



# Al-Ahliyya Amman University

## Faculty of Information Technology

# Student Handbook



Academic Year 2025/2026

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## Preface

This Student Handbook has been prepared to serve as a practical and reliable guide for students throughout their academic journey. It is designed to provide clear and organized information about the academic regulations, policies, procedures, services, and support resources that are essential to student life within the university.

The importance of this handbook lies in its role as a reference that helps students better understand their rights, responsibilities, and the expectations of university life. It also aims to support students in making informed academic decisions, complying with institutional regulations, and benefiting fully from the educational and administrative services available to them.

In addition, this handbook reflects the university's commitment to fostering a well-structured, supportive, and student-centered learning environment. By offering guidance on key academic and administrative matters, it contributes to enhancing student awareness, promoting responsibility, and encouraging active engagement in university life.

It is hoped that this handbook will be a valuable companion for all students and will contribute positively to their academic success, personal development, and overall university experience.

## President's Message



In a leading step that turned dreams into reality, Al-Ahliyya Amman University was established in 1990 to be the first university of its kind in Jordan and the Arab world. More than twenty-two years since its inception, AAU now takes pride in graduating its seventeenth class of students who have been qualified, trained, and prepared to competently and confidently compete in the domestic, Arab, and regional labor market.

Al-Ahliyya Amman University is now considered a remarkable educational institution that has acquired trust, respect, and appreciation at the local, Arab, and international levels, thanks to the highly distinguished level of its graduates who spread across over than seventy countries. AAU graduates have become leaders, scientists, and experts in the broad walks of life. This

achievement would not have been possible without the efforts of the dedicated faculty members and administrators who undertook the responsibility assigned to them and gained the trust of the founder of the University as well as the Chairman and member of its board of trustees. I ask Allah to bless their efforts.

Al-Ahliyya Amman University has always demonstrated itself as a leading university in introducing and taking initiatives. The University has complied with the Royal directions to reconsider the study plans and programs of universities, and connect the offered programs with the labor market requirements in order to raise the level of graduates, and increase their competition opportunities. In line with these directions, the University has added a range of new programs in the following majors: Networks and Information Security, E-Commerce, Electrical Engineering in its new form, Television, Cinema, and Theatrical Design, in addition to twenty-five existing BA programs in eight academic faculties. The University also paid special attention to graduate programs. It grants Master's Degrees in Law, Clinical Psychology, Pharmaceutical Sciences, Business Administration, Joint Business Administration with Herriot-Watt University, Communications Engineering and English Language.

In order to maintain tradition and excellence, the University is keen to attract distinguished faculty members and administrators to emphasize sustainable excellence, creativity, innovation and modernity. The University has a civilized and distinct record of development, social and humanitarian events and activities, which were adopted by the components of the University; its students, faculty members and administrators. These activities and events as a whole aim to provide service to our good people in this area of our dear homeland and have become a source of pride for everyone. Because it serves as a platform for Jordanian, Arab and foreign students from more than forty different nationalities, the University has dedicated special attention to its foreign students. An office was set up to attend to foreign students' affairs, help them overcome accommodation and living difficulties, and make them feel the safe and warm hospitality of Jordan which is always embodied by Majesty King Abdullah II Bin Al Hussein. The University has thus become a safe environment for students and staff. We ask Allah to protect us all and grant us success under the Hashemite leadership.

## Amman Ahliyya University in Brief

Al-Ahliyya Amman University, established in 1990, is the first private university in Jordan and was founded to pioneer the role of the private sector in higher education. The University holds both general and special accreditations and is a member of Arab, Islamic and international university associations.

The University has achieved distinguished recognition at both the global and subject levels. It is ranked **#761–770 in the QS World University Rankings** and **#401–500 in the Times Higher Education World University Rankings**. It is also recognized as the **#1 university in Jordan**, reflecting its strong academic standing and institutional excellence. In the **QS Subject Rankings 2026**, Al-Ahliyya Amman University achieved notable positions in several disciplines, including **Computer Science & Information Systems (201–250)**, **Business & Management Studies (201–250)**, **Art & Design (201–300)**, **Accounting & Finance (251–300)**, **Law (251–300)**, **English Language & Literature (301–350)**, **Pharmacy & Pharmacology (351–400)**, and **Economics & Econometrics (451–500)**. In the broad subject rankings, the University was ranked **325 in Social Sciences & Management**, **353 in Arts & Humanities**, and **501–550 in Engineering & Technology**.

The University is committed to excellence and the continuous improvement of educational outcomes through the implementation of quality assurance systems and ongoing monitoring across all faculties, academic departments, centers, and administrative units. It seeks to attain a leading position among higher education institutions in Jordan and across the Arab world.

In response to rapid technological developments, the University has adopted modern information technologies and e-learning systems and integrated them into the teaching and learning process across all disciplines, making it a pioneer in the effective use of advanced educational technologies.

Al-Ahliyya Amman University awards bachelor’s degrees under the credit-hour system and offers a broad range of postgraduate programs in various fields. The University currently comprises **15 faculties** and offers **more than 60 academic programs**, all designed to meet national and regional needs and align with labor market demands, thereby enhancing employment opportunities for graduates in Jordan and neighboring Arab countries.

In addition, the University includes the Deanship of Student Affairs and the Deanship of Scientific Research and Graduate Studies. It continuously invests in the development of its academic and administrative staff, guided by its mission and philosophy, to enhance institutional performance and serve the nation and society.

**Al-Ahliyya Amman University: Excellence in Jordan and Beyond**

**National Leadership**  
**#1**  
**University in Jordan**  
 Recognized as the leading higher education institution within the country.

**Global Standing**  
 Times Higher Education **#401-500** Global Ranking  
 QS **#761-770** Global Ranking

**Robust Academic Scope**  
 Featuring 15 specialized faculties offering over 60 diverse academic programs.

**2026 QS Subject Ranking Highlights**

**Global Leaders in Tech & Business**  
 Computer Science & Information Systems **201–250**  
 Business & Management Studies **201–250**

**High Performance in Creative & Professional Fields**  
 Art & Design **201–300**  
 Accounting within the **top 300** globally  
 Law within the **top 300** globally

**Broad Field Recognition**  
 Social Sciences & Management **#325**  
 Arts & Humanities **#353**

## University Contact Information

- Location: Al-Salt Road, Amman, Jordan
- Website: [www.ammanu.edu.jo](http://www.ammanu.edu.jo)
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## Vision, Mission, and Core Values

### Vision

A global smart university with a sustainable knowledge environment that supports innovation.

### Mission

To offer quality academic programs accredited locally and internationally by using the latest methods of teaching & learning to prepare cadres capable of competition and leadership. Our mission is to invest in applied technical scientific research in partnership with the pioneers in various industries to meet the requirements of sustainable community development within a smart knowledge environment that supports creativity and innovation.

## **Core Values**

- Integrity: Honesty and mutual trust between the University and all concerned parties.
- Transparency: Openness, clarity and objectivity in all aspects of work.
- Belonging & Citizenship: Deepening belonging to the homeland among faculty, staff, and students.
- Diversity: Accepting students, appointing staff, and dealing with all parties without discrimination.
- Social Responsibility: Interacting with the community by providing distinguished services.
- Cooperation: Encouraging effective teamwork within the university environment.
- Justice: Achieving fairness in dealing with academic and administrative affairs.
- Accountability: Accepting and taking responsibility for actions, decisions, and policies related to the University administration.

# Bachelor's Degree Regulations and Academic Requirements

The following section presents the English guide version of the Bachelor's degree regulations and academic requirements for student use.

## Overview

These regulations summarize the main academic rules governing Bachelor's degree study at Al-Ahliyya Amman University. They are written in a clear student-friendly style while preserving the key academic provisions, procedures, limits, and graduation conditions stated in the approved regulations.

## 1. Scope and Key Terms

These regulations apply to students enrolled in Bachelor's degree programs at Al-Ahliyya Amman University. Where a faculty has its own specific regulations, those special regulations apply first, and the general University regulations apply to any matter not specifically covered.

- **University:** Al-Ahliyya Amman University.
- **Semester:** The first or second regular semester of the academic year.
- **Summer Semester:** The semester offered after the second semester and before the first semester of the following academic year.
- **Credit Hour:** The approved academic unit used to measure the workload of a course.
- **Academic Load:** The number of credit hours a student is permitted to register for in one semester.

## 2. Approved Study Plan and Minimum Credit Hours

Each Bachelor's degree program has an officially approved study plan. The minimum graduation hours vary by faculty and specialization. For many Bachelor's programs, the minimum requirement is 132 credit hours, while some professional programs require a higher total.

Faculty	Program / Specialization	Minimum Credit Hours
Faculty of Arts and Sciences	All specializations except Clinical Psychology	132
Faculty of Arts and Sciences	Clinical Psychology	135
Faculty of Information Technology	All specializations	132
Faculty of Law	Law	141
Faculty of Business	All specializations	132
Faculty of Nursing	Nursing	132
Faculty of Engineering	All specializations	160
Faculty of Pharmacy	Pharmacy	162
Faculty of Architecture and Design	All specializations except Architecture	135
Faculty of Architecture and Design	Architecture	165
Faculty of Allied Medical Sciences	Medical Laboratory Sciences	137
Faculty of Allied Medical Sciences	Speech and Hearing	142
Faculty of Allied Medical Sciences	Optometry	132
Faculty of Allied Medical Sciences	Cosmetology	139

Faculty	Program / Specialization	Minimum Credit Hours
Faculty of Allied Medical Sciences	Physical Therapy	134
Faculty of Allied Medical Sciences	Pharmaceutical Biotechnology	134
Faculty of Allied Medical Sciences	Occupational Therapy	132
Faculty of Agricultural Technology	Agricultural Biotechnology and Genetic Engineering	140
Faculty of Educational Sciences	All specializations	132
Faculty of Hospitality and Tourism Management	Hospitality Management and Culinary Arts	132
Faculty of Dentistry	Doctor of Oral and Dental Surgery	200
Faculty of Dentistry	Dental Technology	135

## 2.1 Faculty of Information Technology Programs

The Faculty of Information Technology offers undergraduate and graduate programs designed to develop strong disciplinary knowledge, practical skills, and applied research competence in computing and emerging digital technologies.

### Bachelor’s Programs

- **Computer Science:** 132 credit hours – Provides foundational and advanced knowledge in computing, including programming, systems analysis, databases, networks, cybersecurity, and practical training.
- **Software Engineering:** 132 credit hours – Focuses on software design, development, testing, maintenance, and engineering practices.
- **Networks and Cybersecurity :** 132 credit hours – Covers computer networks, cybersecurity principles, ethical hacking, digital forensics, and advanced networking skills.
- **Data Science and Artificial Intelligence:** 132 credit hours – Emphasizes data analysis, intelligent systems, analytics, and practical application of AI technologies.

### Master’s Programs

The Faculty also offers graduate-level programs that require the completion of 33 credit hours each are designed to deepen advanced knowledge and research skills in specialized fields.

- **Master in Cyber Security:** 33 credit hours – Equips students with advanced expertise in cybersecurity, including risk assessment, threat detection and response, and ethical and legal aspects of digital security.
- **Master in Data Science and Artificial Intelligence:** 33 credit hours – Focuses on advanced methods in data science, intelligent systems, machine learning, and analytics.

### Summary Table – Faculty of Information Technology Programs

Program	Degree	Minimum Credit Hours
Computer Science	Bachelor’s	132
Software Engineering	Bachelor’s	132
Networks and Cybersecurity	Bachelor’s	132
Data Science & AI	Bachelor’s	132

Program	Degree	Minimum Credit Hours
Master in Cyber Security	Master's	33
Master in Data Science & AI	Master's	33

### 3. Structure of the Study Plan

In general, the study plan includes University requirements, faculty requirements, specialization requirements, and the community service requirement.

#### 3.1 University Requirements

University requirements are intended to provide all students with a common educational foundation and to strengthen communication, leadership, innovation, digital competence, and civic awareness. The University requirements consist of 24 credit hours.

Component	Details	Credit Hours
Compulsory University Requirements	Arabic Communication Skills, English Communication Skills, National Education, Military Sciences, Entrepreneurship and Innovation, Leadership and Social Responsibility, and Life Skills.	15
Elective University Requirements	Elective courses selected from approved University groups. A student may not choose an elective University course offered by the student's own department.	9
Remedial Requirements	Remedial Arabic Language, Remedial English Language, and Remedial Computer Skills. These do not count toward the graduation credit hours of the study plan.	9 (not counted in plan total)

Military Sciences is compulsory for Jordanian students and elective for non-Jordanian students. If a non-Jordanian student does not take this course, another substitute course carrying the same number of credit hours must be taken and counted in the cumulative GPA.

#### 3.2 Placement and Exemption Rules for Remedial Requirements

Students must sit placement examinations in Arabic, English, and Computer Skills no later than the end of the first academic year. The main rules are as follows:

- A student who scores less than 50% in a placement examination is considered unsuccessful.
- A student who scores 50% or above in the Computer Skills placement test is exempt from Remedial Computer Skills.
- A student who scores 80% or above in the Arabic placement test is exempt from both Remedial Arabic Language and Arabic Communication Skills.
- A student who scores from 50% to 79% in the Arabic placement test studies Arabic Communication Skills only.
- A student who scores 80% or above in the English placement test is exempt from both Remedial English Language and English Communication Skills.
- A student who scores from 50% to 79% in the English placement test studies English Communication Skills only.

#### 3.3 Faculty and Specialization Requirements

- Faculty requirements must represent at least 15% of the total credit hours of the study plan.

- Elective courses may not exceed 40% of the faculty requirements.
- Specialization requirements must represent at least 60% of the total credit hours of the study plan.
- Elective courses may not exceed 20% of the specialization requirements.
- Free elective courses may be included up to a maximum of 6 credit hours, provided they are not counted as elective University requirements.

### 3.4 Community Service Requirement

Each student must complete 10 hours of voluntary work and community service as a graduation requirement, in accordance with the relevant University instructions. In exceptional circumstances, the competent authority may approve an exemption.

## 4. Credit Hours, Course Levels, and Prerequisites

A course is normally assigned 3 credit hours unless its nature requires otherwise. For theoretical courses, one credit hour is equivalent to one teaching hour per week over a 16-week semester, including examinations. A 3-credit-hour theoretical course therefore equals 48 teaching hours per semester.

For practical or laboratory courses, one credit hour must not be less than 2 practical or laboratory hours per week, equivalent to 32 practical or laboratory hours per semester. Practical or laboratory courses may not exceed 4 credit hours.

Courses are arranged in levels according to the approved study plan of the programme and are assigned official codes. Each course may also have prerequisites and or co-requisites.

A student may, in approved cases, register a course together with its prerequisite if the prerequisite was previously studied but not passed, if graduation depends on that course in the expected graduation semester, or if the student is a transfer or bridging student and receives the required Dean's approval.

## 5. Academic Year, Duration of Study, and Academic Load

The academic year consists of two regular semesters and, where offered, a summer semester.

Item	Rule
Normal duration of study	8 semesters for four-year programs and 10 semesters for five-year programs.
Maximum duration of study	14 semesters for four-year programs and 16 semesters for five-year programs.
Additional semester	The University may approve one additional semester in exceptional cases if this leads to graduation.
Regular semester duration	16 weeks including examinations.
Summer semester duration	Determined by the University.

### 5.1 Academic Load

Registration Status	Regular Semester	Summer Semester
Minimum load	12 credit hours (or 9 with Dean's approval for justified reasons)	Not normally applicable; subject to summer rules
Maximum load	18 credit hours	10 credit hours
Maximum load for expected graduates	21 credit hours	13 credit hours

If the student's final semester is a practical training semester with no course registration, the semester preceding it is treated as the graduation semester for load-calculation purposes.

## 5.2 Academic Level Classification

Academic Level	Successfully Completed Credit Hours
Second year	At least 33
Third year	At least 66
Fourth year	At least 99
Fifth year	At least 132, where applicable

A student's registration may be cancelled if tuition and fees are not paid within the deadlines announced for that semester.

## 6. Attendance Policy

Attendance is compulsory in all courses.

- A student may not be absent for more than 15% of the total scheduled hours of any course, whether the absence is excused or unexcused.
- If the student exceeds the permitted absence limit without an accepted medical or compelling excuse, the student is deprived of the final examination, considered to have failed the course, and must repeat it even if it is elective.
- The failing grade resulting from deprivation is counted in the semester GPA and cumulative GPA for warning and dismissal purposes.
- If the student exceeds the permitted absence limit with an accepted medical or compelling excuse, the student is considered withdrawn from the course and the notation "Withdrawn" is recorded in the academic record.
- Students representing Jordan or the University in official activities may be allowed absence up to 25% of the attendance requirement for in-person or synchronous classes. If this percentage is exceeded, the student is considered withdrawn.
- The student must be notified before the penalty of deprivation is imposed.

Medical excuses are accepted only if supported by official documentation from the University clinic or another approved medical authority. Medical excuses must normally be submitted within two weeks from the end of the absence. Other compelling excuses must normally be submitted within one week from the end of the reason for absence.

## 7. Assessment, Examinations, and Marking

The final mark for each course consists of coursework and a final examination. The standard distribution is shown below, unless the nature of the course requires a different approved arrangement.

Assessment Component	Weight
Coursework, such as quizzes, assignments, reports, participation, projects, and e-learning activities	30%
Midterm examination	30%
Final examination	40%

For practical, laboratory, research, or special courses, the department may approve a different distribution of marks subject to faculty approval.

The course instructor is responsible for marking examinations, grading coursework, entering marks into the system, and approving them accurately. Coursework marks should be discussed with students, after which they are finalized and retained in the relevant department.

Final examination papers are kept by the faculty for at least one academic semester before being destroyed by an authorized committee.

For courses taught in more than one section or across more than one faculty, a unified course outline may be adopted, and examinations may also be unified where required.

### 7.1 Review of Final Examination Marks

A student may request a review of the final examination mark within two weeks from the official announcement of results after paying the prescribed fee. The review is limited to checking whether there is a clerical or objective marking error according to the approved answer key.

### 7.2 Absence from Examinations

- If a student misses an assessment other than the final examination because of a medical or compelling excuse, supporting evidence must be submitted within three days from the date the excuse ends. If accepted, a make-up examination is arranged; if not accepted, the student receives zero.
- If a student misses the final examination because of a medical or compelling excuse, the excuse must be submitted to the Dean within three days from the examination date.
- If the excuse is accepted, a deferred examination is arranged in the same semester or no later than the end of the second week of the following regular semester. The summer semester is not counted for this purpose.
- If the excuse is not accepted, the student receives zero in the final examination.
- The same principle applies, where relevant, to graduation project defense or completion if the excuse is accepted by the Dean.

## 8. Passing Grades and Grade Point Average (GPA)

The minimum passing grade is D in compulsory University requirements for all faculties, and D in all other requirements except in the Faculty of Nursing, where the minimum passing grade is C.

Letter Grade	Grade Point
A	4.00
A-	3.75
B+	3.50
B	3.00
B-	2.75
C+	2.50
C	2.00
C-	1.75

Letter Grade	Grade Point
D+	1.50
D	1.00
D-	0.75
F	0.50

### 8.1 GPA Classification

Classification	Range
Excellent	3.65 – 4.00
Very Good	3.00 – 3.64
Good	2.50 – 2.99
Pass / Acceptable	2.00 – 2.49
Weak	Below 2.00

Semester GPA and cumulative GPA are calculated by multiplying the grade point of each course by the number of credit hours assigned to it, adding the resulting values, and dividing the total by the total registered credit hours. GPAs are rounded to two decimal places.

## 9. Academic Warning, Dismissal, and Remedial Study

A student whose cumulative GPA falls below 2.00 receives an academic warning.

- The student must remove the warning by raising the cumulative GPA to 2.00 or above within a maximum of two academic semesters.
- A student may be transferred to remedial study or dismissed from the specialization if the warning is not removed within the allowed period.
- A student is permanently dismissed from the specialization if the cumulative GPA falls below 1.00 in any semester, except the first semester in the specialization and except the summer semester.
- A student who is permanently dismissed may not return to the same specialization unless the previous registration is cancelled and a new University number is issued.

### 9.1 Remedial Study

A student temporarily dismissed from regular study because the cumulative GPA is below 2.00 may be admitted to remedial study if the cumulative GPA is not less than 1.00.

- The student is normally granted four semesters to raise the GPA to 2.00 or above.
- If this is not achieved, dismissal from the specialization may follow unless the student has completed at least 75% of the graduation credit hours and has a cumulative GPA of at least 1.75. In that case, two additional semesters may be granted.
- The Council may grant one final remedial semester in exceptional cases.
- The maximum academic load during remedial study is 15 credit hours in a regular semester and 9 credit hours in the summer semester.
- A student returns automatically to regular study once the cumulative GPA reaches 2.00 or above.
- An additional 50% of the tuition fee per credit hour is charged during remedial study.

## 10. Repeating Courses and Completion Examination

A student must repeat any course in which a failing grade is obtained. In most faculties, this applies to grades of D- or F. In the Faculty of Nursing, this applies to grades of C-.

- If a failed course is compulsory, it must be repeated.
- If a failed course is elective, the student may either repeat it or replace it with another approved elective course in the study plan.
- A student may also repeat a previously passed course with a grade below C+ in order to improve the cumulative GPA.
- For repeated courses, the credit hours are counted only once toward graduation, and the higher grade is used in GPA calculation.

### 10.1 Completion Examination for Expected Graduates

A student expected to graduate may, under specific conditions, sit a completion examination instead of repeating one course.

- The course must not exceed 3 credit hours.
- The student must pay the prescribed fee.
- The examination is held in the same semester or no later than the end of the second week of the following semester.
- A student expected to graduate may also sit a completion examination in one course of not more than 3 credit hours if all graduation requirements are completed but the cumulative GPA is still below 2.00, provided the relevant conditions are met.
- A completion examination is graded out of 100 and converted to a final letter grade according to the normal grading scale.
- A completion examination is not permitted where failure resulted from deprivation due to absence, or where academic dismissal or a disciplinary penalty prevents it.

## 11. Add / Drop, Withdrawal from Courses, and Deferment

### 11.1 Add / Drop

A student may add or drop courses during the official add / drop period announced in the academic calendar. During this period, no "Withdrawn" notation is recorded.

In specified cases, the student does not bear the financial consequences of add / drop, such as changing specialization, resolving timetable changes or advising errors, or repeating a course under the approved conditions.

### 11.2 Withdrawal from Courses

Withdrawal from one or more courses is allowed within the approved deadline:

- No later than the end of the 14th week of a regular semester.
- No later than the last week before the end of the summer semester.

In such cases, the notation "Withdrawn" is recorded in the academic record and the student bears the related financial consequences according to University rules. Withdrawal must not reduce the academic load below the minimum allowed unless otherwise approved.

A student may also request withdrawal from all courses registered in a semester. If approved, the semester is treated as postponed.

### 11.3 Deferment of Study

A student may apply to defer study for one semester if there is an accepted reason.

- The request may be approved by the Dean if submitted before the end of the fourth week of the semester.

- In other cases, approval is issued by the President.
- A student may defer study for up to four consecutive or separate semesters. The Council may increase this up to six semesters.
- The deferment period is not counted within the maximum allowed duration of study.
- A new or transfer student may not defer study until completing at least one semester at the University.

## **12. Discontinuation, Withdrawal from the University, and Re-registration**

### **12.1 Discontinuation of Study**

If a student stops studying for more than one regular semester without approved deferment, the registration may be cancelled unless re-registration is approved for a compelling reason.

- The discontinuation period is counted within the maximum allowed duration of study.
- A student may not discontinue study for more than six consecutive or separate semesters.

### **12.2 Withdrawal from the University**

A student who wishes to leave the University must submit an official withdrawal request to the Admission and Registration Department.

- Financial clearance is required before finalizing withdrawal.
- If the student later returns within the permitted period and is approved for re-registration in the same specialization, the student resumes the academic record according to the study plan in force at the time of re-registration.
- The previous period of study remains counted within the maximum allowed duration.

## **13. Transfer and Bridging**

### **13.1 Transfer from another University**

A student may transfer from a recognized university if the approved transfer conditions are met.

- The secondary school average must qualify the student for the new specialization.
- The transferring institution must be officially recognized.
- At least 50% of the study plan credit hours must be completed at Al-Ahliyya Amman University.
- Passed courses may be counted if they match the approved study plan and are approved by the faculty.
- Grades earned at another university are not included in the cumulative GPA at Al-Ahliyya Amman University.

### **13.2 Bridging Students**

Students transferring from community colleges may be admitted according to the applicable regulations of the Ministry of Higher Education and Scientific Research.

### **13.3 Internal Transfer between University Programmes**

A student may transfer from one specialization to another within the University if the admission requirements of the new specialization are met.

- Passed courses may be counted toward the new study plan if they fit the programme requirements.
- After internal transfer, the student is treated as a new student in the new specialization for warning, deferment, and dismissal purposes.

## **14. Substitute Courses, Equivalent Courses, and Study at another University**

### **14.1 Substitute and Equivalent Courses**

In special academic cases, the Dean may approve registration in a substitute course or an equivalent course.

- A substitute course may be approved for up to two courses, provided it carries the same number of credit hours and does not require an unmet prerequisite.
- Equivalent courses must match the original course as closely as possible in both credit hours and academic content.
- These options are normally used when graduation depends on a course that is not offered, conflicts with another course, or cannot otherwise be completed on time.

### **14.2 Studying at another University during summer**

A regular student may be allowed to study up to 9 credit hours during the summer semester at a Jordanian public university or at a recognized university outside Jordan, subject to prior approval and the required academic conditions.

- The student must have completed at least 48 credit hours at Al-Ahliyya Amman University.
- The cumulative GPA must be at least 2.50.
- The courses must be specialization requirements only.
- The course description and credit hours must be equivalent to, or greater than, those at the University.
- Prerequisites must already have been completed at the University.

Practical training, field training, and graduation projects may not be completed at another university under this rule. In all cases, the total number of credit hours counted by transfer or study elsewhere may not exceed 50% of the total study plan credit hours, unless special regulations provide otherwise.

## **15. Additional Courses, Postponement of Graduation, and Degree Award**

### **15.1 Additional Courses to Raise GPA**

A student who has completed all graduation requirements except the minimum cumulative GPA may take additional courses beyond the study plan hours to raise the GPA to the required level.

### **15.2 Postponement of Graduation**

A student who has completed the graduation requirements may request postponement of graduation for the purpose of improving the cumulative GPA. The request must be submitted within one week from the official announcement of results and before the degree is formally awarded.

### **15.3 Graduation Requirements**

The Bachelor's degree is awarded when the student has:

- Passed all courses required in the approved study plan.
- Achieved a cumulative GPA of at least 2.00.
- Completed the graduation semester at the University.
- Obtained financial clearance.
- Completed the period of study without exceeding the maximum permitted duration.
- Fulfilled any additional University graduation requirements, including community service where applicable.

## **16. Student Responsibility**

Students are expected to know and follow all University regulations, instructions, announcements, academic calendars, and information published through official University channels, including the website and student portal. A student may not claim lack of knowledge of regulations as an excuse.

## **17. Implementation and Final Authority**

These regulations are implemented by the relevant University authorities, including the President, Deans, Heads of Departments, and the Admission and Registration Department. The competent University authority shall decide any matter not expressly covered by these regulations.

## Master's Degree Regulations and Academic Requirements

Detailed English translation arranged for inclusion in the Faculty of Information Technology academic guide.

### Instructions for Granting the Master's Degree at Al-Ahliyya Amman University for the Year 2023

Issued pursuant to the Jordanian Universities Law No. (18) of 2018 and the Amending Law No. (18) of 2019

#### Article (1)

These instructions shall be called the "Instructions for Granting the Master's Degree at Al-Ahliyya Amman University", and they shall come into effect from the date of their approval.

#### Article (2)

The following words and expressions, wherever they appear in these instructions, shall have the meanings assigned to them below unless the context indicates otherwise:

- University: Al-Ahliyya Amman University
- President: The President of the University
- Council: The Council of the Faculty of Graduate Studies
- Dean: The Dean of the Faculty of Graduate Studies
- Faculty: Any faculty offering a Master's programme
- Department: Any academic department in the relevant faculty
- Faculty Committee: The Graduate Studies Committee in the faculty
- Department Committee: The Graduate Studies Committee in the department
- Supervisor: A faculty member eligible to supervise
- Programme: Any Master's programme at the University
- Assistantships / Stipends: Financial allocations paid to graduate students in accordance with the applicable instructions

### Chapter One: Study Plan

#### Article (3)

The minimum number of credit hours required for obtaining the Master's degree shall be 33 credit hours, according to the study plan approved by the Council. These requirements shall be distributed according to the two Master's study tracks, as follows:

##### First: Thesis Track

- Successful completion of the compulsory courses, totaling 15 credit hours as a minimum at the 700 level, including a course in Research Methodology.
- Successful completion of the elective courses, totaling 9 credit hours as a maximum at the 700 level.
- Preparation of a university thesis, allocated 9 credit hours, carrying the course number 799.
- In special cases, as determined by the department and faculty committees and upon the nomination of the academic advisor, a student may study an elective course from the study plan or from the plan of another Master's programme offered in the same faculty as a substitute for a compulsory or elective course that is not offered, provided that the number of substitute courses does not exceed two courses.

##### Second: Comprehensive Examination Track

- Successful completion of the compulsory courses, totaling 24 credit hours as a minimum at the 700 level, including a course in Research Methodology.

- Successful completion of the elective courses, totaling 9 credit hours as a maximum at the 700 level.
- Passing the comprehensive examination after completing all courses successfully. This examination shall carry the course number 798.
- In special cases, as determined by the department and faculty committees and upon the nomination of the academic advisor, a student may study an elective course from the study plan or from the plan of another Master's program offered in the same faculty as a substitute for a compulsory or elective course that is not offered, provided that the number of substitute courses does not exceed two courses.

#### **Article (4)**

- A student may transfer from the comprehensive track to the thesis track within the same programme by a decision of the Council based on the recommendation of the department and faculty committees, provided that the student has completed 12 credit hours of the study plan with a cumulative GPA of not less than 3.00, and that a supervisor for the thesis is available.
- A student may transfer from the thesis track to the comprehensive track by a decision of the Council based on the recommendation of the department and faculty committees.
- When a student transfers from one track to another, the courses already studied within the approved study plan shall be counted for the student, and the grades of those courses shall be included in the student's cumulative GPA.

#### **Article (5)**

- The department offering the specialization may, at the time of admission, determine the remedial courses required from Bachelor's or Higher Diploma level courses deemed necessary to raise the student's academic level, provided that such courses do not exceed 9 credit hours. These courses shall be specified in the admission application. The student may also be exempted from such courses, by recommendation of the department and faculty committees and a decision of the Council, if evidence is available proving the student's competence at the previous stage.
- The credit hours of remedial courses shall not be counted within the credit hours required for the degree, but they shall appear on the student's transcript.
- The student must complete the remedial courses successfully no later than the end of the first academic year after joining the program. In special cases, the Council may allow the student to exceed this period, upon nomination by the academic advisor and recommendation of the department and faculty committees.

#### **Article (6)**

- The maximum period allowed for obtaining the Master's degree shall be 8 academic semesters, extendable by one academic semester, subject to the approval of the Dean of the faculty and the recommendation of the department and faculty committees. The summer semester shall, for this purpose, be considered an extension of the second regular semester and shall not require separate extension approval.
- The summer semester shall be considered a semester intended primarily for thesis preparation. In special cases, as determined by the department and faculty committees, courses may be offered during it.
- The total period of deferment and withdrawal together may not exceed two academic semesters, and this period shall not be counted within the maximum duration allowed for obtaining the degree.

#### **Article (7)**

- Subject to the accreditation instructions applicable to graduate studies programs and the tuition regulations in force at the University, the minimum academic load in the first and second semesters shall be 6 credit hours, and the maximum shall be 9 credit hours. Thesis hours are counted within the academic load. A student expected to graduate at the end of the relevant semester may register up to 12 credit hours only.

- The maximum academic load in the summer semester shall be 6 credit hours, including remedial courses. A student expected to graduate at the end of the summer semester may register up to 9 credit hours only.
- In special cases, as determined by the department and faculty committees, a student may be allowed to register 3 credit hours in any semester, provided that this occurs only once during the period of study, excluding the graduation semester.
- A student may register the thesis in installments over a maximum of three semesters, with a minimum of 3 credit hours in one semester.

## Chapter Two: Admission

### Article (8)

The admission requirements for the program shall be as follows:

- The applicant must hold a Bachelor's degree in accordance with the general bases for admission of Jordanian and international students issued by the Ministry of Higher Education and Scientific Research in Jordan.
- The Bachelor's degree must be in the field of specialization or in a related field, according to the study plan of the program.
- The applicant must submit a certificate showing that he/she has passed the TOEFL or IELTS examination, or as otherwise decided by the Higher Education Council. Otherwise, the student must pass the required English language proficiency course offered by the University during the first semester after joining the program, and the applicable instructions issued by the Ministry of Higher Education and Scientific Research shall apply in this regard.

### Article (9)

The Council may, based on the recommendation of the department and faculty committees, set additional special conditions for admission to any program it offers, provided that:

- These conditions do not conflict with the instructions applicable to graduate studies program.
- These conditions appear clearly in the study plan submitted for accreditation and become part of it.
- These special conditions may include an examination in a subject from the relevant departments, subject to the approval of the Council.

### Article (10)

Applications for admission to Master's program shall be submitted on the form prepared for this purpose to the Faculty of Graduate Studies during the period specified by the Council, together with all required supporting documents.

### Article (11)

- A student may not be admitted to two academic program simultaneously at any stage of study.
- If a student is permanently dismissed from a program, he/she may not be admitted to the same program again.

## Chapter Three: Graduate Studies Committees and Their Functions

### Article (12)

The Department Committee shall be formed by a decision of the Dean of the faculty, after consultation with the Head of Department. It shall exercise the powers of the Department Council relating to graduate studies, and shall be composed as follows:

- The Head of Department as Chair; if the conditions for teaching and supervision in graduate programs are not met, another faculty member may be appointed by the Dean of the faculty to chair the committee.
- At least two members from among Professors and Associate Professors. When necessary, the committee may include Assistant Professors, provided that they meet the conditions for teaching and supervision in graduate studies programs.

The Department Committee shall supervise graduate studies affairs in the department, ensure compliance with graduate studies regulations and research ethics, and shall have the following powers:

- Appointing an academic advisor at the beginning of the academic year for students of the specialization in the department from among those who meet the conditions for teaching and supervision.
- Submitting recommendations on the following matters to the Faculty Committee:
- Introducing new programs
- Reviewing and updating study plans of the programs offered by the department
- Approving course examination results of the programs in the department
- Appointing supervisors and co-supervisors
- Announcing research topics proposed by faculty members
- Proposing university thesis projects
- Forming discussion committees
- Determining thesis defense dates
- Preparing lists of students nominated for scholarships/assistantships, following up their work, and securing their needs within the department
- Coordinating scientific seminars related to programme students
- Informing students of the study plan applicable to them
- Holding meetings with graduate students to discuss their issues
- Preparing a list of students expected to graduate in each semester
- Forming comprehensive examination committees

### **Article (13)**

The Faculty Committee shall be formed by a decision of the Faculty Council of the relevant specialization and shall exercise the powers of the Faculty Council relating to graduate studies. It shall be composed as follows:

- The Dean of the faculty as Chair, or his/her delegate from among faculty members who meet the conditions for teaching and supervision in graduate studies programs
- Heads of department committees that offer the programme
- Faculty members who meet the conditions for teaching and supervision

The Faculty Committee shall supervise graduate studies affairs in the faculty, ensure compliance with graduate studies regulations and research ethics, and shall undertake the following:

- Studying the proposals and recommendations of the department committees referred to in Article (12)(b)(2), and submitting them to the Council
- Sending a list containing the names, addresses, and exact specializations of external examiners/discussants for each programme to the Faculty of Graduate Studies
- Recommending to the Council the introduction of new programs in the faculty, or the amendment of existing programs or their courses
- Organizing regular meetings with Master's students in the faculty to discuss their issues
- Preparing an annual report on graduate studies programs in the faculty
- Approving course examination results of the programs

The Faculty Committee shall undertake the duties of the Department Committee where no Department Committee exists.

### **Article (14)**

A committee called the "Theses and Dissertations Ethics Committee" shall be formed by a decision of the Council at the beginning of each academic year, as follows:

- The Dean of the Faculty of Graduate Studies — Chair
- One faculty member from the humanities faculties at the rank of Professor
- One faculty member from the scientific faculties at the rank of Professor
- One faculty member from the health faculties at the rank of Professor
- The committee may, in special cases, seek assistance from any person it deems appropriate.

- The committee shall examine cases involving ethical issues upon recommendation from the department and faculty committees and the Council, including the extent to which the research meets the standards and conditions of scientific research, protects the rights of study participants and groups in general, and observes intellectual property laws.

### **Article (15)**

The academic advisor shall perform the following duties:

- Introducing the student to the philosophy, foundations, traditions, and regulations of graduate studies at the University
- Assisting the student in adaptation and in acquiring the skills necessary for success in graduate studies
- Following up the student academically according to the advisory plan

The supervisor shall perform the following duties:

- Supervising the student's progress in the thesis topic
- Guiding the student and ensuring regular communication with him/her
- Submitting a semester report to the Department Committee on the student's progress in the thesis topic

## **Chapter Four: Transfer and Change of Programme**

### **Article (16)**

A student may transfer from one programme to another within the University, or transfer to it from a Master's programme in another university, provided that the student satisfies the admission requirements of the programme to which he/she wishes to transfer.

### **Article (17)**

- Transfer applications shall be submitted to the faculty concerned on the form prepared for that purpose.
- Approval of transfer from one Master's programme to another within the University, or from a Master's programme at another university, shall be made by a decision of a committee composed of the Dean, the Dean of the relevant faculty, and the Head of the relevant department, according to the form prepared for that purpose.

### **Article (18)**

- If a student is admitted to the programme and has previously studied free-study courses at the University, up to 12 credit hours of those courses may be counted for the student.
- For a student transferred from outside the University, or admitted after studying courses at another university, up to 9 credit hours may be counted.
- The maximum period allowed for obtaining the degree shall be reduced by one academic semester for every 9 credit hours counted for the student.
- Courses studied at another university may be counted provided that:
  - They are equivalent in level and content to a course or courses in the approved study plan
  - The student's grade in each such course is not less than C+ or its equivalent
- When a student transfers to or is admitted to another programme:
  - Courses selected by the department and faculty committees from those studied in the previous programme shall be counted, and their grades shall be included in the cumulative GPA if the transfer is within the University
  - Courses selected from those studied in the previous programme shall be counted, but their grades shall not be included in the cumulative GPA if the transfer is from outside the University
- Courses from a Master's programme previously completed by the student before admission to a new Master's programme may be counted provided that:
  - The similarity in study plan content is not less than 70%
  - The number of counted credit hours does not exceed 6 credit hours

- The Council shall decide on the counting of courses based on the recommendation of the department and faculty committees.
- Courses from a Higher Diploma programme may not be counted when a student joins a Master's programme, unless the Higher Diploma was obtained as a result of failure to obtain the Master's degree. In that case, no more than 9 credit hours from the previous plan may be counted.

**Article (19)**

- A student enrolled in a programme at the University may, by decision of the Deans' Council, study up to 3 credit hours in an equivalent programme at an official Jordanian university or any university outside Jordan recognized by the University, provided that prior approval is obtained from the Faculty of Graduate Studies based on the recommendation of the relevant department and faculty committees.
- The grades of the credit hours referred to in paragraph (a) shall not be counted in the cumulative GPA.

**Chapter Five: Courses, Grades, and Examinations**

**Article (20)**

The student's grade shall be recorded in letters from A to C.

The following grade points shall be assigned to the letter grades:

<b>A</b>	<b>= 4.00</b>
<b>A-</b>	<b>= 3.75</b>
<b>B+</b>	<b>= 3.50</b>
<b>B</b>	<b>= 3.00</b>
<b>B-</b>	<b>= 2.75</b>
<b>C+</b>	<b>= 2.50</b>
<b>C</b>	<b>= 2.00</b>

**Article (21)**

- The minimum passing grade in every programme course is C+. As for remedial courses, the student must pass them successfully according to the level of the course.
- The cumulative GPA shall be classified as follows:
  - Excellent: 3.65 – 4.00
  - Very Good: 3.00 – 3.64

**Article (22)**

- The minimum cumulative GPA required for passing the programme courses is 3.00 points.
- If a student's cumulative GPA falls below 3.00, the student may repeat up to 6 credit hours maximum from the study plan throughout the period of Master's study, provided that the grade in each course to be repeated is lower than B.
- If a student repeats a course due to failure or to raise the cumulative GPA, the higher grade shall be counted in both the semester and cumulative GPA, while the other grade shall remain on the academic record.
- If the repeated course is an elective, the student may study another elective course instead, and the higher grade of the two shall be counted in the semester and cumulative GPA, while the other remains on the academic record.

**Article (23)**

The grade distribution for each course shall be as follows:

- Semester work: 60%, including one written exam worth 30% and other work worth 30%
- Final examination: 40%

Courses of a special nature are exempt from the above, such as Research Methodology, projects, laboratories, designs, drawings, practical tests, field training, and clinical training that carry credit hours. The grades of such courses shall be distributed according to what is determined by the department or faculty committee.

Notwithstanding these instructions or any other regulations in force at the University, the Council may, by exception and in emergency situations, take whatever decision it deems appropriate regarding examinations, grades, and GPA calculations. This includes, without limitation, holding examinations or tests by conventional, in-person, electronic, or other means; distributing course grades; determining the method of converting grades into letters and recording them; setting the percentage distribution of letters among students; deciding whether students may choose between the letter grade system and the Pass/Fail system without counting it in the cumulative GPA; and determining whether such procedures may apply to courses already failed and repeated in a later semester.

## Chapter Six: Attendance

### Article (24)

- If a student's absence without an excuse accepted by the Dean of the relevant faculty exceeds 20% of the total hours prescribed for any course, the student shall be deprived of taking the final examination in that course and shall be considered failed in it. The student must repeat the course if it is compulsory. In all cases, the result of that failure shall be included in the calculation of the semester and cumulative GPA for purposes of warning and dismissal.
- If a student's absence with an excuse accepted by the Dean exceeds 20% of the total prescribed hours of one or more courses, the student shall be considered withdrawn from the course or courses.
- Absence shall be counted from the first lecture at the start of teaching. For new students admitted after teaching has begun, absence shall be counted from the date of admission.
- A student shall be considered not registered in a course if he/she has not paid the fees. With the approval of the President of the University, payment may be deferred for students unable to pay, for a period of 6 weeks in a regular semester and 3 weeks in the summer semester.

### Article (25)

- A student who is absent from the final examination shall be recorded as Absent (غ) in the final grade column of the grade sheet.
- A student who is absent from the announced final examination without an excuse accepted by the Dean of the faculty shall be considered to have failed that examination and shall receive a zero in it.
- A student who is absent from an announced examination due to illness or a compelling excuse must submit evidence of the excuse to the Head of Department within three days from the date the excuse ceases. If the excuse is accepted, the course instructor shall be informed and must conduct a make-up examination within one week from the date of notification of acceptance of the excuse.
- A student who is absent from the announced final examination due to illness or a compelling excuse must submit evidence to the Dean of the faculty within three days from the date the excuse ceases. If the excuse is accepted, the Dean shall notify the Head of Department, who in turn shall notify the course instructor to conduct a deferred examination for the student no later than the end of the second week of the following semester. The summer semester shall not be counted for this purpose. The Director of Admission and Registration must be officially informed accordingly.
- The notation Absent shall be recorded on the grade sheet for the course in which the student was absent from the final examination with an excuse accepted by the Dean. If the excuse does not cease within the period specified above, the student shall be considered withdrawn from that course by a decision of the Dean, and the Director of Admission and Registration shall be notified accordingly in all cases.

## Chapter Seven: Withdrawal

### Article (26)

- A student may make a late withdrawal from one or more courses no later than the end of the fourteenth week from the beginning of a regular semester, and the seventh week from the beginning of the summer semester. The notation “Withdrawn” shall be recorded on the student’s record. In all cases, the number of registered credit hours must not fall below the minimum academic load permitted under these instructions. Withdrawal in this case shall be processed according to the form prepared for that purpose.
- A student whose total absences, with an excuse accepted by the Dean, exceed 20% of the prescribed hours of the semester courses shall be considered withdrawn from that semester, and that semester shall not be counted within the maximum period of deferment, and this shall be permitted once only.
- The Dean of the faculty may approve the student’s withdrawal from all courses registered in a semester, provided that the withdrawal request is submitted at least two weeks before the final examinations. The notation “Withdrawn” shall be recorded in the student’s record, and that semester shall be considered deferred.
- The Council may approve the student’s final withdrawal from the programme to which he/she was admitted, provided that the request is submitted at least two weeks before the final examinations.
- A student who has withdrawn from the programme may not return to study in the same programme again if the cumulative GPA at the time of withdrawal was less than 3.00.

## **Chapter Eight: Deferment and Interruption of Study**

### **Article (27)**

A student applying for deferment must have spent at least one academic semester in the programme in which he/she is enrolled.

### **Article (28)**

The deferment request shall be submitted on the form prepared for that purpose. Approval shall be issued by the Dean if the deferment is for one semester, and by the Council if the deferment is for two academic semesters.

### **Article (29)**

If a semester ends and the student is neither registered nor deferred for that semester, the student shall be considered interrupted for that semester. If the interruption exceeds one academic semester, the Council may approve re-registration if an excuse accepted by the Council is submitted. The period of interruption shall be counted within the maximum duration allowed for obtaining the Master’s degree.

## **Chapter Nine: Academic Warning and Dismissal from Study**

### **Article (30)**

Without prejudice to the rule that a student shall not be given an academic warning at the end of the first semester after joining the specialization, a student shall be warned in the following cases:

- If, at the end of any academic semester, the student does not attain the minimum cumulative GPA.
- If the Faculty Council of the specialization, based on a report from the supervisor and the recommendation of the department and faculty committees, finds that the student’s progress in preparing the thesis is unsatisfactory.

### **Article (31)**

A student shall be considered temporarily dismissed from regular study if the cumulative GPA falls below 3.00 points at the end of the semester following the warning. In this case, the remedial study instructions shall apply to the student.

### **Article (32)**

A student shall be considered permanently dismissed in the following cases:

- If the student does not attain the minimum cumulative GPA of 3.00 points at the end of the remedial semester granted according to these instructions

- If the student fails the comprehensive examination for the Master's degree (comprehensive track) for the second time
- If the student does not fulfill the graduation requirement within the maximum period allowed under these instructions
- Decisions of academic warning and temporary transfer to remedial study shall be issued by the Director of Admission and Registration.
- Decisions of final dismissal from the University shall be issued by the Deans' Council upon nomination by the Director of Admission and Registration.
- Decisions of warning, temporary dismissal to remedial study, final dismissal from the University, and any other academic matters related to students shall be announced on the student notice board or any electronic publication means approved by the University, and such announcement shall constitute legal notification.

## Chapter Ten: Remedial Study

### Article (33)

A student who has been temporarily dismissed from regular study may be admitted to remedial study. In this case, the student shall be granted one remedial semester to raise the cumulative GPA to 3.00 points or above. If the student fails to do so, he/she shall be permanently dismissed from the enrolled programme. In exceptional cases, the Deans' Council may grant the student one additional remedial semester only.

### Article (34)

The student shall automatically return to regular study if he/she succeeds in raising the cumulative GPA to 3.00 points or above in the remedial semester.

### Article (35)

Students registered in remedial study shall be subject to the same rules of attendance, examinations, and grades stated in the Master's degree instructions.

### Article (36)

A remedial-study student shall benefit from all University services and facilities available and shall be granted a University ID card.

### Article (37)

The period of remedial study shall be counted within the maximum number of years allowed for study at the University.

## Chapter Eleven: Supervision of Theses

### Article (38)

- At the beginning of each semester, academic departments in the faculties shall announce the research topics proposed by faculty members so that graduate students may benefit from them in identifying thesis topics. A student may, however, propose a research idea outside the announced topics.
- A student may submit the thesis proposal and register it, provided that he/she has completed at least 12 credit hours, including the course Research Methodology, and has a cumulative GPA of not less than 3.00 points. Thesis registration may not be delayed beyond the end of the fourth semester from joining the programme.
- The student shall submit a thesis proposal including the research problem, objectives, importance, methodology, structure, and references.
- A committee of specialists in the department, composed of at least three faculty members who meet the conditions for teaching and supervision in the programme, shall be formed to discuss the student's thesis proposal.
- The Council shall issue a decision, based on the recommendation of the department and faculty committees, including the appointment of the supervisor and the approval of the thesis title and proposal, according to the form specified by the Faculty of Graduate Studies.

- The period between the appointment of the supervisor and approval of the proposal on the one hand, and the setting of the thesis defense date on the other, must be at least four months.

### **Article (39)**

- Teaching, supervision, and preparing and grading the comprehensive examination in the programs shall be undertaken by faculty members at the rank of Professor, Associate Professor, Assistant Professor, or those who have held any of these ranks at the University or at another university recognized by the University.
- For accreditation of faculty members at the rank of Professor or Associate Professor, one of the following conditions must have been fulfilled within the last five years:
  - At least two research papers published or accepted for publication in the faculty member's specialization or in the specialization he/she teaches in refereed scholarly journals, one of which must be in a classified/indexed journal
  - Two refereed books in the field of specialization
  - One refereed book in the field of specialization and one research paper published or accepted in a classified/indexed journal
- For accreditation of a faculty member at the rank of Assistant Professor, one of the following conditions must have been fulfilled within the last three years:
  - At least two research papers published or accepted for publication in the faculty member's specialization or in the specialization he/she teaches in refereed scholarly journals, one of which must be in a classified/indexed journal
  - Two refereed books in the field of specialization
  - One refereed book in the field of specialization and one research paper published or accepted in a classified/indexed journal
- Subject to the above, the maximum thesis supervision load for a faculty member at one time shall be six theses if the supervision is individual.
- The supervision load referred to above shall be counted for a maximum of three semesters. If the student is unable to complete the thesis discussion by the end of the third semester after thesis registration, the supervisor may continue supervising the student without that being counted within the teaching load, and after that may supervise other theses within the prescribed load.
- Subject to the above, and upon the recommendation of the department and faculty committees and the approval of the Council, a co-supervisor may be appointed from inside or outside the University, provided that he/she holds at least the rank of Assistant Professor and meets the supervision conditions.
- In special cases, a supervisor may be appointed from outside the department, outside the faculty, or outside the University, provided that the supervision conditions are met, upon the recommendation of the department and faculty committees and by decision of the Council.
- If there is a co-supervisor, the number of theses a faculty member may supervise may be doubled; in such case, half a credit hour shall be counted for each supervisor.

### **Article (40)**

The Council shall approve, upon nomination by the Department Committee and recommendation of the Faculty Committee, the appointment of a co-supervisor for the student's thesis from among those who meet the supervision conditions stated in these instructions.

### **Article (41)**

The supervisor may be changed for compelling reasons, according to the same procedure by which he/she was appointed.

### **Article (42)**

- By decision of the Council, based on nomination by the Department Committee and recommendation of the Faculty Committee, a faculty member who has been granted leave may supervise a student's thesis, continue supervision, or participate in it.

- In special cases, the Council may approve, upon nomination by the Department Committee and recommendation of the Faculty Committee, that a supervisor who is spending leave outside Jordan may continue supervising the student as a co-supervisor.

### **Article (43)**

- For each Master's thesis supervised, the supervisor shall be credited with one credit hour per semester, starting from the semester in which the supervisor is appointed, for a maximum of three semesters.
- The supervision load shall be calculated at the rate of one credit hour per student if the supervision is individual.
- In the case of joint supervision, the supervision load shall be divided equally between the supervisor and the co-supervisor.

### **Article (44)**

The thesis topic and proposal may be amended if required by the circumstances of the research. The amendment shall be made according to the same procedure by which the original approval was granted. As for changing the thesis title, this shall be made upon the recommendation of the supervisor and by a decision of the Council.

## **Chapter Twelve: Discussion Committee**

### **Article (45)**

The discussion committee shall consist of:

- The supervisor — Chair
- The co-supervisor, if any
- At least one faculty member from the University who meets the supervision conditions
- One faculty member from outside the University, provided that he/she holds the rank of Professor or Associate Professor in the field of specialization or research area

### **Article (46)**

The discussion committee shall be appointed and its date determined by a decision of the Council, based on the recommendation of the department and faculty committees, according to the following order:

- The supervisor shall prepare a report confirming the thesis is academically and linguistically ready for defense and complies with research integrity, according to the approved thesis plan and the form prepared for that purpose.
- The supervisor shall propose a list of two faculty members from inside the University and two from outside the University who meet the conditions of supervision and teaching in the programme, according to the form prepared for that purpose.

The student shall deliver copies of the thesis in its final form to the committee members immediately after the decision forming the committee is issued, and at least two weeks before the defense date. The student shall also attach a written declaration stating his/her commitment to all standards of ethics and scientific integrity in preparing the thesis.

## **Chapter Thirteen: Thesis Defense**

### **Article (47)**

The student shall apply for the defense of the university thesis after fulfilling all conditions and examinations prescribed in the study plan, completing all study plan requirements successfully, and attaining a cumulative GPA of not less than 3.00 points.

### **Article (48)**

The thesis defense shall proceed as follows:

- The student shall present a summary of the thesis within a period not exceeding 15 minutes, followed by a discussion by the members of the discussion committee.

- Attendance at the defense shall be limited to graduate students and faculty members in the department. In special cases, as determined by the department or faculty committee, the defense may be held in a closed session.
- The Chair of the committee shall manage the defense. After the defense is completed, the committee shall deliberate and decide by majority vote on one of the following results:
- Pass with minor revisions: the student must make the required revisions and submit the thesis within two weeks from the date of the defense, accompanied by a report from the supervisor confirming that the required revisions have been made.
- Pass with moderate revisions: the student must make the required revisions and submit the thesis within a period of not less than two weeks and not more than four weeks from the date of the defense, accompanied by a report from the supervisor confirming completion of the required revisions.
- Pass with major revisions: the student must revise the thesis within a period of not less than two months and not more than four months from the date of the defense. The student shall be registered with zero credit hours in the following semester if the legal study period has not expired. The student shall be considered to have passed if the committee approves the thesis after revision; otherwise, the student shall be considered to have failed.
- Fail

#### **Article (49)**

The period specified in Article (48) for submitting the thesis in its final form may be extended in compelling cases accepted by the Council.

#### **Article (50)**

The decision of the discussion committee shall be approved by the Council based on nomination by the Department Committee and recommendation of the Faculty Committee, according to the form prepared for this purpose.

#### **Article (51)**

The student shall submit three hard copies and two electronic copies of the approved thesis to the library as a condition for receiving the degree certificate.

#### **Article (52)**

If the student fails the thesis defense, he/she shall be awarded the Higher Diploma Certificate.

### **Chapter Fourteen: Comprehensive Examination**

#### **Article (53)**

The comprehensive examination shall be of an integrated comprehensive nature, aiming to measure the student's ability to link together the different basic and advanced concepts acquired from various knowledge fields and to employ them in solving scientific and applied problems in the field of specialization.

#### **Article (54)**

The Department Committee shall undertake the following:

- Organizing the affairs of the examination and determining, with precision, the areas it covers, provided that they cover the areas of specialization and that their number is not less than three and not more than five fields. It shall also propose the necessary references and readings, and the examination areas, references, and readings shall be announced to students at least one academic semester before the examination date.
- Recommending to the Faculty Committee the formation of the comprehensive examination committee, consisting of three to five members, one of whom shall be the Chair. They shall be selected from faculty members specialized in the examination subject to prepare the questions and grade the answers, and the decision to form the committee shall be issued by the Council.
- Submitting the results of the comprehensive examination to the Faculty Committee for study and recommendation to the Council for approval.

### **Article (55)**

The comprehensive examination shall consist of two written papers held in two separate sessions, each session lasting three hours. The examination shall be held twice a year at the dates specified in the academic calendar. It may be held a third time during the summer semester, depending on the availability of the necessary facilities and preparations in the various departments. The student must submit an application to sit for this examination on the form prepared for that purpose.

### **Article (56)**

- The student shall apply for the comprehensive examination after completing all study plan requirements successfully, provided that the cumulative GPA is not less than 3.00 points.
- The passing mark in the comprehensive examination shall be 70%.
- If the student fails the comprehensive examination the first time, he/she may sit for it a second time in the following semester. If he/she fails the second time, the student shall be awarded the Higher Diploma Certificate.
- The student's result in the comprehensive examination shall be recorded on the transcript as Pass or Fail each time the student sits for it.

## **Chapter Fifteen: Granting Degrees**

### **Article (57)**

- The Master's degree shall be awarded by a decision of the Deans' Council, based on the recommendation of the Council.
- The Deans' Council shall determine the dates for awarding certificates and degrees.

### **Article (58)**

The Higher Diploma degree shall be awarded to a student registered in one of the Master's programs, whether in the thesis track or the comprehensive track, in either of the following cases:

- If the maximum period of the student's registration in the programme expires after successfully completing all the study plan requirements, but the student is unable to complete and defend the thesis, or is unable to sit for the comprehensive examination at the specified dates and pass it
- If the student fails the thesis defense, or fails the comprehensive examination twice

## **Chapter Sixteen: Assistantships / Stipends**

### **Article (59)**

An annual amount shall be allocated from the scientific research budget as research assistance stipends for outstanding Master's students. These stipends shall be granted to students on a semester basis.

### **Article (60)**

The assistantship budget shall consist of:

- Amounts allocated by the Deans' Council based on the recommendation of the Graduate Studies Council
- Grants, donations, and endowments accepted by the University for this purpose

### **Article (61)**

- Applications for obtaining assistantships shall be submitted to the Faculty of Graduate Studies.
- The graduate studies committees in the relevant department and faculty shall recommend to the Dean the number of assistantships needed by the department before the start of the semester.
- The total number of assistantships and the detailed numbers in the departments shall be presented to the Council for discussion and approval according to the financial possibilities available in that semester.

### **Article (62)**

- The Council shall establish the criteria for ranking/prioritization according to a schedule prepared for that purpose.

- In the ranking process, consideration shall be given to the student's excellence and eligibility for assistance in scientific research, so that the assistantships are awarded on a competitive basis according to the cumulative GPA of students within the same programme.
- The assistantship shall be awarded competitively according to the cumulative GPA of students in each specialization, provided that the student has completed at least 6 credit hours from the study plan. Remedial courses shall not be counted for this purpose. The Council may set other criteria related to the number of credit hours successfully completed from the plan and the number of assistantships previously obtained by the student.
- Assistantships shall be approved by a decision of the Deans' Council based on the recommendation of the Council.

### **Article (63)**

- The scientific research assistance stipend shall amount to 150 Jordanian Dinars per month for four months per semester, provided that the total period of receiving the stipend shall not exceed 10 months.
- A student receiving a scientific research assistance stipend shall be required to work in scientific research according to a detailed work plan approved by the Council upon nomination by the relevant department and faculty committees.

### **Article (64)**

A student applying for the stipend must satisfy the following conditions:

- The student must be fully devoted to study at the University, and likewise to assisting in scientific research at the University
- The student must have completed at least 6 credit hours from the study plan, excluding remedial courses, with a cumulative GPA of not less than 3.20 points
- The student's academic load in that semester must not exceed 9 credit hours and must not be less than 6 credit hours, excluding remedial courses
- No disciplinary penalty greater than a warning must have been imposed on the student

The stipend shall be cancelled in the following cases:

- If the number of registered credit hours from the study plan falls below 6 credit hours, or rises above 9 credit hours
- If the student stops working under the stipend at his/her own request, or upon recommendation by the relevant department and faculty committees
- If the student becomes subject to a disciplinary penalty
- If it is proven that the student does not adhere to the professional standards of work in scientific research or in dealing with others
- If the student violates any provision of this chapter

## **Chapter Seventeen: General Provisions**

### **Article (65)**

The Instructions for Granting the Bachelor's Degree shall apply to cases not expressly provided for in these instructions whenever possible.

### **Article (66)**

The Scientific Research Instructions at the University shall apply to assistantships and to any matter related to scientific research not expressly provided for in these instructions, or in case of conflict with them.

### **Article (67)**

Cases of scientific plagiarism, or suspicion thereof, shall be referred to specialized investigation committees to decide on them, whether before or after the defense, and the decisions issued by the University in this regard shall be implemented.

### **Article (68)**

The Deans' Council shall issue a decision to withdraw the academic degree if it becomes evident at any time that the degree was obtained by unlawful means, or that the thesis submitted for the degree does not conform in content to the standards of scientific integrity. The relevant bodies inside and outside the University shall be notified of this by decision of the Council.

**Article (69)**

The Master's student authorizes the University, in writing, to reproduce the thesis in whole or in part and in different forms for purposes of scientific research, electronic publication, and exchange with educational, research, and university institutions.

**Article (70)**

These instructions shall not apply to joint Master's programs with another university or scientific institute where a special agreement exists between them and the University. In such cases, special regulations shall be developed for each programme in light of the signed agreement.

**Article (71)**

In very special cases, the Deans' Council, based on the recommendation of the department and faculty committees, may award the Higher Diploma in Graduate Studies to a student who has successfully completed the courses of the study plan but whose circumstances prevent him/her from continuing the study.

**Article (72)**

The Dean of the Faculty of Graduate Studies, the Deans of the faculties, and the Director of the Admission and Registration Department shall be responsible for implementing these instructions.

**Article (73)**

The Deans' Council shall decide on any cases for which no explicit provision is stated in these instructions.

# Academic Calendars

## First Semester

Sunday 05/10/2025	Start of the Academic Year
Sunday 12/10/2025	Classes begin for the First Semester 2025/2026
Sunday - Thursday 12/10/2025 - 16/10/2025	Add and Withdrawal and late registration without financial loss
Sunday - Thursday 19/10/2025 - 22/01/2026	Non-refunded withdrawal
Monday - Thursday 24/11/2025 - 04/12/2025	Midterm Exams
Sunday 07/12/2025	Guidance & Registration on Second Semester courses begin 2025/2026
Thursday 25/12/2025	Christmas
Thursday 01/01/2026	New Year
Tuesday 20/01/2026	Deadline for teaching subjects
Wednesday - Monday 21/01/2026 - 02/02/2026	Final Exams 2024/2025
Tuesday 03/02/2026	Start of Semester Vacation
Wednesday 04/02/2026	Deadline for handing in First Semester results 2024/2025
Thursday 05/02/2026	Last date for reviewing grades and taking incomplete exams for graduate students
Sunday 08/02/2026	The Deans Council's decision to grant academic degrees and certificates

## Second Semester

Sunday 22/02/2026	Commencement of the Second Semester 2025/2026
Sunday 01/03/2026	Commencement of Teaching – Second Semester 2025/2026
Sunday - Thursday 01/03/2026 - 05/03/2026	Course Add/Drop & Late Registration (No Financial Penalty)
Sunday - Thursday 08/03/2026 - 11/06/2026	Withdrawal with Financial Penalty
Thursday 19/03/2026	Eid al-Fitr (Observed)
Thursday - Tuesday 23/04/2026 - 05/05/2026	Midterm Exams – Second Semester 2025/2026
Friday 01/05/2026	Labor Day Holiday
Sunday 03/05/2026	Advising & Registration – Summer Semester 2025/2026
Monday 25/05/2026	Independence Day Holiday
Wednesday 27/05/2026	Eid al-Adha (Observed)
Saturday 13/06/2026	End of Course Instruction
Sunday - Saturday 14/06/2026 - 27/06/2026	Final Exams – Second Semester 2025/2026
Monday 29/06/2026	Submission Deadline – Second Semester 2025/2026 Results
Wednesday 01/07/2026	Grade Review & Incomplete Exams Deadline – Graduating Students
Sunday 05/07/2026	Council of Deans' Decision on Awarding Degrees and Certificates
Monday - Saturday 29/06/2026 - 18/07/2026	Intersemester Break – 2nd & Summer Semester 2025/2026

## Summer Semester

Sunday 19/07/2026	Commencement of Teaching – Summer Semester 2025/2026
Sunday - Tuesday 19/07/2026 - 21/07/2026	Add/Drop and Late Registration Without Financial Penalty
Wednesday - Thursday 22/07/2026 - 03/09/2026	Withdrawal with Financial Penalty
Thursday - Thursday 13/08/2026 - 20/08/2026	Midterm Exams Period – Summer Semester 2025/2026
Sunday 16/08/2026	Beginning of Academic Advising and Registration for the First Semester 2026/2027
Thursday 03/09/2026	End of Classes – Summer Semester 2025/2026
Sunday - Sunday 06/09/2026 - 13/09/2026	Final Exams Period – Summer Semester 2025/2026
Monday 14/09/2026	Deadline for Grade Review and Incomplete Exams for Graduating Students
Tuesday 15/09/2026	Last Date for Submitting the Results of the Summer Semester 2025/2026 to the Admissions and Registration Department
Thursday 17/09/2026	Decision of the Council of Deans to Confer Academic Degrees and Certificates

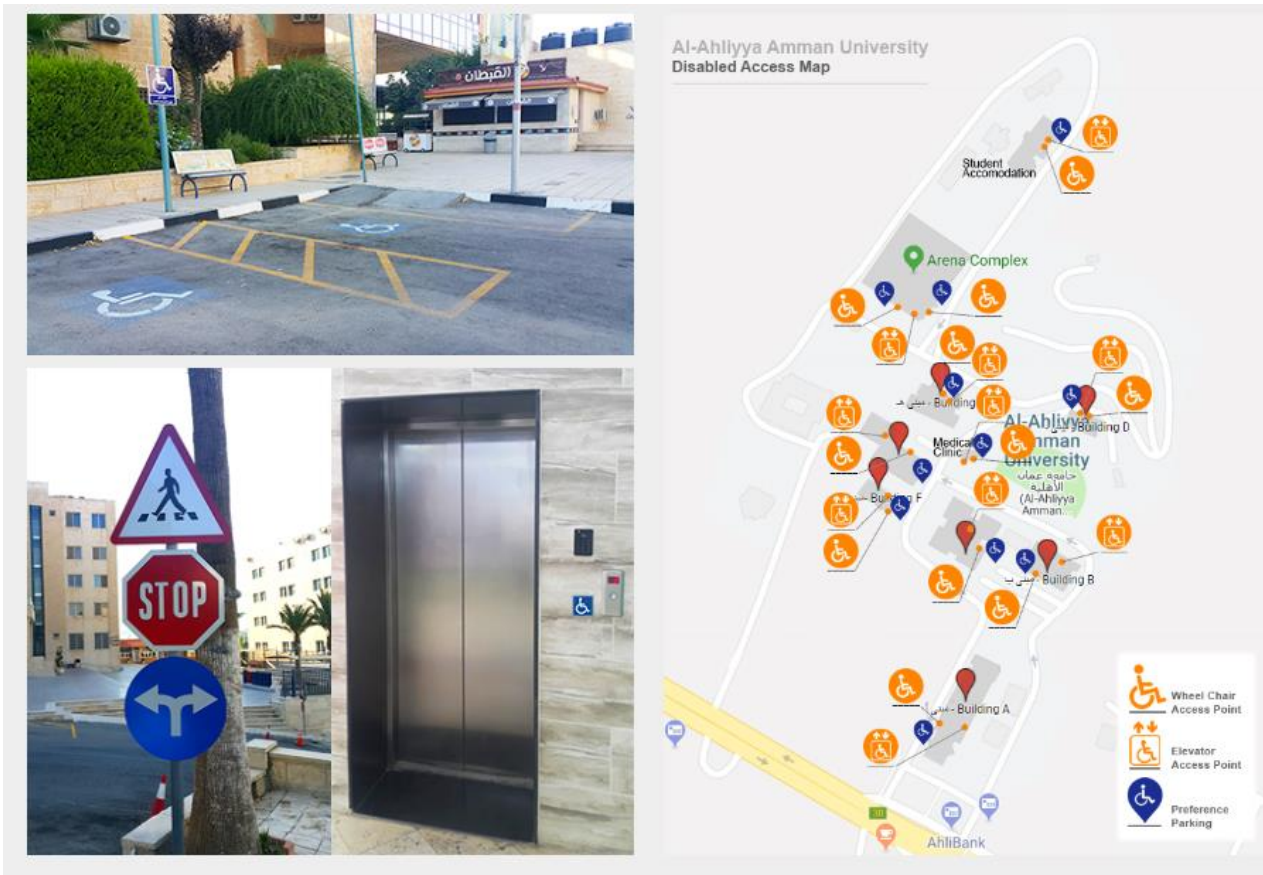
## Accessibility and Support for Students with Disabilities

Al-Ahliyya Amman University is committed to providing an inclusive and supportive learning environment in which students with disabilities are not disadvantaged or unfairly treated. The University regularly reviews its teaching strategies, learning environments, and educational practices to reduce barriers to participation and to ensure that all students are able to develop their skills and abilities fully.

The University welcomes applications from students with disabilities and encourages them to contact the relevant learning support officer to learn more about available technical support, financial discounts, and scholarship opportunities. Applications are considered on academic merit in accordance with the University’s diversity policies, and students may discuss any required support arrangements or reasonable adjustments after receiving a formal offer.

To support equal access across campus, the University provides accessible facilities such as designated parking areas, wheelchair access points, elevators, and accessible restrooms in its buildings. It also works to improve digital accessibility through features such as text-to-speech support, assistive computer technologies, and website development aligned with W3C web accessibility guidelines.

In addition, the University offers academic and support services for students with learning difficulties through specialized centers, including the Hearing and Speech Center and the Counseling and Special Education Center. Available support may include learning access programs, assistive technology, note-taking support, trained student support groups, and sign language interpreters. The University also seeks to accommodate students with special housing needs through accessible residential facilities when needed.



## Campus Life

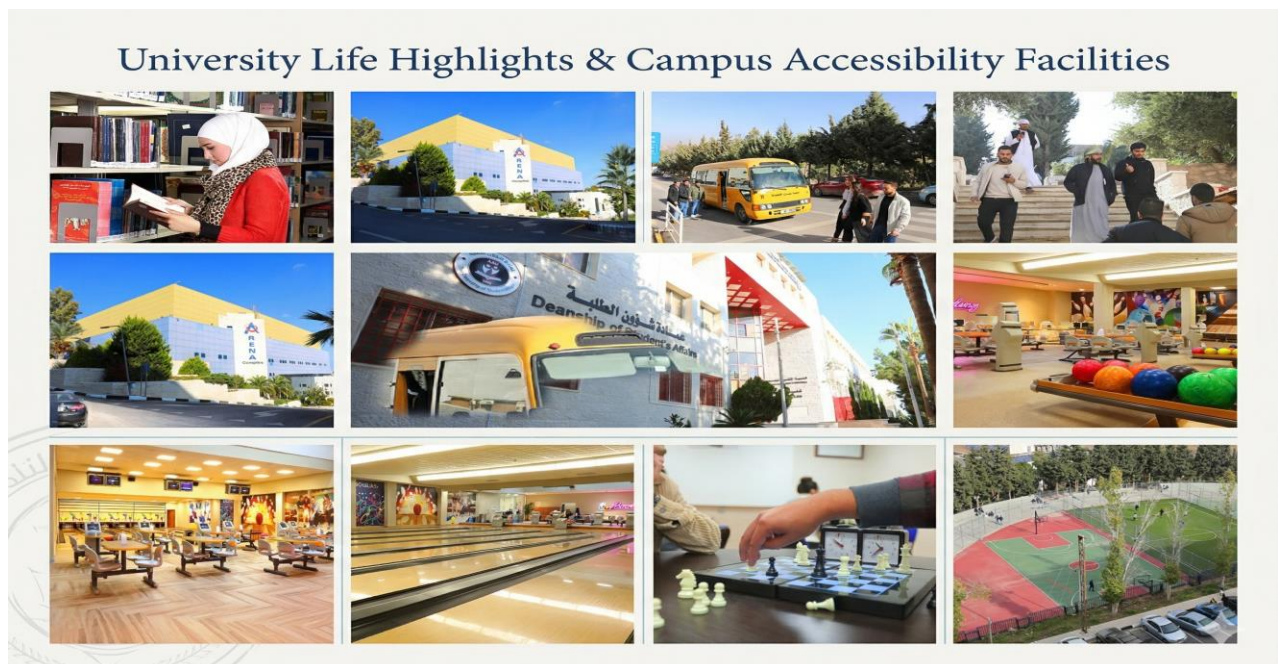
Al-Ahliyya Amman University provides an integrated campus environment that combines learning, services, activities, and facilities that support student life. The campus becomes vibrant at the beginning of each semester, where students benefit from a variety of facilities that contribute to a balanced academic and social experience. The University campus extends over a total area of **185,000 square meters**, including **14,000 square meters** of green spaces, which enhances the quality of the campus environment and student well-being.

The University’s facilities include several key components that support campus life, such as the **Arena Complex**, which is dedicated to cultural, sports, and recreational activities, and the **Library**, which provides print and electronic information resources to support academic programs and scientific research. In addition, the University offers **religious facilities** that provide spiritual and religious services to the student community in a comfortable and welcoming environment.

The University also provides a range of services that make students’ daily lives easier, most notably the **cafeteria**, **transportation services** that ensure safe and reliable travel from bus collection points to campus, **bookstores** that provide academic books and references, and **parking facilities** for students, staff, and permit holders. In addition, the **student housing** offers a suitable study environment with easy access to medical services, transportation, the Arena Complex facilities, and wireless internet services.

Campus life is further supported by a number of units and centers that serve students academically, professionally, and technically, such as the **Deanship of Student Affairs**, which is concerned with student development and talent support; the **Residency and Visa Office** for international students; and the **Career Guidance and Alumni Follow-up Office**, which helps connect students and graduates with the labor market. The University also includes the **Hourani E-Learning Center**, the **Computer Center**, and the **Innovation and Entrepreneurship Center**, which supports students in developing innovative solutions and entrepreneurial ideas.

The University also places strong emphasis on extracurricular activities and support services through **medical services**, as well as events in **culture, arts, and sports**, all of which contribute to building students’ character, enhancing their integration into university life, and providing a comprehensive educational experience on campus



# Faculty of Information Technology

## Dean's Message

Established in 2001, the Faculty of Information Technology at Al-Ahliyya Amman University is committed to delivering quality education in computing and related disciplines through academically rigorous, practice-oriented, and continuously improved programs. The Faculty aims to prepare graduates who possess solid theoretical foundations, relevant technical and professional skills, ethical awareness, and the ability to adapt to the rapidly changing demands of the information technology sector. Particular emphasis is placed on critical thinking, independent learning, teamwork, effective communication, and lifelong learning as essential attributes of its graduates.

The Faculty currently offers four bachelor's programs in Computer Science, Software Engineering, Networks and Cybersecurity, and Data Science and Artificial Intelligence, as well as two master's programs in Cybersecurity and Data Science and Artificial Intelligence. Its academic portfolio is supported by qualified faculty members with diverse academic and professional backgrounds, appropriate learning resources, and an educational approach that integrates classroom teaching with laboratory work, projects, and applied learning experiences.

Academic and administrative processes within the Faculty are guided by an established quality assurance framework that supports systematic planning, monitoring, evaluation, and continuous improvement. Program learning outcomes and course learning outcomes are regularly reviewed and aligned with the Faculty's educational objectives and stakeholder expectations. Through ongoing curriculum development, research engagement, and contribution to digital and e-learning initiatives, the Faculty seeks to maintain the academic quality, relevance, and sustainability of its programs in line with national requirements and internationally recognized standards.

## Vision, Mission, Objectives, and core Values

### Vision

Global leadership in education and scientific research in the fields of computer science, networks and cybersecurity, software engineering, and data science & artificial intelligence, by graduating innovative and qualified leaders who contribute to enhancing sustainability and supporting innovation within an intelligent knowledge environment, meeting the evolving needs of society and the labor market.

### Mission

To offer quality educational programs accredited locally and internationally, using the latest methods of teaching and learning, to graduate cadres capable of competition and leadership in the fields of computer science, networks and cybersecurity, software engineering, and data science & artificial intelligence. The College also strives to invest in applied scientific research in partnership with pioneers in various industries, to meet the requirements of sustainable community development within an intelligent knowledge environment that supports creativity and innovation.

### Objectives

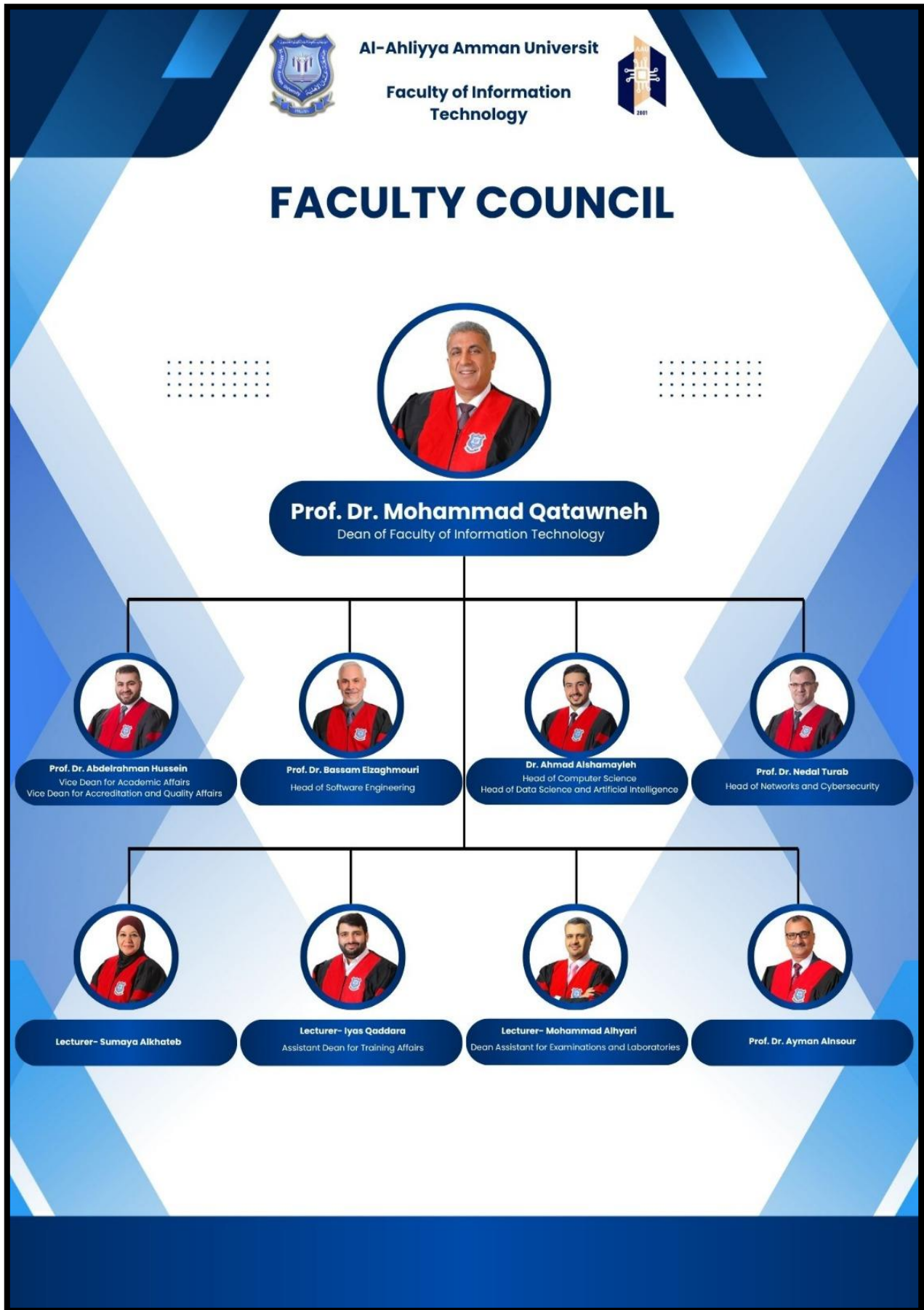
1. **Preparing outstanding scientific and leadership cadres in the fields of computing and informatics**, with a focus on developing technical and leadership skills to meet labor market needs.

2. **Offering high-quality academic programs**, providing students with an exceptional educational experience based on modern teaching methods that align with the evolving demands of the labor market.
3. **Developing strategic partnerships with academic and industrial institutions** to support educational and training programs, contributing to providing effective training opportunities for students.
4. **Adopting local and international accreditation standards and ensuring quality assurance** in all academic programs, ensuring the maintenance of a high academic level.
5. **Enhancing scientific research and linking it to national priorities to serve the local community**, ensuring the college's contribution to developing innovative solutions to societal problems.
6. **Enhancing students' creativity, innovation, and leadership skills** through educational programs that encourage critical thinking and support sustainable technological development.
7. **Enhancing the role of the college in serving the local community and contributing to its development**, by providing community and research initiatives that address societal needs.

## Core Values

- **Excellence:** Continuous ambition towards excellence in education and research.
- **Ethics and scientific honesty:** Commitment to professional ethics that supports the learning process and preserving rights of intellectual property.
- **Teamwork:** Working as a team to achieve common goals.
- **Leadership:** Employing individual capabilities of team members where needed and strengthening them.
- **Integrity:** Promoting the values of individual and institutional integrity.
- **Creativity:** Strengthening the spirit of creativity among graduates.
- **Social responsibility:** Interact with the local community and contribute to its development.

# Organizational Chart



## Faculty Departments and Programs

The faculty comprises scientific departments granting multiple academic degrees, as follows:

No	Department	Degree / Academic Program
1	Computer Science Department	Bachelor of Computer Science
2	Software Engineering Department	Bachelor of Software Engineering
3	Networks and Cybersecurity Department	Bachelor of Cybersecurity and Networks Master of Cybersecurity
4	Data Science and Artificial Intelligence Department	Bachelor and Master of Data Science and Artificial Intelligence

# Faculty Distribution by Academic Rank

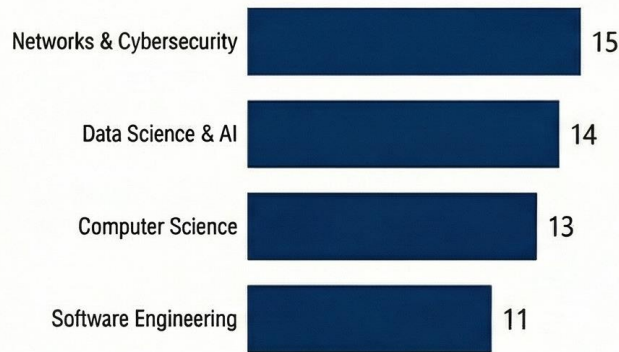
## Distribution of Faculty Members by Department and Academic Rank

This academic dashboard visualizes the staffing distribution of 53 total faculty members across four specialized departments, breaking down personnel by academic rank (Professor, Associate Professor, Assistant Professor, and Lecturer) to exhibit the expertise profile of each department for institutional reporting.

**Departmental Staffing Totals (Summary Chart)**



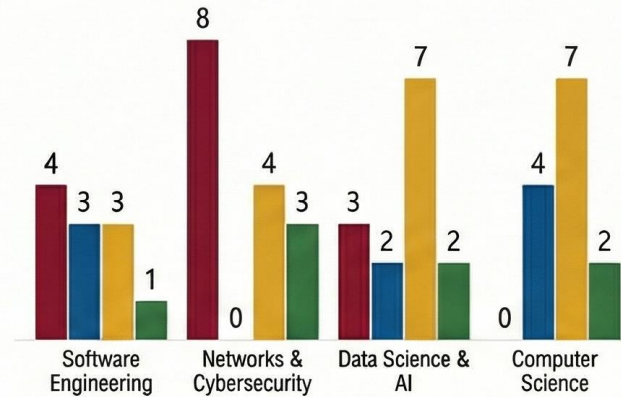
**15 Total Faculty in Networks and Cybersecurity:** This is the largest department in the group by total headcount.



**15 Total Faculty in Networks and Cybersecurity:** This is the largest department in the group by total headcount.

**11 Total Faculty in Software Engineering:** This represents the most compact department while maintaining a balanced rank distribution.

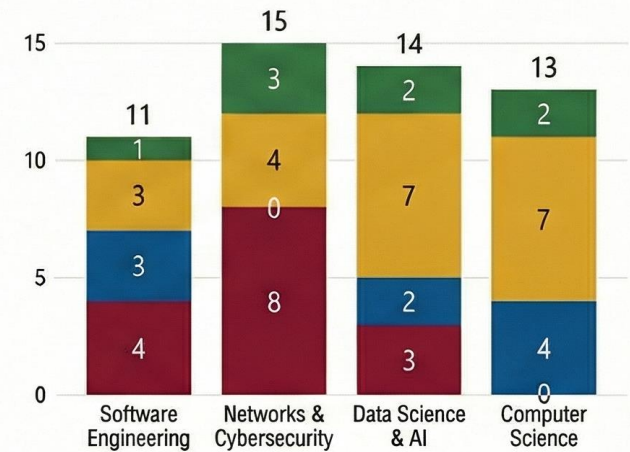
**Faculty Composition by Department and Academic Rank (Grouped Chart)**



**Networks and Cybersecurity leads in senior leadership:** This department holds the highest number of full Professors (8) compared to other departments.

**Computer Science relies on mid-to-junior ranks:** This is the only department with zero full Professors, focusing instead on Associate and Assistant levels.

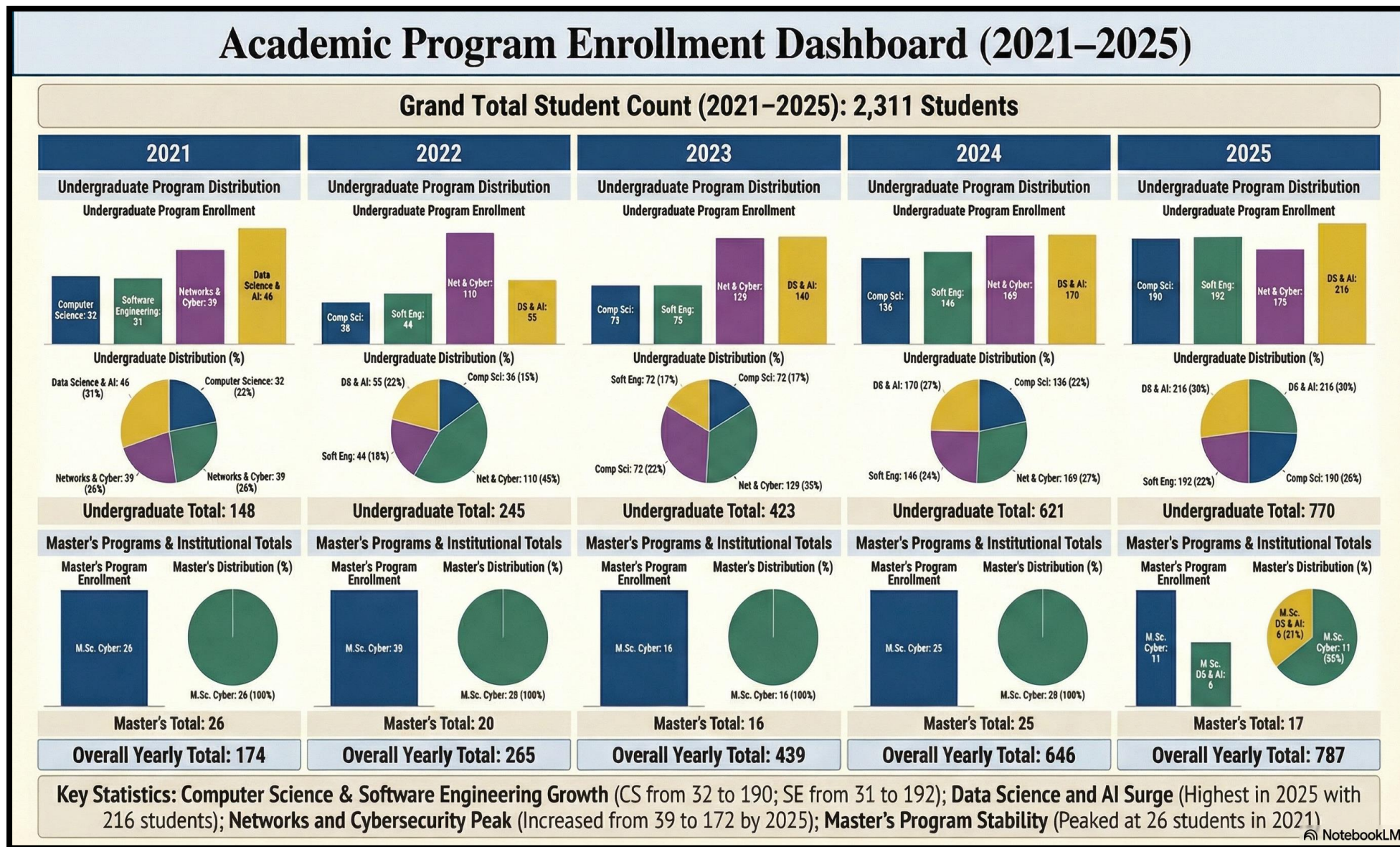
**Total Faculty Composition by Department (Stacked Chart)**



**Assistant Professors form the largest cohort:** With 21 members, Assistant Professors represent nearly 40% of the total faculty across all departments.

Academic Rank  
 ● Professor ● Assoc. Prof ● Asst. Prof ● Lecturer

## Summary of Enrolled Student Numbers (2021-2025)



## Faculty Committees

# FACULTY OF INFORMATION TECHNOLOGY COMMITTEES

### GOVERNANCE OVERVIEW



**16** Active Committees

Total specialized groups managing faculty operations, planning, and student affairs.



**11** Unique Chairpersons

Faculty leaders overseeing various strategic and administrative portfolios.



**97** Total Participant Placements

Combined total of all chair and member positions filled across the faculty.

### COMMITTEE COMPOSITION & SIZE (Member Count per Committee)



### DETAILED COMMITTEE ROSTERS

<b>Registration and Accreditation</b> Chair: Prof. Mohammad Al-Qatawneh Prof. Abdulrahman Hussein Prof. Bassam Al-Zaghmouri	<b>Academic Planning</b> Chair: Prof. Mohammad Al-Qatawneh Prof. Abdulrahman Hussein Prof. Nidel Tarah Prof. Bassam Al-Zaghmouri	<b>Examinations and Testing</b> Chair: Prof. Mohammad Al-Qatawneh Dr. Ahmad Al-Sabbagh Dr. Ahmad Al-Shamayleh Prof. Nidel Tarah	<b>Research</b> Chair: Prof. Nidal Tarab Prof. Ayoub Al-Mardani Prof. Adfar Al-Sachani Prof. Mohammad Al-Qatawneh	<b>Social and Extracurricular Activities</b> Chair: Prof. Ahmad Habbouch Dr. Weel Toghuj Dr. Klajyd Ibo Sefni Dr. Sazzad Hamonda Dr. Ahmad Al-Khetib Dr. Qaereti Nujm Dr. Reba Teha <b>Total: 7</b>	<b>Accreditation and Quality Assurance</b> Chair: Prof. Abdulrahman Hussein Prof. Nidel Tarah, Prof. Bassam Al-Zaghmouri Dr. Ahmad Al-Shamayleh Prof. Heim Alkhoussi, Prof. Ghada Alhudhud Dr. Renie Abweith, Dr. Stinna Wostita Dr. Mshran Alekyaud, Dr. Ahmad Ehubita Dr. Ahmed Elwifideh, Dr. Hany Ekelemony Dr. Ebech Albszikh, Dr. Mohammad Albsworst Dr. Abread S. Mkiatib, Dr. Qasam Nujm Dr. Itholoud Alhayid, Dr. Khali Abdbaaby, Mrs. Jonal Auzur Dr. Mohamed Katsin <b>Total: 6</b>				
<b>Training and Development</b> Chair: Mr. Iyas Qaddara Mr. Mohammad Alhyari Dr. Insaf Braldia Mrs. Nida Al-Shafi <b>Total: 3</b>	<b>Library</b> Chair: Dr. Mejed Said Abukaflya Dr. Mohammad Al-Husseini Dr. Mou'ath Hourani Dr. Aymen Mohamad Dr. Moturem Qahousbagy Dr. Ssrea Alsariera	<b>Safety</b> Chair: Prof. Gheda Alhudhud Dr. Musammil Hossain Dr. Sved Hamonda Dr. Yawnie Saoudi <b>Total: 6</b>	<b>Graduates Follow-up</b> Chair: Mr. Abdalleh Hyeszat Dr. Ahmad Abw-Bharaha Dr. Mehmood Abdalhamied Dr. Badi Abdrukky Dr. Hussain AlFitzhat Dr. Yezeed Al-Sarhan	<b>Academic Advising</b> Chair: Mr. Yousef Alraba'nah Dr. Hany Elsclamons Dr. Mehran Al-Syoud Mrs. Gamala SaGouni Dr. Ayman Elthenawy <b>Total: 6</b>	<b>Website</b> Chair: Dr. Sanaa Albalabi Dr. Musammil Hussein Dr. Sumaia Sabouni Dr. Mohamad Rohaim Dr. Kholoud Alkayid Dr. Mutasem Elshourbagy	<b>Strategic Planning</b> Chair: Prof. Dr. Mohammad Qatawneh Prof. Abdulrehman Hussein Prof. Hidal Tarah Prof. Rasarm Al-Zaghmouri Dr. Ahmad Al-Shamayleh <b>Total: 5</b>	<b>Graduation Projects</b> Chair: Sumaya Al-Kbatib Prof. Qasani Kharna Prof. Dr. Mosleh Btohammad Abuabjaj Prof. Ahmad Habbash Dr. Kania Aizubaldi Dr. Saeed Hamouda	<b>Higher Studies</b> Chair: Prof. Mohammad Qatawneh Prof. Abdulrehman Hussein Prof. Hidal Tarah Dr. Ahmad Al-Shamayleh <b>Total: 4</b>	<b>Student Activities</b> Chair: Mr. Iyas Qaddara Mr. Incef Kfakite Mr. Abdallah Hyasest Dr. Ghaeh Alkavhish Dr. Aaman Elshenawy Dr. Hussein AlOTelshat

# Computer Science Department



## Introduction

The Department of Computer Science was established in 1991 with the aim of supplying local and regional markets with distinguished graduates who possess scientific knowledge and practical experience in the field of computer science. The department aligns with the vision of the College of Information Technology, which seeks to provide distinguished education in an innovative environment that keeps up with the latest developments. It equips students with technical knowledge and leadership skills that meet labor market needs and keep pace with ongoing changes in the field.

Students earn a Bachelor's degree in Computer Science upon completing all the required and elective courses, totaling 132 credit hours. The program is designed in accordance with international standards for curriculum development in computing and information technology. The college aims, through the Computer Science program, to meet the growing local, regional, and global demand for qualified students in the fields of computer science and its applications. This is achieved by providing practical teaching and training methods that are continuously improved and developed to stay current with the latest scientific and technological advancements.

As part of the college's educational outcomes, the Computer Science program focuses on providing a blend of theoretical knowledge and practical skills through carefully chosen core courses that form a solid foundation for students. These courses include Introduction to Programming, Systems Analysis and Design, Databases, Operating Systems, Internet Applications Development, Mobile Applications Development, Computer Networks, Cybersecurity, and Data Science, as well as the Graduation Project and Practical Training. These courses also include practical laboratories that provide students with the necessary skills to apply their knowledge in real-world settings. Additionally, community service is an essential part of the program, where students are required to complete 10 hours of community service as a graduation requirement, promoting their role in community service and contributing to sustainable development.

Upon graduation, students are equipped not only with academic knowledge but also with the practical skills that support the college's goals of achieving leadership in education and training aligned with labor market needs, while supporting sustainable development through active community engagement and technological innovation.

## Mission, Job Opportunities, and Program Educational Objectives (PEOs)

### Mission

To provide distinguished education in a creative environment that keeps up with the latest developments in the field of computer science, equipping students with technical knowledge and leadership skills that meet the needs of the labor market. The program adheres to quality assurance standards and local and international accreditation requirements to produce high-quality outcomes. It also activates scientific research and enhances collaboration with the local community and industry to provide innovative technological solutions that contribute to sustainable community development

### Job Opportunities

1. **Software Developer** – Design, develop, and maintain software applications for various platforms.

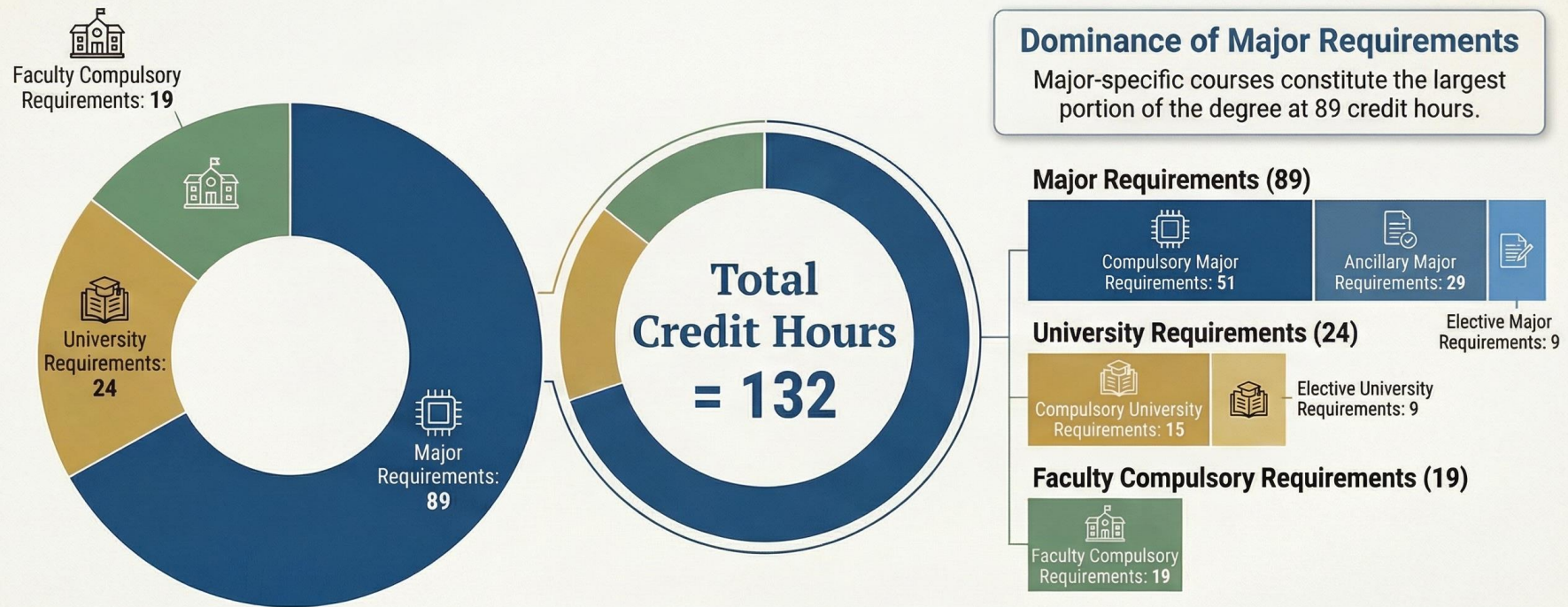
2. **Systems Analyst** – Analyze and design information systems to meet the business needs of organizations.
3. **Web Developer** – Create and maintain websites and web applications using front-end and back-end technologies.
4. **Mobile App Developer** – Design and develop mobile applications for iOS and Android devices.
5. **Game Developer** – Design, develop, and test video games for various platforms.
6. **IT Consultant** – Provide expert advice on how to improve and implement technology solutions for businesses.
7. **DevOps Engineer** – Automate and streamline development, testing, and deployment processes in the software development lifecycle.
8. **Full Stack Developer** – Work on both the front-end and back-end of web applications, integrating various systems and technologies.
9. **Database Administrator (DBA)** – Manage and organize data, ensuring databases run efficiently, securely, and are accessible when needed.
10. **Database Developer** – Design, create, and maintain databases, writing efficient SQL queries and optimizing database performance.

### **Program Educational Objectives (PEOs):**

- **PEO-1- Professional Success:** Graduates will succeed in the field of computer science by working in areas such as software development, databases, distributed systems, and networking, applying their ability to solve complex problems and contribute to technological innovation.
- **PEO-2- Continuous Professional Development:** Graduates will demonstrate professional growth through continuous learning, specializing in emerging fields such as artificial intelligence, data science, or other advanced technologies, and contributing to research and graduate studies.
- **PEO-3- Innovative Contributions:** Graduates will contribute to the development of innovative computing solutions that address societal challenges and keep pace with technological advancements, leveraging their knowledge to meet both industry and community needs.
- **PEO-4- Effective Communication and Ethical Leadership:** Graduates will communicate effectively and work collaboratively within multidisciplinary teams, while upholding high ethical standards in their professional endeavors.

## Distribution of Credit Hours

### Distribution of Credit Hours for the B.Sc. in Computer Science Study Plan

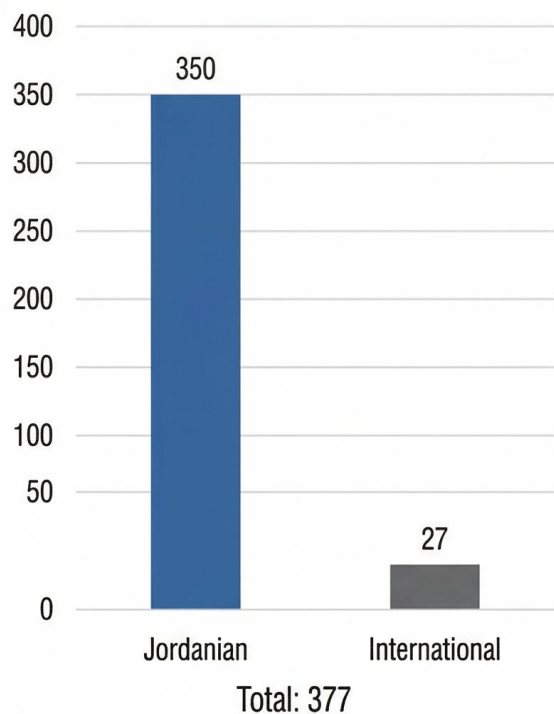


\* Community Service (10 hours) is mandatory but not counted within the 132 credit hours.

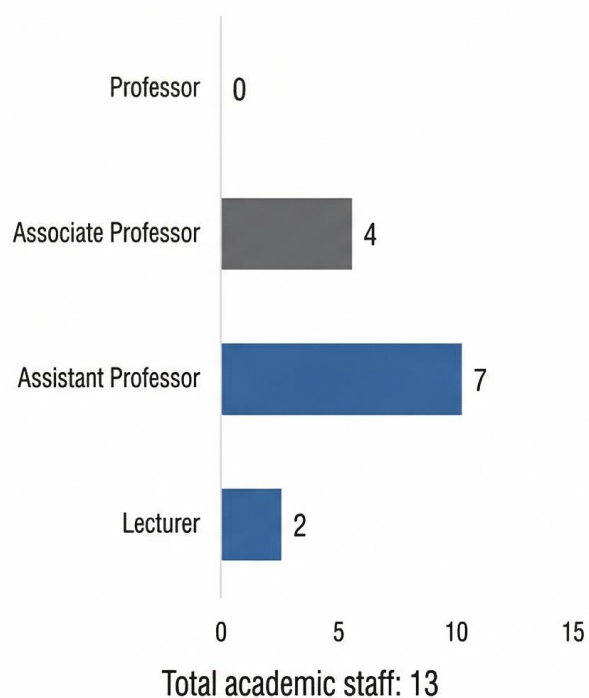
## Statistics Overview

# B.Sc. of Computer Science – Program Statistics Overview

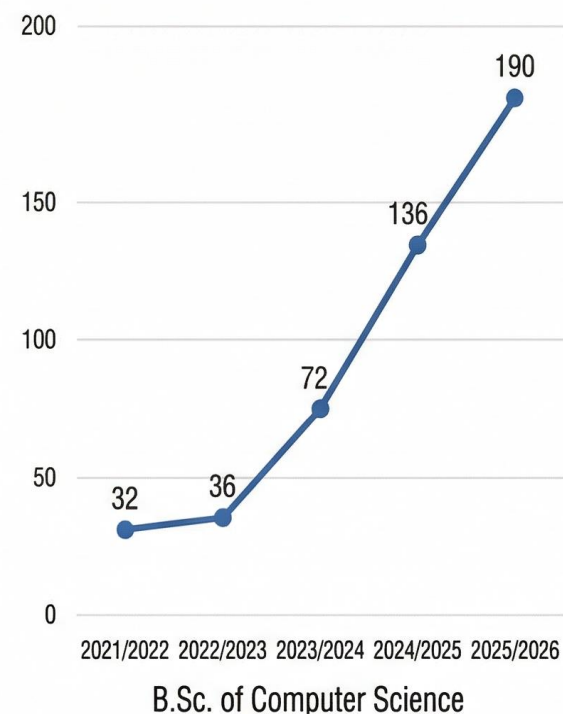
### Student Nationality Distribution



### Academic Staff by Rank – Computer Science Department



### Student Admissions Over the Last 5 Academic Years



## Study Plan

### Al-Ahliyya Amman University Faculty of Information Technology (132) Credit Hours

#### Study Plan (2025-2026) for Bachelor of Science in Computer Science



#### First: University Requirements: (24) Credit Hours

##### 1) Compulsory University Requirements (15) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110143	English Communication Skills	3	3	0	A0110141	-	Online
A0110144	Arabic Communication Skills	3	3	0	A0110142	-	Online
A0110151	National Education	3	3	0	-	-	Online
A0110152	Entrepreneurship and Innovation	1	1	0	-	-	Online
A0110153	Leadership and Social Responsibility	1	1	0	-	-	Online
A0110154	Life Skills	1	1	0	-	-	Online
A0110155	Military Sciences	3	3	0	-	Non-Inductees	Online

##### 2) Elective University Requirements (9) Credit Hours

###### A) Group 1 (6) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110161	Islamic Culture	3	3	0	-	-	Online
A0110162	History of Jordan and Palestine	3	3	0	-	-	Online
A0110163	Archaeology and Tourism in Jordan	3	3	0	-	E-Marketing & Digital Communication Students	Online
A0110164	Development and Environment	3	3	0	-	-	Online
A0110165	Contemporary Issues	3	3	0	-	-	Online
A0110166	Media and Public Relations	3	3	0	-	-	Online
A0411601	Local Education and Human Rights	3	3	0	-	Low Students	Online

###### B) Group 2 (3) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110167	Critical Thinking Skills	3	3	0	-	-	Online
A0110168	Digital Literacy and Artificial Intelligence	3	3	0	-	IT Students	Online
A0110281	Society Health	3	3	0	-	Nursing Students	Online
A0871103	Principles of Renewable Energy	3	3	0	-	Electrical Engineering Students	Online
A1321100	Sport and Health	3	3	0	-	Physical and Health Education Students	Online

Community Service requirement is a mandatory requirement (10) hours of service

#### Second: Faculty Compulsory Requirements (19) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110101	Mathematics (1)	3	3	0	-	-	Blended
A0311101	Discrete Mathematics	3	3	0	-	-	Blended
A0312201	Object Oriented Programming	*3	2	1	A0331202	-	Face to Face
A0331202	Introduction to Programming	*3	3	0	A0371201	-	Face to Face
A0334600	Ethical and Professional Issues in Computing	1	1	0	A0331202	-	online
A0341311	Networks and Cyber Security Essentials	3	3	0	A0371201	-	Face to Face
A0371201	Introduction to Information Technology	*3	3	0	-	-	Blended

#### Third: Major Requirements (89) Credit Hours

##### A) Compulsory Major Requirements (51) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0311301	Digital Logic Design	3	3	0	A0311301	-	Blended
A0312101	Data Structures	*3	3	0	A0312201	-	Face to Face
A0312201	Visual Programming	*3	2	1	A0312201	-	Face to Face
A0312204	Programming Technique in Special Languages	*3	2	1	A0312301	-	Face to Face
A0312301	Computer Organization and Architecture	3	3	0	A0311301	-	Face to Face
A0312401	Fundamentals of Databases	*3	3	0	A0331202	-	Face to Face
A0312403	Systems Analysis and Design	3**	3	0	A0312401	-	Face to Face
A0313101	Algorithms Analysis and Design	3	3	0	A0312301	-	Blended
A0313301	Operating Systems	3**	3	0	A0312301	-	Blended
A0313304	Artificial Intelligence Techniques in Computer Science	3	3	0	A0312204	-	Face to Face
A0313401	Theory of Computation	3	3	0	A0312201	-	Face to Face
A0314201	Mobile Applications Development	*3	2	1	A0312101	-	Face to Face
A0314606	Practical Training	***9	0	0	Pass 90 Cr. Hrs.	-	Face to Face
A0314607	Graduation Project 1	3	0	3	Pass 90 Cr. Hrs.	-	Blended
A0314608	Graduation Project 2	3	0	3	A0314607	-	Blended

##### B) Ancillary Major Requirements (29) Credit Hours.

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110103	Statistics and Probability	3	3	0	A0110101	-	Face to Face
A0110111	General Physics (1)	3	3	0	-	-	Blended
A0110201	Linear Algebra	3	3	0	A0110101	-	Blended
A0110301	Numerical Analysis	3	3	0	A0110101	-	Blended
A0332202	Internet Applications Development (1)	*3	3	0	A0331202	-	Face to Face
A0332501	Introduction to Software Engineering	3**	3	0	A0312201	-	Blended
A0333203	Internet Applications Development (2)	3*	3	0	A0332202	-	Face to Face
A0334605	Communication skills and Technical writing	2	2	0	A0331202	-	Blended
A034213	Cybersecurity	3	3	0	A0341311	-	Face to Face
A034215	Computer Networks (1)	3	3	0	A0341311	-	Face to Face

##### C) Elective Major Requirements (9) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0313204	Computer Graphics	*3	3	0	A0313304	-	Face to Face
A0313402	Advanced Databases	3	3	0	A0312401	-	Blended
A0314301	Parallel Computing and Distributed Systems	3	3	0	A0313301	-	Blended
A0314401	Programming Languages Design	3	3	0	A0312101	-	Face to Face
A0314402	Selected Topics in Computer Science (1)	3	3	0	Dept. Approval	-	Face to Face
A0314403	Selected Topics in Computer Science (2)	3	3	0	Dept. Approval	-	Face to Face
A0333204	Web Services Programming	*3	3	0	A0313203	-	Face to Face
A034214	Protection Using Linux System	*3	0	0	A0341311	-	Face to Face
A034312	Cloud computing & Security	3	3	0	A0341311	-	Face to Face
A0372401	Introduction to Data Science	3	3	0	A0331202	-	Face to Face

#### Fourth: Remedial Requirements (to a student who has not passed the exam level)

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110141	Remedial English Language	3	3	0	-	-	Online
A0110142	Remedial Arabic Language	3	3	0	-	-	Online
A0110191	Remedial Computer Skills	3	3	0	-	-	Online

\* The course is delivered in a laboratory setting and includes practical project-based learning (PBL) activities. At least 20 marks are allocated to these activities within the final assessment.

\*\* Includes practical project-based learning (PBL) activities, with at least 20 marks allocated within the final assessment.

\*\*\*Students must have completed 90 credit hours before registering for field training, and no other courses may be taken in the same semester.



Ref: Deans' Council Session (27/2024-2025) Decision No:(10)

Date: 07/05/2025



# Advisory Study Plan

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0371201	Introduction to Information Technology	3	-
A0110101	Mathematics (1)	3	-
A0311101	Discrete Mathematics	3	-
A0110144	Arabic Communication Skills	3	A0110142
A0110143	English Communication Skills	3	A0110141
<b>Total: 15</b>			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0331202	Introduction to Programming	3	A0371201
A0341311	Networks and Cyber Security Essentials	3	A0371201
A0311301	Digital Logic Design	3	A0311101
A0110103	Statistics and Probability	3	A0110101
A0110151	National Education	3	-
A0110153	Leadership and Societal Responsibility	1	-
<b>Total: 16</b>			

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312201	Object Oriented Programming	3	A0331202
A0312401	Fundamentals of Databases	3	A0331202
A0312301	Computer Organization and Architecture	3	A0311301
A0110201	Linear Algebra	3	A0110101
A0334605	Communication skills and Technical writing	2	A0331202
	University Elective Requirement 1	3	-
<b>Total: 17</b>			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312101	Data Structures	3	A0312201
A0312403	Systems Analysis and Design	3	A0312401
A0312203	Visual Programming	3	A0312201
A0110111	General Physics (1)	3	-
A0332202	Internet Applications Development (1)	3	A0331202
<b>Total: 15</b>			

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0333203	Internet Applications Development (2)	3	A0332202
A0312204	Programming Technique in Special Languages	3	A0312101
A0313101	Algorithms Analysis and Design	3	A0312101
A0342315	Computer Networks (1)	3	A0341311
A0110152	Entrepreneurship and Innovation	1	-
	Major Elective Requirement 1	3	-
<b>Total: 16</b>			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0342313	Cybersecurity	3	A0341311
A0332501	Introduction to Software Engineering	3	A0312201
A0313401	Theory of Computation	3	A0312201
A0313304	Artificial Intelligence Techniques in Computer Science	3	A0312204
	University Elective Requirement 2	3	-
<b>Total: 15</b>			

Course No.	Course Title	Credit Hours	Prerequisite
A0314606	Practical Training	9	Pass 90 Cr. Hrs.

**Students may only enroll in the practical training course after completing 90 credit hours, and no other courses can be registered in the same semester.**

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0314607	Graduation Project (1)	3	Pass 90 Cr.Hrs.
A0314201	Mobile Applications Development	3	A0312101
A0110301	Numerical Analysis	3	A0110101
A0313301	Operating Systems	3	A0312301
A0110154	Life Skills	1	-
	Major Elective Requirement 2	3	-
<b>Total: 16</b>			

4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0314608	Graduation Project (2)	3	A0314607
A0334600	Ethical and Professional Issues in Computing	1	A0331202
A0110155	Military Sciences	3	-
	University Elective Requirement 3	3	-
	Major Elective Requirement 3	3	-
<b>Total: 13</b>			

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# Software Engineering Department



## **Introduction**

The Software Engineering Department was established in 2007 with the aim of providing local and regional labor markets with distinguished graduates who possess both scientific knowledge and practical experience in software engineering. The department aligns with the vision of the College of Information Technology, which seeks to provide excellent education in an innovative environment that keeps up with the latest developments. It equips students with technical knowledge and leadership skills that meet labor market needs and keep pace with ongoing changes in the field.

Students earn a Bachelor's degree in Software Engineering upon completing all the required and elective courses, totaling 132 credit hours. The program is designed in accordance with international standards for curriculum development in software engineering. The college aims, through the Software Engineering program, to meet the growing local, regional, and global demand for qualified students in the fields of software engineering and its applications. This is achieved by using practical teaching and training methods that are continuously improved and developed to stay up-to-date with the latest scientific and technological advancements.

The Software Engineering program focuses on providing a blend of theoretical knowledge and practical skills through carefully chosen core courses that serve as a strong foundation for students. The program includes specialized courses such as Introduction to Software Engineering, Software Requirements Engineering, Software Design, Software Construction and Documentation, Software Testing and Quality Assurance, Software Project Management, Software Maintenance, Artificial Intelligence in Software Engineering, Internet Application Development, Graduation Project, and Practical Training.

Practical labs that provide students with the necessary skills to apply their knowledge in real-world settings accompany these courses. Community service is also an essential part of the program, where students are required to complete 10 hours of community service as a graduation requirement, enhancing their role in serving the community and supporting sustainable development.

Upon graduation, students are equipped not only with academic knowledge but also with practical skills that support the college's goals of achieving leadership in education and training aligned with labor market needs, while also supporting sustainable development through active community engagement and technological innovation.

## **Mission, Job Opportunities, and Program Educational Objectives (PEOs)**

### **Mission**

To provide distinguished education in a creative environment that keeps up with the latest developments in the field of software engineering, equipping students with technical knowledge and leadership skills that meet the needs of the labor market. The program adheres to quality assurance standards and local and international accreditation requirements to produce high-quality outcomes. It also activates scientific research and enhances collaboration with the local community and industry to provide innovative technological solutions that contribute to sustainable community development.

## Job Opportunities

1. **Software Developer**
  - Design, develop, and maintain various software applications, including web, mobile, and embedded software.
2. **Web Application Developer**
  - Develop and maintain web applications using both front-end and back-end technologies such as JavaScript, HTML, CSS, and Node.js.
3. **Software Test Engineer**
  - Test software applications to ensure they work properly, identifying and fixing bugs through manual or automated software testing.
4. **Software Engineering Consultant**
  - Provide consulting and engineering solutions for software development in various industries, helping companies improve the effectiveness of their software development processes.
5. **Software Project Manager**
  - Lead and manage software development teams, ensuring that projects are completed on time, within budget, and according to required specifications.
6. **Software Integration Engineer**
  - Integrate different software systems and develop solutions for combining software using APIs and system integration files.
7. **Software Maintenance Engineer**
  - Maintain existing software, regularly updating it to ensure efficiency and performance over time.
8. **Embedded Software Engineer**
  - Develop software that runs on embedded devices (e.g., smart devices, robotics) using programming languages like C and C++.
9. **Data-driven Software Engineer**
  - Develop software that relies on data analysis, such as building systems to process and analyze data using artificial intelligence techniques.
10. **DevOps Engineer**
  - Automate and streamline software development and operations processes to improve speed and quality in software deployment.

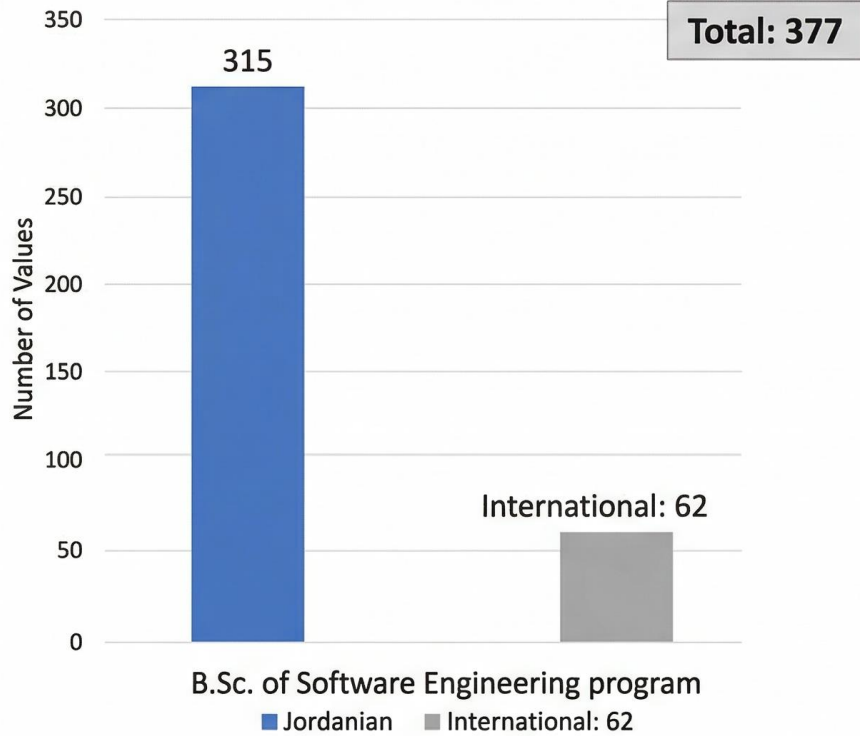
## Program Educational Objectives (PEOs):

1. **Professional Success:** Graduates will succeed in the field of software engineering by working in areas such as software development, system design, database management, and software project management, applying their ability to solve complex problems and contribute to technological innovation.
2. **Continuous Professional Development:** Graduates will demonstrate continuous professional growth through further education, specialized training, and active participation in research and development within emerging fields such as software architecture, cloud computing, and cybersecurity.
3. **Innovative Contributions:** Graduates will contribute to the development of innovative and high-quality software solutions that address real-world challenges, using their technical expertise to meet both industry needs and societal expectations.
4. **Effective Communication and Leadership:** Graduates will possess strong communication and teamwork skills, working collaboratively within multidisciplinary teams and upholding high ethical standards, enabling them to take on leadership roles in both the software development industry and community projects.

# B.Sc. of Software Engineering – Program Statistics Overview

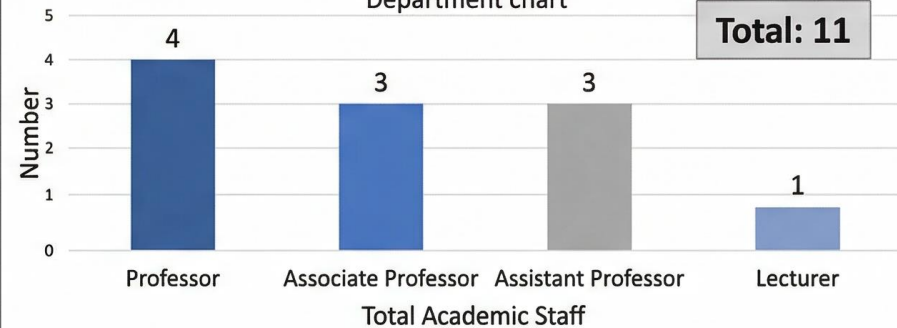
**Student Nationality Distribution**

Number of Jordanian and International in the B.Sc. of Software Engineering program

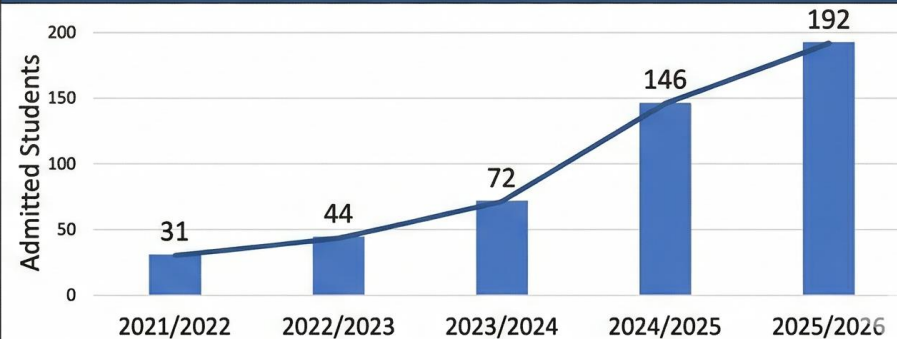


**Academic Staff by Rank – Software Engineering Department**

Academic staff distribution by rank for Software Engineering Department chart



**Student Admissions Over the Last 5 Academic Years**



# Study Plan

## Al-Ahliyya Amman University Faculty of Information Technology

### (132) Credit Hours Study Plan (2025-2026) for Bachelor of Software Engineering



#### First: University Requirements: (24) Credit Hours

##### 1) Compulsory University Requirements (15) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110143	English Communication Skills	3	3	0	A0110141	-	Online
A0110144	Arabic Communication Skills	3	3	0	A0110142	-	Online
A0110151	National Education	3	3	0	-	-	Online
A0110152	Entrepreneurship and Innovation	1	1	0	-	-	Online
A0110153	Leadership and Societal Responsibility	1	1	0	-	-	Online
A0110154	Life Skills	1	1	0	-	-	Online
A0110155	Military Sciences	3	3	0	-	Non-Jordanians	Online

##### 2) Elective University Requirements (9) Credit Hours

###### A) Group 1 (6) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110161	Islamic Culture	3	3	0	-	-	Online
A0110162	History of Jordan and Palestine	3	3	0	-	-	Online
A0110163	Archaeology and Tourism in Jordan	3	3	0	-	E-Marketing & Digital Communication Students	Online
A0110164	Development and Environment	3	3	0	-	-	Online
A0110165	Contemporary Issues	3	3	0	-	-	Online
A0110166	Media and Public Relations	3	3	0	-	-	Online
A041601	Legal Education and Human Rights	3	3	0	-	Law Students	Online

###### B) Group 2 (3) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110167	Critical Thinking Skills	3	3	0	-	-	Online
A0110168	Digital Literacy and Artificial Intelligence	3	3	0	-	IT Students	Online
A0110281	Society Health	3	3	0	-	Nursing Students	Online
A0871103	Principles of Renewable Energy	3	3	0	-	Electrical Engineering Students	Online
A1321100	Sport and Health	3	3	0	-	Physical and Health Education Students	Online

Community Service requirement is a mandatory requirement (10) hours of service

#### Second: Faculty Compulsory Requirements (19) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110101	Mathematics (1)	3	3	0	-	-	Blended
A0111101	Discrete Mathematics	3	3	0	-	-	Blended
A0312201	Object-oriented Programming	3*	2	1	A0331202	-	Face to Face
A0331202	Introduction to Programming	3*	3	0	A0371201	-	Face to Face
A0334600	Ethical and Professional Issues in Computing	1	1	0	A0331202	-	Online
A0341311	Networks and Cybersecurity Essentials	3	3	0	A0371201	-	Face to Face
A0371201	Introduction to Information Technology	3*	3	0	-	-	Blended

#### Third: Major Requirements (89) Credit Hours

##### A) Compulsory Major Requirements (50) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0332202	Internet Applications Development (1)	3*	3	0	A0331202	-	Face to Face
A0332501	Introduction to Software Engineering	3**	3	0	A0312201	-	Blended
A0333203	Internet Applications Development (2)	3*	3	0	A0332202	-	Face to Face
A0335501	Software Requirements Engineering	3**	3	0	A0332501	-	Blended
A0335502	Software Design	3*	3	0	A0332501	-	Face to Face
A0335504	Software Construction and Documentation	3**	3	0	A0335502	-	Face to Face
A0335506	Human Computer Interaction	3*	3	0	A0312403	-	Face to Face
A0335508	Software Maintenance	3	3	0	A0332501	-	Face to Face
A0334501	Software Testing and Quality Assurance	3*	3	0	A0332501	-	Face to Face
A0334503	Software Project Management	3**	3	0	A0332501	-	Blended
A0334511	Artificial Intelligence in Software Engineering	3	3	0	A0313101	-	Blended
A0334605	Communication & Technical Writing Skills	2	2	0	A0331202	-	Blended
A0334608	Graduation Project (I)	3	0	3	Pass 90 Cr. Hrs	-	Blended
A0334609	Graduation Project (II)	3	0	3	A0334608	-	Blended
A0334611	Practical Training	9***	0	9	Pass 90 Cr. Hrs	-	Face to Face

#### B) Ancillary Major Requirements (30) Credit Hours.

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110103	Statistics and Probability	3	3	0	A0110101	-	Face to Face
A0110201	Linear Algebra	3	3	0	A0111101	-	Blended
A0311301	Digital Logic Design	3	3	0	A0311301	-	Face to Face
A0312101	Data Structures	3*	3	0	A0312201	-	Face to Face
A0312203	Visual Programming	3*	2	1	A0312201	-	Face to Face
A0312301	Computer Organization and Architecture	3	3	0	A0311301	-	Face to Face
A0312401	Fundamentals of Databases	3*	3	0	A0331202	-	Face to Face
A0312403	Systems Analysis and Design	3**	3	0	A0312401	-	Face to Face
A0313301	Operating Systems	3	3	0	A0312301	-	Blended
A0313402	Advanced Databases	3	3	0	A0312401	-	Face to Face

#### C) Elective Major Requirements (9) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0313101	Algorithms Analysis and Design	3	3	0	A0312101	-	Blended
A0313401	Computation Theory	3	3	0	A0312101	-	Face to Face
A0314201	Mobile Applications Development	3*	2	1	A0312101	-	Face to Face
A0332201	Programming Language in Software Engineering	3*	2	1	A0312201	-	Face to Face
A0333204	Web Services Programming	3*	3	0	A0333203	-	Face to Face
A0333507	Secure Software Development	3*	3	0	A0333504	-	Face to Face
A0334504	Software Architecture	3	3	0	A0332501	-	Face to Face
A0334505	Selected Topics in Software Engineering (1)	3	3	0	Dept. Approval	-	Face to Face
A0334509	Selected Topics in Software Engineering (2)	3	3	0	Dept. Approval	-	Face to Face
A0334510	Software Engineering Economics	3	0	0	A0332501	-	Face to Face
A0342114	Protection using Linux	3*	3	0	A0341311	-	Face to Face
A0343412	Cloud Computing & Security	3	3	0	A0341311	-	Face to Face

#### Fourth: Remedial Requirements (to a student who has not passed the exam level)

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110141	Remedial English Language	3	3	0	-	-	Online
A0110142	Remedial Arabic Language	3	3	0	-	-	Online
A0110191	Remedial Computer Skills	3	3	0	-	-	Online

\*The course is delivered in a laboratory setting and includes practical project-based learning (PBL) activities. At least 20 marks are allocated to these activities within the final assessment.  
 \*\*Includes practical project-based learning (PBL) activities, with at least 20 marks allocated within the final assessment.  
 \*\*\*Students must have completed 90 credit hours before registering for field training, and no other courses may be taken in the same semester.



Ref.: Deans' Council Session (27/2024-2025) Decision No:(13)  
Date: 07/05/2025



## Advisory Study Plan

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0371201	Introduction to Information Technology	3	-
A0110101	Mathematics (1)	3	-
A0311101	Discrete Mathematics	3	-
A0110144	Arabic Communication Skills	3	A0161100
A0110143	English Communication Skills	3	A0161200
A0110152	Entrepreneurship and Innovation	1	-
<b>Total = 16</b>			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0331202	Introduction to Programming	3	A0371201
A0341311	Networks and Cybersecurity Essentials	3	A0371201
A0311301	Digital Logic Design	3	A0311101
A0110103	Statistics and Probability	3	A0111101
A0110151	National Education	3	-
A0110153	Leadership and Societal Responsibility	1	-
<b>Total = 16</b>			

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312201	Object-oriented Programming	3	A0331202
A0312401	Fundamentals of Databases	3	A0331202
A0312301	Computer Organization and Architecture	3	A0311301
A0110201	Linear Algebra	3	A0111101
A0334605	Communication & Technical Writing Skills	2	A0331202
	University Elective Requirement 1	3	-
<b>Total = 17</b>			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312101	Data Structures	3	A0312201
A0312403	Systems Analysis and Design	3	A0312401
A0312203	Visual Programming	3	A0312201
A0332501	Introduction to Software Engineering	3	A0312201
A0332202	Internet Applications Development (1)	3	A0331202
A0110154	Life Skills	1	-
<b>Total = 16</b>			

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0333502	Software Design	3	A0332501
A0333501	Software Requirements Engineering	3	A0332501
A0333203	Internet Applications Development (2)	3	A0332202
A0313402	Advanced Databases	3	A0312401
A0313301	Operating Systems	3	A0311301
<b>Total = 15</b>			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0333504	Software Construction	3	A0333502
A0333506	Human Computer Interaction	3	A0312403
A0334501	Software Testing and Quality Assurance	3	A0332501
A0334511	Artificial Intelligence in Software Engineering	3	A0313101
-	Major Elective Requirement 1	3	-
<b>Total = 15</b>			

Course No.	Course Title	Credit Hours	Prerequisite
A0334611	Practical Training	9	Pass 90 Cr. Hrs.

Completion of 90 credit hours is required before enrolling in the practical training, and no other courses may be registered concurrently in the same semester

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0334503	Software Project Management	3	A0332501
A0333508	Software Maintenance	3	A0332501
A0334608	Graduation Project 1	3	Pass 90 Cr. Hrs.
-	Major Elective Requirement 2	3	-
-	University Elective Requirement 2	3	-
<b>Total = 15</b>			

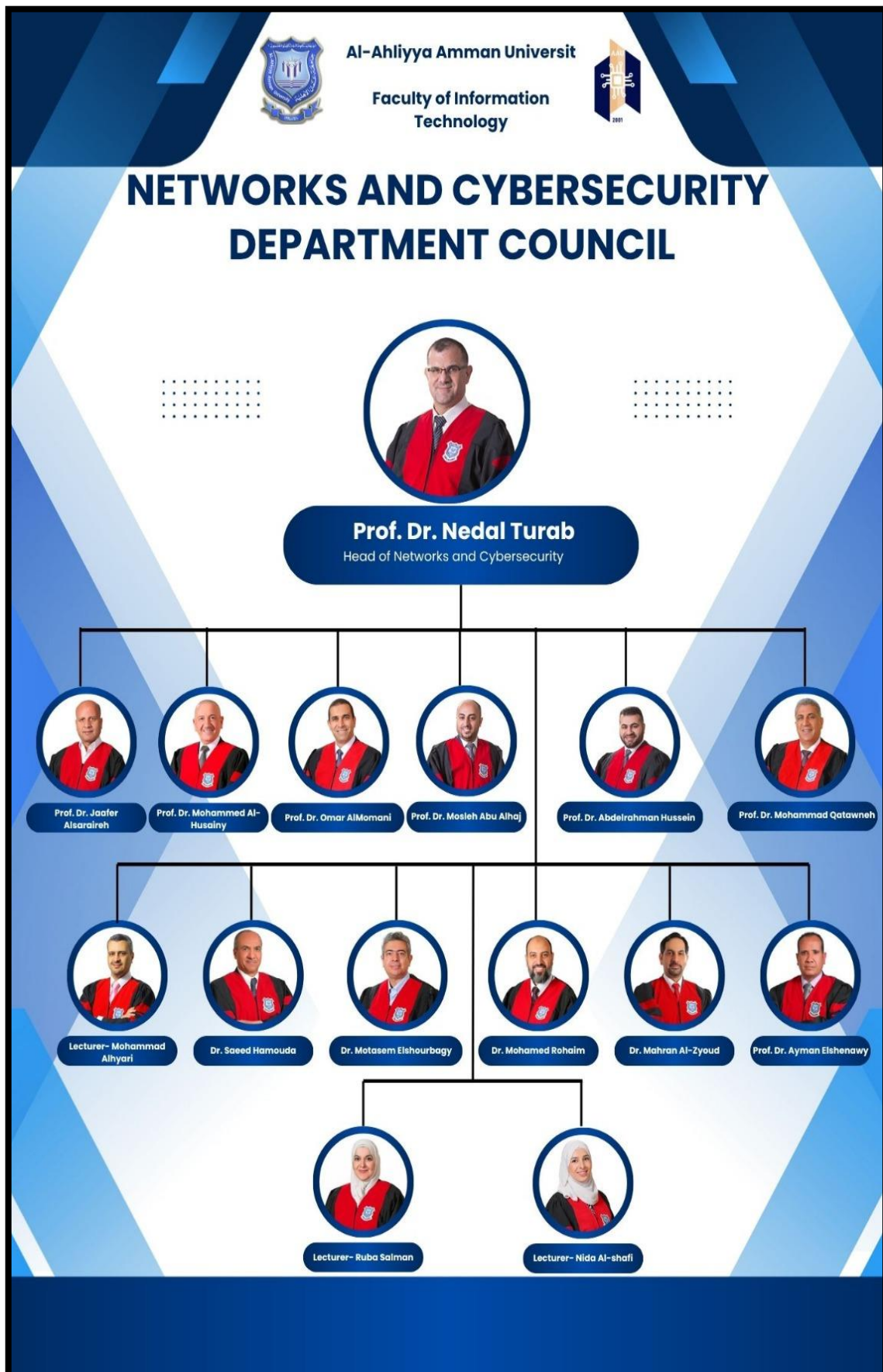
4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0334600	Ethical and Professional Issues in Computing	1	A0331202
A0110155	Military Sciences	3	-
A0334609	Graduation Project 2	3	A0334608
-	Major Elective Requirement 3	3	-
-	University Elective Requirement 3	3	-
<b>Total = 13</b>			

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# Networks and Cybersecurity Department



## **Introduction**

The Networks and Cybersecurity Department was established in 2013 with the aim of providing local and regional labor markets with distinguished graduates who possess scientific knowledge and practical experience in networks and cybersecurity. The department aligns with the vision of the College of Information Technology, which seeks to provide excellent education in an innovative learning environment that keeps up with the latest developments. It equips students with technical knowledge and leadership skills that meet labor market needs and keep pace with ongoing changes in the field.

Students earn a Bachelor's degree in Networks and Cybersecurity after successfully completing all required and elective coursework, totaling 132 credit hours. The program is designed to meet international academic standards and to satisfy the growing local, regional, and global demand for qualified professionals in the field. It emphasizes a strong foundation in networking fundamentals, security technologies, and hands-on practical training.

The Networks and Cybersecurity program focuses on providing a blend of theoretical knowledge and practical skills through carefully chosen core courses that serve as a strong foundation for students. The specialized courses include Introduction to Networks and Cybersecurity, Network Security, Cybersecurity, Ethical Hacking, Digital Forensics, Data and Software Security, Network Administration and Monitoring, Programming for Cybersecurity, Cryptography Theory, Linux Security, Graduation Project, and Practical Training.

Practical labs that provide students with the essential skills to apply their knowledge in real-world settings accompany these courses. Community service is also an integral requirement of the program, where students must complete 10 hours of community service as part of their graduation criteria, reinforcing their social responsibility and contribution to sustainable development.

Upon graduation, students are not only armed with academic knowledge but also with practical expertise that supports the College's goals of excellence in education and training, aligns with market needs, and contributes to sustainable development through active community engagement and technological innovation.

## **Mission, Job Opportunities, and Program Educational Objectives (PEOs)**

### **Mission**

To provide distinguished education in a creative environment that keeps up with the latest developments in the field of Networks and Cybersecurity, equipping students with technical knowledge and leadership skills that meet the needs of the labor market. The program adheres to quality assurance standards and local and international accreditation requirements to produce high-quality outcomes. It also activates scientific research and enhances collaboration with the local community and industry to provide innovative technological solutions that contribute to sustainable community development.

## Job Opportunities

1. **Cybersecurity Analyst**
  - Monitor, detect, and respond to security threats and incidents within an organization's network and systems. Implement security measures to safeguard sensitive data and prevent cyber-attacks.
2. **Penetration Tester (Ethical Hacker)**
  - Conduct security tests on networks, applications, and systems by simulating attacks to identify vulnerabilities before malicious hackers can exploit them. Provide recommendations for improving security.
3. **Information Security Manager**
  - Oversee an organization's cybersecurity strategy and policy. Manage security teams and ensure compliance with relevant security standards and regulations.
4. **Security Operations Center (SOC) Analyst**
  - Monitor and respond to security incidents in real-time within a Security Operations Center (SOC). Analyze security alerts and take action to mitigate potential threats.
5. **Cybersecurity Consultant**
  - Provide expert advice to organizations on how to improve their cybersecurity posture. Recommend best practices, tools, and strategies to secure networks, data, and systems.
6. **Firewall Administrator**
  - Configure, manage, and maintain firewall systems to protect an organization's internal network from unauthorized access, malware, and other cybersecurity threats.
7. **Systems Administrator (Security-focused)**
  - Manage and maintain servers and systems with a focus on security. Implement security patches, monitor system activity, and configure secure access controls to prevent unauthorized access.
8. **Cybersecurity Researcher**
  - Conduct research into new cybersecurity threats, vulnerabilities, and technologies. Develop innovative techniques and tools to detect, prevent, and mitigate cyber threats.
9. **Ethical Hacking Trainer**
  - Teach ethical hacking and cybersecurity principles to individuals or organizations. Provide training on how to perform penetration tests, identify vulnerabilities, and enhance network security.

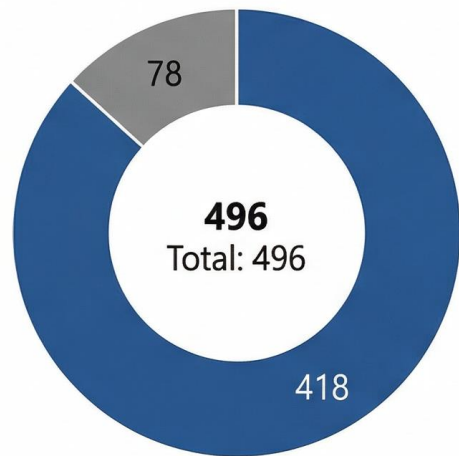
## Program Educational Objectives (PEOs):

1. PEO-1: **Professional Success:** Graduates will succeed in the field of networking and cybersecurity by applying advanced security techniques, network management, and troubleshooting skills to safeguard networks and systems in various industries.
2. PEO-2: **Continuous Professional Development:** Graduates will demonstrate continuous professional growth by staying current with emerging technologies and cybersecurity threats, obtaining certifications, and participating in ongoing training programs to enhance their expertise.
3. PEO-3: **Innovative Contributions:** Graduates will contribute to the development of innovative solutions to address cybersecurity challenges and enhance network performance, using their technical knowledge to meet industry needs and ensure data protection.
4. PEO-4: **Effective Communication and Leadership:** Graduates will possess the communication and leadership skills necessary to collaborate with multidisciplinary teams and lead projects that focus on securing networks and systems while upholding ethical standards.

# B.Sc. of Networks and Cybersecurity – Program Statistics Overview

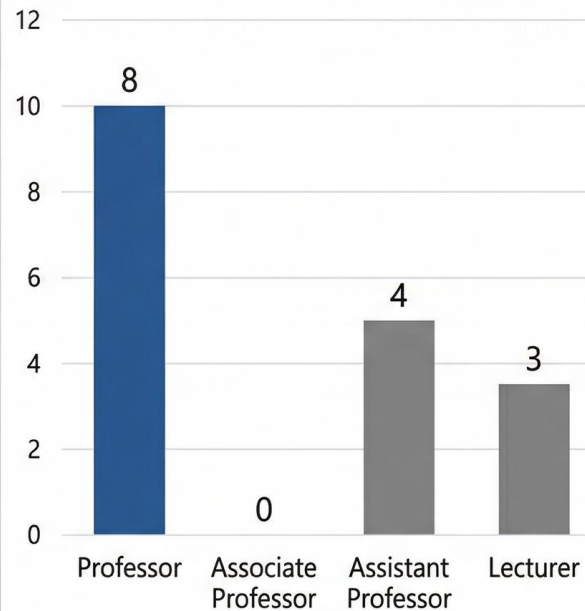
## Student Nationality Distribution

The B.Sc. of Networks and Cybersecurity Distribution program



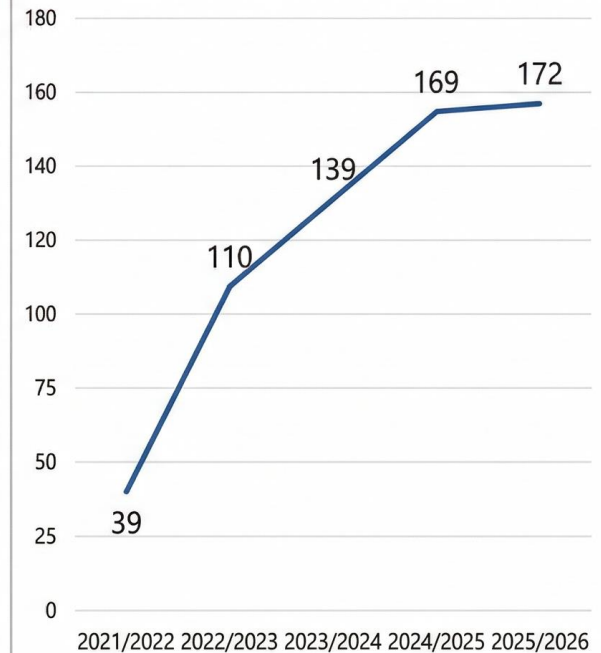
■ Jordanian: 418 ■ International: 78

## Academic Staff by Rank – Networks and Cybersecurity Department



15 academic staff

## Student Admissions Over the Last 5 Academic Years



# Study Plan

## Al-Ahliyya Amman University Faculty of Information Technology (132) Credit Hours Study Plan (2025-2026) for Bachelor of Networks and Cybersecurity



### First: University Requirements: (24) Credit Hours

#### 1) Compulsory University Requirements (15) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110143	English Communication Skills	3	3	0	A0110141	-	Online
A0110144	Arabic Communication Skills	3	3	0	A0110142	-	Online
A0110151	National Education	3	3	0	-	-	Online
A0110152	Entrepreneurship and Innovation	1	1	0	-	-	Online
A0110153	Leadership and Social Responsibility	1	1	0	-	-	Online
A0110154	Life Skills	1	1	0	-	-	Online
A0110155	Military Sciences	3	3	0	-	Non-Jordanians	Online

#### 2) Elective University Requirements (9) Credit Hours

##### A) Group 1 (6) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110161	Islamic Culture	3	3	0	-	-	Online
A0110162	History of Jordan and Palestine	3	3	0	-	-	Online
A0110163	Archaeology and Tourism in Jordan	3	3	0	-	E-Marketing & Digital Communication Students	Online
A0110164	Development and Environment	3	3	0	-	-	Online
A0110165	Contemporary Issues	3	3	0	-	-	Online
A0110166	Media and Public Relations	3	3	0	-	-	Online
A0411601	Local Education and Human Rights	3	3	0	-	Law Students	Online

##### B) Group 2 (3) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110167	Critical Thinking Skills	3	3	0	-	-	Online
A0110168	Digital Literacy and Artificial Intelligence	3	3	0	-	IT Students	Online
A0110281	Society Health	3	3	0	-	Nursing Students	Online
A0871103	Principles of Renewable Energy	3	3	0	-	Electrical Engineering Students	Online
A1321100	Sport and Health	3	3	0	-	Physical and Health Education Students	Online

Community Service requirement is a mandatory requirement (10) hours of service

### Second: Faculty Compulsory Requirements (19) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A01101101	Mathematics (1)	3	3	0	-	-	Blended
A03111101	Discrete Mathematics	3	3	0	-	-	Blended
A0312201	Object Oriented Programming	3*	2	1	A0331202	-	Face to face
A0331202	Introduction to Programming	3*	3	0	A0371201	-	Face to face
A0334600	Ethical and Professional Issues in Computing	1	1	0	A0331202	-	Online
A0341311	Networks and Cybersecurity Essentials	3	3	0	A0371201	-	Face to face
A0371201	Introduction to Information Technology	3*	3	0	-	-	Blended

### Third: Major Requirements (89) Credit Hours

#### A) Compulsory Major Requirements (54) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0342211	Programming for Cybersecurity	3*	2	1	A0312201	-	Face to face
A0342313	Cybersecurity	3	3	0	A0341311	-	Face to face
A0342314	Protection using Linux	3*	3	0	A0341311	-	Face to face
A0342315	Computer Networks (1)	3	3	0	A0341311	-	Face to face
A0343413	Networks Management & Monitoring	3*	2	1	A0342315	-	Face to face
A0343415	Encryption Theory	3	3	0	A0342313	-	Face to face
A0343416	Digital Forensics	3**	3	0	A0342313	-	Face to face
A0343417	Networks Operating Systems	3*	3	0	A0342315	-	Face to face
A0343420	Computer Networks (2)	3**	3	0	A0342315	-	Face to face
A0344311	Data and Software Security	3	3	0	A0342313 A0332202	-	Blended
A0344312	Networks Security	3	3	0	A0342315	-	Face to face
A0344411	Ethical Hacking	3*	2	1	A0342313	-	Face to face
A0344420	Reverse Engineering and Malware Analysis	3	3	0	A034411 A0311302	-	Face to face
A0344513	Practical Training	9***	0	9	Pass 90 Cr. Hrs.	-	Face to face
A0344512	Graduation Project (1)	3	0	3	Pass 90 Cr. Hrs.	-	Blended
A0344514	Graduation Project (2)	3	0	3	A0344512	-	Blended

#### B) Ancillary Major Requirements (26) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110103	Statistics and Probability	3	3	0	A0110101	-	Face to face
A0110201	Linear Algebra	3	3	0	A0110101	-	Blended
A0311302	Computer Architecture and Assembly Language	3	3	0	A0311301	-	Face to face
A0312101	Data Structures	3*	3	0	A0312301	-	Face to face
A0312401	Fundamentals of Databases	3*	3	0	A0331202	-	Face to face
A0313301	Operating Systems	3	3	0	A0311302	-	Blended
A0332302	Internet Applications Development (1)	3*	3	0	A0331202	-	Face to face
A0334805	Communication and Technical Writing Skills	2	2	0	A0331202	-	Blended
A0343302	Artificial Intelligence Techniques in Cybersecurity	3**	3	0	A0342211	-	Blended

#### C) Elective Major Requirements (9) Credit Hours

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0333203	Internet Applications Development (2)	3*	3	0	A0332302	-	Face to face
A0342316	Internet of Things	3	3	0	A0341311	-	Blended
A0342411	Wireless Networks & Security	3	3	0	A0341311	-	Blended
A0343412	Cloud Computing & Security	3	3	0	A0341311	-	Blended
A0343421	Security Risk Management and Auditing	3**	3	0	A0342313	-	Blended
A0343422	E-Commerce Security	3	3	0	A0342315	-	Blended
A0343423	Cybersecurity Governance	3	3	0	A0342313	-	Blended
A0344414	Selected Topics in Networks and Cybersecurity (1)	3	3	0	-	Dept. Approval	Blended
A0344415	Selected Topics in Networks and Cybersecurity (2)	3	3	0	-	Dept. Approval	Blended
A0344421	Blockchain Technology	3**	3	0	A0343415	-	Face to face

#### Fourth: Remedial Requirements (to a student who has not passed the exam level)

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110141	Remedial English Language	3	3	0	-	-	Online
A0110142	Remedial Arabic Language	3	3	0	-	-	Online
A0110191	Remedial Computer Skills	3	3	0	-	-	Online

\*The course is delivered in a laboratory setting and includes practical project-based learning (PBL) activities. At least 20 marks are allocated to these activities within the final assessment.

\*\*Includes practical project-based learning (PBL) activities, with at least 20 marks allocated within the final assessment.

\*\*\*Students must have completed 90 credit hours before registering for field training, and no other courses may be taken in the same semester.



Ref.: Deans' Council Session (27/2024-2025) Decision No:(11)  
Date: 07/05/2025



## Advisory Study Plan

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0371201	Introduction to Information Technology	3	-
A0110101	Mathematics (1)	3	-
A0311101	Discrete Mathematics	3	-
A0110144	Arabic Communication Skills	3	A0110142
A0110143	English Communication Skills	3	A0110141
<b>Total: 15</b>			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0331202	Introduction to Programming	3	A0371201
A0341311	Networks and Information Security Essentials	3	A0371201
A0311302	Computer Architecture and Assembly Language	3	A0311101
A0110103	Statistics and Probability	3	A0110101
A0110151	National Education	3	-
			-
<b>Total: 15</b>			

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312201	Object Oriented Programming	3	A0331202
A0334605	Communication and Technical Writing Skills	2	A0331202
A0342313	Cybersecurity	3	A0341311
A0110201	Linear Algebra	3	A0110101
A0342315	Computer Networks (1)	3	A0341311
---	University Elective Requirement 1	3	-
<b>Total: 17</b>			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312401	Fundamentals of Databases	3	A0331202
A0343420	Computer Networks (2)	3	A0342315
A0342314	Protection using Linux	3	A0341311
A0343417	Networks Operating Systems	3	A0342315
	Major Elective Requirement 1	3	
<b>Total: 15</b>			

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0344411	Ethical Hacking	3	A0342313
A0332202	Internet Applications Development (1)	3	A0331202
A0344312	Networks Security	3	A0342315
A0342211	Programming for Cybersecurity	3	A0312201
A0343413	Networks Management & Monitoring	3	A0342315
	Major Elective Requirement 2	3	
<b>Total: 18</b>			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0343302	Artificial Intelligence Techniques in Cybersecurity	3	A0342211
A0344311	Data and Software Security	3	A0342313 A0332202
A0344420	Reverse Engineering and Malware Analysis	3	A0344411 A0311302
A0343415	Encryption Theory	3	A0342313
	Major Elective Requirement 3	3	
<b>Total: 15</b>			

Course No.	Course Title	Credit Hours	Prerequisite
A0344513	Practical Training	9	Pass 90 Cr. Hrs.

**Students may only enroll in the practical training course after completing 90 credit hours, and no other courses can be registered in the same semester.**

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0312101	Data Structures	3	A0312201
A0334600	Ethical and Professional Issues in Computing	1	A0331202
A0343416	Digital Forensics	3	A0342313
A0344512	Graduation Project (1)	3	Pass 90 Cr. Hrs
A0110154	Life Skills	1	
A0110152	Entrepreneurship and Innovation	1	
	University Elective Requirement 2	3	
<b>Total: 15</b>			

4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0344514	Graduation Project (2)	3	A0344512
A0110155	Military Sciences	3	
A0313301	Operating Systems	3	A0311302
A0110153	Leadership and Societal Responsibility	1	--
	University Elective Requirement 3	3	
<b>Total: 13</b>			

**Faculty Members of the Networks and Cybersecurity Department:**

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# Data Science and Artificial Intelligence Department



## **Introduction**

The Artificial Intelligence Department was established in 2020 with the aim of providing local and regional labor markets with distinguished graduates who possess scientific knowledge and practical experience in artificial intelligence. The department aligns with the vision of the College of Information Technology, which seeks to provide excellent education in an innovative learning environment that keeps up with the latest developments. It equips students with technical knowledge and leadership skills that meet labor market needs and keep pace with ongoing changes in the field.

Students earn a Bachelor's degree in Artificial Intelligence after successfully completing all required and elective coursework, totaling 132 credit hours. The program is designed to meet international academic standards and to satisfy the growing local, regional, and global demand for qualified professionals in the field. It emphasizes a strong foundation in AI fundamentals, machine learning, and hands-on practical training.

The Artificial Intelligence program focuses on providing a blend of theoretical knowledge and practical skills through carefully chosen core courses that serve as a strong foundation for students. The specialized courses include Introduction to Artificial Intelligence, Machine Learning, Deep Learning, Applied Artificial Intelligence, Robotics, Computer Vision, Natural Language Processing, Artificial Intelligence Algorithms, Data Analysis, AI in Games, Graduation Project, and Practical Training.

These courses are supported by practical labs that enable students to apply their knowledge in real-world scenarios. Community service is also an integral requirement of the program; students must complete 10 hours of community service as part of their graduation criteria, fostering social responsibility and contributing to sustainable development.

Upon graduation, students are not only equipped with academic knowledge but also with practical competencies that support the College's goals of excellence in education and training, align with market needs, and contribute to sustainable development through active community engagement and technological innovation.

## **Mission, Job Opportunities, and Program Educational Objectives (PEOs)**

### **Mission**

To provide distinguished education in a creative environment that keeps up with the latest developments in the field of data science and artificial intelligence, equipping students with technical knowledge and leadership skills that meet the needs of the labor market. The program adheres to quality assurance standards and local and international accreditation requirements to produce high-quality outcomes. It also activates scientific research and enhances collaboration with the local community and industry to provide innovative technological solutions that contribute to sustainable community development.

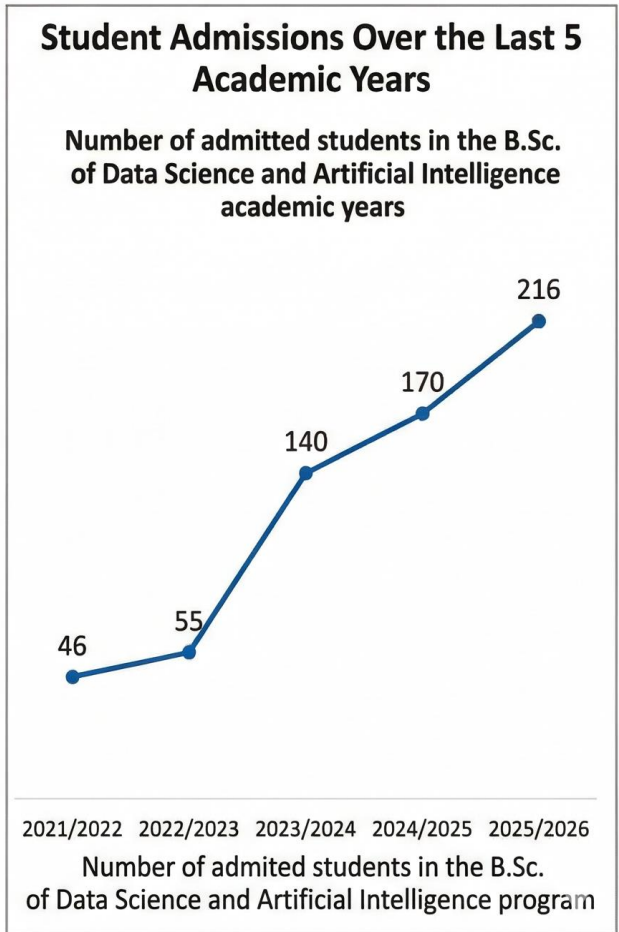
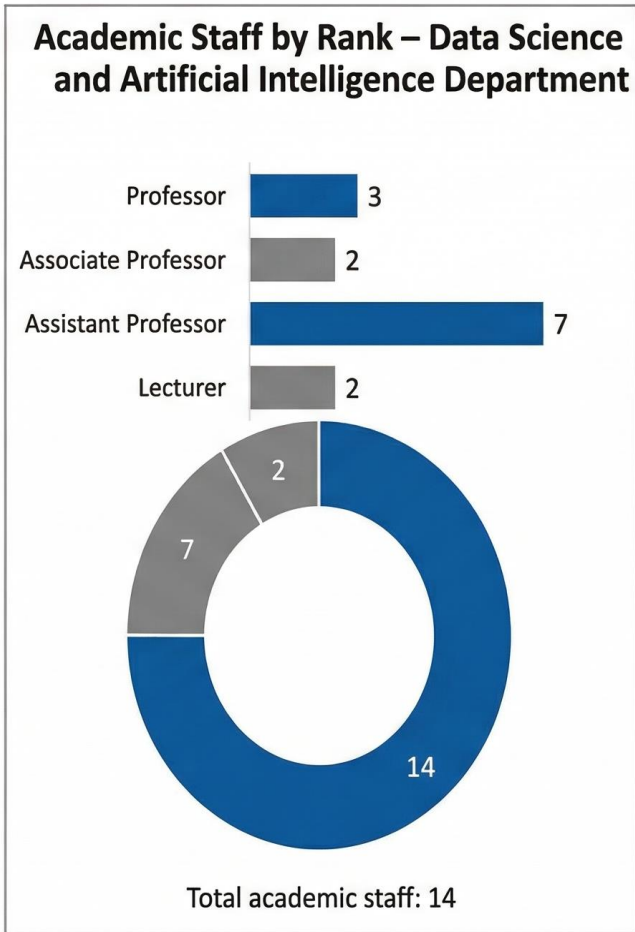
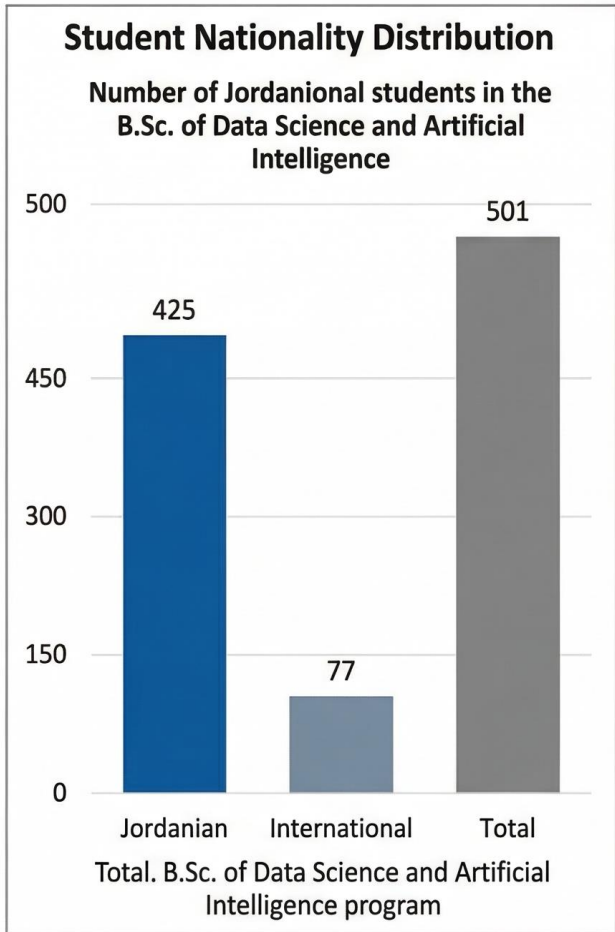
## Job Opportunities

1. **Data Analyst**
  - Analyze datasets to identify patterns, trends, and relationships. Provide actionable insights to improve business processes, often focusing on data visualization and presenting findings to decision-makers.
2. **Natural Language Processing (NLP) Engineer**
  - Develop systems that enable computers to understand, interpret, and generate human language. Work on tasks like speech recognition, chatbots, and text analysis.
3. **Computer Vision Engineer**
  - Create algorithms and models that enable computers to interpret and understand visual data from the world, such as image recognition, object detection, and video analysis.
4. **Data Engineer**
  - Design and build systems and infrastructure that allow data scientists and analysts to access and analyze data. Focus on data collection, transformation, and storage.
5. **AI Software Engineer**
  - Develop and implement AI-driven software solutions. Work on integrating machine learning models into products and services to enable them to adapt and improve over time.
6. **Business Intelligence Analyst**
  - Analyze business data and use AI and machine learning techniques to provide actionable insights that help organizations make data-driven decisions.
7. **AI Product Manager**
  - Manage the development and deployment of AI-powered products. Work closely with engineering teams to translate business needs into AI solutions and ensure that products meet customer requirements.
8. **Robotics Engineer**
  - Work on developing intelligent robotic systems that can perform tasks autonomously. Integrate AI and machine learning with robotics to create systems for industries like manufacturing, healthcare, and logistics.
9. **AI Solutions Architect**
  - Design and implement AI infrastructure and solutions for companies. This role requires understanding both technical and business aspects to ensure seamless integration of AI technologies with existing systems.


## Program Educational Objectives (PEOs):

1. **PEO-1: Professional Success:** Graduates will succeed in the field of data science and artificial intelligence by applying AI techniques, machine learning, and data analysis to develop innovative solutions that meet the growing needs of the labor market.
2. **PEO-2: Continuous Professional Development:** Graduates will demonstrate ongoing professional growth by engaging in further education, earning specialized certifications in emerging fields such as machine learning, big data, and artificial intelligence.
3. **PEO-3: Innovative Contributions:** Graduates will contribute to the development of innovative solutions using AI and data analysis to address societal and industrial challenges, promoting sustainable technological advancement.
4. **PEO-4: Effective Communication and Leadership:** Graduates will acquire leadership and communication skills that enable them to work within multidisciplinary teams and lead projects utilizing data science and AI techniques to meet the needs of industry and society.

# B.Sc. of Data Science and Artificial Intelligence – Program Statistics Overview



## Study Plan



**AI-Ahliyya Amman University**  
**Faculty of Information Technology**  
**(132) Credit Hours**  
**Study Plan (2025-2026) for Bachelor of Data Science and Artificial Intelligence**

**First: University Requirements: (24) Credit Hours**

**1) Compulsory University Requirements (15) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110143	English Communication Skills	3	3	0	A0110141	-	Online
A0110144	Arabic Communication Skills	3	3	0	A0110142	-	Online
A0110151	National Education	3	3	0	-	-	Online
A0110152	Entrepreneurship and Innovation	1	1	0	-	-	Online
A0110153	Leadership and Societal Responsibility	1	1	0	-	-	Online
A0110154	Life Skills	1	1	0	-	-	Online
A0110155	Military Sciences	3	3	0	-	Non-Inductees	Online

**2) Elective University Requirements (9) Credit Hours**

**A) Group 1 (6) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110161	Islamic Culture	3	3	0	-	-	Online
A0110162	History of Jordan and Palestine	3	3	0	-	-	Online
A0110163	Archaeology and Tourism in Jordan	3	3	0	-	E-Marketing & Digital Communication Students	Online
A0110164	Development and Environment	3	3	0	-	-	Online
A0110165	Contemporary Issues	3	3	0	-	-	Online
A0110166	Media and Public Relations	3	3	0	-	-	Online
A0411601	Local Education and Human Rights	3	3	0	-	Law Students	Online

**B) Group 2 (3) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110167	Critical Thinking Skills	3	3	0	-	-	Online
A0110168	Digital Literacy and Artificial Intelligence	3	3	0	-	IT Students	Online
A0110281	Society Health	3	3	0	-	Nursing Students	Online
A0871103	Principles of Renewable Energy	3	3	0	-	Electrical Engineering Students	Online
A1321100	Sport and Health	3	3	0	-	Physical and Health Education Students	Online

**Second: Faculty Compulsory Requirements (19) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110101	Mathematics (I)	3	3	0	-	-	Blended
A0311101	Discrete Mathematics	3	3	0	-	-	Blended
A0312201	Object Oriented Programming	3*	2	1	A0331202	-	Face to face
A0331202	Introduction to Programming	3*	3	0	A0371201	-	Face to face
A0334600	Ethical and Professional Issues in Computing	1	1	0	A0331202	-	Online
A0341311	Networks and Cybersecurity Essentials	3	3	0	A0371201	-	Face to face
A0371201	Introduction to Information Technology	3*	3	0	-	-	Blended

**Third: Major Requirements (89) Credit Hours**

**A) Compulsory Major Requirements (51) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0372201	Programming for Data Science	3*	2	1	A0331202	-	Face to face
A0372401	Introduction to Data Science	3	3	0	A0331202	-	Face to face
A0373101	Corequisite System for Data Science and AI	3	3	0	A0311301	-	Blended
A0373401	Data Engineering	3	3	0	A0372401	-	Face to face
A0373405	Data Mining and Machine Learning	3**	3	0	A0372401	-	Face to face
A0373501	Artificial Intelligence	3	3	0	A0331202	-	Blended
A0373504	Robotics Programming	3*	2	1	A0373501	-	Face to face
A0373505	Deep Learning	3**	3	0	A0373405	-	Face to face
A0374401	Big Data	3**	3	0	A0312401, A0372401	-	Blended
A0374501	Natural Language Processing	3**	3	0	A0373501	-	Face to face
A0374503	Business Intelligence	3*	3	0	A0373501	-	Blended
A0374504	Computer Vision	3*	2	1	A0373501	-	Face to face
A0374605	Practical Training	9***	0	9	Pass 90 Cr. Hrs	-	Face to face
A0374606	Graduation Project (I)	3	0	3	Pass 90 Cr. Hrs	-	Blended
A0374607	Graduation Project (II)	3	0	3	A0374606	-	Blended

**B) Ancillary Major Requirements (29) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110103	Statistics and Probability	3	3	0	A0110101	-	Face to face
A0110201	Linear Algebra	3	3	0	A0110101	-	Blended
A0311301	Digital Logic Design	3	3	0	A0311101	-	Blended
A0312101	Data Structures	3*	3	0	A0312201	-	Face to face
A0312401	Fundamentals of Databases	3*	3	0	A0331202	-	Face to face
A0313101	Algorithms Analysis and Design	3	3	0	A0312101	-	Blended
A0332202	Internet Applications Development (1)	3*	3	0	A0331202	-	Face to face
A0332501	Introduction to Software Engineering	3**	3	0	A0312201	-	Blended
A0333203	Internet Applications Development (2)	3*	3	0	A0332202	-	Face to face
A0334605	Communication and Technical Writing Skills	2	2	0	A0331202	-	Blended



**C) Elective Major Requirements (9) Credit Hours**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0342314	Protection using Linux	3*	3	0	A0341311	-	Face to face
A0343412	Cloud Computing & Security	3	3	0	A0341311	-	Blended
A0372402	Statistics and Probability for Data Science	3	3	0	A0111103	-	Face to face
A0373406	Information Security	3	3	0	A0341311	-	Face to face
A0373407	Knowledge Representation and Inference	3	3	0	A0373501	-	Face to face
A0373503	Information Retrieval	3	3	0	A0373501	-	Face to face
A0374402	Data Visualization	3	3	0	A0372401	-	Face to face
A0374404	Selected Topics in Data Science	3	3	0	Dept. Approval	-	Face to face
A0374405	Optimization Algorithms	3	3	0	A0373405, A0313101	-	Face to face
A0374406	Selected Topics in Machine Learning	3	3	0	Dept. Approval	-	Face to face
A0374502	Pattern Recognition	3	3	0	A0373405	-	Face to face
A0374505	Selected Topics in Artificial Intelligence	3	3	0	Dept. Approval	-	Face to face


**Fourth: Remedial Requirements (to a student who has not passed the exam level)**

Course No	Course Title	Cr.H	Th	Pr	Prerequisite	Exception	Learning Type
A0110141	Remedial English Language	3	3	0	-	-	Online
A0110142	Remedial Arabic Language	3	3	0	-	-	Online
A0110191	Remedial Computer Skills	3	3	0	-	-	Online

**\*\* The course will be held in a lab and includes practical, and application-based projects**  
**\*\* Includes practical, application-based projects**  
**\*\*\* Students may only enroll in the practical training course after completing 90 credit hours, and no other courses can be registered in the same semester**

Ref.: Deans' Council Session (27/2024-2025) Decision No:(12)  
 Date: 07/05/2025



## Advisory Study Plan

1 <sup>st</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0110101	Mathematics (1)	3	-
A0371201	Introduction to Information Technology	3	-
A0311101	Discrete Mathematics	3	-
A0110144	Arabic Communication Skills	3	A0110142
A0110143	English Communication Skills	3	A0110141
<b>Total 15</b>			

1 <sup>st</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0110103	Statistics & Probability	3	A0110101
A0331202	Introduction to Programming	3	A0371201
A0341311	Networks and Cybersecurity Essential	3	A0371201
A0311301	Digital Logic Design	3	A0311101
A0110151	National Education	3	-
A0110153	Leadership and Societal Responsibility	1	-
<b>Total 16</b>			

2 <sup>nd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0372201	Programming for Data science	3	A0331202
A0372401	Introduction to Data Science	3	A0331202
A0312401	Fundamentals of Databases	3	A0331202
A0312201	Object oriented programming	3	A0331202
A0373501	Artificial Intelligence	3	A0331202
A0110152	Entrepreneurship and Innovation	1	-
<b>Total 16</b>			

2 <sup>nd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0373401	Data Engineering	3	A0372401
A0373405	Data Mining and Machine Learning	3	A0372401
A0312101	Data Structures	3	A0312201
A0332202	Internet Applications Development (1)	3	A0331202
-	Elective University Requirements 1	3	-
<b>Total 15</b>			

3 <sup>rd</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0110101	Linear Algebra	3	A0110101
A0373505	Deep Learning	3	A0373405
A0333203	Internet Applications Development (2)	3	A0332202
A0374401	Big Data	3	A0312401 / A0372401
A0374501	Natural Language Processing	3	A0373501
A0110154	Life skills	1	-
<b>Total 16</b>			

3 <sup>rd</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0332501	Introduction to software Engineering	3	A0312201
A0313101	Algorithms Analysis and Design	3	A0312101
A0373504	Robotics Programming	3	A0373501
-	Elective University Requirements 2	3	-
-	Elective Major Requirements 1	3	-
<b>Total 15</b>			

Course No.	Course Title	Credit Hours	Prerequisite
A0374605	Practical Training	9	Pass 90 Cr. Hrs.

Students may only enroll in the practical training course after completing 90 credit hours, and no other courses can be registered in the same semester.

4 <sup>th</sup> Year/ First Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0374606	Graduation Project (1)	3	Pass 90 Cr. Hrs
A0373101	Computing System for Data Science and AI	3	A0311301
A0374504	Computer Vision	3	A0373501
A0334600	Ethical and Professional Issues in Computing	1	A0331202
A0334605	Communication and Technical writing Skills	2	A0331202
-	Elective Major Requirements 2	3	-
<b>Total 15</b>			

4 <sup>th</sup> Year/ Second Semester			
Course No.	Course Title	Credit Hours	Prerequisite
A0374607	Graduation Project (2)	3	A0374606
A0374503	Business Intelligence	3	A0373501
A0110155	Military Sciences	3	-
-	Elective University Requirements 3	3	-
-	Elective Major Requirements 3	3	-
<b>Total 15</b>			

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## Master's in Cybersecurity program

The **Master's in Cybersecurity** program was established in 2021 with the goal of providing local and regional labor markets with graduates who possess advanced knowledge and practical experience in information security, risk management, and cyber defense. The program aligns with the vision of the College of Information Technology, which seeks to offer high-quality education in an innovative learning environment that keeps up with the latest developments in cybersecurity and digital technologies. The program aims to equip graduates with technical knowledge and leadership skills that meet labor market needs and keep pace with ongoing changes in this field.

The program offers a comprehensive curriculum that combines theoretical foundations with practical applications, based on the latest technologies and methodologies used to protect information systems and digital infrastructures. Students gain in-depth skills in analyzing, assessing, and mitigating security threats across various computing environments.

The Master in Cybersecurity program focuses on advanced topics such as cryptography and secure protocols, network and system security, ethical hacking and penetration testing, digital forensics and incident response, security governance and risk management, privacy and data protection, and secure software engineering practices. Additionally, the program includes specialized research, projects, and case studies that prepare students to contribute to both academia and industry.

A key component of the program is the Master's Thesis, where students apply research methods and security solutions to real-world problems under the supervision of faculty. Practical labs, simulations, and collaborative activities further enhance students' readiness to protect and defend information assets in professional environments.

Upon graduation, students are equipped not only with advanced theoretical understanding but also with hands-on expertise and ethical competencies that support strategic decision-making in cybersecurity. Graduates are prepared to take on leadership roles in government agencies, private sector enterprises, critical infrastructure organizations, and research institutions, while contributing to innovation and sustainable development in the digital age.

**Study Plan**  
**(M.Sc) in Cybersecurity (Thesis Track)**  
**(33) Credit Hours**  
**Issued 2025/2026**

**Faculty: Information Technology**

**Department: Networks and Cybersecurity**

**Compulsory Requirements:(15) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347101	Research Methodologies	3	-	Blended
A0347130	Advanced Cryptography	3	-	Face to face
A0347131	Advanced Digital Forensics	3	-	Face to face
A0347132	Advanced Networks Security	3	-	Face to face
A0347133	Cyber Threat and Incident Response	3	-	Face to face

**Elective Requirements: (9) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347111	Information Systems Risk Management	3	-	Face to face
A0347125	Selected Topics in Cybersecurity	3	-	Blended
A0347126	Applications of Artificial Intelligence in Cybersecurity	3	-	Face to face
A0347140	Blockchain Technology	3	-	Face to face
A0347141	Legal governance and Compliance	3	-	Face to face
A0347142	Offensive and Defensive Techniques	3	-	Face to face
A0347143	Cloud Computing Security	3	-	Face to face
A0347144	Cyber-Physical System and Security	3	-	Face to face
A0347145	Quantum Cryptography	3	-	Face to face
A0347146	Current Emerging Trends in Cybersecurity	3	-	Online

**Thesis**

Course No.	Course Title	Cr.H	Prerequisite	Special Requirement	Learning Type
A0347199	Thesis	9	-	Completed at least 12 Cr.H. with a GPA not less than (3)	Face to face

**Study Plan**  
**(M.Sc) in Cybersecurity (Comprehensive Track)**  
**(33) Credit Hours**  
**Issued 2025/2026**

**Faculty: Information Technology**

**Department: Networks and Cybersecurity.**

**Compulsory Requirements:(24) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347101	Research Methodologies	3	-	Blended
A0347130	Advanced Cryptography	3	-	Face to face
A0347131	Advanced Digital Forensics	3	-	Face to face
A0347132	Advanced Networks Security	3	-	Face to face
A0347133	Cyber Threat and Incident Response	3	-	Face to face
A0347140	Blockchain technology	3	-	Face to face
A0347141	Legal governance and Compliance	3	-	Face to face
A0347143	Cloud Computing Security	3	-	Face to face

**Elective Requirements: (9) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347111	Information Systems Risk Management	3	-	Face to face
A0347125	Selected Topics in Cybersecurity	3	-	Blended
A0347126	Applications of Artificial Intelligence in Cybersecurity	3	-	Face to face
A0347142	Offensive and Defensive Techniques	3	-	Face to face
A0347144	Cyber-Physical System and Security	3	-	Face to face
A0347145	Quantum Cryptography	3	-	Face to face
A0347146	Current Emerging Trends in Cybersecurity	3	-	Online

**Comprehensive**

Course No.	Course Title	Cr.H	Prerequisite	Special Requirement	Learning Type
A0347198	Comprehensive Exam	0	-	Completion all required Courses with a GPA not less than (3)	-

## Master's in Data Science and Artificial Intelligence

The **Master's in Data Science and Artificial Intelligence** at **Al-Ahliyya Amman University** is an advanced graduate program established in 2025 to equip students with deep scientific knowledge and practical expertise in the rapidly growing fields of data science and artificial intelligence. The program supports the vision of the **College of Information Technology** to provide high-quality education that keeps pace with emerging technologies, preparing graduates to meet the increasing local, regional, and global demand for skilled professionals in data-driven systems and intelligent technologies.

The program grants a Master's degree upon successfully completing a total of **33 credit hours**, including advanced coursework and a thesis or research component. The curriculum integrates theoretical foundations with hands-on practical applications, ensuring that students develop expertise in data analytics, machine learning, and artificial intelligence.

Specialized courses in the program cover a range of advanced topics, including **Advanced Machine Learning, Advanced Artificial Intelligence, Big Data Engineering, Deep Learning, Natural Language Processing, Computer Vision, Data Mining, AI Algorithms, Statistics for Data Science, and Advanced Business Intelligence**. These courses provide students with the skills to design intelligent systems, process large-scale data, and apply AI techniques to solve complex real-world problems.

Practical labs, research projects, and collaborative activities are key aspects of the program, ensuring that students gain both theoretical understanding and practical experience. Upon graduation, students are well-prepared for leadership roles in academia, industry, and research institutions, contributing to innovation, digital transformation, and sustainable development in the fields of data science and artificial intelligence.

**Study Plan**  
**MA (M.Sc) in Data Science and Artificial Intelligence (Thesis Track)**  
**(33) Credit Hours**  
**Issued 2025/2026**

Faculty: Information Technology

Department: Data Science and Artificial Intelligence

**Compulsory Requirements:(15) Credit Hours**

**Elective Requirements: (9) Credit Hours**

**(Thesis)**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347101	Research Methodologies	3	-	Blended
A0377102	Advanced Artificial Intelligence	3	-	Face-to-Face
A0377103	Advanced Machine Learning	3	-	Face-to-Face
A0377104	Advanced Data Engineering	3	-	Face-to-Face
A0377105	Advanced Big Data Analysis	3	-	Face-to-Face

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0377111	Statistics for Data Science	3	-	Blended
A0377112	Advanced Data Visualization	3	-	Face-to-Face
A0377113	Advanced Deep Learning	3	-	Face-to-Face
A0377115	Advanced Topics in Data Science	3	-	Online
A0377116	Advanced Algorithms	3	-	Face-to-Face
A0377118	Web and Social Networks Analysis	3	-	Face-to-Face
A0377106	Advanced Natural Language Processing	3	-	Face-to-Face
A0377107	Advanced Computer Vision	3	-	Face-to-Face
A0377108	Advanced Business Intelligence	3	-	Face-to-Face

Course No.	Course Title	Cr.H	Prerequisite	Special Requirement	Learning Type
A0377199	Thesis	9	completed at least 12 Cr.H with a GPA not less than (3)		

**Study Plan**  
**MA (M.Sc) in Data Science and Artificial Intelligence (Comprehensive Track)**  
**(33) Credit Hours**  
**Issued 2025/2026**

**Faculty: Information Technology**

**Department: Data Science and Artificial Intelligence**

**Compulsory Requirements:(24) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0347101	Research Methodologies	3	-	Blended
A0377102	Advanced Artificial Intelligence	3	-	Face-to-Face
A0377103	Advanced Machine Learning	3	-	Face-to-Face
A0377104	Advanced Data Engineering	3	-	Face-to-Face
A0377105	Advanced Big Data Analysis	3	-	Face-to-Face
A0377106	Advanced Natural Language Processing	3	-	Face-to-Face
A0377107	Advanced Computer Vision	3	-	Face-to-Face
A0377108	Advanced Business Intelligence	3	-	Face-to-Face

**Elective Requirements: (9) Credit Hours**

Course No.	Course Title	Cr.H	Prerequisite	Learning Type
A0377111	Statistics for Data Science	3	-	Blended
A0377112	Advanced Data Visualization	3	-	Face-to-Face
A0377113	Advanced Deep Learning	3	-	Face-to-Face
A0377115	Advanced Topics in Data Science	3	-	Online
A0377116	Advanced Algorithms	3	-	Face-to-Face
A0377118	Web and Social Networks Analysis	3	-	Face-to-Face

**(Comprehensive)**

Course No.	Course Title	Cr.H	Prerequisite	Special Requirement	Learning Type
A0377198	Comprehensive Exam	0	Completion all required courses with a GPA not less than (3)		