terminal Management	MST 464	2	MST 354
Professional Reports	MST 466	2	–
Graduation Project	MST 467	3	–
Job Market Skills in Ports and Maritime Transport	MST 468	3	–
Total		18	

Elective Courses

Course Name	Code	Credit Units	Prerequisites
Corporate Finance	BUS 340	3	–
Quantitative Analysis (2)	ECON 204	3	–
Shipyard Business Technology	MSN 435	2	–

Course Name	Code	Credit Units	Prerequisites
Marine Traffic Management	MSN 445	2	–
Commercial Transactions Law	MST 350	2	MST 353
Economic Geography	MST 357	2	MST 352
Petroleum Port Management	MST 455	2	MST 354
Maritime Safety and Security Management	MST 456	2	–
Special Topics	MST 457	2	–
Maritime Feasibility Studies	MST 458	2	–
Liner Shipping Economics	MST 465	2	MST 352

Students are required to select 9 credit units out of the 24 credit units offered in electives.

3.10 Exit Point

An exit point is provided upon the successful completion of a minimum of 6^{yr} credit hours, through which the student becomes eligible for the award of an Advanced Diploma in Port Management.

3.10.1 Objectives of the Advanced Diploma

The objectives of the Advanced Diploma in Port Management are to:

- To provide students with theoretical and practical foundations in maritime transport and supply chain fields.
- To enable students to pursue operational-level jobs in the maritime and logistics sectors.
- To support national strategies aimed at enhancing the readiness of the local workforce for employment in transport and logistics sectors.
- To align learning outcomes with Level 5 of the National Qualifications Framework, ensuring proper progression in both academic and professional tracks.

3.10.2 Expected Learning Outcomes

Graduates of the Advanced Diploma are expected to demonstrate:

- Mastery of fundamental concepts in supply chains, maritime transport, and logistics practices.
- Development of practical skills in port management, shipping operations, and ship operation.
- Qualification for employment in seaports, shipping companies, maritime agencies, and logistics services.
- Commitment to professional values and work ethics in the maritime and logistics field.

3.10.3 Proposed Study Plan

The proposed study plan for the Advanced Diploma is presented in following Table. The 6^{yr}-credit curriculum was carefully designed to establish a strong foundation in basic sciences (Levels 1-2), followed by core maritime and port principles (Levels 3-4), and culminating in specialized port management and operation topics (Levels 5-6).

Course Code	Course Title	Level	Credit Hours
MATH 110	General Mathematics 1	1	3
PHYS 110	General Physics 1	1	3
CPIT 110	Programming and Problem Solving	1	3
ELIS 110	Scientific English 1	1	3
CHEM 110	General Chemistry 1	2	3
STAT 110	General Statistics 1	2	3
BIO 110	General Biology 1	2	3
ELIS 120	Scientific English 2	2	3
HYPS 281	Physics Lab	3	1
ACCT 117	Principles of Financial Accounting	3	3
BUS 220	Organization Management	3	3
ECON 107	Principles of Microeconomics	3	3
ACCT 317	Cost Accounting	4	3
ECON 203	Principles of Macroeconomics	4	3
ECON 320	International Economics	5	3
MST 351	Ship Operation Basics	5	2
MST 352	Maritime Transport Economics	5	3
MST 353	Maritime Law	5	2
MST 354	Port Management	5	3
MST 355	Shipping Operations	5	2
MST 361	Cargo Transport Law	6	2
MST 362	Port Operations	6	3
MST 363	Marine Insurance	6	3
Total			62

3.11 Academic and Administrative Staff

The department Supply Chain Management and Maritime Business (SCMMB) has a sufficient number of highly qualified administrative and academic staff who collectively ensure the effective

3- Department of Supply Chain Management and Maritime Business Academic and Administrative Staff

management of the program, the provision of high-quality support services, and the delivery of a strong educational experience for both students and faculty members. Each staff member operates according to clearly defined roles and responsibilities, which supports smooth operations and provides a supportive learning environment.

The Department of Supply Chain Management and Maritime Business is committed to a consistent policy of recruiting full-time staff according to their areas of specialization, as illustrated in the following table:

	Staff qualification	Number of staff
1	Full Professor	1
2	Associate Professor	4
3	Assistant Professor	5
4	Lecturer	1
4	Teaching assistant	1
	Total	12

All listed staff members hold qualifications in management, operation, and planning of port and maritime transport or logistics, both of which are closely related to the field of Ports and Maritime Transport. The following tables provide a summary of the academic and administrative staff available in the Ports and Maritime Transport Program and their qualifications.

Faculty Member Name	Shawqi Suleiman AbuSulaiman
Academic Rank	Full Professor
Nationality	Egyptian
Degree	Ph.D., 2015
Graduated From	RMIT University, Melbourne, Australia
Mode of Study	Full-time
General Field:	Logistics
Specialty Areas	Logistics and Decision Support Systems

Faculty Member Name	Akram Mohammed Al-Antabli
Academic Rank	Associate Professor
Nationality	Egyptian
Degree	Ph.D., 2004
Graduated From	Arab Academy for Science, Technology and Maritime Transport - Egypt
Mode of Study	Full-time
General Field:	Maritime Transport
Specialty Areas	Maritime Transport Economics

3- Department of Supply Chain Management and Maritime Business Academic and Administrative Staff

Faculty Member Name	Ahmed Hany Abou El Enein
Academic Rank	Associate Professor
Nationality	Egyptian
Degree	Ph.D., 2013
Graduated From	Menoufia University - Egypt
Mode of Study	Full-time
General Field:	Maritime Law
Specialty Areas	Maritime and International Cargo Transport

Faculty Member Name	Basem Ibrahim Al-Jubhan
Academic Rank	Associate Professor
Nationality	Saudi
Degree	Ph.D., 2017
Graduated From	Anglia Ruskin University, Cambridge, UK
Mode of Study	Full-time
General Field:	Supply Chain Management
Specialty Areas	Supply Chain Management

Faculty Member Name	Mohammed Hamed Al-Shareef
Academic Rank	Associate professor
Nationality	Saudi
Degree	Ph.D., 2019
Graduated From	North Dakota State University, Fargo, North Dakota, USA.
Mode of Study	Full-time
General Field:	Maritime Transport and Logistics Services
Specialty Areas	Logistics Systems

Faculty Member Name	Ayman Fahad AlGhanmi
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	Ph.D., 2017
Graduated From	Liverpool John Moores University, Liverpool, UK.
Mode of Study	Full-time
General Field:	Maritime Transport
Specialty Areas	Maritime Transport Management

Faculty Member Name	Shadi Najeeb Al-Ghafari
Academic Rank	Assistant Professor
Nationality	Saudi

3- Department of Supply Chain Management and Maritime Business Academic and Administrative Staff

Faculty Member Name	Shadi Najeeb Al-Ghafari
Degree	Ph.D., 2019
Graduated From	University of Tasmania, Tasmania, Australia
Mode of Study	Full-time
General Field:	Ports and Maritime Transport
Specialty Areas	Port Terminal Management and Operations

Faculty Member Name	Mohammed Ishaq Subhan
Academic Rank	Assistant Professor
Nationality	Indonesian
Degree	Ph.D., 2010
Graduated From	Universiti Utara Malaysia, Sintok, Kedah, Malaysia
Mode of Study	Full-time
General Field:	International Business
Specialty Areas	Port Strategies

Faculty Member Name	Hussain Talat Suleimani
Academic Rank	Assistant professor
Nationality	Saudi
Degree	Ph.D., 2021
Graduated From	New Jersey Institute of Technology, Newark, New Jersey, USA
Mode of Study	Full-time
General Field:	Ports and Maritime Transport
Specialty Areas	Maritime Transport Economics

Faculty Member Name	Bassam Mohammed Saleh Al-Jahdali
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	Ph.D., 2022
Graduated From	University of Strathclyde, Glasgow, UK
Mode of Study	Full-time
General Field:	Ship Finance
Specialty Areas	Ship Finance and Decision Support

Faculty Member Name	Abdullah Khalid Al-Hazmi
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master's Degree, 2024
Graduated From	Swansea University, Swansea, UK

Faculty Member Name	Abdullah Khalid Al-Hazmi
Mode of Study	Full time
General Field:	Maritime Law
Specialty Areas	International Maritime Law

Faculty Member Name	Salem Mansour Al-Suwaida
Academic Rank	Teaching Assistant
Nationality	Saudi
Degree	Bachelor's Degree, 2021
Graduated From	King Abdulaziz University, Jeddah, Saudi Arabia
Mode of Study	Full time
General Field:	Ports and Maritime Transport
Specialty Areas	Ports and Maritime Transport

3.12 Facilities and Equipment

The department Supply Chain Management and Maritime Business (SCMMB) ensures that its learning resources and services are adequate and appropriate to meet the needs of the curriculum and the enrolled student population. Resources are regularly reviewed and updated to maintain relevance, quality, and alignment with program requirements by the ***Learning Resources, Facilities, and Equipment Committee*** in the SCMMB department. This approach guarantees that students have access to up-to-date materials and services that support their academic success.

3.12.1 Learning Resources

The KAU central library provides learning resources and reference materials. Ports and Transport students can use the library's two computer labs, which have about 200 computers. These labs are open to all KAU students from 7:30 AM to 10:00 PM. Each computer has internet access, Wi-Fi, and basic office and computing software. Installing specialized software or saving files on the lab computers is not allowed, but students may use personal USB drives or external hard disks. The labs also provide free access to major international research databases, which both students and faculty can use on or off campus through their university accounts.

Additionally, the Deanship of Library Affairs provides a comprehensive digital library that enables students and faculty members to access a wide range of academic resources through both the internet and the university intranet. These resources include the Saudi Digital Library (SDL) and leading international databases such as ScienceDirect, Web of Science (ISI), IEEE Xplore, SpringerLink, Wiley Online Library, EBSCO, Cambridge Journals, as well as numerous electronic journals, e-books, and other specialized databases.

The Saudi Digital Library (SDL) serves as a gateway to global knowledge and is recognized as the largest repository of academic e-books in the Arab world. It provides access to thousands of full-text e-books across various scientific disciplines and collaborates with more than 300 leading international publishers, including Elsevier, Springer, Pearson, Wiley, Taylor & Francis, and McGraw Hill. The library also hosts publications from distinguished academic authors. For more

information, click here. The library offers a wide range of accessible resources that support the achievement of program outcomes. In addition, essential software and well-equipped teaching and research laboratories are available to meet academic and research needs.

3.12.2 Faculty Offices

The administrative offices, staff areas, classrooms, laboratories, and related facilities are fully adequate to support the program's educational activities. Faculty members are provided with well-furnished, air-conditioned offices that offer sufficient space for individual work, small meetings, and student consultations, and most offices also benefit from natural daylight. Each office is equipped with a desktop and/or laptop computer, essential software, internet access, and telephone communication, while centralized photocopying services are available in the college's main copy room.

The offices are conveniently located near classrooms to enhance accessibility and communication, and the department maintains an open-door policy supported by regular weekly office hours for student guidance. In addition, the Head of the Department has a separate, well-equipped office with an adjacent secretary's office to support administrative work, and a fully furnished meeting room is available for council meetings, committee sessions, staff presentations, and discussions.

3.12.3 Classrooms

The classrooms allocated for the department of Supply Chain Management and Maritime Business (SCMMB) are sufficient in number and appropriately designed to support the teaching and learning process. Each classroom is spacious, well-ventilated, and equipped with modern instructional technologies, including projectors, smart boards, and sound systems, ensuring an effective learning environment. The seating arrangements are comfortable and allow clear visibility for all students. Classrooms are maintained in good condition with proper lighting, air-conditioning, and access to the university network. Their size and distribution adequately meet the program's enrollment capacity, providing a conducive and supportive environment for both lectures and group discussions. The following table shows a list of the available classrooms in the SCMMB department:

#	Room Number	Capacity	Related Courses
1	Classroom 215	30	Shared according to the schedule
2	Classroom 216	30	
3	Classroom 217	30	

3.12.4 Student Affairs Office

The Student Affairs Office operates under the supervision of the Deanship of Admission and Registration. It is located on the ground floor and equipped with computers connected to the university's local network. The main functions of the office include:

1. Assisting with student registration and providing data related to enrollment and academic progress, which supports the evaluation process.

2. Accessing the registration system to help resolve any issues students encounter during course registration.

4. Department of Nautical Science

4.1 Program Overview

History has shown that no great nation has ever existed without a strong maritime fleet, and such a fleet cannot be sustained without specialized maritime education that prepares highly qualified personnel to operate it. In this context, the Nautical Science program at the Faculty of Maritime Studies is designed to provide students with the academic knowledge and practical training needed to meet the highest professional standards in the maritime field.

The program is structured in accordance with the international requirements of the STCW 95 Convention of the International Maritime Organization (IMO). It combines theoretical study with hands-on maritime training to ensure that students develop the competencies required for safe and efficient ship operations. Through this integrated approach, students gain a solid foundation in navigation, ship handling, maritime safety, cargo operations, and related professional disciplines.

Students in the program earn a Bachelor's degree in Nautical Science over a five-year period, which includes academic study and 12 months of onboard maritime training. This training provides valuable real-world experience and helps students apply their knowledge in professional shipboard environments. It also strengthens their understanding of the responsibilities, discipline, and teamwork required at sea.

Upon graduation, the program qualifies students for an international Second Officer Certificate recognized worldwide, enabling them to work on both local and international deep-sea vessels of 500 tons or more. Graduates are prepared to perform effectively as part of a professional maritime team, contributing to safe navigation, efficient vessel operations, and the advancement of the maritime sector at both national and international levels.

4.2 Mission, Objectives, and Learning Outcomes

4.2.1 Program Mission

Providing a distinctive marine education for marine cadres compatible with the development of the maritime transport industry.

4.2.2 Program Objectives

1. Provide world-class education and training in Nautical Science.
2. Promote scientific research in maritime industry.
3. Apply E-learning including simulator training.
4. Prepare graduates for the certificate of competency license according to STCW 95/10.

5. Promote maritime safety culture and environment protection (Safer Shipping, Cleaner Ocean).
6. Inculcate leadership and entrepreneurship for graduates.
7. Establish a postgraduate program to promote the knowledge, skills, and competencies of the graduates.

4.2.3 Program Learning Outcomes

Knowledge and Understanding	
K1	Identify the principles of ship's navigation and paper charts work, passage planning, and usages of navigational equipment.
K2	Describe the cargo handling and ship's stability procedures to maintain safe operation according to all maritime regulations and conventions.
K3	Select the appropriate marine communication device for external/internal, ship-to-ship, and ship-to-shore communication.
Skills	
S1	Demonstrate good practice of ship's operations to maintain the safety of life, properties, and environment.
S2	Perform highly seamanship practices to ensure the safety of navigation and persons on board.
S3	Perform real paper chart work to maintain a safe navigational watch.
S4	Illustrate a good utilization of navigational aids and equipment.
S5	Employ the maritime regulations and conventions for the ship's handling operation.
Values, Autonomy, and Responsibility	
V1	Demonstrate academic ethics and professional responsibilities in the nautical science career.
V2	Show that continuous learning is a necessity as well as a responsibility of nautical science graduates.
V3	Participate effectively in teamwork and provide leadership, collaboration, and create an inclusive environment.

4.3 Graduate Attributes:

- 1- Analyzing and solving general and marine navigation related problems
- 2- Applying general and marine related ship's handling principles
- 3- Collaborating effectively on a team
- 4- Demonstrating effective oral and written communication
- 5- Providing leadership, collaboration, and creating inclusive working environment
- 6- Demonstrating ethical and professional responsibilities
- 7- Having a good command of English
- 8- Able to participate effectively on multi- disciplinary tasks

- 9- Being proficient and skilled in several general and marine navigation and cargo related systems and equipment
- 10- Being open, curious, willing to investigate, and consider new knowledge and ways of thinking
- 11- Cultural competency
- 12- Independence and proactive
- 13- Resilience and adaptation

4.4 Career Opportunities for Graduates:

1. Navigation officers and captains on government and commercial deep-sea vessels (cargo, passenger, oil).
2. Positions within maritime authorities at ports and the Ministry of Transport.
3. Marine inspectors in shipping companies, marine navigation departments, and port control units.
4. Employment in shipyards, dry docks, oil platforms, and scientific research vessels.
5. Academic and training positions at universities, academies, colleges, and maritime institutes.

4.5 Alignment of PLOs with Labor Market

To ensure students are fully prepared for the labor market, the Nautical Science curriculum is strategically designed around Program Learning Outcomes (PLOs). These outcomes are not limited to academic achievement; they directly reflect the operational competencies, navigational expertise, safety awareness, and leadership qualities required by employers across the maritime industry.

Whether students aspire to serve onboard merchant vessels as deck officers, manage vessel traffic systems, contribute to port and terminal operations, or support maritime safety and regulatory frameworks, every course, simulator exercise, sea-training phase, and practical assessment is carefully aligned to bridge academic preparation with real-world professional demands.

The Bachelor of Science in Nautical Science Program equips graduates with internationally relevant competencies aligned with STCW requirements, IMO standards, and the evolving needs of global and national maritime sectors. The table below demonstrates how the Knowledge (K), Skills (S), and Values (V) developed throughout the program prepare students for diverse career opportunities in the maritime labor market.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
1	Sea-Based Navigation & Deck Operations (Deck Officer, Officer of the Watch, Second Mate, Navigating Officer)	Safe navigation, passage planning, watchkeeping, ship stability, COLREG compliance, and emergency response.	K1, K2, S1, S2, S3, S5: Navigation principles, chart work, ship stability, seamanship, and maritime regulations. V1, V3: Ethical responsibility and teamwork under operational pressure.	Situational awareness, decision-making, resilience, independence, operational leadership.
2	Port Operations & Vessel Traffic Services (VTS Operator, Port Operations Officer, Harbour Authority).	Traffic coordination, navigational monitoring, communication systems, regulatory compliance, and logistics efficiency.	K1, K3, S3, S4, S5: Navigational systems, communication tools, charting, and regulatory application.	Leadership, communication, system coordination, analytical thinking.
3	Offshore & Marine Operations (Oil & Gas Support, Offshore Logistics, Marine Operations Officer)	Safe offshore navigation, cargo operations, environmental protection, crisis response, and equipment operation.	K2, K3, S1, S2, S4: Cargo handling, ship stability, communication systems, and navigational aids.	Problem-solving, adaptability, safety consciousness, technical competence.
4	Maritime Safety, Inspection & Regulatory Authorities (Safety Officer, Marine Inspector, Coast Guard, Naval Officer)	Regulatory enforcement, maritime law, safety auditing, inspection, emergency readiness, and public safety.	K2, K3, S5, V1: Maritime conventions, communication systems, professional ethics, and compliance.	Ethical responsibility, discipline, regulatory awareness, leadership.
5	Maritime Education, Training & Consultancy (Simulator Instructor, Maritime Trainer, Academic Career)	Continuous learning, advanced operational expertise, simulator proficiency, teaching ability, and professional development.	K1, S1, S4, V2, V3: Navigation expertise, communication, practical skills, teamwork, and lifelong learning.	Open mindset, instructional capability, innovation, academic integrity.

The Program Learning Outcomes are embedded in the curriculum to prepare students for successful careers in the maritime industry as follows:

- **Knowledge (K1–K3):** Building a strong navigational and operational foundation. The maritime labor market requires graduates who possess a deep understanding of navigation, ship stability, cargo operations, and communication systems. Through mastering chart work,

maritime regulations, and operational procedures, students gain the essential knowledge needed to ensure ships operate safely, efficiently, and in compliance with international standards.

- **Skills (S1–S5):** Developing professional operational competence. Employers seek graduates who can translate theory into practice. Through simulator-based exercises, practical seamanship, bridge resource management, chart plotting, and navigational equipment usage, students develop the technical and operational capabilities required to maintain safety, optimize vessel performance, and manage real maritime challenges.
- **Values, Autonomy, and Responsibility (V1–V3):** Building leadership and professional identity. The maritime profession depends on discipline, ethical conduct, teamwork, and adaptability. The program fosters these qualities by emphasizing professional responsibility, lifelong learning, and leadership development, ensuring graduates are prepared to function effectively in multicultural maritime environments and assume positions of increasing responsibility.

By focusing on these Program Learning Outcomes, students are not only completing an academic degree but are also building the navigational expertise, operational proficiency, and professional mindset required to succeed in the global maritime industry, support Saudi Arabia's maritime growth, and contribute to the advancement of safe and sustainable maritime operations.

4.6 Program-specific Admission Criteria

The admission criteria for the Nautical Science Program may vary annually based on departmental capacity, academic priorities, and maritime industry requirements. To ensure that admitted students are capable of meeting the academic, physical, medical, and professional demands of maritime education and future shipboard service, the Nautical Science Department establishes program-specific admission standards aligned with King Abdulaziz University regulations, STCW requirements, and international maritime medical fitness standards.

Beginning with the approved admission cycle, applicants to the Bachelor of Science in Nautical Science Program must satisfy the following criteria:

1. The cumulative Grade Point Average (GPA) for the preparatory year must not be less than 3.5 out of 5.0.
2. The student's grade in Mathematics (Math) must not be less than 75.
3. The student's grade in Physics (Physics) must not be less than 75.
4. The student's grade in English language courses must not be less than 80.
5. Passing the approved medical examination in accordance with maritime health and fitness standards.
6. The applicant's Body Mass Index (BMI) must range between 17–27.
7. Vision must be 6/6 (normal visual acuity).
8. Passing the personal interview according to the department's approved evaluation system.
9. Passing the medical and physical fitness assessment, confirming the applicant's ability to meet STCW Basic Safety Training (BST) and operational readiness requirements.

10. Passing the basic practical requirements for personal survival, including the ability to safely jump from a height into the water, in addition to swimming.
11. Soundness of hearing, speech, and vision to ensure effective communication, understanding of instructions, and detection of and response to alarms.
12. Freedom from medical or psychological conditions that could worsen at sea or create risks to the applicant or others onboard.
13. Applicants must not be using medications or treatments that may impair judgment, concentration, balance, or safe performance of navigational responsibilities.
14. Physical capability to function effectively in the maritime environment.

4.7 Structure of the Program

The Nautical Science Program prepares students to serve as qualified deck officers, navigators, and maritime professionals in the global shipping industry while equipping them with a comprehensive academic and operational education that supports diverse professional pathways in maritime transportation, navigation, port operations, and maritime safety sectors. Graduates are prepared for careers onboard merchant vessels, in vessel traffic services, maritime regulatory authorities, offshore operations, shipping logistics, and maritime education and training institutions.

The program is designed to provide students with both academic excellence and professional competency by integrating theoretical instruction, simulator applications, physical training, leadership development, and extensive onboard sea-training. Through this structure, students progressively develop the technical knowledge, navigational proficiency, and professional discipline necessary to pursue Officer of the Watch (OOW) certification and future advancement in the maritime sector.

The curriculum also offers students flexibility to tailor aspects of their academic journey through elective courses. Students complete five elective courses that allow them to expand their expertise in specialized or emerging maritime fields according to departmental offerings and evolving industry trends. This flexibility supports broader professional development and allows students to align their education with specific maritime career interests.

In addition to technical and operational studies, the curriculum emphasizes environmental awareness, communication, leadership, and cultural identity through courses such as Marine Environment, Oceanography, Maritime English, Communication Skills, Islamic Studies, and Arabic Language. These courses contribute to the development of well-rounded maritime professionals capable of operating effectively in multicultural and international maritime environments.

To strengthen practical competence and industry engagement, the Nautical Science Department places strong emphasis on field training and onboard experience through summer sea training and long sea training phases. These practical components ensure students gain real-world operational exposure and bridge the gap between classroom knowledge and professional maritime practice.

The Nautical Science (NS) Program requires the completion of the following components:

No	Requirements		Number of Courses	Number of Units
1	Preparatory year requirements		9	27
2	University requirements		6	14
3	Faculty requirements		3	9
4	Department requirements	Mandatory courses	28	71
		Elective Courses	05	10
		Training	03	12
		Refreshment	6	-
	Total		60	143

4.8 Program Requirements

In addition to the preparatory year, university, and college requirements discussed in Section 1.5 “Graduation Requirements”, the ME program requires the following courses.

4.8.1 Mandatory Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Principles of Marine Navigation	MSN 240	3	2	-	3	PHYS 204 + MATH 201
2	Seamanship	MSN 241	3	2	-	3	
3	Navigation Instruments	MSN 242	3	2	-	3	PHYS 204
4	Maritime Communication	MSN 243	2	2	-	2	PHYS 204
5	Ship Construction	MSN 244	3	2	-	3	
6	Marine Meteorology	MSN 245	2	2	-	2	
7	Leadership & Physical Training 1	MSN 291	-	-	2	1	
8	Coastal Navigation	MSN 330	3	2	-	3	MSN 240
9	Deck Operation	MSN 331	3	2	-	3	MSN 241
10	Electronic Navigation Systems	MSN 332	3	2	-	3	MSN 242
11	Celestial Navigation	MSN 333	3	2		3	MSN 240
12	Ship Stability	MSN 334	3	2	-	3	PHYS 204
13	Voyage Planning	MSN 340	3	2	-	3	MSN 330
14	Ship Tracking Systems	MSN 341	3	2	-	3	MSN 332
15	Maritime English	MSN 342	2	2	-	2	ELCS 102

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
16	International Maritime Law	MSN 343	2	-	-	2	
17	Dry Cargo Handling	MSN 344	3	2	-	3	MSN 331
18	Leadership & Physical Training 2	MSN 391			2	1	
19	Liquid Cargo Handling	MSN 430	3	2	-	3	MSN 334
20	Technical Reporting & Methodology	MSN 431	2	-	-	2	MSN 342
21	Maritime Meteorology Applications	MSN 432	2	2	-	2	MSN 245
22	Safe Operation of Petroleum Tanker	MSN 441	2	2		2	MSN 430
23	Maritime Convention	MSN 442	2			2	
24	Graduation Project	MSS 444				3	MSN 431
Total						60	

4.8.2 Elective Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Elective Course (1)	-	2	-	1	2	Depend on the course
2	Elective Course (2)	-	2	-	1	2	Depend on the course
3	Elective Course (3)	-	2	-	1	2	Depend on the course
4	Elective Course (4)	-	2	-	1	2	Depend on the course
5	Elective Course (5)	-	2	-	1	2	Depend on the course
Total						10	

Students should select 10 units out of 20 from the following List:

#	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Special Topic	MSN 434	2		1	2	
2	Shipyard Operation Technology	MSN 435	2			2	MSN 244
3	Maritime Safety & Security Management	MSN 440	2			2	MSN 343
4	Maritime Transport Economics	MSN 443	2			2	
5	Maritime Traffic Management	MSN 445	2		1	2	MSN 342
6	Maritime Search and Rescue	MSN 446	2		1	2	

#	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
7	Sea Ports Management	MSN 447	2		1	2	
8	Maritime Accident and incident investigation	MSN 448	2			2	
9	Ship and Cargo Marine Insurance	MSN 449	2			2	MSN343 + MSN443
10	Automatic Control	MSN 580	2			2	
Total		20					

4.8.3 Training Courses:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Summer Training on Board Ship (2 month)	MSN 293	-	-	2	2	-
2	Summer Training on Board Ship (2 month)	MSN 393	-	-	2	2	
	Long Sea Training on Board Ship (8 months)	MSN 593	-	-	8	8	
Total						12	

4.9 Study Plan

Level 1

Course Name	Code	Credit Units	Prerequisites
Programming and Problem Solving	CPIT 110	3	—
English Language – Scientific (1)	ELIS 110	3	—
General Mathematics (1)	MATH 110	3	—
General Physics (1)	PHYS 110	3	—
Total		12	

Level 2

Course Name	Code	Credit Units	Prerequisites
General Biology (1)	BIO 110	3	—
General Chemistry (1)	CHEM 100	3	—
English Language – Scientific (2)	ELIS 120	3	ELIS 110
General Statistics (1)	STAT 110	3	—
Total		12	

Level 3

Course Name	Code	Credit Units	Prerequisites
Language Skills	ARAB 101	3	–
Mathematics for Maritime Studies	MATH 201	4	MATH 110
Physics	PHYS 204	4	PHYS 110
Physics Lab	PHYS 281	1	PHYS 110
Marine Sciences	MS 201	3	–
Principles of Marine Safety	MSN 230	3	–
Leadership and Physical Training (1)	MSN 291	1	–
Total		19	

Level 4

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (1)	ISLS 101	2	–
Fundamentals of Marine Navigation	MSN 240	3	MATH 201 + PHYS 204
Seamanship	MSN 241	3	–
Navigational Instruments	MSN 242	3	PHYS 204
Marine Communication	MSN 243	2	PHYS 204
Ship Construction	MSN 244	3	–
Marine Meteorology	MSN 245	2	–
Total		18	

Summer Training

Course Name	Code	Credit Units	Prerequisites
Marine Training (1) Onboard Ships	MSN 293	2	–
Total		2	

Level 5

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (2)	ISLS 201	2	ISLS 101
Coastal Navigation	MSN 330	3	MSN 240
Deck Operations	MSN 331	3	MSN 241
Electronic Navigation Systems	MSN 332	3	MSN 242
Celestial Navigation	MSN 333	3	MSN 240
Ship Stability	MSN 334	3	PHYS 204
Leadership and Physical Training (2)	MSN 391	1	–
Total		18	

Level 6

Course Name	Code	Credit Units	Prerequisites
Marine Environment	MS 202	3	–
Voyage Planning	MSN 340	3	MSN 330
Ship Department Monitoring Systems	MSN 341	3	MSN 332
Maritime English	MSN 342	2	ELCS 102
International Maritime Law	MSN 343	2	–
Dry Cargo Handling	MSN 344	3	MSN 331
Introduction to Marine Engineering	MSE 389	2	–
Total		18	

Summer Training

Course Name	Code	Credit Units	Prerequisites
Marine Training (2) Onboard Ships	MSN 393	2	–
Total		2	

Level 7

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (3)	ISLS 301	2	ISLS 201
Writing Skills	ARAB 102	3	ARAB 101
Liquid Cargo Handling	MSN 430	3	MSN 334
Professional Reports	MSN 431	2	MSN 342
Research Methods	MSN 432	2	MSN 245
Marine Meteorology Applications	–	2	–
Elective (1)	–	2	–
Total		16	

Level 8

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (4) (Professional Ethics)	ISLS 401	2	ISLS 301
Tanker Operations Safety	MSN 441	2	MSN 430
Petroleum	MSN 442	2	–
Maritime Conventions	–	2	–
Elective (3)	–	2	–
Elective (4)	–	2	–
Elective (5)	MSN 444	3	MSN 431
Graduation Project	ISLS 401	2	ISLS 301
Total		15	

Summer Training

Course Name	Code	Credit Units	Prerequisites
Marine Training (3) Long-term on Commercial Ships	MSN 593	8	–
Total		8	

Elective Courses

Course Name	Code	Credit Units	Prerequisites
Special Topics	MSN 434	2	–
Shipyard Business Technology	MSN 435	2	MSN 244
Maritime Safety and Security Management	MSN 440	2	MSN 343
Maritime Transport Economics	MSN 443	2	–
Marine Traffic Management	MSN 445	2	MSN 342
Maritime Search and Rescue	MSN 446	2	–
Port Management	MSN 447	2	–
Marine Accidents and Investigations	MSN 448	2	–
Marine Insurance on Ships and Cargo	MSN 449	2	MSN 343 + MSN 443
Automatic Control	MSE 580	2	–

Students are required to select 10 credit units out of the 20 credit units offered in electives.

4.10 Exit Point

An exit point is provided upon the successful completion of a minimum of 86 h credit hours which is 60% of the program, through which the student becomes eligible for the award of an Advanced Diploma in Marine Engineering.

4.10.1 Objectives of the Advanced Diploma

The objectives of the Advanced Diploma in nautical science are to:

- Provide students with fundamental knowledge and practical skills in maritime navigation and ship operation.
- Prepare graduates to work as navigational assistants or maritime technicians onboard ship or in maritime support services.
- Develop competencies in safe navigation, watchkeeping, and using navigational equipment in accordance with international maritime standards.
- Ensure alignment of learning outcomes with the requirements of Level 5 of the National Qualifications Framework (NQF) and relevant standards of the International Maritime Organization (IMO) "

4.10.2 Expected Learning Outcomes

Graduates of the Advanced Diploma are expected to demonstrate:

- Understanding of fundamental principle and knowledge of navigation and maritime safety procedures.
- Proficiency in performing basic navigational tasks and using navigational equipment.
- Qualification for employment in seaport and maritime agencies.
- Commitment to professional conduct, with the ability to perform assigned duties under supervision with partial independence.

4.10.3 Proposed Study Plan

The proposed study plan for the Advanced Diploma is presented in following Table. The 86-credit curriculum was carefully designed to establish a strong foundation in basic sciences (Levels 1-2), followed by core nautical science program (Levels 3-4), and culminating in specialized nautical science topics (Levels 5-6).

	Course Code	Title	Level	Credit Hours
1	MATH 110	General Mathematics I	1	3
2	PHYS 110	General Physics (1)	1	3
3	ELCS 101	Intensive English (1)	1	2
4	CPIT 100	Basic Computer Science	1	3
5	BIO 110	Biology	2	3
6	CHEM 110	Chemistry	2	3
7	COMM 101	Communication Skills	2	3
8	STAT 110	Statistics	2	3
9	ELCS 102	Intensive English (2)	2	3
10	ARAB 101	Arabic Language I	3	3
11	MATH 201	Mathematics for Maritime Studies	3	4
12	PHYS 204	Physics 204	3	4
13	PHYS 281	Physics (Practical)	3	1
14	MSN 240	Principles of Marine Navigation	4	3
15	MSN 241	Seamanship	4	3
16	MSN 242	Navigation Instruments	4	3
17	MSN 243	Maritime Communication	4	2
18	MSN 244	Ship Construction	4	3
19	MSN 245	Marine Meteorology	4	2
20	MSN 291	Leadership & Physical Education 1	3	1
21	MSN 330	Coastal Navigation	5	3
22	MSN 331	Deck Operation	5	3

	Course Code	Title	Level	Credit Hours
23	MSN 332	Electronic Navigation Systems	5	3
24	MSN 333	Celestial Navigation	5	3
25	MSN 334	Ship Stability	5	3
26	MSN 340	Voyage Planning	6	3
27	MSN 341	Ship Tracking Systems	6	3
28	MSN 342	Maritime English	6	3
29	MSN 343	International Maritime Law	6	3
30	MSN 344	Dry Cargo Handling	6	3
31	MSE 389	Introduction to Marine Engineering	6	1
	Total Units			86

4.11 Academic and Administrative Staff

The Nautical Science (NS) program is supported by a sufficient number of highly qualified administrative, professional, technical, and teaching personnel who collectively ensure effective program management, quality academic delivery, operational efficiency, and comprehensive student support services. These personnel play a vital role in maintaining the academic, practical, and professional standards required for preparing future maritime officers and navigational professionals. Each staff member performs clearly defined responsibilities and operates within established authorities that contribute to smooth departmental operations, effective student guidance, simulator readiness, and the delivery of high-quality maritime education.

The Nautical Science Department maintains a consistent policy of recruiting full-time faculty and support staff according to their academic qualifications, maritime certifications, operational expertise, and specialization in areas directly relevant to nautical science. This includes expertise in navigation, seamanship, maritime safety, ship operations, maritime law, cargo handling, marine communication, and simulator-based maritime training. Such specialization ensures that students receive academically rigorous instruction combined with practical and industry-relevant knowledge aligned with STCW, IMO, and national maritime standards.

The NS department maintains a consistent policy of recruiting full-time staff in accordance with their area of specialization, as reflected in the following table:

	Staff qualification	Number of staff
1	Full Professor	0
2	Associate Professor	0
3	Assistant Professor	11
4	Lecturer	2
	Total	13

All listed staff members hold qualifications in nautical science, maritime studies, marine transportation, or closely related maritime disciplines, with many possessing sea-going experience, professional maritime certifications, or specialized training that strengthens the practical and operational dimensions of the program.

The following tables provide a summary of the available staff in the Nautical Science Program and their qualifications.

Faculty Member Name	Omar Hasan Badokhon
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	University of Strathclyde, Glasgow, UK.
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Maritime Education and Training

Faculty Member Name	Saleh Mohammed Ghonaim
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	University of Strathclyde, Glasgow, UK.
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Navigational Safety Engineering

Faculty Member Name	Alaa Uthman Khawajah
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	University of Strathclyde, Glasgow, UK.
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Maritime Security

Faculty Member Name	Mohammed Mostafa Kamal
Academic Rank	Assistant Professor
Nationality	Bangladesh
Degree	Master Mariner from Maritime & Coast Guard Agency, United Kingdom, Under Lancaster University.
Graduated From	UK

Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Navigation, Ship Stability, Maritime Labour Market Skill Seamanship

Faculty Member Name	Mohammed Emad Gommosani
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	University of Strathclyde, Glasgow, UK.
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Navigational Safety Engineering

Faculty Member Name	Yaser Hamed Sendi
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	D.Eng.
Graduated From	Old Dominion University
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Modeling and Simulation Engineering

Faculty Member Name	Shah Alim
Academic Rank	Assistant Professor
Nationality	India
Degree	Certificate of Competency class 1 (COC1)
Graduated From	Government of India
Mode of Study	Full-Time
General Field:	Nautical Science
Specialty Areas	STCW

Faculty Member Name	Altaf Ur Rehman
Academic Rank	Assistant Professor
Nationality	Pakistani
Degree	MS (Maritime Education and Training)
Graduated From	World Maritime University Malmo Sweden
Mode of Study	Full-Time
General Field:	Nautical Science
Specialty Areas	Maritime Education and Training

Faculty Member Name	Hani Mohammed Alyami
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	Liverpool John Moores University, UK
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Risk Management Application

Faculty Member Name	Mohammed Alremeheai
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	Newcastle University , UK
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Dynamic Position

Faculty Member Name	Hadi Fadil Bantan
Academic Rank	Assistant Professor
Nationality	Saudi
Degree	PhD
Graduated From	University of Strathclyde, Glasgow, UK.
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Maritime Simulation and Training

Faculty Member Name	Ziad Shbana
Academic Rank	Teaching Assistant
Nationality	Saudi
Degree	PhD
Graduated From	Norwich University, UK
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Maritime Systems – Environmental Engineering

Faculty Member Name	Ahmed Sindi
Academic Rank	Teaching Assistant
Nationality	Saudi

Faculty Member Name	Ahmed Sindi
Degree	B.Sc.
Graduated From	King Abdul-Aziz University
Mode of Study	Full-time
General Field:	Nautical Science
Specialty Areas	Nautical Science

4.12 Facilities and Equipment

The Nautical Science (NS) Program ensures that its learning resources, facilities, and equipment are adequate, appropriate, and professionally aligned with the curriculum, student population, and international maritime education requirements. The program benefits from the infrastructure of the Faculty of Maritime Studies (FMS), which provides specialized maritime laboratories, bridge simulators, chart rooms, communication systems, and practical safety training facilities. These resources collectively ensure that Nautical Science students receive a balanced educational experience that integrates theoretical knowledge, simulator-based competency development, and real-world maritime operational preparation.

4.12.1 Learning Resources

King Abdulaziz University provides Nautical Science students with comprehensive learning resources and reference materials that support academic achievement, professional competency, and research development. Through the KAU Central Library, students have access to physical and digital learning resources, including computer laboratories equipped with approximately 200 computers, internet access, Wi-Fi, and essential academic software. These facilities are available to students for extended daily hours and provide access to major international academic databases both on and off campus through university accounts.

The Deanship of Library Affairs also provides a comprehensive digital learning environment through the Saudi Digital Library (SDL) and other major international databases such as ScienceDirect, Web of Science, IEEE Xplore, SpringerLink, Wiley Online Library, EBSCO, and Cambridge Journals. These resources provide access to thousands of e-books, academic journals, maritime publications, and specialized references that support teaching, research, and continuous learning.

At the faculty and program levels, Nautical Science students additionally benefit from specialized maritime learning resources including navigation laboratories, chart rooms, bridge simulators, GMDSS communication laboratories, and practical safety training facilities. Together, these university-wide and program-specific resources ensure that students have access to the academic references, technical systems, and practical training environments necessary to achieve program learning outcomes and meet international maritime education standards.

4.12.2 Faculty Offices

The Nautical Science Department provides faculty members with well-equipped administrative and academic offices that support teaching, student advising, academic planning, and research activities. Offices are adequately furnished, air-conditioned, and equipped with computers, internet connectivity, office software, and communication systems. Faculty offices are located strategically to facilitate accessibility for students during office hours and academic consultations.

The department also maintains dedicated administrative offices for the Head of Department, academic coordination, and departmental support staff to ensure smooth operational management, student support, and quality assurance processes

4.12.3 Classrooms

The classrooms, laboratories, and simulator facilities allocated for the Nautical Science (NS) program are sufficient in number and appropriately designed to support the teaching, learning, and professional competency requirements of maritime education. Each classroom is adequately equipped with modern instructional technologies, including projectors, presentation systems, and appropriate seating arrangements, while specialized laboratories and simulators provide practical training aligned with STCW competency standards. These facilities collectively support theoretical instruction, navigation practice, maritime communication, cargo operations, and bridge resource management. Their size, technological support, and distribution adequately meet the program's enrollment capacity and provide a conducive environment for both classroom teaching and simulator-based maritime training. Based on the current departmental schedule, the following table summarizes the primary classrooms and specialized facilities used for Nautical Science (MSN) courses.

#	Room Number	Capacity	Related Courses
1	Classroom 101 (Main Hall)	100	MSN 230, MS 201, MS 202
2	Classroom 102	25	MSN 230, MSN 342, MSN 344, MSN 391
3	Classroom 103	20	MSN 334, MSN 344
4	Classroom 123	20	MSN 240, MSN 334, MSN 430
5	Classroom 124	30	MSN 240, MSN 241, MSN 333, MSN 341
6	Classroom 202	40	MSN 240, MSN 432, MSN 441, MSN 447
7	Classroom 211	30	MSN 245, MSN 333
8	Classroom 212	30	MSN 243, MSN 244, MSN 343
9	Classroom 214	30	MSN 331, MSN 442
10	Classroom 215	30	MSN 244, MSN 343
11	Classroom 217	30	MSN 332, MSN 432
12	Classroom 302	20	MSN 334, MSN 341, MSN 430

4.12.4

4.12.5 Student Affairs Office

The Student Affairs Office operates under the supervision of the Deanship of Admission and Registration. It is located on the ground floor and equipped with computers connected to the university's local network. The main functions of the office include:

1. Assisting with student registration and providing data related to enrollment and academic progress, which supports the evaluation process.
2. Accessing the registration system to help resolve any issues students encounter during course registration.

4.12.6 Laboratories

The Nautical Science Program provides a wide range of specialized laboratories and simulator-based facilities essential for competency-based maritime education. These facilities are aligned with STCW requirements and enable students to apply theoretical concepts in operationally realistic environments. Each lab is furnished with modern equipment and experimental setups that allow students to apply theoretical knowledge to practical situations, conduct measurements, analyze data, and develop technical problem-solving skills. The laboratories are regularly maintained and upgraded to meet international safety and quality standards, ensuring a productive and secure learning environment for students and faculty members.

The following table lists the laboratories available in the Marine Engineering Department. Additional laboratories, including those for Thermodynamics, Fluid Mechanics, and Heat Transfer, are provided by the Faculty of Engineering at KAU, where the corresponding courses are conducted.

#	Laboratory Name	Room	Courses Taught
1	GMDSS Simulator	IMTC	MSN 243, MSN 245, MSN 344
2	Chart Lab	230	MSN 330, MSN 340, MSN 343
3	Survey Lab 1	122	MSN 434, MSN 440, MSN 441
4	English Lab	121	MSN 431
5	Platform Classroom	301	Maritime Safety Practical Training
6	Firefighting simulator	-	MSN 230
7	Lifeboat platform	-	MSN 230
8	Bridge Simulator Training Facility	IMTC	-

All computers in the computer lab are connected to the university's internet network. Each workstation is equipped with the software packages required for course instruction and research activities.

#	Application	Available Software
1	Programming	MATLAB
2	Computer Aided Design	AutoCAD and Solid Works
3	Database	Microsoft Access
4	Word Processing	Microsoft Word
5	Spreadsheets	Microsoft Excel
6	Presentations	Microsoft PowerPoint

5. Department of Hydrographic Surveying

5.1 Program Overview

The Department of Hydrographic Surveying is one of the leading departments within the Faculty of Maritime Studies at King Abdulaziz University. It aims to prepare professionals specialized in marine surveying in accordance with international standards set by the International Hydrographic Organization (IHO). The department focuses on equipping students with the scientific knowledge, practical experience, and technical skills required to perform hydrographic surveys, support safe marine navigation, and manage marine spatial data effectively.

Through its academic curriculum and field-based training, the department develops graduates who are capable of using modern surveying technologies, processing and interpreting hydrographic data, and contributing to charting, coastal development, and marine resource management. It also emphasizes the importance of accuracy, safety, and environmental responsibility in all surveying activities.

In addition, the department plays an important role in supporting the Kingdom's maritime sector by preparing highly qualified graduates who can meet the growing demands of local and international labor markets. Its educational mission aligns with the broader goals of advancing maritime infrastructure, promoting sustainable use of marine resources, and strengthening the connection between academic learning and professional practice.

5.2 Mission, Objectives, and Learning Outcomes

5.2.1 Program Mission

Preparing distinguished competencies of graduates in the field of hydrographic surveying and scientific research to meet the needs of development plans and the labor market.

5.2.2 Program Objectives

1. Prepare specialized professionals in hydrographic surveying through academic and training programs aligned with (IHO) Category (CAT A/B) standards, enabling them to access employment opportunities in the maritime sector locally and internationally.
2. Promote scientific research and innovation in the fields of hydrographic surveying and remote sensing, and support modern technological solutions for marine charting and hydrographic data management.

3. Contribute to sustainable development by supporting environmental studies of coastal areas and monitoring marine changes to protect and sustain marine resources.
4. Train specialists in marine Geographic Information Systems (GIS) applications to support maritime planning and port and channel management.
5. Strengthen industrial partnerships and international collaboration with academic institutions and global maritime organizations to enhance training and employment opportunities for graduates.
6. Provide continuous professional training programs in the hydrographic surveying sector to improve competencies and enable professionals to keep pace with technological advancements in the field.
7. Promote awareness and knowledge of hydrographic surveying through conferences, seminars, and workshops to highlight its role in supporting the blue economy and safe navigation.

5.2.3 Program Learning Outcomes

Knowledge and Understanding	
K1	Recognize knowledge of science and technology in hydrography disciplines.
K2	Describe the basics of hydrographic surveying techniques and geo-informatics.
Skills	
S1	Apply appropriate hydrography techniques and tools to process and analyze data.
S2	Analyze and solve hydrographic survey problems by applying critical thinking and problem-solving skills.
S3	Design, execute and manage hydrography project activities using available resources to achieve project requirements.
S4	Perform hydrographic surveying effectively with technological and industrial challenges.
S5	Demonstrate international competence as Cat A in hydrographic surveying in accordance with IHO standards.
S6	Demonstrate effective technical communication skills in hydrography field.
Values, Autonomy, and Responsibility	
V1	Demonstrate academic values, professional responsibilities, and a high ethical standard in hydrographic surveying practice.
V2	Show the ability of continuous learning in the field of hydrographic surveying and related topics.
V3	Participate effectively in hydrographic surveying teamwork and provide leadership, collaboration and create an inclusive environment.

5.3 Graduate Attributes

- 1- Creativity in Solving problems
- 2- Critical thinking
- 3- Effective Team-Player
- 4- Effective oral and written communication skills
- 5- Social interaction skills
- 6- professional leadership
- 7- Ethics
- 8- English Proficiency
- 9- Theoretical Excellence
- 10- Practical Excellence
- 11- Implementation of Technology
- 12- Continuous Self-tuition
- 13- Interaction with multicultural groups
- 14- Independence & Proactive
- 15- Resilience and Adaptation

5.4 Career Opportunities for Graduates

Graduates are qualified to work in the General Authority for Survey, Geological Survey Authority, Border Guard, oil companies, pollution control and maritime monitoring departments, as well as all military and civilian maritime authorities that deal with marine surveying and chart design. They can also work as faculty members and trainers in universities, academies, colleges, and maritime institutes.

5.5 Alignment of PLOs with Labor Market

To ensure students are fully prepared for the labor market, the hydrographic surveying curriculum is built around Program Learning Outcomes (PLOs). These PLOs are not just academic goals; they are the exact technical skills, knowledge areas, and professional values that employers in the maritime sector are actively looking for. Every lecture, lab, and project is designed to build a bridge between students' education and their future career. The table below illustrates exactly how the Knowledge (K), Skills (S), and Values (V) you acquire in this program prepare you for the diverse career opportunities in the hydrographic surveying labor market.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
1	Hydrographic Surveyor (IHO Cat A)	International competence in hydrographic surveying according to IHO standards.	S5: Demonstrate international competence as Cat A in hydrographic surveying in accordance with IHO standards.	Practical Excellence; Implementation of Technology; Theoretical Excellence.
2	Marine Geodesist / GIS Specialist	Mastery of foundational and specialized techniques in geo-informatics and navigation systems.	K2: Describe the basics of hydrographic surveying techniques and geo-informatics. S1: Apply appropriate hydrography techniques and tools to process and analyze data.	Implementation of Technology; Theoretical Excellence; English Proficiency.
3	Hydrographic Project Manager	Ability to design, execute, and manage complex maritime projects using available resources.	S3: Design, execute, and manage hydrography project activities using available resources to achieve project requirements.	Professional Leadership; Creativity in Solving Problems; Effective Team-Player.
4	Maritime Technical Consultant	Critical thinking and problem-solving skills to address technological and industrial maritime challenges.	S2: Analyze and solve hydrographic survey problems by applying critical thinking and problem-solving skills. S4: Perform hydrographic surveying effectively with technological and industrial challenges.	Critical Thinking; Creativity in Solving Problems; Social Interaction Skills.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
5	Field Operations Leader	Effective communication in technical fields and leadership within diverse teamwork environments.	S6: Demonstrate effective technical communication skills in the hydrography field. V3: Participate effectively in hydrographic surveying teamwork and provide leadership and collaboration.	Effective Oral and Written Skills; Professional Leadership; Interaction with Multicultural Groups.
6	Compliance and Safety Officer	Adherence to high ethical standards, professional responsibilities, and HSE (Health, Safety, and Environment) awareness.	V1: Demonstrate academic values, professional responsibilities, and a high ethical standard in hydrographic surveying practice.	Ethics; Social Interaction Skills.
7	Research & Development Specialist	Continuous learning and mastery of evolving science and technology in hydrography disciplines.	K1: Recognize knowledge of science and technology in hydrography disciplines. V2: Show the ability of continuous learning in the field of hydrographic surveying.	Continuous Self-tuition; Theoretical Excellence.

The Program Learning Outcomes are embedded in the syllabus to prepare students for successful careers in the hydrographic surveying field as follows

- Knowledge (K1–K2):** The syllabus is designed to build a robust theoretical foundation by requiring students to recognize advanced science and technology within hydrography disciplines and describe the fundamental techniques of geo-informatics and surveying. This knowledge is delivered through a balanced curriculum of lectures and foundational courses that align with international IHO standards, ensuring students master the conceptual frameworks necessary for high-level academic and professional excellence. Students demonstrate their mastery through diverse assessment methods such as multiple-choice questions, quizzes, and essays, which verify their understanding of the scientific principles governing the field.

- **Skills (S1–S6):** To bridge the gap between theory and the labor market, the program embeds practical skills into the syllabus through extensive laboratory work and field training, which accounts for a significant portion of the credit hours. Students are trained to apply hydrographic tools for data analysis, solve complex surveying problems using critical thinking, and manage full-scale projects using available resources. These skills are specifically mapped to industry-ready competencies, such as the ability to perform effectively amidst technological challenges and demonstrate international competence as a "Cat A" surveyor. Assessment of these skills is conducted through practical reports, case studies, and hands-on demonstrations, ensuring graduates can execute the technical tasks required by maritime employers.
- **Values, Autonomy, and Responsibility (V1–V3):** Beyond technical proficiency, the syllabus incorporates a strong ethical and professional framework to develop graduates who can lead with integrity and adapt to an evolving industry. The program emphasizes academic values and high ethical standards in surveying practice while fostering the autonomy needed for continuous lifelong learning. Students are encouraged to participate effectively in teamwork and take on leadership roles, which is reinforced through collaborative projects, debates on ethical dilemmas, and seminars with industry professionals. By integrating these values into the learning experience, the program ensures that graduates possess the social interaction skills and professional responsibility required to thrive in multicultural and challenging maritime environments.

By focusing on these Program Learning Outcomes, students are not only completing their studies but also building the knowledge, skills, and professional mindset needed to succeed in the global maritime industry.

5.6 Program-specific Admission Criteria

The admission criteria for the Hydrographic Surveying program may vary from year to year based on the department's needs. During its 13th meeting in April 2026, the Marine Engineering Council recommended approving the admission requirements for male and female students in the Marine Engineering Department, effective from the 2026–2027 academic year, as follows:

1. The cumulative Grade Point Average (GPA) for the preparatory year must not be less than 3.25.
2. The student's grade must not be less than (85) in the mathematics course (Math 110).
3. The student's grade must not be less than (85) in the Physics course (Physics 110).
4. The student's grade must not be less than (85) in the Statistics course (Stat 110).
5. The student's grade must not be less than (85) in the English language courses for the first and second levels.
6. Passing the personal interview according to the department's evaluation system.

5.7 Structure of the Program

The Hydrographic Surveying program is committed to providing a balanced, sequential, and integrated curriculum that ensures students gain both theoretical knowledge and practical competencies in a structured manner. Courses are carefully organized to build progressively from foundational sciences and engineering principles to advanced topics in marine systems, design, and operations. By aligning learning outcomes across courses and integrating classroom instruction with laboratory and field training, the curriculum maximizes student learning while preparing graduates to meet professional standards, adapt to technological advancements, and contribute effectively to the maritime industry.

The Hydrographic Surveying program requires the completion of the following courses:

No	Requirements		Number of Courses	Number of Units
1	Preparatory year requirements		8	24
2	University requirements		6	14
3	Faculty requirements		3	9
4	Department requirements	Mandatory courses	25	74
		Elective Courses	2	6
		Training	2	4
	Total		46	131

5.8 Program Requirements

In addition to the preparatory year, university, and college requirements discussed in Section 1.5 “Graduation Requirements”, the ME program requires the following courses.

5.8.1 Mandatory Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Mathematics for Maritime Studies	MATH 201	3	2	-	4	MATH 110
2	Linear Algebra I	MATH 241	3	-	-	3	MATH 201
3	Physics 204	PHYS 204	3	3	-	4	PHYS 110
4	Physics (Practical)	PHYS 281	-	3	-	1	PHYS 110
5	Introduction to Computer Science	CPIT 201	3	-	-	3	CPIT 100
6	Fundamentals of Surveying	MSS 220	3	2	-	3	MATH 201
7	Maritime Communication	MSN 243	2	2	-	2	PHYS 204
8	Marine Meteorology	MSN 245	2	2	-	2	-

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
9	Labor Market Skills in Hydrographic Surveying	MSS 240	3	-	-	3	-
10	Technical Communication	MSS 221	2	-	-	2	ELCS 102
11	Fundamentals of Nautical Science	MSS 310	2	3	-	3	-
12	Positioning and Navigation Systems I	MSS 311	2	3	-	3	MATH 241, MSS220
13	Estimation and Uncertainty Management	MSS 312	3	3	-	4	STAT 110, MATH 241, MSS 220
14	Geodesy and Map Projections	MSS 313	3	3	-	4	MATH 241, MSS 312
15	Water Level Measurements and Predictions	MSS 320	2	3	-	3	MS 201
16	Positioning and Navigation Systems II	MSS 321	2	3	-	3	MSS 311, MSS 312, MSS 313
17	Underwater Imaging and Mapping I	MSS 322	3	3	-	4	PHYS 204 Co-requisite: MSS 320, MSS 321
18	GIS and Bathymetric data management	MSS 323	2	3	-	3	CPIT 201 , MSS 313
19	Marine Law and Policy	MSS 410	1	-	-	1	-
20	Underwater Imaging and Mapping II	MSS 411	3	3	-	4	MSS 322
21	Remote Sensing for Marine Applications	MSS 413	2	3	-	3	MSS 322
22	Marine Geology for Hydrographers	MSS 414	2	3	-	3	-
23	Nautical Charting and Hydromethodology	MSS 420	2	3	-	3	MSS 310, Co-requisite: MSS 421
24	Hydrographic data management and presentation	MSS 421	2	3	-	3	MSS 323- MSS 411
25	Degree Project	MSS429	3	-	-	3	MSS 221, Permission of the Department
Total						74	

5.8.2 Elective Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Elective Course (1)	-	2	3	-	3	
2	Elective Course (2)	-	2	3	-	3	
Total						6	

Students should select 6 units out of 15 from the following List:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Photogrammetry and Photo Interpretation	MSS 412	2	3	-	3	MSS 322
2	Offshore Geophysical Surveying	MSS 422	2	3	-	3	MSS 411, MSS 414
3	Operational Use of Nautical Charts	MSS 423	2	3	-	3	MSS 310
4	Special Topics in Hydrography	MSS 424	2	3	-	3	MSS 411
5	Inland Waters Hydrography	MSS 425	2	3	-	3	MSS 411
Total						15	

5.8.3 Training Courses:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Hydrographic Surveying Practice I	MSS 390	-	-	2	2	MSS 322
2	Hydrographic Surveying Practice II	MSS 490	-	-	2	2	MSS 390, MSS 411, MSS 420
Total						4	

5.9 Study Plan

Level 1

Course Name	Code	Credit Units	Prerequisites
Programming and Problem Solving	CP-T 110	3	—
English Language – Scientific (1)	ELIS 110	3	—
General Mathematics (1)	MATH 110	3	—
General Physics (1)	PHYS 110	3	—
Total		12	

Level 2

Course Name	Code	Credit Units	Prerequisites
General Biology (1)	BIO 110	3	–
General Chemistry (1)	CHEM 100	3	–
English Language – Scientific (2)	ELIS 120	3	ELIS 110
General Statistics (1)	STAT 110	3	–
Total		12	

Level 3

Course Name	Code	Credit Units	Prerequisites
Arabic Language (1)	ARAB 101	3	–
Islamic Culture (1)	ISLS 101	2	–
Mathematics for Maritime Studies	MATH 201	4	MATH 110
Marine Sciences	MS 201	3	–
General Physics (3) – Maritime Students	PHYS 204	4	PHYS 110
General Physics Lab	HYPS 281	1	PHYS 110
Total		17	

Level 4

Course Name	Code	Credit Units	Prerequisites
Introduction to Computing	CPIT 201	3	CPIT 100
Linear Algebra	MATH 241	3	MATH 201
Principles of Marine Safety	MSN 230	3	–
Marine Communications	MSN 243	2	PHYS 204
Marine Meteorology	MSN 245	2	–
Fundamentals of Surveying	MSS 220	3	MATH 201
Job Market Skills in Hydrographic Surveying	MSS 240	3	–
Total		19	

Level 5

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (2)	ISLS 201	2	ISLS 101
Technical Communication	MSS 221	2	ELCS 102
Fundamentals of Navigation	MSS 310	3	–
Navigation and Positioning Systems (1)	MSS 311	3	MATH 241, MSS 220
Data Adjustment and Analysis Methods	MSS 312	4	STAT 110, MATH 241, MSS 220
Geodesy and Map Projections	MSS 313	4	MATH 241
Total		18	

Level 6

Course Name	Code	Credit Units	Prerequisites
Marine Environment	MS 202	3	–
Sea Level Measurement and Prediction	MSS 320	3	MS 201
Navigation and Positioning Systems (2)	MSS 321	3	MSS 311, MSS 312, MSS 313
Hydrographic Surveying (1)	MSS 322	4	PHYS 204, Co-requisite: MSS 320, MSS 321
GIS and Data Management	MSS 323	3	CPIT 201, MSS 313
Hydrographic Surveying Training (1)	MSS 390	2	MSS 322
Total		19	

Level 7

Course Name	Code	Credit Units	Prerequisites
Arabic Language (2)	ARAB 201	3	ARAB 101
Islamic Culture (3)	ISLS 301	2	ISLS 201
Maritime Policies and Law	MSS 410	1	–
Hydrographic Surveying (2)	MSS 411	4	MSS 322
Remote Sensing for Marine Applications	MSS 413	3	MSS 322
Marine Geology for Surveyors	MSS 414	3	–
Hydrographic Surveying Training (2)	MSS 490	2	MSS 390, MSS 411, MSS 420
Total		18	

Level 8

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (4)	ISLS 401	2	ISLS 301
Nautical Chart Design	MSS 420	3	MSS 310 (Co-requisite: MSS 421)
Hydrographic Data Management and Presentation	MSS 421	3	MSS 323, MSS 411 (Co-requisite: MSS 420)
Graduation Project	MSS 429	3	MSS 221, Department Permission
Total		11	

Elective Courses

Course Name	Code	Credit Units	Prerequisites
Photogrammetry and Image Analysis	MSS 412	3	—
Marine Geophysical Surveying	MSS 422	3	—
Practical Applications of Nautical Charts	MSS 423	3	—
Special Topics in Hydrographic Surveying	MSS 424	3	—
Hydrographic Surveying of Rivers	MSS 425	3	—

Students are required to select 6 credit units out of the 15 credit units offered in electives.

5.10 Exit Point

An exit point is provided upon the successful completion of a minimum of 87 credit hours, through which the student becomes eligible for the award of an Advanced Diploma in Hydrographic Surveying.

5.10.1 Objectives of the Advanced Diploma

The Advanced Diploma in Hydrographic Surveying aims to:

- Equip students with essential knowledge and practical skills in hydrographic surveying.
- Prepare graduates to serve as technical assistants or support staff in the maritime industry.
- Ensure learning outcomes align fully with Level 5 requirements of the National Qualifications Framework.

5.10.2 Expected Learning Outcomes

Graduates of the Advanced Diploma are expected to demonstrate:

- Master the fundamental concepts in surveying and geodesy.
- Develop practical skills in hydrographic surveying and Geographic Information Systems (GIS).
- Be well-prepared for the job market with high professional competence in surveying and hydrography.
- Promote Islamic values and ethics in professional practice.

5.10.3 Proposed Study Plan

The following table outlines the proposed study plan for the Advanced Diploma, featuring an 87-credit curriculum. This structure progresses from foundational sciences (Levels 1-2), to core hydrographic concepts (Levels 3-4), and concludes with advanced hydrographic surveying topics (Levels 5-7). Electives have been intentionally omitted to guarantee all graduates attain a uniform, industry-ready competency base.

Course Code	Title	Level	Credit Hours
Preparative year	According to Program Specifications	---	24
University Requirements	According to Program Specifications	---	14
Faculty Requirements	According to Program Specifications	---	9
MATH 201	Mathematics for Maritime Studies	3	3
PHYS 204	Physics 204	3	3
MATH 241	Linear Algebra I	4	3
MSS 220	Fundamentals of Surveying	4	3
MSS 240	Labor Market Skills in Hydrographic Surveying	4	3
MSS 311	Positioning and Navigation Systems I	5	3
MSS 313	Geodesy and Map Projections	5	3
MSS 321	Positioning and Navigation Systems II	6	3
MSS 322	Underwater Imaging and Mapping I	6	2
MSS 323	GIS and Database Management	6	3
MSS 390	Hydrographic Surveying Practice I	6	2
MSS 411	Underwater Imaging and Mapping II	7	3
Total			87

5.11 Academic and Administrative Staff

The Hydrographic Surveying program is backed by a skilled multidisciplinary team of administrative, technical, and academic staff. By maintaining clearly defined roles and a strategic commitment to hiring full-time specialists, the department ensures streamlined operations and high-quality educational standards. Current staffing levels and specializations are detailed in the following table:

	Staff qualification	Number of staff
1	Full Professor	1
2	Associate Professor	3
3	Assistant Professor	1
4	Lecturer	5
	Total	10

All listed staff members hold qualifications in either Hydrographic Surveying or Geomatics Engineering. The following tables provide a summary of the available staff in the Hydrographic surveying program and their qualifications.

Faculty Member Name	Mohamed Elsayed Elsobeiey
Academic Rank	Full Professor
Nationality	Canadian
Degree	PhD, 2012
Graduated From	Toronto Metropolitan University
Mode of Study	Full-time
General Field:	Geomatics Engineering
Specialty Areas	Advanced satellite positioning, GNSS software developments, and Integrated GNSS/INS Systems

Faculty Member Name	Faisal Alsaaq
Academic Rank	Associate Professor
Nationality	Saudi
Degree	PhD, 2017
Graduated From	Curtin University, Australia
Mode of Study	Full-time
General Field:	Hydrographic Surveying
Specialty Areas	Geospatial Information in Hydrographic Surveying

Faculty Member Name	Gar Al-Nabi Ibrahim Mohamed
Academic Rank	Associate Professor
Nationality	Sudanese
Degree	PhD, 1992
Graduated From	Newcastle University, UK.
Mode of Study	Full Time
General Field:	Surveying Engineering
Specialty Areas	Remote sensing and Geographic Information system

Faculty Member Name	Shamji Remadevi Vidyanandan
Academic Rank	Associate Professor
Nationality	Indian
Degree	PhD, 2011
Graduated From	Cochin University of Science and Technology, India
Mode of Study	Full-time
General Field:	Marine Physics
Specialty Areas	Hydrography, ocean modelling

Faculty Member Name	Alaa Anas Mufti
Academic Rank	Assistant professor
Nationality	Saudi
Degree	PhD, 2024
Graduated From	Curtin University, Australia
Mode of Study	Full-time
General Field:	Hydrographic Surveying
Specialty Areas	Application of Hydrographic Surveying

Faculty Member Name	Muhammad Bashir
Academic Rank	Assistant Professor
Nationality	Pakistani
Degree	Master
Graduated From	University of New Hampshire, USA
Mode of Study	Full-time
General Field:	Hydrographic Surveying
Specialty Areas	Hydrographic Surveying, Ocean Mapping

Faculty Member Name	Ali Hassan Ghandoura
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master
Graduated From	Curtin University, Australia
Mode of Study	Full-time
General Field:	Hydrographic Surveying
Specialty Areas	Geospatial Science

Faculty Member Name	Mohammed Jamil Z Mogadem
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master
Graduated From	ENSTA Bretagne, France
Mode of Study	Full-time
General Field:	Hydrography
Specialty Areas	Hydrographic Engineering and Data Processing

Faculty Member Name	Bandar Salman M Alharbi
Academic Rank	Lecturer
Nationality	Saudi

Degree	Master
Graduated From	
Mode of Study	Full-time
General Field:	Geospatial Engineering
Specialty Areas	Applications of GNSS in marine surveying

Faculty Member Name	Azzam Muhammad Sayrafi
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master
Graduated From	King Abdulaziz university, Saudi Arabia
Mode of Study	Full-time
General Field:	Hydrographic Surveying
Specialty Areas	Hydrographic Surveying

5.12 Facilities and Equipment

The Hydrographic Surveying program guarantees that its learning resources and services are sufficient and suitably tailored to satisfy the requirements of the curriculum and the enrolled students. These resources are systematically monitored and periodically updated by the department's Learning Resources, Facilities, and Equipment Committee to ensure continued relevance, quality, and alignment with program needs. Through this structured process, students are provided with current materials and support services that effectively promote their academic achievement.

5.12.1 Learning Resources

The KAU Central Library offers comprehensive learning resources and reference materials to support Hydrographic Surveying students' academic and research needs. It features two dedicated computer labs with approximately 200 workstations available daily from 7:30 AM to 10:00 PM, each providing internet connectivity, Wi-Fi, and standard office/computing applications. While direct software installation or local file storage on lab computers is prohibited, students can utilize personal USB drives or external hard disks, and they enjoy complimentary access—both on- and off-campus through university credentials—to leading international research databases serving both students and faculty.

The Deanship of Library Affairs maintains an extensive digital library accessible via internet and university intranet, encompassing the Saudi Digital Library (SDL), prominent international platforms like ScienceDirect, Web of Science (ISI), IEEE Xplore, SpringerLink, Wiley Online Library, EBSCO, and Cambridge Journals, plus thousands of e-journals, e-books, and specialized databases tailored to hydrographic surveying instruction, learning, and research.

The Saudi Digital Library (SDL)—the Arab world's largest academic e-book collection—provides a vital portal to global scholarship, featuring full-text e-books across scientific disciplines through partnerships with over 300 top publishers (Elsevier, Springer, Pearson, Wiley, Taylor & Francis,

McGraw Hill) and renowned authors. These assets, complemented by essential software and fully equipped teaching/research laboratories, directly advance program learning outcomes.

5.12.2 Faculty Offices

The administrative offices, staff areas, classrooms, laboratories, and associated infrastructure are fully adequate to support the program's educational activities, providing an appropriate environment for teaching and learning. Hydrographic Surveying faculty and staff are allocated suitably furnished workspaces consistent with their roles, with each faculty member assigned a dedicated air-conditioned office of approximately 15–20 m², offering sufficient space for individual work, small meetings, and student consultations, and most offices benefiting from natural daylight.

Faculty members are provided with desktop and/or laptop computers equipped with essential software, including Windows and Microsoft Office, with specialized applications installed when needed to support teaching and research activities. All offices are connected to the university network, offering secure internet access and intercom telephone lines, while centralized photocopying services are available in the college's main copy room, which houses two high-quality multifunction machines for printing, copying, and scanning, ensuring efficient support for academic and administrative tasks.

The offices are conveniently located close to classrooms, which promotes easy access and frequent communication between students and faculty. The department maintains an open-door culture, and each faculty member allocates at least 10 office hours per week—clearly posted outside their offices—so that students can readily obtain academic guidance, thereby effectively supporting student engagement and overall academic success.

Additionally, the Head of the Department has a well-appointed office, supported by an adjacent secretary's office that streamlines day-to-day administrative operations. A fully equipped meeting room is also available and is primarily used for Hydrographic Surveying Council and committee meetings, as well as staff presentations and discussions, thereby providing an appropriate venue for governance, coordination, and academic dialogue.

5.12.3 Classrooms

The classrooms assigned to the Hydrographic Surveying program are sufficient in number and appropriately designed to support effective teaching and learning. Each room is spacious, well-ventilated, and equipped with modern instructional technologies such as projectors, smart boards, and sound systems, with comfortable seating, clear visibility for all students, and reliable lighting, air-conditioning, and network access, providing a suitable environment for both lectures and group discussions that aligns well with the program's enrollment capacity.

5.12.4 Student Affairs Office

The Student Affairs Office, operating under the supervision of the Deanship of Admission and Registration, is conveniently located on the ground floor and equipped with computers connected to the university's local network, ensuring efficient management of student-related services and administrative functions. The main functions of the office include:

1. Assisting with student registration and providing data related to enrollment and academic progress, which supports the evaluation process.
2. Accessing the registration system to help resolve any issues students encounter during course registration.

5.12.5 Laboratories

The Hydrographic Surveying Department maintains a diverse array of well-equipped laboratories that effectively support both instructional and research activities, as detailed in the accompanying table. Each facility features modern equipment and experimental setups that enable students to translate theoretical concepts into practical applications, perform precise measurements, analyze data, and hone technical problem-solving abilities. These laboratories undergo regular maintenance and upgrades to comply with international safety and quality standards, creating a safe and efficient environment, while the dedicated computer laboratory—with 20 networked workstations loaded with essential course and research software—receives periodic hardware refreshes alongside those in faculty offices to ensure consistently high performance.

6. Marine Engineering Department

6.1 Program Overview

The Marine Engineering program is a specialized branch of engineering focused on the study of ship construction, design, operation, and maintenance, as well as the performance and management of marine propulsion systems and auxiliary machinery. The Marine Engineering program leads to a Bachelor of Science in Marine Engineering. It is developed in accordance with university academic regulations and the standards of the International Maritime Organization (IMO), following the requirements of the STCW 95 Convention and its subsequent amendments to ensure international recognition and compliance with professional maritime training standards.

The curriculum combines theoretical knowledge and applied learning, covering a wide range of engineering and maritime disciplines. Students study advanced mathematics, statics, dynamics, engineering chemistry, engineering drawing, workshop practices, electrical and electronic engineering fundamentals, thermodynamics, heat transfer, shipbuilding and construction, marine diesel engines, shipyard technology, marine engineering systems, fault diagnosis and troubleshooting, steam and heat systems, and pollution prevention and control. These courses are designed to build a strong technical foundation and foster analytical and problem-solving skills essential for shipboard operations and maintenance.

To enhance practical competence, the program includes elective courses such as refrigeration and air-conditioning, planned maintenance, and gas and steam turbines, allowing students to tailor their learning to specific interests within the maritime field. Hands-on training plays a central role in the educational experience, with students completing a two-month shipyard training period after Level 6 (summer of the third academic year) followed by a twelve-month mandatory sea-time training onboard deep-sea vessels. This combination of academic study and professional practice ensures that graduates are fully prepared to assume responsibilities as licensed marine engineers and contribute effectively to the global maritime industry.

6.2 Mission, Objectives, and Learning Outcomes

6.2.1 Program Mission

To graduate highly qualified professionals in marine engineering capable of meeting the needs of development plans and the labor market in civil and military sectors, as well as the oil industry.

6.2.2 Program Objectives

Program Educational Objectives (PEOs):

- PEO 1:** Prepare marine engineers able to safely design, operate, and maintain marine systems by applying sustainability principles and emerging maritime technologies.
- PEO 2:** Provide graduates with a comprehensive engineering background and strong professional ethics required for leadership positions, ensuring alignment with targeted graduate attributes.
- PEO 3:** Ensure graduates acquire measurable practical skills through training on board ships and related workshops to directly support the Program Learning Outcomes (PLOs).
- PEO 4:** Prepare graduates to fulfill all professional certification requirements for the certificate of competence license according to STCW 95/10.

Departmental Strategic and Operational Goals

- Goal 1:** Offer a postgraduate program to promote the knowledge, skills, and competencies of the graduates.
- Goal 2:** Promote scientific and applied research in the Marine Engineering fields.
- Goal 3:** Provide specialized courses and technical consultancy to the related governmental and commercial sectors.

6.2.3 Program Learning Outcomes

Knowledge and Understanding	
K1	Demonstrate a comprehensive knowledge of mathematics, statistics, basic sciences, and engineering principles.
K2	Analyze the operational principles of marine engineering systems, ship's construction, and ship's stability.
K3	Evaluate international maritime conventions and regulations related to safe operations and environmental protection.
Skills	
S1	Apply research and inquiry methodologies to conduct experiments related to ship and marine systems, analyze and interpret data, and use engineering judgment to draw conclusions.
S2	Apply engineering design to produce solutions that meet specified requirements related to manufacturability, reliability, quality, environment, health and safety, ethics, and society.
S3	Analyze and solve complex engineering problems by investigating and applying principles of engineering, science, and mathematics.
S4	Demonstrate effective oral and written communication.
S5	Use the techniques, skills, and modern engineering tools necessary for marine engineering practice.

Values, Autonomy, and Responsibility	
V1	Demonstrate academic values, professional responsibilities, and a high ethical standard in marine engineering practice.
V2	Manage independent lifelong learning and take responsibility for continuous learning in the field of marine engineering.
V3	Participate effectively in teamwork and provide leadership, collaboration, and create an inclusive environment.

6.3 Graduate Attributes

- 1- Analyzing and solving general and marine related engineering problems
- 2- Applying general and marine related engineering design principles
- 3- Collaborating effectively on a team
- 4- Demonstrating effective oral and written communication
- 5- Providing leadership, collaboration, and creating inclusive working environment
- 6- Demonstrating ethical and professional responsibilities
- 7- Having a good command of English
- 8- Able to participate effectively on multi- disciplinary tasks
- 9- Being proficient and skilled in several general and marine engineering related computer software packages
- 10- Being open, curious, willing to investigate, and consider new knowledge and ways of thinking
- 11- Cultural competency
- 12- Independence and proactive
- 13- Resilience and adaptation

6.4 Career Opportunities for Graduates

Graduates of the Marine Engineering program are prepared for a broad range of career opportunities in the maritime sector. Their technical knowledge, operational skills, and practical training qualify them to work in sea-based, shore-based, and regulatory roles, as well as in academic and training environments.

1. Navigation officers and captains on government and commercial deep-sea vessels, including cargo ships, passenger ships, and oil tankers.
2. Positions within maritime authorities at ports and the Ministry of Transport.
3. Marine inspectors in shipping companies, marine navigation departments, and port control units.
4. Employment in shipyards, dry docks, oil platforms, and scientific research vessels.

5. Academic and training positions at universities, academies, colleges, and maritime institutes.
6. Technical and supervisory roles in vessel operations, maintenance, and marine safety.
7. Port operations and marine logistics support positions.
8. Roles in maritime consultancy, inspection, and quality assurance services.
9. Opportunities in marine education, professional development, and simulator-based training centers.

6.5 Alignment of PLOs with Labor Market

To ensure students are fully prepared for the labor market, the ME curriculum is built around Program Learning Outcomes (PLOs). These PLOs are not just academic goals; they are the exact technical skills, knowledge areas, and professional values that employers in the maritime sector are actively looking for.

Whether students dream of working at sea on commercial vessels, managing operations in a dry dock, or shaping maritime regulations, every lecture, lab, and project is designed to build a bridge between students' education and their future career. The table below illustrates exactly how the Knowledge (K), Skills (S), and Values (V) you acquire in this program prepare you for the diverse career opportunities in the maritime labor market.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
1	Sea-Based Operations (<i>Officers, Captains, Vessel Operations on cargo ships, oil tankers</i>)	Safe operation of marine systems, ship stability, crisis management, and strict regulatory compliance.	K2, K3, S3: Mastering ship stability, marine systems, and international maritime conventions. V1, V3: Teamwork and high ethical standards under pressure.	Solving marine problems, Resilience and adaptation, Independence.
2	Engineering, Maintenance & Shipyards (<i>Shipyards, dry docks, oil platforms, technical maintenance roles</i>)	Hands-on system design, data analysis, modern software proficiency, and safety-focused engineering.	K1, S1, S2, S5: Conducting experiments, applying engineering design, and using modern engineering tools/software.	Applying engineering design, Software proficiency, Multi-disciplinary tasks.

#	Future Career Path	Labor Market Demands	Mastered PLOs	Built Graduate Attributes
3	Regulatory, Inspection & Consultancy (Maritime authorities, port control, marine inspectors, quality assurance)	Deep knowledge of maritime law, ethical auditing, clear reporting, and professional responsibility.	K3, S4, V1: Recognizing maritime regulations, demonstrating effective written/oral communication, and professional ethics.	Ethical & professional responsibilities, Effective communication, Good command of English.
4	Port Operations & Logistics (Marine logistics support, port operations)	System optimization, leadership, cross-cultural teamwork, and project management.	K1, S3, S4, V3: Solving complex engineering problems, communicating effectively, and providing leadership in inclusive environments.	Leadership, Creating inclusive environments, Cultural competency.
5	Academia & Training (Universities, academies, research vessels, simulator training centers)	Continuous learning, advanced research capabilities, academic integrity, and teaching skills.	K1, S1, S4, V2: Analyzing data, drawing conclusions, communicating clearly, and showing a commitment to continuous learning.	Open, curious mindset, Willingness to investigate new ways of thinking.

The Program Learning Outcomes are embedded in the syllabus to prepare students for successful careers in the maritime industry as follows

- **Knowledge (K1–K3):** Building a strong foundation of expertise. The labor market needs engineers who understand the science behind marine systems. By mastering mathematics, ship construction, and international maritime conventions, students develop the knowledge needed to ensure vessels operate safely, legally, and sustainably.
- **Skills (S1–S5):** Developing the abilities of a problem solver. Employers look for graduates who can apply knowledge effectively. Through their coursework, students learn to use modern engineering software, analyze complex data, and design solutions that meet health, safety, and environmental standards. They also develop strong communication skills, which are essential in the global shipping industry.
- **Values and Autonomy (V1–V3):** Building the mindset of a leader. The maritime industry depends on teamwork, responsibility, and the ability to work in demanding environments. By strengthening academic values, encouraging continuous learning, and promoting leadership and collaboration, students grow into professionals ready to take on responsibility.

By focusing on these Program Learning Outcomes, students are not only completing their studies but also building the knowledge, skills, and professional mindset needed to succeed in the global maritime industry.

6.6 Program-specific Admission Criteria

The admission criteria for the Marine Engineering program may vary from year to year based on the department's needs. During its 13th meeting in April 2026, the Marine Engineering Council recommended approving the admission requirements for male and female students in the Marine Engineering Department, effective from the 2026–2027 academic year, as follows:

1. The cumulative Grade Point Average (GPA) for the preparatory year must not be less than 4.5.
2. The student's grade must not be less than (90) in the mathematics course (Math 110).
3. The student's grade must not be less than (90) in the Physics course (Physics 110).
4. The student's grade must not be less than (90) in the English language courses for the first and second levels.
5. The student's grade must not be less than (90) in the General Chemistry course (CHEM 110).
6. Passing the medical examination.
7. The Body Mass Index (BMI) must range between 18-27.
8. Passing the personal interview according to the department's evaluation system.
9. Passing the medical and physical fitness test, and proving the physical ability to meet the basic safety training requirements.
10. Passing the basic practical requirements for personal survival, including the ability to safely jump from a height into the water, in addition to swimming.
11. Soundness of hearing, speech, and vision to ensure effective communication, understanding of instructions, and detection of and response to alarms.
12. The applicant must be free from any disease, disorder, or disability that may prevent them from performing maritime duties efficiently and safely.
13. The applicant must be free from any medical condition that may worsen due to maritime service or may pose a risk to their safety or the safety of others.
14. The applicant must not be taking any medications or treatments that affect judgment, balance, or the ability to perform maritime duties safely.
15. The ability to move and work in the maritime environment, including climbing vertical ladders, moving between levels, overcoming obstacles, opening and closing watertight doors, pulling or carrying appropriate weights, and working in confined spaces.

6.7 Structure of the Program

The Marine Engineering program prepares students to serve as licensed officers in the global merchant fleet and equips them with a comprehensive engineering education that qualifies them for diverse professional positions. Graduates are prepared for careers in ship construction, maintenance, repair, operation, and survey, as well as in related marine systems and industries.

The program offers students the flexibility to tailor their studies to their professional interests through elective courses. From a selection of nine specialized courses, students choose three that reflect recent advancements and emerging topics in the marine field. Furthermore, the curriculum emphasizes humanities and social awareness through courses such as Marine Environment, Oceanography, Maritime Law and Insurance, and Communication Skills, in addition to subjects that promote understanding of local culture and values, including Islamic Studies and Arabic Language.

To strengthen practical training and industry engagement, the department maintains partnerships with major shipping companies in the Kingdom and the Gulf region, including Saudi Aramco, United Arab Shipping Agencies Co. (UASAC), and the National Shipping Company of Saudi Arabia (NSCSA).

The Marine Engineering (ME) program requires the completion of the following courses:

No	Requirements		Number of Courses	Number of Units
1	Preparatory year requirements		9	27
2	University requirements		6	14
3	Faculty requirements		3	9
4	Department requirements	Mandatory courses	33	88
		Elective Courses	3	9
		Training	2	8
	Total		56	155

6.8 Program Requirements

In addition to the preparatory year, university, and college requirements discussed in Section 1.5 “Graduation Requirements”, the ME program requires the following courses.

6.8.1 Mandatory Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Engineering Chemistry	MSE 281	3		2	3	CHEM 110
2	Physical Training and Leadership	MSE 290	-	-	2	1	-
3	Engineering Mechanics-Dynamics	MSE 282	3	-	2	3	CE 201
4	Technical Report Writing	MSE283	2			2	-
5	Electrical Engineering and Electronics	MSE 370	3	2	-	3	MATH 203
6	Basics of Ship Construction & Naval Architecture	MSE 371	3	-	2	3	-

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
7	Physical Training and Leadership	MSE 390	-	-	2	1	-
8	Electric Machines	MSE 380	2	-	2	2	MSE 370
9	Naval Architecture	MSE 381	3	-	2	3	MSE 371
10	Marine Engineering (1)	MSE 382	3	2	-	3	-
11	Marine Diesel Engines (1)	MSE 383	3	2	-	3	MEP 360
12	Instrumentation & Measurements	MSE 470	2	-	2	2	MSE 380
13	Marine Engineering. (2)	MSE 472	3	2	-	3	MSE 382
14	Marine Diesel Engines (2)	MSE 473	3	2	-	3	MSE 383
15	Ships Electric Power	MSE 480	3	-	2	3	MSE 470
16	Ship Design	MSE 481	3	-	2	3	MSE 381
17	Marine Engineering (3)	MSE 482	3	2	-	3	MSE 472
18	Marine Diesel Engines (3)	MSE 483	3	2	-	3	MSE 473
19	Automatic Control	MSE 580	3	-	2	3	MSE 480
20	Maritime Law and Insurance	MSE 581	2	-	-	2	-
21	Shipyards Technology	MSE 582	3	2	-	3	-
22	Graduation Project	MSE 583	-	-	-	3	-
23	Calculus II	MATH 202	3	-	2	3	MATH 110
24	Calculus III	MATH 203	3	-	2	3	MATH 202
25	Physics - Practical	PHYS 281	-	3	-	1	PHYS 110
26	Engineering Graphics	MENG 102	2		4	3	-
27	Basic Workshop	MENG 130	1	3	-	2	-
28	Structured Computer Programming	EE 201	3	-	1	2	CPIT 100
29	Mechanics (1)-Statics	CE 201	2	-	2	3	PHYS 110
30	Strength of Materials	CE 202	3	-	3	4	CE 201
31	Thermodynamics	MEP 261	3	-	2	3	PHYS 110
32	Fluid Mechanics	MEP 290	3	3		3	MATH 203
33	Heat Transfer	MEP 360	2	3	-	3	MEP 261
Total						88	

6.8.2 Elective Courses

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Elective Course (1)	-	-	-	-	3	
2	Elective Course (2)	-	-	-	-	3	
3	Elective Course (3)	-	-	-	-	3	
Total						9	

Students should select 9 units out of 30 from the following List:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Materials Science	MSE 384	3	2		3	-
2	Steam Power Plants	MSE 471	3		2	3	ChE332
3	Refrigeration & Air Conditioning	MSE 484	3		2	3	MSE471
4	Structural Design of Ships	MSE 485	3		2	3	MSE371
5	Machine Design	MSE 584	3	-	-	3	CE 202
6	Management & Leader ship	MSE 585	3			3	-
7	Planned Maintenance	MSE 586	3			3	-
8	Gas Turbines	MSE 587	3	-	2	3	MSE471
9	Introduction to Offshore Engineering	MSE 588	3	-	-	3	-
10	Special Topics	MSE 589	3	-	-	3	-
Total						30	

6.8.3 Training Courses:

No	Course Name	Course Code	Number of Units				Pre-requisites
			Theo.	Lab	Trai	Credit	
1	Summer Practical Training	MSE 391	-	-	2	2	-
2	Sea Training on Board Ships for 6 months (Semester 9)	MSE 590	-	-	6	6	MSE 480, MSE 482, MSE 483, MSN 230
Total						8	

6.9 Study Plan

Level 1

Course Name	Code	Credit Units	Prerequisites
Programming and Problem Solving	CPIT 110	3	–
English Language – Scientific (1)	ELIS 110	3	–
General Mathematics (1)	MATH 110	3	–
General Physics (1)	PHYS 110	3	–
Total		12	

Level 2

Course Name	Code	Credit Units	Prerequisites
General Biology (1)	BIO 110	3	–
General Chemistry (1)	CHEM 100	3	–
English Language – Scientific (2)	ELIS 120	3	ELIS 110
General Statistics (1)	STAT 110	3	–
Total		12	

Level 3

Course Name	Code	Credit Units	Prerequisites
Engineering Drawing	MENG 102	3	–
Mechanics (1) – Statics	CE 201	3	PHYS 110
Structured Accounting Programming	EE 201	2	CPIT 100
Mathematics (II)	MATH 202	3	MATH 110
Engineering Chemistry	MSE 281	3	CHEM 110
Physics Lab	PHYS 281	1	PHYS 110
Leadership & Physical Training	MSE 290	1	–
Labor Market Skills	MSE 291	3	–
Total		19	

Level 4

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (1)	ISLS 101	2	–
Workshop Fundamentals	MENG 130	2	–
Mathematics (III)	MATH 203	3	MATH 202
Thermodynamics	MEP 261	3	PHYS 110
Engineering Mechanics – Dynamics	MSE 282	3	CE 201
Fluid Mechanics	MEP 290	3	MATH 203
Technical Report Writing	MSE 283	2	–
Total		18	

Level 5

Course Name	Code	Credit Units	Prerequisites
Islamic Culture (2)	ISLS 201	2	–
Marine Sciences	MS 201	3	–
Heat Transfer	MEP 360	3	MEP 261
Electrical and Electronics Engineering	MSE 370	3	MATH 203
Fundamentals of Shipbuilding and Construction	MSE 371	3	–
Leadership & Physical Training	MSE 390	1	–
Elective (1)	–	3	–
Total		18	

Level 6

Course Name	Code	Credit Units	Prerequisites
Marine Environment	MS 202	3	–
Electrical Machines	MSE 380	2	MSE 370
Ship Architecture	MSE 381	3	MSE 371
Marine Engineering (1)	MSE 382	3	–
Marine Diesel Engines (1)	MSE 383	3	MEP 360
Elective (2)	–	3	–
Summer Practical Training	MSE 391	2	–
Total		19	

Level 7

Course Name	Code	Credit Units	Prerequisites
Strength of Materials	CE 202	4	CE 201
Principles of Marine Safety	MSN 230	3	–
Islamic Culture (3)	ISLS 301	2	–
Measuring Instruments	MSE 470	2	MSE 380
Marine Engineering (2)	MSE 472	3	MSE 382
Marine Diesel Engines (2)	MSE 473	3	MSE 383
Total		17	

Level 8

Course Name	Code	Credit Units	Prerequisites
Language Skills	ARAB 101	3	–
Islamic Culture (4)	ISLS 401	2	–
Ship Electrical Power Systems	MSE 480	3	MSE 470
Ship Design	MSE 481	3	MSE 381
Marine Engineering (3)	MSE 482	3	MSE 472

Course Name	Code	Credit Units	Prerequisites
Marine Diesel Engines (3)	MSE 483	3	MSE 473
Total		17	

Level 9

Course Name	Code	Credit Units	Prerequisites
Marine Training Onboard Ships	MSE 590	6	MSE 480, MSE 482, MSE 483, MSN 230
Total		6	

Level 10

Course Name	Code	Credit Units	Prerequisites
Writing Skills	ARAB 201	3	ARAB 101
Automatic Control	MSE 580	3	MSE 480
Maritime Law and Insurance	MSE 581	2	—
Shipyard Technology	MSE 582	3	—
Graduation Project	MSE 583	3	—
Elective (3)	—	3	—
Total		17	

Elective Courses

Course Name	Code	Credit Units	Prerequisites
Material Science	MSE 384	3	—
Steam Propulsion Plants	MSE 471	3	—
Refrigeration and Air Conditioning	MSE 484	3	MEP 360
Structural Ship Design	MSE 485	3	CE 202, MSE 481
Machine Design	MSE 584	3	—
Management and Leadership	MSE 585	3	—
Planned Maintenance	MSE 586	3	—
Gas Turbines	MSE 587	3	—
Introduction to Offshore Platforms	MSE 588	3	—
Special Topics	MSE 589	3	—

Students are required to select 9 credit units out of the 30 credit units offered in electives.

6.10 Exit Point

An exit point is provided upon the successful completion of a minimum of 72 credit hours, through which the student becomes eligible for the award of an Advanced Diploma in Marine Engineering.

6.10.1 Objectives of the Advanced Diploma

The objectives of the Advanced Diploma in Marine Engineering are to:

- Provide students with fundamental knowledge and skills in marine engineering.
- Prepare graduates to work as technical assistants or technicians in the marine sector.
- Ensure alignment of learning outcomes with the requirements of Level 5 of the National Qualifications Framework."

6.10.2 Expected Learning Outcomes

Graduates of the Advanced Diploma are expected to demonstrate:

- Mastery of fundamental skills in mechanics, electricity, and thermodynamics.
- Proficiency in using technical tools and equipment in marine environments.
- Apply the principles of marine engine operation and ship construction.
- Commitment to professional conduct, with the ability to work under supervision while exercising partial independence.

6.10.3 Proposed Study Plan

The proposed study plan for the Advanced Diploma is presented in following Table. The 72-credit curriculum was carefully designed to establish a strong foundation in basic sciences (Levels 1-2), followed by core engineering principles (Levels 3-4), and culminating in specialized marine engineering topics (Levels 5-7).

Course Code	Title	Level	Credit Hours
MATH 110	General Mathematics I	1	3
PHYS 110	General Physics (1)	1	3
CPIT 110	Programming and Problem Solving	1	2
ELIS 110	English Language - Science 1	1	3
CHEM 110	Chemistry	2	3
STAT 110	Statistics	2	3
BIO 110	Biology	2	3
ELIS 120	English Language - Science 2	2	3
CE 201	Mechanics (1) -Statics	3	3
MENG 102	Engineering Graphics	3	3
MSE 281	Engineering Chemistry	3	3
EE 201	Structured Computer Programming	3	2
MSE 291	Labor market skills	3	3
MENG 130	Basic Workshop	4	2
MEP 261	Thermodynamics	4	3

Course Code	Title	Level	Credit Hours
MEP 290	Fluid Mechanics	4	3
MSE 282	Engineering Mechanics-Dynamics	4	3
MSE 371	Basics of Ship Construction & Naval Architecture	5	3
MSE 370	Electrical Engineering and Electronics	5	3
MSE 383	Marine Diesel Engines (1)	6	3
MSE 382	Marine Engineering (1)	6	3
MSE 381	Naval Architecture	6	3
MSE 473	Marine Diesel Engines (2)	7	3
MSE 472	Marine Engineering (2)	7	3
MSN 230	Fundamentals of Marine Safety	7	3
Total Units			72

6.11 Academic and Administrative Staff

The Marine Engineering (ME) program is staffed by a sufficient number of highly qualified administrative, professional, technical, and teaching personnel who collectively ensure effective program management, high-quality support services, and robust educational delivery for students and faculty. Each staff member operates with clearly defined tasks and authorities, supporting smooth operations and a supportive learning environment. The ME department maintains a consistent policy of recruiting full-time staff in accordance with their area of specialization, as reflected in the following table:

	Staff qualification	Number of staff
1	Full Professor	4
2	Associate Professor	2
3	Assistant Professor	4
4	Lecturer	2
	Total	12

All listed staff members hold qualifications in either marine engineering or mechanical engineering, both of which are closely related to the field of marine engineering. The following tables provide a summary of the available staff in the Marine Engineering program and their qualifications

Faculty Member Name	Hassan Sayed Mohammed Hedia
Academic Rank	Full Professor
Nationality	Egyptian
Degree	PhD, 1996
Graduated From	University of Leeds, Leeds, England + Mansoura University + Mansoura -Egypt
Mode of Study	Full-time
General Field:	Mechanical Engineering - Design

Specialty Areas	Advanced Materials, Optimum Design, Stress Analysis, Solid Mechanics, Fracture Mechanics
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Faculty Member Name	Elamir Samy Gadelmawla
Academic Rank	Full Professor
Nationality	Egyptian
Degree	PhD, 1999
Graduated From	University of Glamorgan, England + Mansoura University, Mansoura - Egypt
Mode of Study	Full-time
General Field:	Mechanical Engineering - Production
Specialty Areas	Computer Vision, Computer Application in Industries, Production Engineering, Material Science

Faculty Member Name	Waheed Sami AbuShanab
Academic Rank	Full Professor
Nationality	Saudi
Degree	PhD, 2013
Graduated From	Manchester Metropolitan University, Manchester, UK.
Mode of Study	Full Time
General Field:	Maritime Engineering & Marine Operations
Specialty Areas	Rig Move Master Operations & Jacking Procedures, Aluminum & Composite Vessel Manufacturing, Microstructural Enhancement of AlSiCuMg Alloys, Corrosion Studies & Marine Alloy Performance

Faculty Member Name	Faisal W. AlThobiani
Academic Rank	Full Professor
Nationality	Saudi
Degree	PhD, 2011
Graduated From	Huddersfield University, Huddersfield, UK
Mode of Study	Full-time
General Field:	Mechanical Engineering
Specialty Areas	Intelligent Fault Diagnosis, Condition Monitoring, Intelligent Fault Tolerant Control, and smart Systems.

Faculty Member Name	Nader Ragab Youssef Ammar
Academic Rank	Associate professor
Nationality	Egyptian
Degree	PhD, 2014
Graduated From	Alexandria University, Alexandria, Egypt
Mode of Study	Full-time

General Field:	Marine Engineering
Specialty Areas	Ship Emissions, Autonomous Marine Vehicles, Marine Renewable Energy, Marine Power Plants

Faculty Member Name	Ahmed Naguib AbdelHameed
Academic Rank	Assistant Professor
Nationality	Egypt
Degree	PhD
Graduated From	Alexandria University, Alexandria, Egypt.
Mode of Study	Full-time
General Field:	Naval Architecture and Marine Engineering.
Specialty Areas	Ship Design and ship building.

Faculty Member Name	Hassan Mohammed Sami Attar
Academic Rank	Assistant Professor
Nationality	Saudi Arabia
Degree	PhD, 2021
Graduated From	Newcastle University, UK
Mode of Study	Full-time
General Field:	Marine Diesel Engines
Specialty Areas	Renewable Energy (biofuels), Engine Simulation, Engine performance optimization

Faculty Member Name	Hussain Ahmad Mohamad Othman
Academic Rank	Assistant Professor
Nationality	Pakistan
Degree	Master in Maritime Affairs & Chief Engineer, 2007
Graduated From	World Maritime University, Malmo, SWEDEN
Mode of Study	Full-time
General Field:	Maritime Affairs
Specialty Areas	Maritime Education and Training (MET).

Faculty Member Name	Mohamed Ashraf Ahmed El Zaalik
Academic Rank	Assistant professor
Nationality	Egypt
Degree	Master ^{1st} /Master ^{2nd} , 2001/2015
Graduated From	Arab Academy for science technology and maritime transport – Alexandria, Egypt.
Mode of Study	Full-time
General Field:	Marine engineering

Specialty Areas	Marine engineering machinery systems, Marine environment protection, Sea training
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Faculty Member Name	Abdulrahman Muslih Aloufi
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master, 2013
Graduated From	University of New England, Armidale, Australia
Mode of Study	Full-time
General Field:	Electrical Engineering
Specialty Areas	Electrical Engineering, Computer Programming Languages, Artificial Intelligence, Machine Learning

Faculty Member Name	Majed Mohammed Alawi
Academic Rank	Lecturer
Nationality	Saudi
Degree	Master + (3rd class COC, from UK), 2005 / 2013
Graduated From	Lakehead University, Thunder Bay, Canada
Mode of Study	Full time
General Field:	Marine Systems Engineering
Specialty Areas	Marine Renewable Energy

6.12 Facilities and Equipment

The Marine Engineering (ME) program ensures that its learning resources and services are adequate and appropriate to meet the needs of the curriculum and the enrolled student population. Resources are regularly reviewed and updated to maintain relevance, quality, and alignment with program requirements by the ***Learning Resources, Facilities, and Equipment Committee*** in the ME department. This approach guarantees that students have access to up-to-date materials and services that support their academic success.

6.12.1 Learning Resources

The KAU central library provides learning resources and reference materials. Marine Engineering students can use the library's two computer labs, which have about 200 computers. These labs are open to all KAU students from 7:30 AM to 10:00 PM. Each computer has internet access, Wi-Fi, and basic office and computing software. Installing specialized software or saving files on the lab computers is not allowed, but students may use personal USB drives or external hard disks. The labs also provide free access to major international research databases, which both students and faculty can use on or off campus through their university accounts.

Additionally, the Deanship of Library Affairs provides a comprehensive digital library that enables students and faculty members to access a wide range of academic resources through both the internet and the university intranet. These resources include the Saudi Digital Library (SDL) and

leading international databases such as ScienceDirect, Web of Science (ISI), IEEE Xplore, SpringerLink, Wiley Online Library, EBSCO, Cambridge Journals, as well as numerous electronic journals, e-books, and other specialized databases.

The Saudi Digital Library (SDL) serves as a gateway to global knowledge and is recognized as the largest repository of academic e-books in the Arab world. It provides access to thousands of full-text e-books across various scientific disciplines and collaborates with more than 300 leading international publishers, including Elsevier, Springer, Pearson, Wiley, Taylor & Francis, and McGraw Hill. The library also hosts publications from distinguished academic authors. For more information, [click here](#). The library offers a wide range of accessible resources that support the achievement of program outcomes. In addition, essential software and well-equipped teaching and research laboratories are available to meet academic and research needs.

6.12.2 Faculty Offices

The administrative offices, staff areas, classrooms, laboratories, and related facilities are fully adequate to support the program's educational activities. Faculty members are provided with well-furnished, air-conditioned offices that offer sufficient space for individual work, small meetings, and student consultations, and most offices also benefit from natural daylight. Each office is equipped with a desktop and/or laptop computer, essential software, internet access, and telephone communication, while centralized photocopying services are available in the college's main copy room.

The offices are conveniently located near classrooms to enhance accessibility and communication, and the department maintains an open-door policy supported by regular weekly office hours for student guidance. In addition, the Head of the Department has a separate, well-equipped office with an adjacent secretary's office to support administrative work, and a fully furnished meeting room is available for council meetings, committee sessions, staff presentations, and discussions.

6.12.3 Classrooms

The classrooms allocated for the Marine Engineering (ME) program are sufficient in number and appropriately designed to support the teaching and learning process. Each classroom is spacious, well-ventilated, and equipped with modern instructional technologies, including projectors, smart boards, and sound systems, ensuring an effective learning environment. The seating arrangements are comfortable and allow clear visibility for all students. Classrooms are maintained in good condition with proper lighting, air-conditioning, and access to the university network. Their size and distribution adequately meet the program's enrollment capacity, providing a conducive and supportive environment for both lectures and group discussions. The following table shows a list of the available classrooms in the ME department:

#	Room Number	Capacity	Related Courses
1	Classroom 213	35	MSE 281, MSE 282, MSE 283
2	Classroom 211	35	MSE 371, MSE 381
3	Classroom 212	35	MSE 581, MSE 582, MSE 583
4	Classroom 202	40	MSE 484, MSE 481, MSE 580

5	Classroom 215	35	MSE 587, MSE 471
6	Classroom 123	20	MSE 373, MSE 587
7	Classroom 101	100	MSE 290, MS201, MS202
8	Classroom 124	20	MSE 390, MSE 291
9	Classroom 217	35	MSE 470, MSE 390

6.12.4 Student Affairs Office

The Student Affairs Office operates under the supervision of the Deanship of Admission and Registration. It is located on the ground floor and equipped with computers connected to the university's local network. The main functions of the office include:

1. Assisting with student registration and providing data related to enrollment and academic progress, which supports the evaluation process.
2. Accessing the registration system to help resolve any issues students encounter during course registration.

6.12.5 Laboratories

The Marine Engineering (ME) Department provides a wide range of well-equipped laboratories that support both teaching and research activities as shown in the following table. Each lab is furnished with modern equipment and experimental setups that allow students to apply theoretical knowledge to practical situations, conduct measurements, analyze data, and develop technical problem-solving skills. The laboratories are regularly maintained and upgraded to meet international safety and quality standards, ensuring a productive and secure learning environment for students and faculty members.

The following table lists the laboratories available in the Marine Engineering Department. Additional laboratories, including those for Thermodynamics, Fluid Mechanics, and Heat Transfer, are provided by the Faculty of Engineering at KAU, where the corresponding courses are conducted.

#	Laboratory Name	Room	Courses Taught
1	Computer Lab	218	MENG 102, EE 201
2	Marine Engineering Lab	204	MSE 382, MSE 472, MSE 482, MSE 383, MSE 473, MSE 483
3	Marine Engineering Workshop	401	MSE 391, MSE 382, MSE 472, MSE 482, MSE 383, MSE 473, MSE 483
4	Electronic Lab	201	MSE 370, MSE 380, MSE 480, MSE 580
5	Engine Room Simulator	-	MSE 391, MSE 473, MSE 483
6	Firefighting simulator	-	MSN 230
7	Lifeboat platform	-	MSN 230

The computer laboratory is equipped with 24 workstations, adequately supporting the teaching of departmental courses such as Engineering Graphics (MENG 102) and Structured Computer Programming (EE 201). All computers in the computer lab are connected to the university's internet network. Each workstation is equipped with the software packages required for course instruction and research activities. The computers in both the labs and faculty offices are regularly upgraded or replaced to ensure optimal performance. Common software applications available in the Marine Engineering computer labs and offices are summarized in the following table:

#	Application	Available Software
1	Programming	MATLAB
2	Computer Aided Design	AutoCAD and Solid Works
3	Database	Microsoft Access
4	Word Processing	Microsoft Word
5	Spreadsheets	Microsoft Excel
6	Presentations	Microsoft PowerPoint

7. Student Participation Systems

7.1 Student Activities

The general philosophy of student activities is based on encouraging participation driven by the student body itself. This can only be achieved through organized structures that involve both students and faculty members of the college. Therefore, various committees are established under the umbrella of student activities.

7.2 Student Activity Committees

The college includes several student committees chaired by the Vice Dean, with the Student Activities Supervisor assisting in the management. Each committee is led by a faculty member (Committee Advisor) and consists of five students, one of whom serves as the committee secretary. These committees propose the annual student activity programs, which are approved by the College Council. The current committees within the college are:

- Islamic Awareness Committee
- Cultural and Arts Committee
- Social Committee
- Sports Committee

The university and the college award various prizes to participants and winners of student activities. To join any of these committees, students can visit the Student Activities Supervisor at the college and register.

7.3 Competitions

The Faculty of Maritime Studies organizes various competitions among its students, such as the General Cultural Competition (with competitions held between the departments of the college) and the “Star of the College” contest. Students who excel in these competitions are selected to represent the college in university-wide competitions.

Additionally, the college organizes a football tournament among its students, through which the college team is formed to participate in the university's intercollegiate sports events. The college honors the winners of these competitions, as well as students participating in various committees and activities, during the annual closing ceremony for student activities at the end of the academic year.

7.4 Award for the Medal of Excellence in Student Activities

This award is granted to the top 5 students in student activities during the academic year. It aims to encourage students to participate in college activities and to represent the college at the university, regional, and national levels.

For more information about the awards and the application process, please visit [the Deanship of Student Affairs website](#)

7.4.1 Evaluation Criteria for the Medal of Excellence in Student Activities

Criterion	Points
Attendance at activities	10
Active engagement	10
Representation of the college	10
Achievement of awards	10
Participation in university clubs	10
Total	50

7.4.2 Prizes

- A Wall of Honor displaying photos of outstanding students in student activities, both on-campus and on the college website.
- Official recognition and certificates of appreciation.
- Priority selection for membership in the student council for the next semester.
- Financial reward.

7.4.3 Student Clubs

The university hosts a variety of clubs that meet the academic and recreational needs of students. The Deanship of Student Affairs oversees a diverse range of clubs, including:

- English Language Club
- Fine Arts Club
- Quranic Club
- Photography Club
- Public Relations Club
- Theater Club
- Arabic Calligraphy and Fine Arts Club
- Literary Club

- Social Club
- Heritage Club
- Al-Amal (Hope) Club
- Equestrian Club

7.5 Communication Between Students and Faculty Members

Preferred methods of communication between students and faculty members include:

- In person: By visiting the faculty member's office during the office hours posted on the office door.
- Email: By contacting the faculty member via email, which can be obtained directly from the faculty member or from the department's secretary.
- Blackboard System: If the course is available on the Blackboard platform.

Given the importance of effective communication between students and faculty members, the college strongly recommends that all students use their official university email accounts. The university provides every student with an official email address under the university's domain through Google's Gmail service.

For inquiries regarding your official university email, please contact the Deanship of Information Technology.

8. Guides and Regulations

8.1 Introduction

The section serves as a foundational framework for the academic and administrative environment at King Abdulaziz University (KAU). It is carefully designed to provide students, faculty, and staff with a comprehensive understanding of the university's core policies, procedural guidelines, and institutional standards. By clearly detailing the rights, responsibilities, and ethical expectations of all university members, this chapter ensures a transparent, fair, and highly structured campus community. Ultimately, these regulations act as a vital compass for navigating university life, fostering an atmosphere of academic excellence, mutual respect, and operational efficiency in alignment with KAU's overarching strategic vision.

The following sections provide links to important KAU guides and regulations for students, along with brief summaries of each document.

8.2 Students Admission Guide

The [Students Admission Guide](#) at KAU provides a complete overview of the university's electronic admission process. It includes detailed information on preparatory year tracks (Science, Science Health, and Administrative/Humanities), direct admission programs, and how the highly competitive "Balanced Average" is calculated for student placement.

Students can enter the university through two main pathways:

1. **Preparatory Year Programs:** Students must complete a preparatory year before being placed into specific colleges. The tracks include:
 - **Science Track:** Leads to scientific colleges like Engineering and Science.
 - **Science Health Track:** Leads to health colleges like Medicine, Dentistry, and Pharmacy (Main Campus or Rabigh Branch).
 - **Administrative/Humanities Track:** Leads to colleges like Law, Mass Communication, and Economics.
2. **Direct Admission Programs:** Certain colleges and programs allow direct entry without a preparatory year, such as the Waed Program, environment-related faculties, Sharia, Early Childhood Education, and specialized programs for hearing-impaired students.

Admission and placement are highly competitive and based on a "Balanced Average," which combines High School grades, Aptitude Test scores, and Achievement Test scores.

Track / Gender	High School Weight	Aptitude Test Weight	Achievement Test Weight
Science / Science Health (Male & Female)	40%	40%	20%
Literary (Male)	40%	40%	20%
Literary (Female)	50%	50%	N/A

Example: A science student with 90% in High School, 80 in Aptitude, and 85 in Achievement would have a balanced average of: $(90 \times 0.40) + (80 \times 0.40) + (85 \times 0.20) = 85$. (Note: The document's example text calculates 95% high school as 90 in the formula, resulting in 87).

The [KAU Admission Guide](#) provides students with detailed information on the following:

- Available Programs in the University
- Admission General Terms
- Direct Admission Programs
- Students' Tracks in the Preparatory Year
- Balanced Average
- University Faculties and Majors
- Admission Mechanism
- Preparatory Year Admission Programs
- Study Plan for the Preparatory Year
- Important Information
- External Transfer
- Student Rights

8.3 Academic Advising - Student Guide:

The [Academic Advising - Student Guide](#) issued by KAU provides comprehensive information on the roles, responsibilities, and tools available to academic advisors through the ODUS Plus electronic system. The guide highlights that effective academic advising is a shared responsibility among students, colleges, and administrative bodies. The following sections summarize the key points from this guide.

1. **Importance of Academic Advising:** The guide highlights the "Academic Advising Unit" as a fundamental pillar to support students psychologically, socially, and academically. It helps them overcome obstacles from the pre-university stage through graduation and entering the labor market.
2. **Role of the Student and Advisor:** It explains that the success of the educational process depends on the student's interaction and understanding of the regulations and study plans, alongside an academic advisor who guides them toward the best paths for success.

The following table summarizes the topics covered in the discussed in this guide:

Section	Key Contents
Basics of Academic Advising	Advising terminology, goals, importance, core pillars, and tools.
Student and Advisor	Student's rights and duties, methods of communicating with the advisor, and target beneficiary groups.
Systems and Registration	Registration steps (Add and Drop), and interactive/electronic advising.
Special Services	Customized advising programs and tracks for students with special needs.
University Study System	The difference between high school and university stages, and a detailed explanation of the university study system.
Academic Movements	Mechanisms for transferring between colleges, apologizing for a semester, postponement, and withdrawal.

This document serves as a comprehensive roadmap, providing students with all the necessary information and regulations to facilitate their educational journey at King Abdulaziz University.

8.4 Testing Students and Performance Evaluation Policies

Measuring and evaluating student and trainee performance is an integral part of the teaching and learning process. To ensure the quality, accuracy, and comprehensiveness of evaluations across all programs and disciplines at King Abdulaziz University—and to use the results for continuous improvement—the University Vice-Presidency for Educational Affairs and the University Vice-Presidency for Development have established clear policies for assessment. These policies define procedures, responsibilities, and standards for all involved parties, providing a flexible and comprehensive framework for departments to develop their own operational guidelines.

The [Testing Students and Performance Evaluation Policies](#) document outlines KAU's commitment to developing its educational system by improving learning outcomes and student performance evaluation. Aligned with national/international quality standards (NCAAA) and Saudi Vision 2030, these policies provide a flexible but comprehensive framework for colleges and scientific departments to create operational rules that measure student achievement accurately.

The KAU document on [Testing Students and Performance Evaluation Policies](#) outlines the following points:

8.4.1 Key Objectives of the KAU Policies

1. Standardize Practices:

Introduce ideal standard practices and governance for test development and performance evaluation across all programs.

2. Promote Development:

Motivate departments to continuously improve testing strategies and measure learning outcomes effectively.

3. Clarify Roles:

Define pre- and post-evaluation procedures, as well as the responsibilities of entities and individuals involved in the testing process.

8.4.2 Criteria for Effective Student Evaluation

To ensure high-quality assessments, tests and evaluation methods must meet six core standards:

1. Validity:

Accurately measures the intended educational goals and learning outcomes.

2. Reliability:

Produces consistent results with minimal errors.

3. Objectivity:

Based on specific, measurable criteria, avoiding personal bias.

4. Variety:

Utilizes diverse methods suited to different learning areas (cognitive, skill-based, behavioral).

5. Comprehensiveness:

Covers all educational outcomes and scientific content in a balanced manner.

6. Feasibility:

Practical to implement given available resources and expertise.

8.4.3 General Policies for Testing & Evaluation**1. Continuous Assessment:**

Departments must ensure ongoing evaluation, including quarterly work, periodic tests, and regular assignments.

2. Student Feedback:

Providing students with constructive feedback on their performance is an essential part of the evaluation process.

3. Diverse & Modern Tools:

Use a variety of appropriate assessment tools, adopting the latest international methods for specific specialties.

4. Skill Measurement:

Focus on educational and professional skills through methods like performance observation, portfolio assessment, and in-training evaluations.

5. External Examiners:

Where possible, utilize external examiners to participate in testing and verify learning outcomes.

6. Confidentiality:

Strict controls must be established to ensure the confidentiality of test preparation.

7. Outcome Measurement Mechanisms:

All courses must include mechanisms to measure outcomes during and after the program, such as Student Progress Exams, Exit Exams, and professional tests in partnership with specialized bodies.

8.5 Students Rights and Responsibilities

University students play a vital role in achieving sustainable development by adapting to academic, cultural, and social changes. The drafted regulations aim to protect students' rights, promote responsibility and ethical conduct, and strengthen their sense of community and national belonging. These regulations cover both academic and non-academic rights and responsibilities.

Full details of student rights and responsibilities are provided in the KAU [University Student Rights and Responsibilities Regulations](#). It is designed to provide a secure, supportive, and high-quality educational environment while promoting values like fairness, integrity, and citizenship. The following sections summarize the key points from this document.

8.5.1 Goals of the Regulations

1. Educate students and university staff about student rights and duties.
2. Establish psychological, social, and health security to foster learning and creativity.
3. Encourage conduct that aligns with Islamic principles and KAU's high standards.
4. Support transparency, fairness, and a sense of belonging.

8.5.2 Key Definitions

To ensure clarity, the document defines several core concepts:

Term	Definition
Physical & Psychological Security	Students must be free from threats, harm, ridicule, unjust reprimands, or disrespectful language.
Guidance Day	An orientation day to introduce students to their rights, responsibilities, and university services.
Student Advisory Committees	Committees supervised by the Deanship of Student Affairs to identify and solve student problems.
Violations & Penalties	Acts against Islamic Sharia, public morals, or university rules, and the subsequent disciplinary actions.
Grievance	A formal complaint by a student objecting to a decision and seeking to uphold their rights or clear their name.

8.5.3 Summary of Student Rights

The document explicitly guarantees students the following academic rights:

- **Quality Environment:** Access to an appropriate, high-quality academic environment aligned with KAU's mission.
- **Privacy:** Complete confidentiality of personal information, academic records, and grade sheets.
- **Fairness & Due Process:**
 - Prior notification of any decisions or violations against them.
 - The right to attend disciplinary sessions, defend themselves, and submit formal **grievances**.
- **Expression:** The freedom to respectfully express opinions and discuss academic matters.
- **Faculty Accountability:** Faculty members must strictly adhere to lecture times, office hours, and breaks. Lectures cannot be arbitrarily canceled, moved, or merged without prior notice and the scheduling of suitable alternative make-up classes.
- **Accessibility:** Provision of necessary facilities and equal opportunities for students with special needs.
- **Information & Orientation:**
 - Access to regulations, study plans, and guidance brochures (both physically and electronically).
 - The right to a University ID card.
 - Participation in Guidance Day to understand college departments and academic paths.
 - Admission to chosen colleges/departments, subject to university capacity and academic conditions.

8.5.4 Summary of Student Responsibilities

☐ **Academic Responsibilities:** Students must:

- **Follow university rules** and be familiar with all regulations
- **Maintain academic integrity** (no cheating, plagiarism, or impersonation)
- **Attend classes regularly** and complete assignments on time
- **Participate actively** in learning, discussions, and research
- **Respect faculty, staff, and fellow students**, including in online communication
- **Follow proper channels** when submitting complaints (start with instructor → advisor → department → administration)
- **Follow exam rules** and obey invigilators' instructions
- **Maintain research ethics** and professional conduct

- **Avoid unethical or inappropriate behavior** inside and outside campus
- **Accept penalties** if violations occur
- **Provide honest feedback** when evaluating faculty

❑ **Non-Academic Responsibilities:** Students must:

- **Respect Islamic values and university norms** in behavior and appearance
- **Protect university property and facilities** and avoid damage or misuse
- **Use campus facilities properly** (no noise, smoking, or disorderly behavior)
- **Carry and protect their university ID** and prevent misuse or impersonation
- **Follow rules of all university services** (housing, security, medical, etc.)
- **Provide accurate personal information** and update it when needed
- **Maintain the university's reputation** through proper conduct on and off campus, including social media

8.6 Complaints and Grievances

The [KAU Complaints and Grievances](#) guide outlines a comprehensive system for handling complaints, grievances, feedback, and suggestions at King Abdulaziz University, aiming to improve service quality and ensure beneficiary satisfaction, in line with international standards (ISO 10002). The following sections summarize the important points in the KAU Complaints and Grievances guide.

❑ **Objectives:**

- Ensure the right of beneficiaries to submit complaints and grievances.
- Handle complaints efficiently, fairly, and in a timely manner.
- Enhance beneficiary satisfaction and trust.
- Improve performance and service quality.
- Promote transparency and accountability.

❑ **Complaint Submission Process:**

- Through multiple channels (electronic systems, direct communication, etc.).
- Complaints are recorded and forwarded to the relevant department.
- Follow-up is conducted until resolution within a specified timeframe.

❑ **Complaint Handling Stages:**

- Receiving and registering the complaint.
- Study and analysis of the complaint.
- Forwarding to the concerned department.

- Responding to the complainant.
- Closing the complaint after resolution.
- Escalation, if unresolved.

❑ Grievance / Escalation Levels:

- Level 1: Concerned department.
- Level 2: Higher supervisory authority.
- Level 3: Higher committee at the university level.
- The system allows reconsideration if the complainant is not satisfied.

❑ Roles and Responsibilities:

- Communication Center: receives, records, and routes complaints.
- Relevant departments: handle complaints.
- Investigation officer: examines complaints.
- Higher committee: reviews complex or escalated cases.

❑ Guiding Principles:

- Confidentiality and impartiality.
- Fairness and transparency.
- Timely response.
- Accessibility and ease of use.
- Proper documentation and follow-up.

❑ Types of Inputs (Not all are complaints):

- Complaints and grievances.
- Inquiries.
- Service requests.
- Feedback and suggestions.
- Compliments and appreciation.

❑ Monitoring and Improvement:

- Monitoring complaint handling performance.
- Analyzing data to identify recurring issues.
- Continuous improvement of processes.

8.7 Avoiding Plagiarism in Scientific Research

Published in 2012 by the Deanship of Scientific Research at King Abdulaziz University (KAU), the [*Avoiding Plagiarism in Scientific Research*](#) bulletin underscores the essential role of research ethics in fostering integrity and academic excellence. In line with KAU's commitment to national development priorities and the advancement of technology transfer, upholding rigorous ethical standards in scholarly publishing is a key institutional objective. Drawing on resources from Turnitin.com and other research materials, this bulletin provides a comprehensive guide to help researchers and students recognize, prevent, and address plagiarism in scientific work. The following sections summarize the important points in this bulletin.

8.7.1 The Definition and Gravity of Plagiarism

While many soften the act of plagiarism by calling it "copying" or "borrowing," the document stresses that plagiarism is fundamentally an act of **fraud**, involving both the theft of someone else's work and lying about it. According to the Merriam-Webster Dictionary, to plagiarize means:

- To steal and pass off the ideas or words of another as one's own.
- To use another's production without crediting the source.
- To commit literary theft.
- To present an idea derived from an existing source as new and original.

Legally, the expression of original ideas is considered **intellectual property** and is protected by U.S. and international copyright laws, provided it is recorded in some media (e.g., a book or computer file).

8.7.2 Actions Constituting Plagiarism

The bulletin outlines specific behaviors that automatically classify as plagiarism:

- Submitting someone else's work as your own.
- Copying words or ideas without giving proper credit.
- Failing to enclose direct quotes in quotation marks.
- Providing incorrect or fabricated information about the source of a quotation.
- Changing the words but retaining the original sentence structure without citation.
- Copying so many words or ideas from a source that it constitutes the majority of your work (even if credit is given).

Crucial Warning: Simply changing the words (paraphrasing) of an original source is *not* sufficient to prevent plagiarism. If the essential idea is retained without citation, it remains plagiarism.

8.7.3 Detailed Breakdown of Plagiarism Types

Plagiarism is not always a black-and-white issue. The document categorizes it into two distinct groups to help writers identify ambiguous forms:

Category	Specific Type	Detailed Description
Sources Not Cited	The Ghost Writer	Turning in another's work word-for-word as one's own.
	The Photocopy	Copying significant portions of text directly from a single source without any alteration.
	The Potluck Paper	Disguising plagiarism by copying from multiple sources and tweaking sentences to fit together while keeping the original phrasing.
	The Poor Disguise	Retaining the essential content of a source but slightly altering the paper's appearance by changing key words and phrases.
	The Labor of Laziness	Spending effort paraphrasing a whole paper from other sources to make it fit together, rather than doing original work.
	The Self-Stealer	Reusing one's own previous work generously, which violates academic policies regarding the expectation of originality.
Sources Cited (But Still Plagiarized)	The Forgotten Footnote	Mentioning an author's name but neglecting to include specific location data (like page numbers), obscuring the source.
	The Misinformer	Providing inaccurate source information, making it impossible for readers to track down the original text.
	The Too-Perfect Paraphrase	Properly citing a source but failing to put word-for-word copied text in quotation marks, falsely claiming original presentation.
	The Resourceful Citer	Properly citing and quoting all sources, but the paper contains almost zero original thought or work.
	The Perfect Crime	Quoting and citing properly in some places, but subtly paraphrasing other arguments from the exact same sources without citation to pass them off as original analysis.

8.7.4 Copyright Laws and General Knowledge

The FAQ section clarifies how copyright laws intersect with plagiarism:

- **Copyright Protections:**

Copyright laws make it illegal to reproduce someone else's expression of ideas (text, music, video, images) without permission. Since 1989, works are legally protected even if they do not display the copyright trademark (©). Violations can lead to prosecution in a court of law.

- **Exceptions to Copyright:**

Not every published work is copyrighted. You can freely use information from:

- Compilations of readily available data (e.g., phone books).
- Works published by the U.S. government.
- Works in the public domain (though they still require proper citation to avoid plagiarism).
- Common facts that are not the result of original research (e.g., "there are 50 U.S. states").

- **When Facts Require Citation:**

If a "fact" is the specific result of an individual's unique research, it is considered their intellectual property and *must* be cited. Commonly known facts do not require citation.