



University Catalogue 2021 – 2022

mbzuai.ac.ae

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Message from the President

It gives me immense pleasure to welcome you to the Mohamed bin Zayed University of Artificial Intelligence (MBZUAI).

MBZUAI, as a graduate-level research university, is a phenomenal endeavor that will set a new standard for research and education in the field of Artificial Intelligence. We aim to bring together world-leading experts in AI within our faculty and researcher, complemented by advanced facilities, labs and research centers.

In just the past few years, AI has emerged as a novel and disruptive technology promising to transform traditional industries and create new ones along the way. It is enabling new capabilities, redefining business models and public policy, and advancing scientific discovery to new heights. AI is the next transformative technology, like the steam engine, electricity and semi-conductor, reshaping people's daily lives and the society we live in. Businesses, investors and governments are all embracing AI as a central pillar of the next Industrial revolution. It is an opportunity too important for your generation to miss, but also a big responsibility for us to put to good use for human well-being, just like past generations did with steam engine, electricity and semi-conductor.

MBZUAI is in a prime position to lead the region and the world in AI research and teaching. Our advanced curriculum is aligned with technologies with the potential to solve some of the biggest challenges facing businesses and society. MBZUAI is also a key initiative under the UAE's national AI strategy, and will play the pivotal role in supporting UAE's efforts to build and sustain an AI-based knowledge economy while enabling local innovation clusters and AI start-ups.

Students like you from around the world will find a nurturing environment where you can expand your knowledge and research in AI. At MBZUAI, I want you to receive the best possible training from the best faculty in AI field, and become leaders that will change the world. From the training, I want you to develop the essential qualities of a technologist: You must not be afraid to challenge existing results from established researchers, especially when they are wrong; you must think creatively and independently, think out-of-the-box, overcome limits and most importantly accept criticism as a part of life; and you must walk the walk and put your knowledge into practice. These traits of a technologist will build a distinctive personality in an otherwise boring existence.

Thank you and welcome to MBZUAI.

Sincerely,



Professor Eric Xing
President, MBZUAI

Academic University Calendar Year 2021/2022

Day	Date	Event
Sun-Thu	15-19 Aug	-Reporting of current and new faculty and academic administrators. -New Students' Orientation week.
Sun	22 Aug	Start of classes.
Thu	26 Aug	Last day to add/drop courses.
Thu	02 Sept	Last day to apply for Course Withdrawal/Leave of Absence without penalty.
Sun-Thu	05-30 Sept	Supervisors' selection process.
Thu	07 Oct	Students' deadline to submit the supervisor selection form.
Thu	04 Nov	-Publish the Spring 2022 Class Schedule. -Deadline to change student's supervisor for Spring 2022 Semester.
Sun-Thu	07-11 Nov	Early Registration for Spring 2022 Semester
Sun-Tue	05-07 Dec	Final exams preparation week.
Tue	07 Dec	Last day of classes.
Wed-Sat	08-11 Dec	Final exams period.
Tue	21 Dec	Grades Announcement.
Sun	26 Dec	Students' deadline to submit grade appeals.
Sun-Thu	12 Dec 2021 -6 Jan 2022	Winter Break for students.
Wed-Thu	15 -30 Dec	Winter Break for faculty.

The official holidays observed by the University during the Fall 2021 Semester:

Occasion	Date	Holiday duration
Prophet Mohammed Birthday	Oct 19, 2021	1 day
Commemoration Day	Dec 1, 2021	1 day
UAE National Day	Dec 2, 3 2021	2 days

Academic University Calendar Year 2021/2022

	Day	Date	Event
Spring Semester (2021)	Sun-Thu	02-06 Jan	-Reporting of current and new faculty and academic administrators. -New Students' Orientation week.
	Sun	09 Jan	Start of classes.
	Thu	13 Jan	Last day to add/drop courses.
	Thu	20 Jan	Last day to apply for Course Withdrawal/Leave of Absence without penalty.
	Tue-Thu	01 Feb-03 Mar	Supervisors' selection process.
	Thu	10 Mar	Students' deadline to submit the supervisor selection form.
Spring break	Sun-Thu	27-31 Mar	Spring Break
Spring Semester continues (2022)	Thu	14 Apr	-Publish the Fall 2022 Class Schedule. -Deadline to change student's supervisor for Fall 2022 Semester.
	Sun-Thu	17-21 Apr	Early Registration for Fall 2022 Semester.
	Sun-Thu	24-28 Apr	Final exams preparation week.
	Tue	28 Apr	Last day of classes.
	Sat-Mon	07-09 May	Final exams period.
	Tue	19 May	Grades Announcement.
	Tue	24 May	Students' deadline to submit grade appeals.
Summer Vacation	Thu	10 May	Start of Summer vacation for students.
	Sun	22 May	Start of Summer vacation for faculty.

The official holidays observed by the University during the Spring 2022 Semester:

Occasion	Date	Holiday duration
New Year	Jan 1, 2022	1 day
Spring Break	27-31 Mar 2022	5 day
Eid Al Fitr	02-05 May 2022	4 days



Overview

The Mohamed bin Zayed University of Artificial Intelligence (“MBZUAI”) is established in the Emirate of Abu Dhabi, with a clear mission to drive AI knowledge creation, development, fostering economic, social growth and positioning the UAE as a hub for the international AI community.

The university, in addition to its academic offerings, will have a direct and indirect impact on AI advancement in the UAE in multiple ways including, but not limited to:

- Attract international talents (students and faculty staff) and ensure the transition to enter the UAE market.
 - Create an active AI community and collaborate in AI research and publications.
 - Host conferences that attract AI experts to the UAE and the region.
 - Support technology and AI related startups in the UAE.
 - Support governments and businesses by providing AI consulting services and AI solutions/ applications.
- Conduct training & workshops in various AI fields for government entities and businesses.

MBZUAI will offer 3 PhD and 3 MSc programs in the 3 AI specialization, Machine Learning (ML), Computer Vision (CV), Natural Language Processing (NLP).

Institutional History

MBZUAI was established as an independent local entity in the Emirate of Abu Dhabi and shall be affiliated to the Executive Council. The University has a Board of Trustees comprising of Seven members including the Chairman of the Board.

Vision

Drive excellence in knowledge creation, transfer and use of AI to foster economic growth and position Abu Dhabi as a hub for the international AI community.

Mission

Establish and continually evolve interdisciplinary, collaborative research and development capability in the field of AI, while educating students to be innovators and leaders with the breadth and depth to grow technology and enterprise in the UAE and globally.

Strategic Objectives

MBZUAI has the following strategic objectives:

- Support Abu Dhabi's efforts to build and sustain an AI-based knowledge economy.
- Ensure that industry & public institutions have the people, skills, and resources to be best in class at the use of AI.
- Attract the best regional and global talent focused on AI.
- Achieve research excellence in AI and develop real business applications in collaboration with industry & public institutions to enhance innovation, productivity & growth.
- Become the trusted advisor for the industry & public institutions in matters related to AI.
- Support the UAE's innovation clusters and AI start-ups.

Licensing and Accreditation

The Mohamed bin Zayed University of Artificial Intelligence, located in the Emirate of Abu Dhabi, is officially licensed from March 10, 2020 by the Ministry of Education of the United Arab Emirates to award degrees/qualifications in higher education.

Board of Trustees



**Professor
Sir Michael Brady**

Emeritus Professor of Oncological Imaging in the Department of Oncology of the University of Oxford.



Professor Anil K. Jain

Distinguished Professor in the Department of Computer Science and Engineering at Michigan State University.



Dr. Kai-Fu Lee

Chairman and CEO of Sinovation Ventures and President of Sinovation Venture's Artificial Intelligence Institute.



Professor Daniela Rus

Professor of Electrical Engineering and Computer Science and Director of the Computer Science and Artificial Intelligence Laboratory (CSAIL) at MIT.



Peng Xiao

CEO of Abu Dhabi-based Group42 Ltd.

Campus Facilities



From the time students are admitted into MBZUAI until graduation, access shall be provided to a range of support services, facilities, and programs at the campus. Students have access to a range of other services, such as: Advising, Counseling, IT support, Health Services & Insurance, Prayer Rooms, Dining Facilities and Student Lounges.

Premise, Resources, and Physical Setting

MBZUAI is based in Masdar City, one of the world's most sustainable urban communities, a low-carbon development made up of a rapidly growing clean-tech cluster, business free zone and residential neighborhood with restaurants, shops and public green spaces, surrounded by a student-friendly environment with all the needed amenities. The campus spaces designed to be fully supportive of an optimal educational experience and compliant with local authorities' regulations as well as international educational standards.

Recreational facilities

MBZUAI is equipped with a sports facility, and a sizeable gym.

MBZUAI apartments

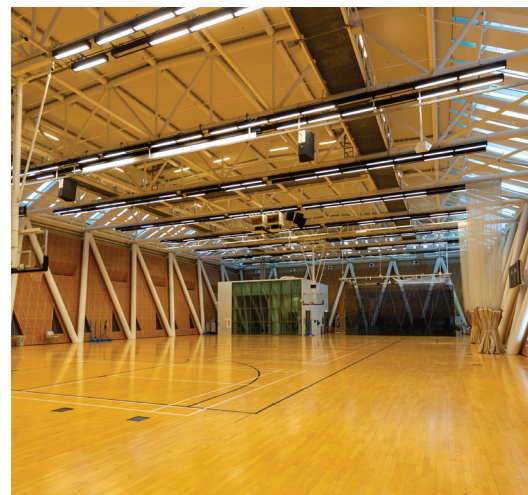
The residences at MBZUAI 1A is split into 4 blocks, comprising of 3 floors of apartments, while 1B contains additional housing blocks of 4 floors each. The blocks are divided into Male, Female. Each male and female apartment has a bedroom, kitchen, toilet and shower, living/dining, and study area. Some of the apartments comprise more than 1 bedroom. All apartments have private balconies.

Catering arrangements

All apartments are equipped with an electric cooker, fridge, and microwave, although there is no oven. Cookware,

crocery, and cutlery are not provided. Apartments in 1B blocks have shared freezers on each floor while 1A blocks have small freezers in their refrigerators. There is also a canteen on site where breakfast, lunch and dinner can be purchased. Additionally, a number of retail outlets including restaurants, cafés are located on campus.

Bedrooms are equipped with a bed, built in wardrobe and bedside cabinet. Bedding is not provided. Bathroom facilities consist of a shower, toilet, and sink. Towels are not provided. Dining table and chairs, study desk and chair and soft furnishings are provided.



Laundry

There is a laundry located within each of the blocks. There are also a number of common lounges and external balcony areas within each of the blocks. Students are responsible for providing their own laundry detergent. The use of washing/drying machines is free of charge in all facilities.

Majlis / common areas

Common areas are provided on the podium level of campus. Male and female majlis areas are located in 1A and 1B. Common space can be found in 1B and in the Learning Center and restaurants, cafés, and the canteen.

Cleaning

The common areas are cleaned frequently. It is the residents' responsibility to clean their own Apartments.

Prayer rooms

There are both male and female prayer rooms located within the campus.

Parking

At the Masdar City campus, parking is permitted on campus at the North Car Parking. Parking spaces are available for faculty, staff, and students and cannot be reserved.

Transportation

Bus services, routes and fared taxis

All taxi services in UAE use meters around the city so you will not need to negotiate fares. Drivers in

Abu Dhabi speak English and there is a central national transport phone number that can be used to locate the nearest available taxi:600 535353

Banking Facilities

Bank	Telephone	Web Site
First Abu Dhabi Bank	Tel: 02 6811511	https://www.bankfab.ae
Abu Dhabi Commercial Bank	Tel: 02 672-0000	www.adcb.com
Abu Dhabi Islamic Bank	Tel: 02 6100600	https://www.adib.ae
Citibank	Tel: 02 674-2484	www.citibank.com/uae
HSBC	Tel: 600 554722	www.hsbc.ae

Table 3: Banking Facilities

Most banks have several branches in each city. Contact the bank or visit their web site for details of the most convenient branch for you.

Masdar Park

Masdar Park is now double the size at 2,500 square meters. Open daily from 9am-10pm, the park features a children's playground, a music wall and art installations themed on sustainability. Visitors can charge their phones and digital devices using the park's solar-powered benches and interact with 'The Tree of Light' made from recycled building materials. The Tree of Light changes colors when touched. For more information visit <https://masdar.ae/en/masdar-city/the-city/recreation>.

Travel and Tourism

The Abu Dhabi Department of Culture & Tourism and Visit Abu Dhabi contain lots of information regarding travel and tourism: <http://visitabudhabi.ae/en/default.aspx>
<https://www.abudhabi.ae/portal/public/en/homepage>



Health and Safety

The MBZUAI is committed to providing a safe and healthy environment for our students, staff and visitors. However, students are expected to take responsibility for their own actions and not put themselves or others at risk.

Any occupational health and safety issues identified will be taken seriously and addressed promptly. If a student identifies any health and safety risks or has any health and safety concerns, they must contact Student Affairs promptly to report any injuries or incidents that occur. Smoking is not allowed on the MBZUAI campus.

Security

MBZUAI is concerned that all individual students are properly authorized to enter the premise. All MBZUAI premises have security gates with security personnel stationed at each entrance. These security officers will only allow those who are properly authorized to enter the campus.

Fire Drills

In case of fire, each academic department has procedures to follow. Students should learn where emergency exits, fire alarms and fire extinguishers are located. In the event of a fire drill or emergency, students must follow the directions of their professor or security personnel.

Medical Emergencies

If a student is seriously ill and their professor needs to help, he/she will call Student Affairs who will provide assistance and contact a family member. An ambulance will be called if necessary.


Health Services

On-campus assistance is available in the form of First-Aid kits placed around the campus for minor injuries. Students may use their health insurance cards provided by MBZUAI, to visit a hospital or medical Center for more serious injuries.

- MBZUAI will be providing each student with health insurance during their academic journey.
- The health card can be used for medical services in emergency cases and for basic routine treatment. A policy list will be provided stating the coverages included and allocated limits.

- In the event of a serious injury, call an ambulance by dialing 999. For minor injuries or medical complaints, a medical clinic is available on Campus which is located in the Solar building podium and is available for 24/7. The clinic is fully equipped and ready to accommodate all first aid needs.

Main Buildings

- A** Incubator Building
- B** Knowledge Center
- C** Multi-use Hall
- D** Siemens Building
- E** Wind Tower
-  Masdar Institute Campus

Services

- 14** Al Hilal Bank
- 15** Al Manara Pharmacy
- 16** Emirates Post
- 17** Etisalat
- 18** Modern laundry
- 19** NBAD Bank
- 20** The Coctors Medical Centre

Corporate Offices

- 21** Etihad Airways
- 22** Masdar City Offices
- 23** Masdar Corporate Offices
- 24** Masdar Free Zone One-Stop Shop
- 25** Siemens Middle East



Cafés and Restaurants

- 1** Barbacoa Mexican Restaurants
- 2** Café Cento
- 3** Caribou Coffee
- 4** IL Café Di Roma
- 5** Jim's Kitchen Table
- 6** Just Falafel
- 7** Osha Emirati Gourment
- 8** Papparoti Café
- 9** Quiznos Sub
- 10** Spinneys Cafeteria
- 11** Sumo Sushi & Bento









Retail

- 12** F-Mart Supermarket
- 13** Organic Supermarket

Bus Stops

-  Public Bus
-  Big Bus

Facilities

-  Personal Rapid Transit (PRT)
-  Male Prayer Room
-  Female Prayer Room
-  Toilets
-  Masdar Institute
-  Masdar Reception
-  Building Entrance
-  Car Park (Staff Only)



Student's IT Services at MBZUAI.

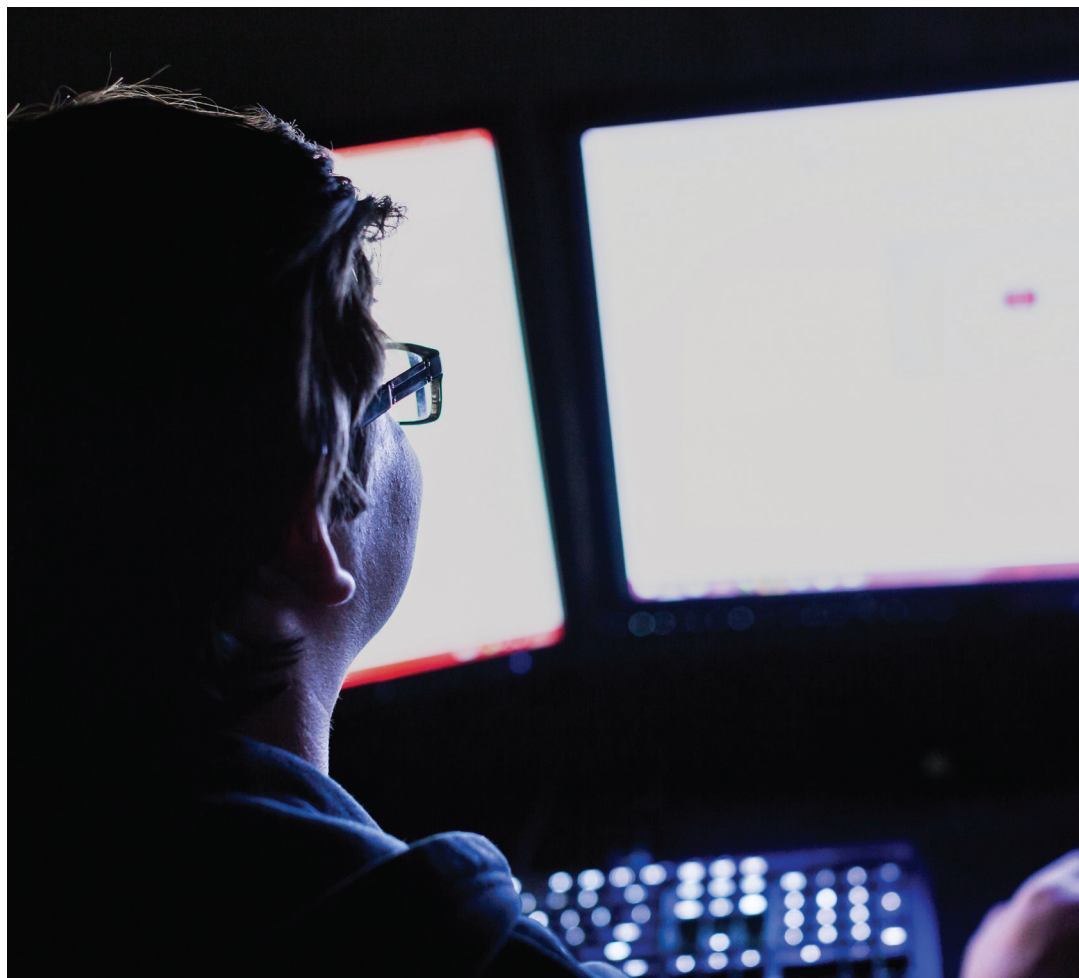
Internet Access and Student Email

MBZUAI students can connect their laptop, mobile phone, or tablet to the MBZUAI wireless network to get fast secure internet access. Students in residences can also connect to wireless network.

In the first instance Student Affairs staff will help set up the required username and password. It is the student's responsibility to keep their password secure and not misuse it. If a student forgets their password, they should contact IT Helpdesk

(helpdesk@mbzuai.ac.ae, or call 3000). Before a student is given a password to access the Internet and their email account, he/she shall be required to sign the MBZUAI Acceptable Use Policy. Student e-mail is considered an official form of communication between MBZUAI and the students.

Users of the Internet are governed by the MBZUAI Acceptable Use Policy.



The MBZUAI website, contains a wealth of useful information, including news channels, links to the available library resources, research activities, the academic calendar and more. Students can find the MBZUAI Catalogue on the website. Also, it has detailed information about programs, MBZUAI's policies, procedures, and requirements.

The MBZUAI website has a link to the restricted access MBZUAI portal. Students can access their email through the portal and will be offered a full e-Services Portfolio. Students gain access to the portal with their username and password. This can be done using a computer on the campus, at home or anywhere with an Internet connection. In addition to those services already mentioned the following is a list of other systems and services that may be of interest.

- Student Information System (SIS)
- Class Schedule
- Program Curriculum
- Student Careers and Alumni Services
- Student Handbook
- Housing manual
- Microsoft Office 365 (Email, MS Teams, Word, Excel, PowerPoint)
- Learning Management System (Moodle)
- MATLAB

There is an IT Helpdesk on campus to help students with general IT queries. The IT department provides printing services on the campus for students.



Admission – Masters Programs

In order to be considered for admission to a Master of Science program at MBZUAI an applicant must provide evidence of the following:

A completed Bachelor's degree in a S.T.E.M field such as Computer Science, Electrical Engineering, Computer Engineering, Mathematics, Physics and other relevant Science and Engineering majors, from an accredited university or college recognized by the UAE Ministry of Education, without the need of prior work experience

Applicants must provide their complete degree certificates and transcripts (in English) when submitting their application. Senior-level students can apply initially with a copy of their transcript and upon admission must submit official complete degree certificate/transcript. A degree attestation (for degrees from the UAE) or an equivalency certificate (for degrees acquired outside the UAE) should also be furnished within their first semester at the university.

6.1.4 Knowledge, skills & competencies in some of the following subjects:

Programming skills such as Python, C, C++ or MatLab

Math skills such as:

- Data Structures and Algorithms
- Linear Algebra
- Probability and Statistics
- Calculus

A minimum undergraduate CGPA of 3.2 (on a 4.0 scale) or equivalent or top 20% among students of the same class

An English Language Proficiency Certificate which must remain valid during the application process. Minimum requirements are:

- TOEFL iBT with a minimum total score of 90; or
- IELTS Academic with a minimum overall score of 6.5 or
- EmSAT English with a minimum total score of 1550
- TOEFL iBT, IELTS Academic and EmSAT English certificates should be valid during the application process.

Waiver requests from applicants who undertook all their schooling (K-12) plus a Bachelor's degree in English in a reference English speaking country (e.g. UK, USA, Australia, New Zealand) may be processed in accordance with the Admission Procedure.

Applicants must submit notarized copies of their documents during the application stage and attested documents upon admission. Waiver decisions will be given within seven days after receiving all requirements.

A minimum of 2 letters of recommendations from mentors and supervisors or others with good knowledge of the applicant's qualification are mandatory.

A Graduate Record Examination (GRE) General Score may be optionally submitted
Statement of Purpose: In a 500 to 1,000 word essay, the applicant should present his/her motivation for applying to the university. It may include information regarding the applicant's personal and academic background as well as his/her chosen career path; goals as a prospective student; graduation plans; and other details that will support the application.

All applications for admission to Master of Science programs must be submitted online providing all required documentation.

Admission – PhD Programs

In order to be considered for admission to a PhD program at MBZUAI an applicant must provide evidence of the following:

Completed Degree - either:

Bachelor's degree in a S.T.E.M field such as Computer Science, Electrical Engineering, Computer Engineering, Mathematics, Physics and other relevant Science and Engineering majors, from a university accredited or recognized by the UAE Ministry of Education (MoE) which demonstrates academic distinction in a discipline appropriate for the doctoral degree. Students should have a CGPA of at least 3.5 (on a 4.0 scale) or equivalent and valid Graduate Record Examination (GRE) scores of at least 150 (Verbal Reasoning), 150 (Quantitative Reasoning) and 3 (Analytical Writing) OR

Bachelor's and Master's degrees in S.T.E.M fields such as Computer Science, Electrical Engineering, Computer Engineering, Mathematics, Physics and other relevant Science and Engineering majors, from a university accredited or recognized by the UAE Ministry of Education (MoE). Students should have a minimum CGPA of 3.2 (on a 4.0 scale) or equivalent or top 20% among students of the same class.

Applicants must provide their complete degree certificates and transcripts (in English) when submitting their application. Senior students can apply initially with a copy of their transcript and upon admission must submit official complete degree certificate/transcript. A degree attestation (for degrees from the UAE) or an equivalency certificate (for degrees acquired outside the UAE) should also be furnished within their first semester at the university.

Knowledge & Competencies: Demonstrate evidence of skills acquired in some of the following subjects:

Programming skills such as Python or C or C++ or MatLab

Math skills such as:

- a. Data Structures and Algorithms
- b. Linear Algebra
- c. Probability and Statistics
- d. Calculus
- e. Knowledge of basic machine learning algorithms such as linear regression, decision trees, Support Vector Machines, etc.

English Language Proficiency Certificate (for applications submitted from Fall 2021 intake onwards). Minimum requirements are:

- a. TOEFL iBT with a minimum total score of 90; or
- b. IELTS Academic with a minimum overall score of 6.5 or
- c. EmSAT English with a minimum total score of 1550
- d. TOEFL iBT, IELTS Academic and EmSAT certificates should be valid during the application process.
- e. Waiver requests from applicants who undertook all their schooling (K-12) plus a Bachelor's degree and/or a Master's degree, as applicable, in English in a reference English speaking country (e.g. UK, USA, Australia, New Zealand) may be processed in accordance with the Admission Procedure.
- f. Applicants must submit notarized copies of their documents during the application stage and attested documents upon admission. Waiver decisions will be given within seven days after receiving all requirements.
- g. 3 letters of recommendations from mentors and supervisors or others with good knowledge of the applicant's qualification are mandatory
- h. Statement of Purpose: In a 500 to 1,000-word essay, the applicant should present his/her motivation for applying to the university. It may include information regarding the applicant's personal and academic background as well as his/her chosen career path; goals as a prospective student; graduation plans; and other details that will support the application.

Research Statement:

a 1-3 page document which provides a high-level overview of your past research experience and the research you are interested in working on, including your motivation for wanting to investigate this area. Note that applicants are expected to write a research statement completely independently. The selection team will read an applicant's research statement and use it as one of the measures to determine if an applicant's interests and past experience make them a good fit for MBZUAI's research programs. MBZUAI faculty will NOT help applicants write a research statement for the purpose of the application.

It is recommended that the statement contains few sections including introduction, literature review, problem definition, methods (optional), timeline, and a list of references.

All applications for admission to PhD programs must be submitted online providing all required documentation.

Credit Transfer

Students applying for admission who wish to transfer credit from a federal or licensed institution in the UAE, or a foreign institution of higher learning based outside the UAE and accredited in its home country must provide evidence, as outlined in the Admission Procedure, which will allow the Admission Committee to make a determination regarding the transfer.

The limit for the number of transfer credits which may be accepted for a specific degree program is 25 % of total Credit Hours for MSc and PhD programs.

Transfers will only be permitted for students who are in good academic standing and who are eligible to return to their current or former institution.

MBZUAI will accept the transfer of credits only for courses relevant to the degree that provide equivalent learning outcomes and in which the student earned a grade of B (3.0 on a 4.0 scale) or better.

The grade of the transfer credit course will be recorded as a "TC" on the transcript record. The approved transfer credits will be calculated towards the credit hours but not included in GPA calculation.

The course transfer credits may not have been used previously in any graduate program to fulfil the requirement of any other graduate degree.

The course credits must have been completed no more than a maximum of (2) years prior to the student's acceptance into the program of MBZUAI.

The MBZUAI Admission Committee will have the ultimate right to accept or reject the transfer requests for any student.

All applications for transfer credit to master or PhD programs must be submitted online providing all required documentation.

Recognition of Prior Learning

MBZUAI does not recognize prior learning and does not award credit for informal and non-formal learning that has taken place prior to admission into its academic programs, other than the credit specified in the admission policy and associated procedures.

Prior learning in the form of professional certification, training programs, credit bearing courses of non-accredited degrees, and other similar programs will not receive any credit towards academic degree programs.

Course Exemptions

A student may be granted a course exemption, rather than credit, if the student can provide evidence that a course previously studied at a federal or licensed institution in the UAE, or a foreign institution of higher learning based outside the UAE and accredited in its home country is equivalent to a course that forms part of the program for which the student is applying. Course exemptions are usually only granted for mandatory courses or those which form a prerequisite for other courses.

The student must provide evidence, as outlined in the Admission Procedure, which will allow the Admission Committee to decide regarding the course exemption.

MBZUAI will consider applications for course exemption only for courses relevant to the degree that provide equivalent learning outcomes and in which the student earned a grade of B (3.0 on a 4.0 scale) or better.

The grade of the exempted course will be recorded as a "EX" on the transcript record. The exempted course will have no credit assigned and will not be used in the calculation of the CGPA.

The exempted course will not count towards the course requirements for a program.

The previous study being used as evidence for the course exemption must have been completed no more than a maximum of (2) years prior to the student's acceptance into the program of MBZUAI.

The MBZUAI Admission Committee will have the ultimate right to accept or reject the application for course exemption for any student.

All applications for transfer credit to master or PhD programs must be submitted online providing all required documentation.

Scholarships

All admitted students (on full time basis) are granted full scholarship upon acceptance.

The scholarship includes 100% tuition fees, accommodation, health insurance and a competitive monthly stipend and annual ticket to home country.

To retain a scholarship, students must meet the following criteria:

- Maintain a CGPA of 3.0 or above.
- Complete their degree requirements within the allowed duration as set out in the Academic Progress Policy.
- Maintain a clean deed record, and with no evidence of dishonest or unethical behavior.

Related: Scholarship Procedure, Academic Progress Policy.

Tuition Fees

Program	Fee Per One Credit
MSc	AED 5,000
PhD	AED 6,600

Registration

Orientation Program

All new students must undergo the student orientation program as soon as they join MBZUAI and prior to starting classes. It is essential to attend the orientation program.

The goal of the orientation program is to facilitate the new students transition to graduate studies by introducing them to the values, expectations, and resources at the MBZUAI community which will be their home for the duration of their degree program. It will also focus on professional as well as personal development.

Student ID

Every student at MBZUAI receives an MBZUAI Identity Card after being admitted and enrolled. The card is valid until the students complete their studies. These cards are issued by the Student Affairs Office. ID cards will be distributed to all students during orientation week.

The Student should ensure to carry his/her card at all times around the university and should not allow anyone else to use this card.



Course Registration Process

- A student must be officially registered in a course to earn academic credit.
- Students must meet with their Academic Advisor during the announced registration period to agree on the courses to be registered.
- Students must register during the designated registration period as published in the university calendar each term until the degree has been formally awarded.
- Students admitted to MBZUAI programs are required to maintain a full-time status by registering in a minimum of 11-12 credit hours per semester during the first year. In exceptional circumstances, a student may be approved to carry a reduced credit load upon the approval of the academic advisor, Registrar and the Provost.
- A student may only change his/her schedule during the add/drop period as designated in the university calendar. If the deadline has passed, a student cannot change their class schedule unless they provide evidence for extenuating circumstances and after the approval of the academic advisor and the Registrar.

Academic Advising

- MBZUAI will provide the appropriate infrastructure and student advising framework to allow students to complete their education and research in a timely and productive manner.
- Student advising shall be impartial and focus on students' needs rather than those of individual departments or the University.
- During the first two weeks of semester, faculty will showcase their research, by means of a 15-30-minute presentation.
- In the following 4 weeks (Weeks 2-6), students are given the opportunity to schedule 1:1 meetings with any faculty they want to meet. All faculty are encouraged to open their calendar to accommodate such requests. If they are not interested in such meeting, they take their own risk of NOT being matched to any students.
- In Week 7, each student is asked to submit, via an e-form, their top three choices of faculty (no more than one co-advisor is permitted during the first year of study, but students still need to provide a ranked list of faculty).
- Students' advisor preferences must be endorsed by both the faculty advisor and the Department Chair.
- The Department Chair will consider the following before endorsing and submitting the e-form to the Registrar's Office:
 - o That each advisor is assigned advisees being mindful of their workload commitments.
 - o The selection of other advisors is aligned with research topic and faculty background.

Academic Regulations

Academic Calendar

MBZUAI follows an academic year that starts on August through May, with a two semesters setup per year, of 17 weeks study plan per semester.

Language of Instruction

All courses in MBZUAI programs offered in English Language ONLY.

Official communication Method (Email)

MBZUAI has adopted e-mail as the primary means for official communication to its students, faculty, and staff. The university will send all official communication regarding academic and administrative matters, important information, and time-sensitive notices to the e-mail accounts provided by the university. It is the student's responsibility to monitor their university e-mail regularly to ensure that such communication is received. Failure to check e-mail, errors in forwarding e-mail, and returned e-mail due to full mailbox, will not excuse a student from missing announcements or deadlines. Students are expected to use the e-mail account provided by the university to communicate official matters to the university.

Duration of Study

Students are required to make steady progress towards meeting degree requirements and must successfully pass all program components (taught course and thesis/dissertation) within the normal allowed time to completion.

The normal time to complete for a master's program is two years, and the maximum time to complete is 4 years, inclusive of any approved leave of absence.

The normal time to complete a PhD program is four years, and the maximum time to complete is 6 years, inclusive of any approved leave of absence.

Change of Program

To change the current program, a student must submit a program change e-form. The form must be approved by the student's advisor and the department chair of both the student's current program and the student's requested program.

Changes of program are subject to:

1. Space being available in the requested program.
2. The student can change his/her program only once and before the beginning of the second semester.
3. The student should be in good academic standing at the end of the first semester
4. This change should not affect the allotted study duration of the program.

Internships

Internship is a non-credit bearing and non-mandatory experience which students may take advantage of. The experience has a limited duration, defined beginning/end and an internship description. The internship shall consist of a minimum of 150 hours.

There must be clearly defined, and specific learning outcomes which shall be negotiated between the student, academic advisor and employer. The internship shall be conducted with the support of the Student Careers & Alumni team, the Academic Advisor and the internship supervisor.

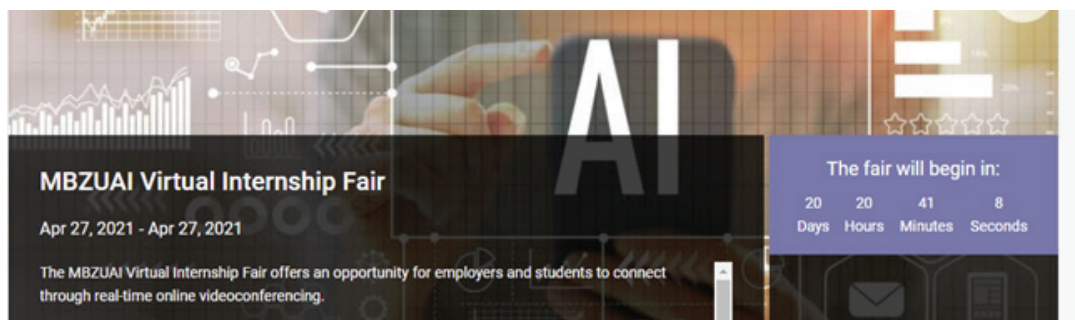
Students are required to:

- Maintain a CGPA of 3.0 or higher;
- Carry a full-time course load.
- This eligibility criteria may be waived by the Department Chair in certain circumstances.
- Students must attend one of the Internship Orientation Workshops conducted by the Student Careers & Alumni team. The student may either select an internship opportunity from the MBZUAI Student Careers & Alumni Portal or discuss with the team if they have found their own opportunity with a different organization.

Internship Procedure:

If an internship has been secured independently:

- Students should book an appointment with the Student Careers & Alumni team who shall support throughout the internship process, including finalizing the details of the internship with the employer.



Applying for an internship opportunity via the MBZUAI Student Careers & Alumni Portal:

- If successfully selected by the employer, the student should inform the Student Careers & Alumni team and meet with their Academic Advisor to discuss the learning outcomes of the proposed internship (within the internship framework provided by the employer). The learning outcomes of the internship and tracking of completed hours should be recorded by the student via the MBZUAI Student Careers & Alumni Portal.
- The Student Careers & Alumni team will support in finalizing the internship. The number of hours per week, and therefore the total number of weeks, shall be agreed between the student, the employer, the MBZUAI Academic Advisor and the Student Careers & Alumni team (bearing in mind the minimum of x150 hours).

Student Responsibilities:

- Students are expected to be diligent, thorough, responsible, and professional with all assigned tasks.
- Students should adhere to the rules and regulations of the company where they are working during the period of the internship. Please also refer to the MBZUAI Student Code of Conduct Policy.
- Confidentiality in the workplace has to be observed at all times including posts regarding the company on social media.
- Non-attendance must be reported to both the employer and the Student Careers & Alumni team.
- Students should try, when possible, to arrange medical appointments out of work hours. Sick leave letters should be submitted to both the employer and the Student Careers & Alumni team.
- Dress and behave in a professional manner, in accordance with the organization's dress code.
- Submit a weekly report to the Internship Supervisor at the host organization and track hours via the MBZUAI Student Careers & Alumni Portal.

Upon completing the Internship:

- The employer shall be asked to submit the Employer Evaluation Form to the Student Careers & Alumni team.
- Students will be asked to complete an Internship Evaluation Form.
- Please note that receiving payment or an appreciation certificate is decided by the employer.

The Internship program will offer students the opportunity to:

- Acquire real-world practical experience in an institution or an organization which would be beneficial in pursuit of an AI career.
- Apply academic learning and classroom theory into practice and enhance professional, technical, entrepreneurship and research skills.
- Align career and employment choices with personal skills and competencies.
- Develop business acumen, understanding of the organization and realize how specific projects relate and contribute to larger business goals.
- Understand business processes and become familiar with the various roles and responsibilities of a variety of AI professionals through participation in routine procedures and activities of the organization.
- Understand workplace culture and develop professional and interpersonal skills necessary to interact with colleagues, staff, and supervisor(s).
- Improve written and oral communication, organizational, and time management skills.
- Grow a professional network and explore post-graduation employment opportunities.

For more information on Internships, refer to the MBZUAI Internship Policy & Procedures. Alternatively you should book a meeting with the Student Careers & Alumni Team.

Grades and Grade Point Average (GPA)

The following grades and guidelines are used at MBZUAI

Grade Letters, Points, Percentages and Descriptors			
Grade	Grade Points	Percentage	Grade Definition
A	4.0	95-100	Exceptional
A-	3.7	89-94	Excellent
B+	3.3	83-88	Very Good
B	3.0	77-82	Good
B-	2.7	71-76	Average
C+	2.3	65-70	Below Average
C	2.0	59-64	
C-	1.7	50-58	
F	Fail	Less than 50	
W	Withdrawal after the add/drop week		

Additional letter grades are used to denote special cases. These letter grades do not have corresponding grade points, and hence are not used in calculating a student's grade point average.

Other Letter Grades	
Grade	Description
I	Incomplete
IP	In Progress
TC	Transfer
W	Withdrawn
EX	Course Exemption

Term or Semester Grade Point Average (SGPA)

The grade point average for a term or semester is calculated by dividing the sum of the quality points earned in that term or semester by the number of credit hours attempted.

Cumulative Grade Point Average (CGPA)

The cumulative grade point average is calculated by dividing the sum of the quality points earned in all terms and semesters by the credit hours attempted in all those terms and semesters.

This average is used to assess the student's overall academic standing at the university.

At the end of each semester, student grade point averages are used in determining academic actions (Good Standing, probation, dismissal, etc.) and scholarship decisions.

Conversely, academic actions and scholarship decisions will be updated if a student's grade point average is altered due to approved faculty grade changes.

How to calculate your GPA

Fall Semester				
Course	Credit Hours	Grade	Grade Value	Quality Points
COM701	3	B	3.00	9.00
CV701	4	A	4.00	16.00
MTH701	4	B	3.00	12.00
Semester Total	11			37.00
Semester GPA = $37 \div 11 = 3.36$				
Spring Semester				
Course	Credit Hours	Grade	Grade Value	Quality Points
AI701	4	B	3.00	12.00
ML701	4	B	3.00	12.00
CV705	4	A	4.00	16.00
Semester Total	12			40.00
Semester GPA = $40 \div 12 = 3.33$				
Cumulative GPA	23			77.00
CGPA = $77 \div 23 = 3.34$				

Grade Changes

Final course grades are officially reported by the instructor at the end of an academic semester and recorded by the Registrar's Office. Officially recorded grades can only be changed with the approval of the Course Instructor and Department Chair. A request to change a grade may be initiated in writing by the student or the course instructor.

A student may appeal an officially recorded grade by submitting a "Change Grade Request Form" within 5 working days of when the final grade was posted to the Registrar's Office. Grade appeals will be processed as per the provisions in Student Affairs Policy Manual.



Course Load

Students admitted to MBZUAI programs are required to maintain a full-time status by registering in a minimum of 11-12 credit hours per semester during the first year. In exceptional circumstances, a student may be approved to carry a reduced credit load upon the approval of the academic advisor, Registrar and the Provost.

Adding/dropping Courses

A student may only change his/her schedule during the add/drop period as designated in the university calendar. If the deadline has passed, a student cannot change their class schedule unless they provide evidence for extenuating circumstances and after the approval of the academic advisor and the Registrar.

Course Withdrawal

A student who encounters unanticipated difficulty in a course may withdraw from a course until the end of the second week from the start of the semester (as per the university calendar) through a “Course Withdrawal Request Form” approved by the student’s academic advisor and approved by the provost

Withdrawing from a course after the deadline results in academic/financial penalty and requires the approval of the academic advisor and the Provost through a “Course Withdrawal Request Form”.

Course restrictions and Prerequisites

Enrollment in some courses may be restricted. For example, a course may be open to students within a specific program or require that a student has master's or Doctoral level standing. In some cases, registration may not be permitted without the approval of the course instructor. A program of study may also require that courses be taken in a certain order or taken together. A course that is required to be taken before another course is called a "pre-requisite". Students are not permitted to register for a course with a pre-requisite unless the pre-requisite course has been completed with a passing grade.

Limitation of courses offered

The University reserves the right to cancel any course listed in the Catalog or scheduled to be offered. Notification of a cancelled course will be sent to any affected students at their University email address.

Class cancelations

On rare occasions, it may be necessary to cancel a scheduled class. Under such circumstances, students will be notified in advance.

Course Feedback

Students are required to give their feedback on all courses at the end of every semester, which ensures the quality of course delivery. Student feedback is further considered during course review and development.

Attendance, Leave of Absence, Withdrawal and Resuming Studies

Attendance

Class attendance is not mandatory unless specified as a requirement in the course syllabus. However, all MBZUAI students are strongly encouraged to attend in person or online synchronous class meetings as there is a correlation between attendance and academic achievement. If attendance is a course requirement, the instructor will keep track of attendance in his/her classroom.

Leave of absence

A student may request a leave of absence for six months only during the period of study at MBZUAI for extenuating circumstances by submitting the “Leave of Absence Request Form”, approved by the academic advisor and the Provost.

If the student requests to extend the leave of absence for another six months, he/she should submit an appeal to the Appeal Committee.

If the student exceeds the approved leave of absence duration without a formal notification, he/she will be considered withdrawn from the university.

Resuming Studies

A student who has been on a “leave of absence” or “suspension” status for a semester or more and would like to resume his/her studies, he/she should submit a “Resume Study Request Form” to the Registrar’s Office.

Annual Leave

Full-time graduate students holding MBZUAI scholarship may be eligible to take annual leave as per the entitlement stated in the scholarship contract. Students must meet, discuss and obtain the approval of their Advisor(s) prior to applying for leave. The Advisor is responsible for guiding the student and approving annual leave requests.

- Students must apply for annual leave at least two weeks prior to the first day of absence.
- Generally, annual leave can be taken only during the official study breaks published in the University Academic Calendar

Withdrawal from the University

A student may voluntarily withdraw from the university after the approval of the Appeal Committee and subject to the terms and conditions of the scholarship contract.

1. Students should be aware they shall pay to the University all expenses to include, tuition fees, monthly allowances, medical expenses, and any other expenses incurred by the University during the period of study.
2. If the student submits legitimate justification for withdrawal to the Appeal Committee, the University may, if it deems necessary, exempt the student from all or some of the obligations stipulated in the scholarship contract.
3. The student should complete the clearance process, which can be initiated by submitting the Application for "Complete Withdrawal from University".

Special Probation

A student who has been granted an academic appeal against dismissal will be placed on "Special Probation" for one semester. The student should achieve a minimum CGPA of 3.0 for that semester to be placed in good standing and continue his/her studies at MBZUAI. If the student could not achieve the required CGPA, then he/she will be academically dismissed, and he/she will not be entitled for any further appeals.

Dismissal

A student will be given academic dismissal from MBZUAI if her/his CGPA remains lower than 3.0 for two consecutive semesters. A student who has been given an academic dismissal from MBZUAI may submit an "Academic Appeal Request".

Students Assessments and Examinations

Assessment and Examination

- All courses must have an approved course assessment plan. It is the responsibility of the faculty teaching a course to include the course assessment plan in the course syllabus and communicate the same, including deadlines, to students at the beginning of the course.
- Faculty members are free to assess students' performance in their classes by using a variety of appropriate assessment methods. Assessment methods include, but are not limited to, written examinations, papers, presentations and projects.
- In-class examinations must be proctored by faculty teaching the course or their designees. In all assessments, students must strictly comply with the policies on academic integrity.
- All course assessments will be graded as per the Grading policy (see 6.6, below).
- Faculty members must keep complete records of student assessments for a minimum period of two (2) years to ensure the accurate calculation of student performance and as a reference in the event of an appeal.
- In the event of late submission of coursework, the faculty member shall decide whether to accept the coursework, apply a penalty for late submission or reject it.
- Students are expected to complete their course(s) in the semester in which they are registered. In exceptional circumstances, a student may be allowed to complete a course in the following semester after securing permission from the course faculty member through an "Incomplete Grade Request Form". A grade of "I" (incomplete) will be assigned for the course. Students must complete the course requirements no later than the first week of the following semester. Failure to meet the deadline, will cause the student to receive a grade of "F" for the course.
- All final grades must be submitted by faculty members into the Student Information System within the deadlines specified by the Registrar. The chair of each program must approve the submitted grades prior to the announcement of final grades by the Registrar's Office.
- A student may appeal a grade issued by MBZUAI. The students' ability to appeal a grade once submitted, is strictly controlled in the context of the Student Grievances and Appeals policy.

Records and Transcripts

- The Registrar is responsible for maintaining all students' personal and academic records, ensuring the privacy and confidentiality of these records, and ensuring compliance with the policies and regulations of MBZUAI. Electronic files will be secured with restricted access.
- Students have the right to review their personal information, academic and educational records, and to update or change their personal data and contact details.
- The Registrar's Office is the only unit who has the authority to print official transcripts.
- Disclosure of information of educational records to anyone within or outside MBZUAI, except as indicated in this policy, requires the student's written consent.
- MBZUAI may have access, without the student's prior consent and without a record being made, to specific student records in which they have a legitimate educational interest. For this purpose, university officials include both academic and administrative personnel. Only those University officials who need to obtain information about the student may have access to that information.
- Educational records may be disclosed, with a student's prior consent, to officials of another educational institution in which the student seeks or intends to enroll, or in which the student is enrolled concurrently. Anonymized Information may be released to government ministries and agencies for compliance or accreditation purposes with approval from the Academic Affairs and Research Division.
- Information related to grades, finances and some personal information is considered to be private. MBZUAI is responsible for the appropriate protection of private information, and holds the individuals who enter, maintain and review this data accountable in this regard.
- Any document that contains non-public information about students or applicants especially sensitive items such as admission applications, letters of recommendation, grades, or private addresses, should receive special handling when retention is no longer needed. It should either be shredded or destroyed in some way that maintains its confidentiality.
- MBZUAI will comply with all applicable laws, regulations and standards in the emirate of Abu Dhabi and the UAE, governing the privacy and integrity of student information.

Graduation and Commencement



A student must successfully pass all program components (taught courses and thesis) within the allowed time and maintain an overall CGPA of 3.0 or better in order to qualify for graduation.

Master's Degree

- A Master's degree consists of 35 credit hours.
- The normal time to complete for a Master's program is two years, and the maximum time to complete is 4 years, inclusive of any approved leave of absence.

Doctoral Degree

- A PhD degree consists of 59 credit hours.
- The normal time to complete a PhD program is four years, and the maximum time to complete is 6 years, inclusive of any approved leave of absence.

Students Rights and Responsibilities

Academic Integrity

MBZUAI seeks to create an environment that promotes academic achievement and integrity, that is protective of free inquiry, and that serves its educational mission. MBZUAI assumes that all students come to the Institute for a serious purpose and expects them to be responsible individuals who demonstrate highest standards of ethical behavior, honesty and academic integrity in their pursuit of knowledge.

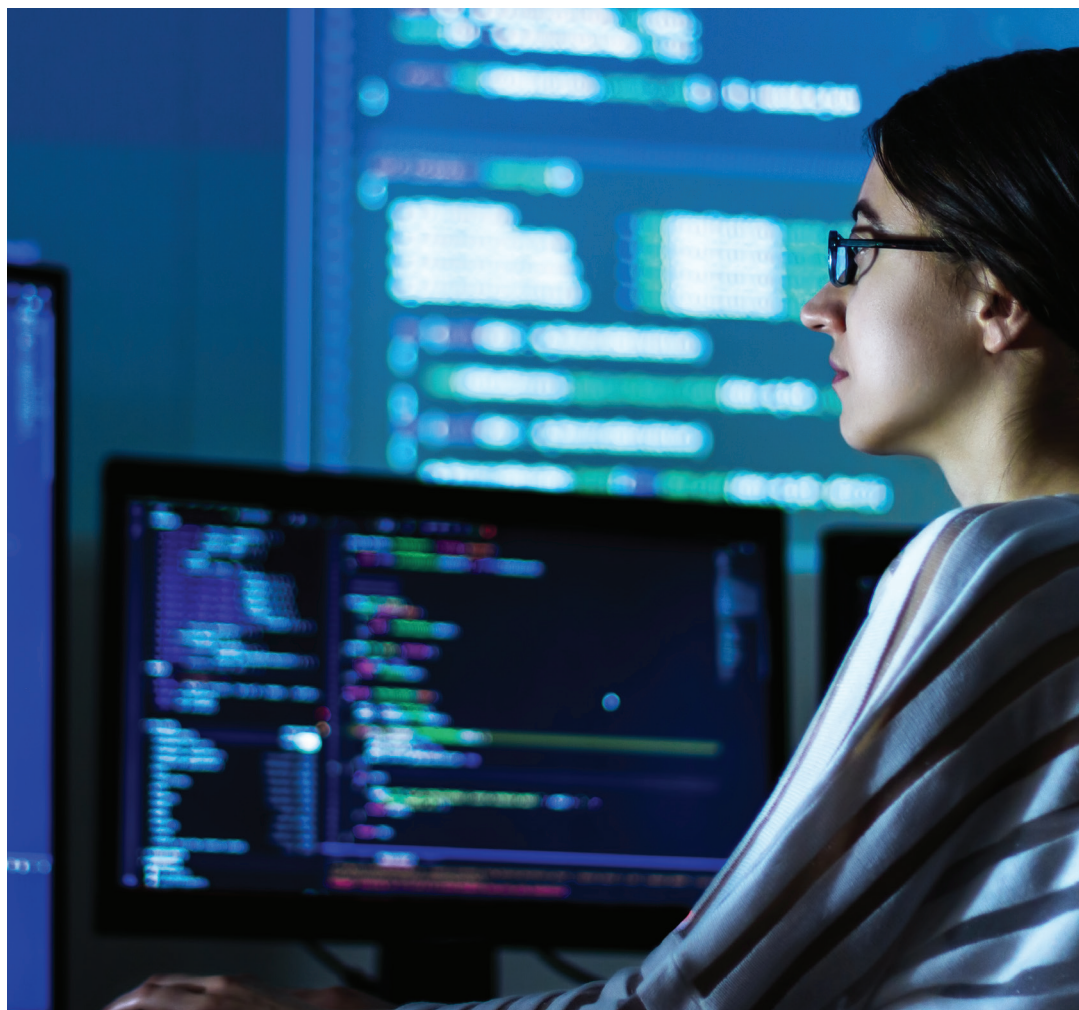
Unethical behavior is not worthy of members of the University community and will be dealt with severely. Academic dishonesty in any form undermines the very foundations of higher education and will not be tolerated.

Academic dishonesty includes, but is not limited to, cheating, fabrication & falsification, misconduct in research, plagiarism, and recycling or multiple submissions.

The Academic Integrity Policy explains in greater detail the behaviors that are considered to be academic misconduct. The Academic Integrity Procedure sets out the steps and processes associated with the policy and clarifies the roles and responsibilities of the Academic Integrity Committee, faculty and students in the academic integrity processes.

Curriculum Development

MBZUAI adheres to a curriculum development policy which encompasses all changes, additions and/or eliminations with respect to academic programs and credit-bearing courses in academic programs. The Program and Curriculum Development, Approval and Revision section of the Academic Programs Policy provides a framework to guide decisions regarding MBZUAI's academic program development, delivery, assessment and improvement.



Graduate Assistant Selection and Engagement

- Students are selected as graduate assistants based on their academic results during their studies and their soft skills and proficiency. Thus, to be eligible for the Graduate Assistantship program, students must fulfil the following criteria:
 - Attain at least B+ in the course that the assistant will contribute to.
 - Demonstrate proficiency in terms of soft skills (e.g., communication and social skills, character or personality traits). Students may be evaluated through an interview conducted by the concerned faculty member or through informal observation.
 - Additional criteria set by the Provost and approved by the President such as previous experience in similar projects or courses, experience in carrying out literature searches, etc.
- Selected students will receive a financial compensation on an hourly basis, decided by the Provost
- The use of graduate assistants should not exceed 6 hours per week.
- The supervisor may assign different tasks to the Graduate Assistant that include, but not be limited to:
 - Preparation of laboratory material.
 - Marking of student assignments.
 - Assistance with exam organization.
 - Marking of exams.

Please refer to the policy and procedure on the SharePoint.

Student Grievances

Grievances Against Grading or Evaluation of Academic Work

Stage 1

If a student suspects that an error has been made in recording a final grade, the initial recourse for the student should be to formally contact the faculty (via email). A student must be able to provide copies of graded assignments along with any other relevant documents to support the appeal. If an error is detected, faculty members should submit a “Change Grade Request Form” to the Registrar with justification copying the department chair within 2 working days from the date of posting the grade.

Stage 2

If a meeting and thorough discussions with the faculty member alone does not resolve the student’s concern, the student should formally (via email) contact the department chair. The department chair will meet with

the student and the faculty member, providing an independent review. If an error is detected, faculty members should submit a “Change Grade Request Form” to the Registrar with justification copying the department chair within 5 working days from the date of posting the grade.

Stage 3

If after having completed both levels of communication, the dispute persists, a student wishing to formally challenge a final grade, must submit an “Appeal Statement Form” to the Appeal Committee within 7 working days of when the final grade was posted, chaired by the Provost.

The following should be completed by the student:

- a. Must be able to demonstrate having followed the above required channels of communication with both the faculty member and department chair.
- b. Must demonstrate that communication with the faculty member regarding the grade was initiated within 5 working days of when the final grade was posted.
- c. Must be able to provide copies of graded assignments along with any other relevant documents to support the appeal.
- d. The student's submission should describe in detail the conditions and factors that led to the perceived grievance and the actions taken during the resolution process.
- e. If a member of the Appeal Committee was in any way involved in a student grievance, they shall recuse themselves and a replacement will be randomly selected from MBZUAI faculty or staff.
- f. The committee investigates and consults with all the parties involved and after consideration of the case, the committee by a majority vote decides on an appropriate action:
 - Dismiss the grievance.
 - Uphold the grievance and address it by instructing appropriate reparations including changes in the student's academic record no later than the end of drop/add week of the following semester as indicated in the university academic calendar.
- g. Decision of the committee is final.

Grievances Against Dismissal, Suspension, and Withdrawal from a Program/ Withholding or Termination of the Scholarship

- a. The student submits an Appeal Form within 3 working days from posting the academic standing or posting the decision which led to the withholding or termination of scholarship to the Appeal Committee.
- b. The student's submission should describe in detail the conditions and factors that led to the perceived grievance and the actions taken during the resolution process.
- c. The committee investigates and consults with all the parties involved and after consideration of the case on an appropriate action as below:
 - Dismiss the grievance.
 - Uphold the grievance and address it by instructing appropriate reparations including changes in the student's academic record/ status no later than the end of drop/add week of the following semester as indicated in the university academic calendar.
- d. Decision of the committee is final.
- e. The final decision should be communicated to all concerned parties.

Student Life and Services

Student Activities

All student entities and clubs are to be formed and governed by the policies and guidelines drawn up by the Student Affairs Department and MBZUAI's vision, mission and strategic objectives.

The Student Affairs Department is committed to offering its students extracurricular activities in the areas of culture, recreation, and sports. Extracurricular activities are to be in line with the MBZUAI's policies and procedures.

The Student Affairs Department is committed to providing the facilities, planning, and resources needed to promote approved student activities.

The Student Affairs Department will aid in the planning and coordination for the successful execution of student activities. The execution of the activity is the responsibility of the organizer(s).

If the activity is to take place off-campus, prior approval and coordination with the Student Affairs Department is mandatory.



Student Council

The Student Council (the Council) at MBZUAI is the elected student body authorized by the University administration to articulate student views and interests and be the voice of students.

Students who stand for election to the Council should meet the following requirements:

- a. A minimum CGPA of 3.0 with a good academic standing status;
- b. A clean deed record and no history of any honor cases; and
- c. Should sign a copy of the code of conduct and abide by its rules

The election of the Council will take place on campus and will be announced by the University administration in liaison with Student Affairs Dept.

Student housing

MBZUAI provides student housing. Living at MBZUAI residences offers students the opportunity to develop their social skills in tandem with their academic potential, while forging lasting friendships and participating in social activities.

Students enrolled at MBZUAI will be entitled to on-campus accommodation for the duration of their study.

Recreation facilities at MBZUAI are limited, but there are a variety of options for sports, leisure and cultural activities exist in the surrounding Masdar community.

They will be provided with accommodation containing en-suite facilities, kitchen and living area with internet connection. Facilities on campus for all students include a gym, multi-purpose areas for sports activities, restaurants, coffee shops, laundry, plus a canteen that is open for breakfast, lunch, and dinner. When visiting the campus, students must collect the key to their on-campus accommodation from the Student Affairs department.

Career services

The Student Careers & Alumni team aims to empower students and graduates to access AI related internship and employment opportunities by offering a high-quality personalized service.

Through the Careers Service

- a. Students will be provided with many opportunities for career preparation and employment by the Student Careers & Alumni team.
- b. Students will have an initial individual assessment.
- c. Students will have the opportunity to explore career options through the provision of accurate and relevant information on AI career pathways.
- d. Students shall be able to book individual appointments via the MBZUAI Student Careers & Alumni Portal to review career needs and identify realistic courses of action to follow-up including developing, evaluating and implementing career, education, employment and entrepreneurial decisions and plans.
- e. Students shall receive support with developing professional materials (Resumes, cover letters, internship/ job applications, LinkedIn and e-portfolios).
- f. The Student Careers & Alumni team will facilitate opportunities for employer engagement including:
 - Internship/Career Fairs;
 - Interviews with employers and relevant research organizations;
 - Networking events – Engagement in conversations with professionals from AI;
 - Employer sessions – Organizations sharing industry knowledge and company insights.
- g. A range of workshops will be offered to help students develop their employability skills and obtain appropriate internship, research and employment opportunities such as networking skills, job search strategies and mock interview preparation.
- h. Students shall have access to a database of internship and job opportunities via the MBZUAI Student Careers & Alumni Portal, achieved through close partnerships with industry.
- i. Sign-posting to other departments and agencies as appropriate (for example, personal counseling).
- j. The Student Careers and Alumni team will develop and recommend appropriate information and resources.

What is expected from students using the Careers Service

- a. Students are expected to keep confirmed appointments with the Student Careers & Alumni team. Students should advise the Student Careers & Alumni team, 24 hours prior to the appointment, if they are unable to attend.
- b. Students are expected to keep confirmed appointments with employers, such as on-campus/ off-campus interviews. Students should advise the Student Careers & Alumni team, 24 hours prior to the interview, if they are unable to attend.
- c. To represent MBZUAI in a professional manner with employers.
- d. For professional materials such as resume/LinkedIn account to be approved by the Student Careers & Alumni team prior to sending to an employer.
- e. To review appropriate resources via the MBZUAI Student Careers & Alumni Portal, prior to attending an employer event AND/OR interview.
- f. To respond to requests for information as needed, for example, up-to-date/ accurate student information, internship, employment and graduation data.



MBZUAI is an independent Government entity and will ensure the highest possible standard of excellence and autonomy in research, analysis and thought leadership to all those working in the university.

MBZUAI creates and distributes insightful and thorough research on Artificial Intelligence and its numerous applications within the region and internationally.

Academic research initiatives will be conducted by the Academic Affairs and Research Division, whereas the non-academic research initiatives will be overseen mainly by the Outreach and Engagement Division, supported by the Academic Affairs and Research Division, in collaboration with UAE public entities, external organizations or UAE/external individuals.

Students will work on research projects in consultation with their supervisory committee, comprising of domain experts among the MBZUAI faculty.

MBZUAI students shall be bound by confidentiality regulations, as defined by the applicable laws and regulations in UAE in matters related to internal research projects (commissioned and non-commissioned).

Student conduct

Students should conduct themselves in a manner that contributes positively to the university environment in which respect, civility, diversity, opportunity, and inclusiveness are valued.

They are expected to act honestly and responsibly and respect the University regulations, policies and guidelines to assure the success of both the individual and the community. Any student at MBZUAI must respect other students, faculty members, staff and the public.

The Code of Conduct sets out the right and responsibilities of students at MBZUAI.

The purpose of the Code is to:

- a. Inform students of their rights and responsibilities
- b. Define the general standard of conduct expected of students
- c. Provide examples of conduct that may be subject to disciplinary action.
- d. Clarify the procedures that the University will follow to address allegation and cases of non-academic misconduct.
- e. Provide examples of disciplinary measures and potential sanctions that may be imposed by the University in case of violations
- f. Students are expected to be aware of, and to conduct themselves in accordance with the Code.

Learning Resources

MBZUAI has an equipped library and technological resource on campus to assist students in the effective completion of their academic work and research assignments. The following facilities are available to students on campus: Library, technology and computer-based services & Research Laboratories.



The MBZUAI Library provides print and electronic resources, facilities, and services to support the academic, research and professional information needs of the students, faculty, and staff of MBZUAI.

Membership

The library is open for the purpose of study and research to enrolled MBZUAI students, current faculty and staff, alumni, visiting researchers, and approved guests.

Collections

Collection development focuses on scholarly and academic publications in the field of artificial intelligence, and additional resources are collected to support professional, teaching and learning needs and interests. All resources are discoverable through the library's single-search interface and materials available for borrowing include books, periodicals, course reserve materials and equipment. All physical library items are protected against loss through the library's RFID system.

- Physical collections are classified and arranged according to the Library of Congress Classification System.
- Open collections (Main Collection, Reference, and Periodicals) are browsable.
- Access to closed collections (Course Reserve Collections) is mediated by library staff.
- Licensed electronic resources include bibliographic and full-text content and are available to enrolled students through university-provided credentials.
- Access to faculty open access scholarship and MBZUAI student theses and dissertations will be available through an institutional repository.
- Multiple copies of student textbooks are not typically purchased by the library however the library will maintain a limited number of copies of required textbooks that are only available in print and make these available on Course Reserve (short-term loans) to students.
- Access to electronic textbooks is available through library eBook platforms or eRental platforms.

Facilities

The library provides stable Wi-Fi, study space, printing and scanning facilities, hourly use of laptops, access to course reserve and other collections, and an opportunity to consult with library staff on resource and research needs in person.

Services

Students are provided with personal library accounts (My Account) to renew books, place holds, review outstanding fines and fees, and create booklists. Other eServices include title recommendations, interlibrary loan requests, facility bookings, and resource and research consultations.

Librarians provide and/or host instruction, and research and resource support for MBZUAI students through scheduled sessions and individual consultations, onsite and online.

Inter-library loans (ILL) and document delivery services are available to support students' research needs not met by the library, and if available from a partner library or document delivery service. Quotas may be applied, and materials obtained through ILL are strictly intended for individual use.

A digital library (institutional repository) will be maintained by the library to curate and disseminate faculty scholarship and MBZUAI student theses and dissertations. Students are required to submit a digital copy of a correctly formatted and approved thesis/dissertation to meet graduation requirements.

Loan rules and periods

Student identification is required to borrow physical materials and university provided credentials are required to access licensed electronic content.

- Main collection material is available for long term borrowing (three weeks or longer) by enrolled students, faculty, and staff of MBZUAI.
- High demand material, including course reserve items and equipment, is available for short-term borrowing and access may be restricted to in-library use.

- Items located in Reference, Periodicals, Special Collections & Archives are normally not available for circulation outside the library (non-circulating).
- Electronic content may have indefinite or varying periods of loan and can be accessed via the library's website or individual URL links provided on the learning management system (Moodle).

Materials are checked-out and returned at staffed circulation desks or through available shelf-service systems. All patrons remain responsible for items checked out on their names.

- Overdue notices are sent as a courtesy.
- Fines may be levied for the late return of items, in accordance with notices displayed in the library and on the library's website and are charged at rates determined and approved annually by the Academic Committee.
- Fines will continue to accumulate until an item is returned or reported missing, and up to 20 days for long-term loans and 50 hours for short-term loans, at which stage patrons will receive a statement for the replacement cost, including administrative charges and accumulated fines. Exceptions may apply.
 - o Students are required to clear all outstanding fines and fees directly with Department of Finance and borrowing privileges will be suspended for students with outstanding fines and fees of AED 300.00 or more
- Items that may not be renewed online through the My Account service include recalled and overdue items, course reserve items, and books borrowed from another library (interlibrary loans).
- Patrons may request a hold on an item currently checked out to another patron and the library reserves the right to recall an item. All items may be recalled for inventory purposes at the end of each semester.

All borrowing policies and fines are published on the Library website > Services > Borrowing policies.

Library Hours

Library opening hours support access to physical resources, facilities, and library services.

Current service hours

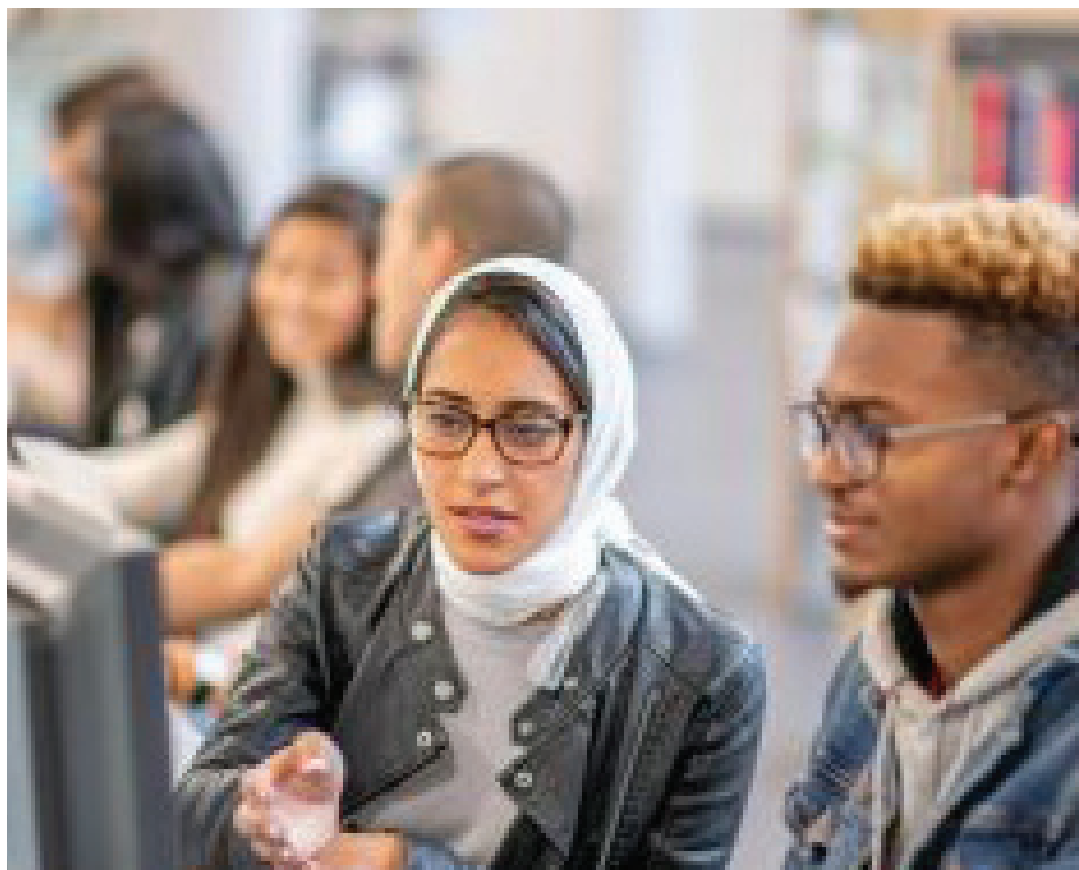
- Sunday to Thursday: 8:00 – 17:00
- Friday & Saturday: Closed
- Closed on public holidays and as announced.
- Access to electronic resources through the library's website, is available 24/7, on and off campus.

Use of Resources and Facilities

Students are expected to acquaint themselves with the library's policies and regulations and refrain from any behavior that interferes with the right of others to access resources or use the library for the purpose of research and study. Library staff are empowered to interpret and enforce library policies, suspend privileges, and refer serious breaches of conduct to the Director of Student Affairs.

- Facilities and equipment, including the library computers, are intended to support MBZUAI academic and research programs and use may be mediated to ensure equitable access and appropriate use.
- The use of computing and network resources, and licensed electronic resources must comply with the university's policies, licenses, contracts, and applicable laws.
- The use of the library's printing and scanning equipment for the reproduction of copyright protected material requires compliance with copyright laws and conventions.
- Posting notices, taking photos or video recording in the library, requires permission from the Head of Library Management.
- With the exception of covered drinks like coffee and tea, no food or drinks should be consumed in the library and single-use plastic is discouraged.

[For more information, please refer to the MBZUAI Library Resources and Services Policy](#)



MBZUAI has the most advanced AI labs in the region, equipped with the best-in-class technologies for AI, including state-of-the-art computing labs, core lab facilities, industry labs and as well as departmental and faculty managed laboratories.

The labs represent a key enabler for MBZUAI learning and knowledge development. They are available for faculty, students, and researchers to support both teaching and research needs in terms of computing resources.

Three types of labs will be available:

- a. High Performance Computing Lab: Equipped with powerful workstations having NVIDIA Quadra RTX GPUs, data storages; along with commercial and academic software for numerical and scientific computing for students to meet their various academic and research needs.
- b. Data Acquisition Lab: Deployed with special equipment with latest technology such as camera systems, thermal imagers, dynamic vision sensors, acquisition systems, and drones.
- c. Demo/ Visualization Lab: Equipped with high-resolution tiles display monitors used for research visualization. We have built highly advanced computing labs incorporating latest visualization technologies to support the delivery of research and educational products.

Administration and Important Information

UAE Entry Permit and Residency Visa

Students must have a valid Entry Visa to enter the UAE (Depending on their nationality). This permit will be issued and sent prior to leaving home. The validity of the visa depends on rules at the current time; they may be valid for 30 or 60 days from the date of issue. Therefore, entry to the UAE must be within this period.

For the initial processing of the Entry Permit(s) and insurance procedures, students will need to send the Education Certificate (Bachelors/Masters), photocopy of the passport, and color passport photo with white background. Please send the requested documents to Admission@mbzuai.ac.ae.

It should be noted that there should be at least six months' validity on passports for entry into the UAE and application for the Residence Visa.

When all of the relevant documents have been received, the Admissions Office will process and email a copy of the Entry Permit(s).

Students will need to show a copy of the Entry Permit to the airline/Immigration at their point of departure. Students with certain nationalities must undergo a pre-medical test and pre-approval for the entry Permit in the home country through the UAE consulate before their departure.

Upon arrival in the UAE, PRO will handle the Residence Visa procedures. The Residence Visa will be stamped on the passport.

To start these procedures, students should report to Student Affairs Office, as soon as possible after their arrival, with the following documents:

- Original Entry Permit.
- Passport.

Public Relations Officer (PRO) will book an appointment for the medical test, Emirates ID application typing, fingerprint scan (for the Emirates ID) and issue health insurance to complete the required documents for the Residence Visa.

Emirates ID Card

As per the law of the Population Registry and the Identity Card program, all nationals and legal residents of the UAE must obtain the Emirates Identity Card.

Students will be required to obtain an Emirates ID card for themselves and MBZUAI will reimburse the cost of the Emirates ID card.

For further information, please see www.emiratesid.ae.

Driving License

To obtain a driving license, students should visit the Abu Dhabi Police Department's Office. Regulations for obtaining a driving license vary by nationality. Therefore, this department will advise of the latest regulations and provide guidance regarding the process required for obtaining a driving license.

Note: Students can only apply for a driving license when they have obtained their Residence Visa.

Embassies and Consulates

There are many foreign embassies and consulates located in Abu Dhabi and Dubai.

Embassies and consulates are generally open from 8:45 a.m.–1:30 p.m. All are closed on Fridays, and some also on Saturdays.

Some embassies have websites while others do not. For a comprehensive list of embassies and consulates in the UAE, please see: www.indexuae.com/Top/Government/Embassies_and_Consulates.

Dress Code

MBZUAI has a multi-cultural environment that respects the norms of UAE society. Students must not behave or dress in a way that may offend cultural sensitivities. The following points must be observed regarding student dress at the university.

- No offensive wording, drawings, or pictures are allowed on clothing.
- Clothing or attire must not interfere with the safe operation of duties or equipment.
- In respect for the needs for identification and security, we request all female students to forgo the face covering veils while on campus.
- Students should not wear revealing clothes. "Revealing clothes" refers to clothing that has very sheer fabric or clothing that is tight. Blouses, etc. should have no cleavage visible. The lower back, abdomen and upper arms should be covered. Skirts should be below the knee.
- All students are to wear appropriate business attire when representing the Institute on official trips such as conferences, summits and meetings with external organizations.

Examples of acceptable clothing:

- Female Students -UAE National attire, long skirts/pants/dresses with length that covers the knees, long sleeve blouses, smart T-Shirts, jumpers, jackets, and suits (note: no sleeveless)
- Male Students- UAE National attire, business suits, sports jackets, blazers, trousers/slacks, smart T-Shirts and shirts

Electricity

Electricity is 220 volts at 50 cycles per second. Transformers are readily available in the market for electronic equipment that runs on 110 volts. If students bring their personal computer for use in their home, they will need to purchase a transformer. Some computers switch either manually or automatically from 110 to 220 volts.

UAE Newspapers

Newspapers are readily available in both English and Arabic, and delivery is available to campus housing. To view the comprehensive list of available newspapers please view the following link: <http://www.onlinenewspapers.com/une.htm>

Potable water

Tap water in the Emirates is safe to drink. However, most people prefer bottled water, which can be delivered to individual house accommodations weekly, at a cost of approximately 10 Dirhams per five-gallon bottle.

Useful Websites

For additional information on working and living in the United Arab Emirates, the following websites will prove useful.

<http://visitabudhabi.ae/en/default.aspx>

<https://www.abudhabi.ae/portal/public/en/homepage>



Master of Science in Computer Vision

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), Skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 9 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L9	-	-	-	-
PLO2	K2-L9	S1-L9	-	-	-
PLO3	-	S2-L9	-	-	-
PLO4	-	S3-L9	-	RC1-L9	-
PLO5	-	-	AR1-L9	-	-
PLO6	K3-L9	-	-	RC2-L9	SD1-L9
PLO7	-	-	-	-	SD2-L9
PLO8	-	-	AR2-L9	-	SD3-L9

Aligning Program Learning Outcomes for Masters in Computer Vision to QF Emirates Level 9 Framework

Program Learning Objectives

Upon completion of the Program requirements, the graduate will be able to:

1. Exhibit comprehensive and highly specialized knowledge of computer vision in line with the underlying mathematical and computational principles. (Knowledge)
2. Perform critical literature survey and develop new ideas by integrating multidisciplinary knowledge. (Knowledge + Skill)
3. Apply advanced problem-solving skills to analyze, design and execute solutions for the existing and new problems in computer vision faced by both industry and academia. (Skill)
4. Become highly skilled in initiating, managing, and completing multifaceted computer vision projects, and be able to clearly communicate concepts, complex ideas and conclusions both orally and in the form of technical reports. (Skill + Role in Context)
5. Function independently and in a team to address computer vision problems under complex and unpredictable real-world settings. (Autonomy and Responsibility)
6. Demonstrate a fundamental understanding of computer vision discipline at an advanced level suitable to pursue a PhD degree and contribute to cutting-edge computer vision research to produce new knowledge or take responsibility to lead innovative and impactful computer vision projects in industry. (Self-Development, Knowledge + Role in Context)
7. Manifest the right learning attitude during coursework and research that clearly shows ownership, personal and technical growth and responsibility. (Self-development)
8. Understand legal, ethical, environmental and socio-cultural ramifications of computer vision technologies, and be able to make informed and fair decisions on complex practical issues. (Autonomy and Responsibility + Self-development)

Program Semester Plan

The tentative semester plan for the program is given below. The students are expected to complete course work in the first year of degree and focus more on the research project and thesis writing in the second year. However, this is an indicative plan and students have the flexibility to take light course load in the second year as well and similarly can start research project in the first year (e.g., literature review, background study, data collection or initial framework design) with the approval of their supervisory panel.

Year 1		Year 2	
Semester 1	Semester 2	Semester 1	Semester 2
Course work	Course work	Research work	Research work

Program Degree Requirements

Completion Requirements

The minimum degree requirements for the Master of Science in Computer Vision are 35 Credits, distributed as follows:

Core Courses	4 Courses	15 Credit Hours
Elective Courses	2 Courses	8 Credit Hours
Research Thesis	1 Research Thesis	12 Credit Hours

The Program Curriculum

Core Courses

MS in Computer Vision is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, and other core courses as mandatory courses. Students are also expected to take two additional elective courses from a wide pool of elective courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project.

The core courses must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the Master of Computer Vision are listed in the below table. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP 703	Speech Processing	4

Research Thesis

Master's thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Master's thesis research helps train graduates to pursue more advanced research in their PhD degree. For further details on research thesis,

Please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
CV699	Masters Research Thesis	12

Master of Science in Machine Learning

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), Skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 9 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L9	-	-	-	-
PLO2	-	S1-L9	-	-	-
PLO3	K2-L9	-	-	-	-
PLO4	K3-L9	S2-L9	-	-	-
PLO5	K4-L9	S3-L9	-	-	-
PLO6	-	S4-L9	-	-	-
PLO7	-	-	AR1-L9	RC1-L9	-
PLO8	-	-	AR2-L9	RC2-L9	SD1-L9

Aligning Program Learning Outcomes for Master in Machine Learning to QF Emirates Level 9 Framework

Program Learning Objectives

Upon completion of the program requirements, the graduate will be able to:

1. Exhibit highly-specialized understanding of the modern machine learning pipeline: data, models, algorithmic principles, and empirics. (Knowledge)
2. Achieve advanced skills in data-preprocessing and using various exploration and visualization tools. (Skill)
3. Demonstrate critical awareness of the capabilities and limitations of the different forms of learning algorithms. (Knowledge)
4. Obtain advanced capabilities to critically analyze, evaluate, and continuously improve the performance of the learning algorithms. (Knowledge, Skill)
5. Acquire advanced abilities to analyze computational and statistical properties of advanced learning algorithms and their performance. (Knowledge, Skill)
6. Gain expertise in using and deploying ML-relevant programming tools for a variety of complex ML problems. (Skill)
7. Develop advanced problem-solving skills through independently applying machine learning methods to multiple complex problems and demonstrate expertise in dealing with ambiguity in a problem statement. (Autonomy, Role in Context).
8. Apply sophisticated skills in initiating, managing, and completing multiple project reports and critiques on variety of machine learning methods, that demonstrate expert understanding, self-evaluation, and advanced skills in communicating highly-complex ideas. (Autonomy, Role in Context, Self-Development).

Program Semester Plan

The tentative semester plan for the program is given below. The students are expected to complete course work in the first year of degree and focus more on the research project and thesis writing in the second year. However, this is an indicative plan and students have the flexibility to take light course load in the second year as well and similarly can start research project in the first year (e.g., literature review, background study, data collection or initial framework design) with the approval of their supervisory panel.

Year 1		Year 2	
Semester 1	Semester 2	Semester 1	Semester 2
Course work	Course work	Research work	Research work

Program Degree Requirements

Completion Requirements

The minimum degree requirements for the Master of Science in Machine Learning are 35 Credits, distributed as follows:

Core Courses	4 Courses	15 Credit Hours
Elective Courses	2 Courses	8 Credit Hours
Research Thesis	1 Research Thesis	12 Credit Hours

Program Courses

Program Core Courses

MS in Machine Learning is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, and other core courses as a mandatory course. Students are also expected to take two additional elective courses from a pool of 15 courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

All of the core courses must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the Master of Machine Learning are listed in the below table. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP703	Speech Processing	4

Research Thesis

Master's thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Master's thesis research helps train graduates to pursue more advanced research in their PhD degree. For further details on research thesis,

Please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
ML699	Masters Research Thesis	12

Master of Science in Natural Language Processing

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 9 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L9	-	-	-	-
PLO2	K2-L9	-	-	-	-
PLO3	-	S1-L9	-	RC1-L9	-
PLO4	-	-	-	RC2-L9	-
PLO5	-	S2-L9	-	-	-
PLO6	-	-	-	-	SD1-L9
PLO7	-	-	AR1-L9	RC3-L9	-

Aligning Program Learning Outcomes for Master in Natural Language Processing to QF Emirates Level 9 Framework

Program Learning Objectives

Upon completion of the program requirements, the graduate will be able to:

1. Demonstrate highly specialized understanding of the computational techniques for analysing and modelling textual and speech data with applications to real-world scenarios. (Knowledge)
2. Have a deep understanding of the syntactic and semantic structures in speech and textual data (e.g. the predicate-argument structure). (Knowledge)
3. Obtain advanced capabilities to implement the cutting-edge NLP algorithms, and benchmark the achieved results. (Skill, Role in context)
4. Have the capability to formulate own research questions, analyse the existing body of knowledge, propose and develop solutions to new problems. (Autonomy and responsibility, Role in context)
5. Obtain expertise in using and deploying NLP related programming tools for a variety of NLP problems. (Skill)
6. Work independently as well as part of a team, in a collegial manner, on NLP related projects. (Autonomy and responsibility, Self Development)
7. Effectively communicate experimental results and research findings orally and in writing, and critique existing body of work. (Role in context)

Program Semester Plan

The tentative semester plan for the program is given below. The students are expected to complete course work in the first year of degree and focus more on the research project and thesis writing in the second year. However, this is an indicative plan and students have the flexibility to take light course load in the second year as well and similarly can start research project in the first year (e.g., literature review, background study, data collection or initial framework design) with the approval of their supervisory panel.

Year 1		Year 2	
Semester 1	Semester 2	Semester 1	Semester 2
Course work	Course work	Research work	Research work

Program Degree Requirements

Completion Requirements

The minimum degree requirements for the Master of Science in Natural Language Processing are 35 Credits, distributed as follows:

Core Courses	4 Courses	15 Credit Hours
Elective Courses	2 Courses	8 Credit Hours
Research Thesis	1 Research Thesis	12 Credit Hours

Program Courses

Program Core Courses

MS in Natural Language Processing is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, and other core courses as a mandatory course. Students are also expected to take two additional elective courses from a pool of 15 courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

All four core courses must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP703	Speech Processing	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the Master of Natural Language Processing are listed in the below table. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4

Research Thesis

Master's thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Master's thesis research helps train graduates to pursue more advanced research in their PhD degree. For further details on research thesis,

Please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
NLP699	Masters Research Thesis	12

Doctor of Philosophy in Computer Vision

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), Skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 10 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L10	-	-	-	-
PLO2	K2-L10	S1-L10	-	-	-
PLO3	-	S2-L10	-	-	-
PLO4	-	S3-L10	AR1-L10	-	-
PLO5	-	S4-L10	-	-	-
PLO6	-	-	AR2-L10	RC1-L10	-
PLO7	K3-L10	-	-	-	SD1-L10
PLO8	-	-	-	-	SD2-L10
PLO9	-	-	AR3-L10	-	SD3-L10

Aligning Program Learning Outcomes for PhD in Computer Vision to QF Emirates Level 10 Framework

Program Learning Objectives

Upon completion of the Program requirements, the graduate will be able to:

1. Master the fundamental knowledge of computer vision and develop expertise in several specialized areas of research in computer vision. (Knowledge)
2. Grow expertise in comprehending existing literature, apply reasoning, and master necessary skills and techniques to develop novel ideas that are recognized by the experts of the computer vision discipline. (Knowledge + Skill)
3. Apply advanced problem-solving skills to analyze, design and execute innovative solutions for the existing and/or new problems faced in both industry and academia. (Skill)
4. Highly skilled in initiating, managing and completing technically challenging computer vision projects and be able to clearly communicate concepts, highly-complex ideas and key findings in the form of technical reports, scientific publications and oral presentations at relevant technical venues. (Skill + Autonomy)
5. Become an expert in selecting and using programming tools, libraries and other relevant resources to solve real-world computer vision problems. (Skill)
6. Develop advanced ability to work independently with substantial authority or in team collaboration with professional integrity to complete highly challenging computer vision projects in a timely manner. (Autonomy and Responsibility + Role in Context)
7. Develop deep understanding of existing body of knowledge and the ability to develop new knowledge in computer vision that makes students suitable for a role in academia or industry. (Knowledge + Self-development)
8. Practice research ethics and commit to professional responsibilities while conducting cutting edge advancements in computer vision discipline. (Self-development)
9. Understand legal, ethical, environmental and socio-cultural ramifications of computer vision technologies, and be able to take a lead in making informed and fair decisions on complex issues. (Autonomy and Responsibility + Self-development)

Program Semester Plan

The tentative semester plan for the program is given below. The students are expected to complete course work in the first year of degree and focus more on the research project and thesis writing in the subsequent three years. However, this is an indicative plan and students have the flexibility to take light course load in the second year as well and similarly can start research project in the first year (e.g., literature review, background study, data collection or initial framework design) with the approval of their supervisory panel.

Year 1		Year 2-4	
Semester 1	Semester 2	Semester 1	Semester 2
Course work	Course work	Research work	Research work

Program Degree Requirements

Completion Requirements

The minimum degree requirements for the PhD in Computer Vision are 59 Credits, distributed as follows:

Core Courses	4 Courses	15 Credit Hours
Elective Courses	2 Courses	8 Credit Hours
Research Thesis	1 Research Thesis	36 Credit Hours

Program Courses

Program Core Courses

PhD in Computer Vision is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, as a mandatory course. They can select three core courses from a concentration pool of 6 in the list provided below. Students are also expected to take two additional elective courses from the given pool of courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project. Masters Leading to PhD students will be allowed to transfer credits for 3 courses. For full descriptions of courses, please refer to Appendix 1: Courses Descriptions:

Select any 3 of 6 in consultation with the student's graduate supervisory committee.

* COM701 must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4
CV704	Advanced Computer Vision	4
CV705	Advanced 3D Computer Vision	4
CV706	Neural Networks for Object Recognition and Detection	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the PhD in Computer Vision are listed in the below table.

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4
ML704	Machine Learning Paradigms	4
ML705	Topics in Advanced Machine Learning	4
ML706	Advanced Probabilistic and Statistical Inference	4
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP703	Speech Processing	4
NLP704	Deep Learning for Language Processing	4
NLP705	Topics in Advanced Natural Language Processing	4
NLP706	Advanced Speech Processing	4

Research Thesis

PhD thesis research exposes students to cutting-edge and unsolved research problems in the field of Computer Vision, where they are required to propose new solutions and significantly contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 3 to 4 years. For further details on research thesis,

Please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
CV799	PhD Research Thesis	36

Doctor of Philosophy in Machine Learning

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), Skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 10 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L10	-	-	-	-
PLO2	-	S1-L10	-	-	-
PLO3	K2-L10	-	-	RC1-L10	-
PLO4	-	S2-L10	-	-	-
PLO5	K3-L10	S3-L10	-	-	-
PLO6	-	S4-L10	-	-	-
PLO7	-	-	AR1-L10	RC2-L10	-
PLO8	-	-	-	RC3-L10	SD1-L10
PLO9	-	-	AR2-L10	RC3-L10	SD2-L10

Aligning Program Learning Outcomes for PhD in Machine Learning to QF Emirates Level 10 Framework

Program Courses

Program Core Courses

PhD in Machine Learning is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, a mandatory course. They can select three core courses from a concentration pool of 6 in the list provided below. Students are also expected to take two additional elective courses from a pool of elective courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project. Masters Leading to PhD students will be allowed to transfer credits for 3 courses.

Select any 3 of 6 in consultation with the student's graduate supervisory committee.

* COM701 must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4
ML704	Machine Learning Paradigms	4
ML705	Topics in Advanced Machine Learning	4
ML706	Advanced Probabilistic and Statistical Inference	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the PhD in Machine Learning are listed in the below table.

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4
CV704	Advanced Computer Vision	4
CV705	Advanced 3D Computer Vision	4
CV706	Neural Networks for Object Recognition and Detection	4
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP703	Speech Processing	4
NLP704	Deep Learning for Language Processing	4
NLP705	Topics in Advanced Natural Language Processing	4
NLP706	Advanced Speech Processing	4

Research Thesis

PhD thesis research exposes students to cutting-edge and unsolved research problems in the field of Machine Learning, where they are required to propose new solutions and significantly contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 3 to 4 years. For further details on research thesis,

please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
ML799	PhD Research Thesis	36

Doctor of Philosophy in Natural Language Processing

National Qualifications Framework 5 Strands

The program outcomes are aligned with Emirates Qualifications Framework and as such are divided in the following learning outcomes strands: Knowledge (K), Skills (S), Autonomy and Responsibility (AR), Self-Development (SD), and Role in Context (RC). The PLOs are mapped to level 10 according to the 5 strands of learning outcomes as per the National Qualifications Framework set by the UAE National Qualifications Authority (NQA) and the Ministry of Education (MoE):

Program Learning Objectives	Knowledge	Skill	Aspects of Competence		
			Autonomy and Responsibility	Role in Context	Self-Development
PLO1	K1-L10	-	-	-	-
PLO2	K2-L10	S1-L10	-	RC1-L10	-
PLO3	K3-L10	-	-	RC2-L10	-
PLO4	-	S2-L10	AR1-L10	RC3-L10	-
PLO5	-	S3-L10	-	-	-
PLO6	-	-	AR2-L10	-	SD1-L10
PLO7	-	-	-	RC4-L10	SD2-L10
PLO8	-	-	AR3-L10	RC5-L10	-

Aligning Program Learning Outcomes for PhD in Natural Language Processing to QF Emirates Level 10 Framework

Program Learning Objectives

Upon completion of the program requirements, the graduate will be able to:

1. Develop a deep and comprehensive understanding of cutting-edge NLP algorithms with applications to real-life scenarios (Knowledge)
2. Implement, evaluate and benchmark existing state-of-the-art in NLP scholarly publications and weigh in their respective pros and cons. (Knowledge, Skills, Role in context)
3. Grow capabilities to identify open research problems, the gaps in the existing body of knowledge, and formulate new research questions. (Knowledge, Role in context)
4. Independently develop innovative solutions, through extensive research and scholarship, to resolve unsolved research problems in high-impact real-life applications of NLP. (Skills, Role-in-context, Autonomy and responsibility)
5. Demonstrate expert knowledge and highly specialized cognitive and creative skills in NLP to deliver state of the art solutions to existing open research problems. (Skills)
6. Pursue an NLP project either independently, or as part of a team in a collegial manner, with minimal supervision. (Autonomy and responsibility, Self-development)
7. Initiate, manage, and complete research manuscripts that demonstrate expert self-evaluation and advanced skills in scientifically communicating highly-complex ideas. (Role in context, Self-development).
8. Develop highly sophisticated skills in initiating, managing, and completing multiple project reports and critiques, on a variety of NLP problems, that demonstrate expert understanding and advanced skills in communicating highly-complex ideas. (Autonomy, Role in Context).

Program Semester Plan

The tentative semester plan for the program is given below. The students are expected to complete course work in the first year of degree and focus more on the research project and thesis writing in the subsequent three years. However, this is an indicative plan and students have the flexibility to take light course load in the second year as well and similarly can start research project in the first year (e.g., literature review, background study, data collection or initial framework design) with the approval of their supervisory panel.

Year 1		Year 2-4	
Semester 1	Semester 2	Semester 1	Semester 2
Course work	Course work	Research work	Research work

Program Degree Requirements

Completion Requirements

The minimum degree requirements for the PhD in Natural Language Processing are 59 Credits, distributed as follows:

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Research Thesis	1 Research Thesis	36 Credit Hours

Program Courses

Program Core Courses

PhD in Natural Language Processing is primarily a research-based degree. The purpose of coursework is to equip students with the right skillset, so they can successfully accomplish their research project (thesis). Students are required to take COM701, a mandatory course. They can select three core courses from a concentration pool of 6 in the list provided below. Students are also expected to take two additional elective courses from a pool of elective courses. To accommodate a diverse group of students, coming from different academic backgrounds, students have been provided with flexibility in course selection. The decision on the courses to be taken will be made in consultation with students' supervisory panel, which will comprise of two or more faculty members. Essentially, the student's supervisory panel will help design a personalized coursework plan for each individual student, by looking at their prior academic track record and experience, and the planned research project. Masters Leading to PhD students will be allowed to transfer credits for 3 courses.

Select any 3 of 6 in consultation with the student's graduate supervisory committee.

* COM701 must be taken by all students.

Code	Course Name	Credit Hours
COM701	Research Communication and Dissemination*	3
NLP701	Natural Language Processing	4
NLP702	Advanced Natural Language Processing	4
NLP703	Speech Processing	4
NLP704	Deep Learning for Language Processing	4
NLP705	Topics in Advanced Natural Language Processing	4
NLP706	Advanced Speech Processing	4

Program Elective Courses

Students will select a minimum of 2 elective courses, with a total of 8 (or more) credit hours (CR) from a list of available elective courses based on interest, proposed research thesis, and career perspectives, in consultation with their supervisory panel. The elective courses available for the PhD in Natural Language Processing are listed in the below table.

Select any 2 or more courses in consultation with the student's graduate supervisory committee.

Code	Course Name	Credit Hours
MTH701	Mathematical Foundations for Artificial Intelligence	4
MTH702	Optimization	4
AI701	Artificial Intelligence	4
AI702	Deep Learning	4
DS701	Data Mining	4
DS702	Big Data Processing	4
HC701	Medical Imaging: Physics and Analysis	4
CV701	Human and Computer Vision	4
CV702	Geometry for Computer Vision	4
CV703	Visual Object Recognition and Detection	4
CV704	Advanced Computer Vision	4
CV705	Advanced 3D Computer Vision	4
CV706	Neural Networks for Object Recognition and Detection	4
ML701	Machine Learning	4
ML702	Advanced Machine Learning	4
ML703	Probabilistic and Statistical Inference	4
ML704	Machine Learning Paradigms	4
ML705	Topics in Advanced Machine Learning	4
ML706	Advanced Probabilistic and Statistical Inference	4

Research Thesis

PhD thesis research exposes students to cutting-edge and unsolved research problems in the field of Natural Language Processing, where they are required to propose new solutions and significantly contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 3 to 4 years.

please refer to Appendix 1: Courses Descriptions:

Code	Title	Credit Hours
NLP799	PhD Research Thesis	36



Appendix 1: Courses Descriptions

Teaching plan of courses throughout a semester:

COM 701(3CR)

1 lecture per week of 2 hours,
1 lab per week of 2 hours.

All remaining courses (4CR)

2 lectures per week, each lecture of
1.5 hours, 1 lab per week of 2 hours.

AI701: Artificial Intelligence (4CR)

Pre-requisites: None

Core Course for : None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

This course provides the students a comprehensive introduction to modern artificial intelligence (AI), and some of its representative applications. The students will be familiarized with both the historical and recent AI techniques that have proven successful in building practical systems.

AI702: Deep Learning (4CR)

Pre-requisites: None

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

This course provides a comprehensive overview of different concepts and methods related to deep learning. Students will first learn the foundations of deep learning, after which they will be introduced to a series deep models: convolutional neural networks, autoencoders, recurrent neural network, and deep generative models. Students will work on case studies of deep learning in different fields such as computer vision, medical imaging, natural language processing, etc.

COM701: Research Communication and Dissemination (3CR)

Pre-requisites: None

Core Course for : MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

Elective Course for: None

In this course, students will learn how to effectively communicate and disseminate their research findings, both orally and in written form, to the larger community. In addition to acquiring hard communication skills, students will also be familiarized with how these skills fit into a broader context, learning, for instance, the importance of peer review, how to select a journal or conference for publication, how to measure impact factor, how to gauge and adjust to different audiences, the various ethical issues that can arise, etc.

CV699: Computer Vision Masters Research Thesis (12CR)

Pre-requisites: Coursework

Core Course for : MSc in Computer Vision

Elective Course for: None

Masters thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Masters thesis research helps train graduates to pursue more advanced research in their PhD degree. Further, it enables graduates to independently pursue an industrial project involving a research component.

CV701: Human and Computer Vision (4CR)

Pre-requisites: None

Core Course for : MSc in Computer Vision; PhD in Computer Vision;

Elective Course for: MSc in Machine Learning; MSc in Natural Language Processing; PhD in Machine Learning; PhD in Natural Language Processing

This course provides a comprehensive introduction to the basics of human visual system and color perception, image acquisition and processing, linear and nonlinear image filtering, image features description and extraction, classification and segmentation strategies. Moreover, students will be introduced to quality assessment methodologies for computer vision and image processing algorithms.

CV702: Geometry for Computer Vision (4CR)

Pre-requisites: CV 701: Human and Computer Vision (or equivalent)

Core Course for: MSc in Computer Vision; PhD in Computer Vision;

Elective Course for: MSc in Machine Learning; MSc in Natural Language Processing; PhD in Machine Learning; PhD in Natural Language Processing

The course provides a comprehensive introduction to the concepts, principles and methods of geometry-aware computer vision which helps in describing the shape and structure of the world. In particular, the objective of the course is to introduce the formal tools and techniques that are necessary for estimating depth, motion, disparity, volume, pose and shapes in 3D scenes.

CV703: Visual Object Recognition and Detection (4CR)

Pre-requisites: CV 701: Human and Computer Vision (or equivalent)

Core Course for: MSc in Computer Vision; PhD in Computer Vision;

Elective Course for: MSc in Machine Learning; MSc in Natural Language Processing; PhD in Machine Learning; PhD in Natural Language Processing

This course provides a comprehensive overview of different concepts and methods related to visual object recognition and detection. In particular, the students will learn a large family of successful and recent state-of-the-art architectures of deep neural networks to solve the tasks of visual recognition, detection and tracking.

CV704: Advanced Computer Vision (4CR)

Pre-requisites: CV 701: Human and Computer Vision (or equivalent)

Core Course for : PhD in Computer Vision;

Elective Course for: PhD in Machine Learning; PhD in Natural Language Processing

This course provides focused coverage of the following special topics: 1) image restoration and enhancement, 2) hand-crafted features, and 3) visual object tracking. The students will develop skills to critique the state-of-the-art works on the aforementioned problems. Moreover, students will be required to implement papers with the aims of, (1) reproducing results reported in the papers and (2) improving performance of the published works. This course builds upon concepts from Human and Computer Vision (course code: CV701) and assumes familiarity with fundamental concepts in image processing.

CV705: Advanced 3D Computer Vision (4CR)

Pre-requisites: CV 702:Geometry for Computer Vision

Core Course for: PhD in Computer Vision;

Elective Course for: PhD in Machine Learning; PhD in Natural Language Processing

The course exercises an in-depth coverage of special topics in 3D computer vision. The students will be able to critique the state-of-the-art methods on 3D reconstruction, 3D visual scene understanding and multi-view stereo. In addition, students will have to implement papers to accomplish the following goals: (1) reproduce results reported in the papers, and (2) improve the performance of published peer-reviewed works. This course builds upon concepts from Human and Computer Vision (CV701), Geometry for Computer Vision (CV702) and assumes that the students are familiar with the basic concepts of machine learning and optimization.

CV706: Neural Networks for Object Recognition and Detection (4CR)

Pre-requisites: CV 703: Visual Object Recognition and Detection

Core Course for: PhD in Computer Vision;

Elective Course for: PhD in Machine Learning; PhD in Natural Language Processing

This course provides focused coverage of special topics on object recognition and detection. The students will develop skills to critique the state-of-the-art works on visual object recognition and detection. Moreover, students will be required to implement papers with the following aims: (1) reproduce results reported in the seminal research papers, and (2) improve the performance of the published works. This course builds upon concepts from Human and Computer Vision (CV701), Visual Object Recognition and Detection (CV702) and assumes familiarity with fundamental concepts in machine learning and optimization.

CV799: Computer Vision PhD Research Thesis (36CR)

Pre-requisites: Coursework

Core Course for: PhD in Computer Vision

Elective Course for: None

PhD thesis research exposes students to cutting-edge and unsolved research problems, where they are required to propose new solutions and significantly contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 3 to 4 years. PhD thesis research helps train graduates to become leaders in their chosen area of research through partly-supervised study, eventually transforming them into researchers who can work independently or interdependently to carry out cutting edge research.

DS701: Data Mining (4CR)

Pre-requisites: None

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

This course is an introductory course on data mining, which is the process of discovering patterns in large data sets involving methods at the intersection of machine learning, statistics, and database systems.

DS702: Big Data Processing (4CR)

Pre-requisites: None

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

This course is an introductory course on big data processing, which is the process of analyzing and utilizing big data. The course involves methods at the intersection of parallel computing, machine learning, statistics, database systems, etc.

HC701: Medical Imaging: Physics and Analysis (4CR)

Pre-requisites: MTH701: Mathematical Foundations for Artificial Intelligence

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing

This course provides a graduate-level introduction to the principles and methods of Medical Imaging, with thorough grounding in the physics of the imaging problems. This course covers the fundamentals of X-ray, CT, MRI, Ultrasound, and PET, imaging. In addition, the course provides an overview of 3D geometry of medical images and the two classic problems in analysis of medical images: segmentation and registration.

L699: Machine Learning Masters Research Thesis (12CR)

Pre-requisites: Coursework

Core Course for : MSc in Machine Learning

Elective Course for: None

Master's thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Master's thesis research helps train graduates to pursue more advanced research in their PhD degree. Further, it enables graduates to independently pursue an industrial project involving research component.

ML701: Machine Learning (4CR)

Pre-requisites: None

Core Course for: MSc in Machine Learning; PhD in Machine Learning;

Elective Course for: MSc in Computer Vision; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Natural Language Processing

This course provides a comprehensive introduction to Machine Learning. It builds upon fundamental concepts in Mathematics, specifically probability and statistics, linear algebra, and calculus. Students will learn about supervised and unsupervised learning, various learning algorithms, and basics of learning theory, graphical models, and reinforcement learning.

ML702: Advanced Machine Learning (4CR)

Pre-requisites: ML701 Machine Learning or equivalent course

Core Course for: MSc in Machine Learning; PhD in Machine Learning;

Elective Course for: MSc in Computer Vision; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Natural Language Processing

This course focuses on recent advances in machine learning and on developing skills for performing research to advance the state of the art in machine learning. Students will learn concepts in kernel methods, statistical complexity, statistical decision theory, computational complexity of learning algorithms, and reinforcement learning. This course builds upon concepts from Machine Learning (ML701) and assumes familiarity with fundamental concepts in machine learning, optimization, and statistics.

ML703: Probabilistic and Statistical Inference (4CR)

Pre-requisites: MTH701: Mathematical Foundations for Artificial Intelligence

Core Course for: MSc in Machine Learning; PhD in Machine Learning;

Elective Course for: MSc in Computer Vision; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Natural Language Processing

Probabilistic and statistical inference is the process of drawing useful conclusions about data populations or scientific truths from uncertain and noisy data. This course will cover the different modes of performing inference including statistical modelling, data-oriented strategies and explicit use of designs and randomization in analyses. Furthermore, it will provide an in-depth treatment to the broad theories (frequentists, Bayesian, likelihood) and numerous practical complexities (missing data, observed and unobserved confounding, biases) for performing inference. This course presents the fundamentals of statistical and probabilistic inference and shows how these fundamental concepts are applied in practice.

ML704: Machine Learning Paradigms (4CR)

Pre-requisites: ML701 Machine Learning or equivalent course

Core Course for: PhD in Machine Learning;

Elective Course for: PhD in Computer Vision; PhD in Natural Language Processing

This course focuses on machine learning and on developing skills for performing research to the state of the art in machine learning. This course builds upon concepts from ML 701 and assumes familiarity with fundamental concepts in optimization, and statistics. Students will learn about methods in supervised, unsupervised learning, semi-supervised learning, transfer learning, multi-task learning, online learning, active learning, meta learning, and variational inference. The course will discuss variants of learning algorithms in various learning paradigms mentioned above.

ML705: Topics in Advanced Machine Learning (4CR)

Pre-requisites: MTH701 & ML702

Core Course for: PhD in Machine Learning;

Elective Course for: PhD in Computer Vision; PhD in Natural Language Processing

This course focuses on recent advances in machine learning and on developing skills for performing research to advance the state of the art in machine learning. This course builds upon concepts from ML701 and ML702 and additionally assumes familiarity with fundamental concepts in optimization, and math. The course covers advanced topics in statistical machine learning, unsupervised learning, high-dimensional statistics, and reinforcement learning. Students will be engaged through course-work, assignments, and projects.

ML706: Advanced Probabilistic and Statistical Inference (4CR)

Pre-requisites: MTH701 & ML703

Core Course for: PhD in Machine Learning;

Elective Course for: PhD in Computer Vision; PhD in Natural Language Processing

The study of probabilistic and statistical inference deals with the process of drawing useful conclusions about data populations or scientific truths from uncertain and noisy data. This course will cover some highly specialized topics related to statistical inference and their application to real-world problems. The main topics covered in this course are latent variable learning, kernel methods and approximate probabilistic inference strategies. This course will provide an in-depth treatment to various learning techniques (likelihood, Bayesian and max-margin) and numerous practical complexities (missing data, observed and unobserved confounding, biases) for performing inference.

ML799: Machine Learning PhD Research Thesis (36CR)

Pre-requisites: Coursework + Masters Degree

Core Course for: PhD in Machine Learning;

Elective Course for: None

PhD thesis research exposes students to cutting-edge and unsolved research problems, where they are required to propose new solutions and significantly contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 3 to 4 years. PhD thesis research helps train graduates to become leaders in their chosen area of research through partly supervised study, eventually transforming them into researchers who can work independently or interdependently to carry out cutting edge research.

MTH701: Mathematical Foundations for Artificial Intelligence (4CR)

Pre-requisites: None

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing.

This course provides a comprehensive mathematical foundation for artificial intelligence. It builds upon fundamental concepts in linear algebra, probability theory, and basic statistics and overviews basics and advanced topics that are frequently encountered in AI applications. The students will learn the basic mathematical concepts for main AI systems, as well as realistic applications in AI of mathematical tools.

MTH702: Optimization (4CR)

Pre-requisites: None

Core Course for: None

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; MSc in Natural Language Processing; PhD in Computer Vision; PhD in Machine Learning; PhD in Natural Language Processing.

This course provides a graduate-level introduction to the principles and methods of optimization, with thorough grounding in the mathematical formulation of the optimization problems. The course covers fundamentals of convex functions and sets, 1st order and 2nd order optimization methods, problems with equality and/or inequality constraints, and other advanced problems.

NLP699: Natural Language Processing Masters Research Thesis (12CR)

Pre-requisites: Coursework

Core Course for: MSc in Natural Language Processing

Elective Course for: None

Masters thesis research exposes students to an unsolved research problem, where they are required to propose new solutions and contribute towards the body of knowledge. Students pursue an independent research study, under the guidance of a supervisory panel, for a period of 1 year. Masters thesis research helps train graduates to pursue more advanced research in their Ph.D. degree. Further, it enables graduates to independently pursue an industrial project involving research component.

NLP701: Natural Language Processing (4CR)

Pre-requisites: None

Core Course for: MSc in Natural Language Processing; PhD in Natural Language Processing.

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; PhD in Computer Vision; PhD in Machine Learning

This course provides a comprehensive introduction to Natural Language Processing. It builds upon fundamental concepts in Mathematics, specifically probability and statistics, linear algebra, and calculus, and assumes familiarity with programming.

NLP702: Advanced Natural Language Processing (4CR)

Pre-requisites: None

Core Course for: MSc in Natural Language Processing; PhD in Natural Language Processing.

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; PhD in Computer Vision; PhD in Machine Learning

This course provides a comprehensive introduction to Natural Language Processing. It builds upon fundamental concepts in Natural Language Processing and assumes familiarization with Mathematical concepts and programming.

NLP703: Speech Processing (4CR)

Pre-requisites: None

Core Course for: MSc in Natural Language Processing; PhD in Natural Language Processing.

Elective Course for: MSc in Computer Vision; MSc in Machine Learning; PhD in Computer Vision; PhD in Machine Learning

This course provides a comprehensive introduction to Speech Processing. It builds upon fundamental concepts in Speech Processing and assumes familiarization with Mathematical and Signal Processing concepts.

NLP704: Deep Learning for Language Processing (4CR)

Pre-requisites: NLP 701: Natural Language Processing

Core Course for: PhD in Natural Language Processing

Elective Course for: PhD in Computer Vision; PhD in Machine Learning

This course focuses on recent advances in Natural Language Processing and on developing skills for performing research to advance the state of the art in Natural Language Processing. This course builds upon concepts from Natural Language Processing (NLP 701) and assumes familiarity with fundamental concepts in Word Embedding, Information Extraction and Machine Translation.

NLP705: Topics in Advanced Natural Language Processing (4CR)

Pre-requisites: NLP 701: Natural Language Processing

Core Course for: PhD in Natural Language Processing

Elective Course for: PhD in Computer Vision; PhD in Machine Learning

This course focuses on recent advances in Natural Language Processing and on developing skills for performing research to advance the state of the art in Natural Language Processing. This course builds upon concepts from Natural Language Processing (course code: NLP 701) and assumes familiarity with fundamental concepts in question answering, text summarization and opinion mining.

NLP706: Advanced Speech Processing (4CR)

Pre-requisites: NLP 703: Speech Processing

Core Course for: PhD in Natural Language Processing

Elective Course for: PhD in Computer Vision; PhD in Machine Learning

This course focuses on developing skills for performing research to advance the state of the art in Speech Processing. This course builds upon concepts from Basic Speech Processing (NLP 703) and assumes familiarity with fundamental concepts in Speech Recognition, Speech Synthesis and Speaker Identification.

NLP799: Natural Language Processing PhD Research Thesis (36CR)

Pre-requisites: Coursework + Masters Degree

Core Course for: PhD in Natural Language Processing

Elective Course for: None

The goal of writing a research thesis is to train students to become independent researchers in the process. Thesis research equips students with capabilities to undertake an unsolved problem, explore relevant literature, propose a solution, and validate it through extensive experimental evaluations. Finally, the research findings and solutions are shared with the academic community in the form of scientific research papers.

Where to find us



**Mohamed bin Zayed University
of Artificial Intelligence**

Masdar City
Abu Dhabi, United Arab Emirates

Definitions

Term	Definition
Academic Integrity	Refers to ethical behavior and principles such as honesty, responsibility, respect and fairness that guides conduct in an academic setting.
Non-Academic Research	Is any type of non-peer reviewed research activity such as; outreach to the broader community, engagement with government agencies and industrial partners
Academic Standing	Determined by regulations governing good standing, probation, and dismissal.
Academic Year	The period of time beginning with the first day of classes of a fall semester and the final day of the spring semester.
Add and Drop	A period of time at the beginning of each semester when students can adjust schedules by dropping or adding course/s.
Advisor	Faculty member/administrator assigned to counsel students on academic or other matters. The student is called an “advisee”.
Master’s Degree	Graduate degree in which a student completes 6 courses in the first year and thesis requirements in the second year which adds up to 24 months.
Doctor’s Degree	Graduate degree in which a student completes 6 courses in the first year and Thesis requirements in the following 3 years which adds up to 36 months.
Academic Calendar	Annual listing of all official important dates and deadlines for the academic year.
Course	A unit of study that may utilize lecture, discussion, laboratory, research, recitation, seminar, workshop, studio, independent study, internship or other similar teaching formats to facilitate learning for a student.
Course Load	Total credits for which a student is registered in a given semester or a faculty member is assigned to teach.
Credit	A credit represents 1 hour of time in class per week over a semester of 17 weeks. This implies that one academic credit equates to a 45-hour commitment to learning over a semester.
Curriculum	A structured set of learning outcomes built in a specified set of courses.

Definitions

Term	Definition
Full Time student	Any admitted student who is eligible for MBZUAI scholarship and should be registered on full course load each semester.
Part Time student	Self-paid student who is eligible to take less credit hour load than the full-time student
Dismissal	The involuntary separation of a student from MBZUAI for unacceptable conduct or unsatisfactory academic achievement. A student is academically dismissed when he/she fails to achieve academic good standing in two consecutive semesters.
MBZUAI - related Research Projects and Activities	Research Projects and Activities undertaken by MBZUAI faculty and researchers that will be branded as part of the MBZUAI activities. The name of individual MBZUAI faculty members and/or researchers can but does not need to, be associated with the activity or project.
Educational Records	Records directly related to the education and academic performance of a student that are maintained by the Registrar's Office.
Elective Course	A course selected at a student's discretion after consultation with the academic advisor.
Good Standing	Academic designation applied to a graduate student who has achieved a cumulative GPA of 3.0 or higher.
GPA	Grade point average of the grades earned in MBZUAI courses.
Grade Points	The numerical value associated with each grade.
ID Card	University student identification card providing and controlling access to University facilities and services.
Prerequisite	A course required to be completed prior to registration in an advanced course.
Academic Probation	Status of any graduate student who has less than 3.0 cumulative GPA.
Registration	The process of enrolling students in classes.
Reinstatement	The exceptional act of approving an academically dismissed student to resume studies following dismissal. Academically dismissed students who have been away longer than one semester may not apply for reinstatement.

Definitions

Term	Definition
Readmission	The act of admitting a student back into the MBZUAI through the Admissions office after an interruption of studies. Academically dismissed students are not eligible for readmission.
Required Courses	Courses necessary for the completion of a particular program.
Classes Schedule	A list of courses offered during a semester that specifies the days, hours, and locations of classes and the names of the instructors.
Student Schedule	A listing of courses a student is taking in a given semester that specifies the dates, hours, locations of classes and the names of the instructors.
Dismissal	The involuntary separation of a student from MBZUAI for unacceptable conduct or unsatisfactory academic achievement. A student is academically dismissed when he/she fails to achieve academic good standing in two consecutive semesters.
Suspension	The involuntary separation of a student from the University for unacceptable conduct. Suspension extends from one semester to a maximum of one calendar year.
Syllabus	Descriptive outline and summary of topics to be covered in a course offered at MBZUAI, as per the standards of CAA.
Semester	Either of the two periods of instruction into which the academic year is divided.
Transcript	A student's historical academic record.
Transfer Credit	Credit from course work completed at another institution that is accepted at MBZUAI and which may or may not be applicable toward a specific MBZUAI degree.
Tuition	Fees charged for courses each semester.
Visiting Student	A student enrolled at another accredited institution who receives permission to register at MBZUAI for up to two semesters to earn credit to transfer back to his or her home institution.
Withdrawal	The act of officially leaving MBZUAI for reasons other than graduation.

List of Faculty



You may view the faculty profiles through this link: [Study @ | MBZUAI](#)

Mohammad Khalid Barhoum Yaqub	Ph.D, University of Oxford, UK, 2011; Assistant Professor of Computer Vision.
Salman Hameed Khan	Ph.D, University of Western Australia, Australia 2016; Assistant Professor of Computer Vision.
Huan Xiong	Ph.D, University of Zurich, Switzerland, 2016; Assistant Professor of Machine Learning.
Hang Dai	Ph.D, University of York, UK, 2019; Assistant Professor of Computer Vision.
Muhammad Haris Khan	Ph.D, University of Nottingham, UK, 2015; Assistant Professor of Computer Vision.
Rao Muhammad Anwer	Ph.D, Universitat Autònoma de Barcelona, Spain, 2013; Assistant Professor of Computer Vision.
Hisham Cholakkal	Ph.D, Nanyang Technological University, Singapore, 2016; Assistant Professor of Computer Vision.
Fahad Shahbaz Khan	Ph.D, Autonomous University of Barcelona, Spain, 2011; Associate Professor of Computer Vision.
Bin Gu	Ph.D, Nanjing University of Aeronautics and Astronautics, China, 2010; Assistant Professor of Machine Learning.
Karthik Nandakumar	Ph.D, Michigan State University, US, 2008; Associate Professor of Computer Vision.
Le Song	Ph.D, University of Sydney, Australia, 2008; Deputy Department Chair of Machine Learning.