INTELLIGENT TRANSPORTATION AND LOGISTICS SYSTEMS

Degree Level: Postgraduate

الجامعة الأهلية
AHLIA UNIVERSITY
BAHRAIN

COLLEGE OF ENGINEERING

Qualification type	Location	Study mode	Delivery Language	Duration
Master of Science	Main Campus	Full Time	English	Two Years

KEY FACTS

Accreditation

Higher Education Council

SDG

4 QUALITY EDUCATION

Contact Person

Ms. Afrah Kadhem
Tel: 17298989
Email: akadhem@ahlia.edu.bh

Dr. Ahmed Jedidi
Tel: (+973) 17298934
Email: ajedidi@ahlia.edu.bh

TARGET LEARNERS

The targeted learners for this qualification are graduates with recognised and endorsed bachelor's degree or its equivalent in the following disciplines

- Engineering
- Information Technology
- Planning
- Transportation
- Logistics
- any other Intelligent Transportation and/or Logistics related disciplines.

Applicants who hold a recognised and endorsed bachelor's degree in any other discipline other than the ones mentioned above, may be accepted in the programme subject to passing the interview at the programme level and successful completion of the Foundation Courses.

OVERVIEW

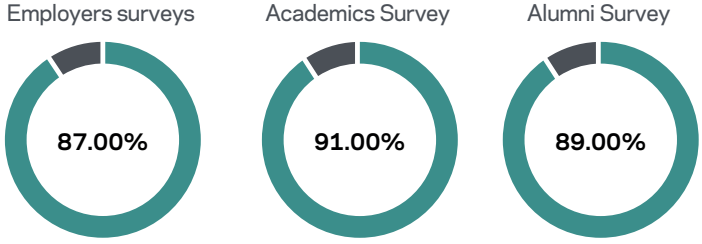
The Master of Science in Intelligent Transportation and Logistics Systems (MITLS) programme is designed to match with international standards and requirements pertaining to logistic systems and digitalized solutions. The academic programme aims to produce highly qualified professionals and leaders in the dynamic and cutting-edge field of intelligent transportation and logistics. The design of the academic programme is carefully crafted to integrate technology into transportation and logistics systems, with a focus on skills to support increasing efficiency, safety, mobility, and customer satisfaction. The programme is aligned with United Nations Sustainable Development Goals towards maintaining sustainable cities and communities by covering topics related to Urban Mobility and Smart Cities, Smart digitized tools using data analytics and automated vehicles connected to smart cities.

PROGRAMME AIMS

- Equip learners with critical knowledge of the ICT tools, methods, and trends in intelligent transport systems towards efficient solutions.
- Acquire professional level of skills to integrate digitization and automation technologies into advanced planning methods in transport and logistics systems.
- Use combination of approaches with creativity to apply statistical and computational techniques in transportation and logistics engineering.
- Equip learners with professional level of skills to solve within innovative insights complex real-world challenges related to transport and logistics systems.

GENERAL STATISTICS

Market needs analysis for justification of the programme needs and producing graduates with skills and knowledge in Intelligent Transport and Logistics Systems:



ENTRY REQUIREMENTS

Admission to Ahlia University (AU) is selective based on academic achievements. Applications are welcome from all students regardless of race, colour, gender, religion, nationality, physical or learning disability. Admission is purely based on merit.

General Requirements

To be eligible for consideration for admission to the postgraduate programmes, applicants must meet the entry requirements set by the university in-line with Bahrain Higher Education Council requirements.

All applicants must hold a recognised and endorsed secondary school certificate or its equivalent, and a recognised and endorsed bachelor's degree. All postgraduate applicants will be interviewed by the programme committee. Only successful applicants in the interview will be considered for admission.

Specific Requirements

TheIn addition to the general admission requirements, applicants who meet the following programme specific admission requirements will be admitted to the Master of Science in Intelligent Transportation and Logistics Systems (MITLS):

GPA	▪ Minimum CGPA ⩾ 2.5 or its equivalent. ▪ Applicants with CGPA lower than 2.50 but > 2.00 or its equivalent at the undergraduate level may be considered for admission, subject to passing the interview at the programme level, and successful completion of foundation courses.
Interview	▪ All applicants must pass an interview. ▪ The interview outcome will determine whether the applicant must take foundation courses. Credits accrued from foundation courses will be considered extra credits and will not be counted towards the Master programme credits requirement for the completion of the degree.
Foundation Courses	▪ Applicants who hold a recognised and endorsed bachelor degree in any other related discipline, other than the ones mentioned above, may be accepted into the programme subject to passing the interview and successful completion of foundation courses. ▪ Applicants with CGPA lower than 2.50 but > 2.00 or its equivalent at the undergraduate level may be considered for admission, subject to passing the interview at the programme level, and successful completion of foundation courses.
Experience and Certification	Work experience and professional courses/certificates in transport and logistics company/organization or related disciplines will be an added advantage.
Transferred Students	Applicants transferring from other postgraduate programmes will be subject to the above admission criteria and may receive exemption from equivalent courses completed in their former programme in line with Ahlia University External Transfer Policy.
Language	Applicants must demonstrate a level of English proficiency consistent with the demands of an academic programme taught and assessed almost exclusively in the English language. This can be done in one of the following ways: ▪ Attainment of an acceptable score on an internationally recognized examination of English language proficiency either: - IELTS ⩾ 6.0 or its equivalent - TOFEL ⩾ 550 or its equivalent ▪ Passing the University English language placement test ⩾ 70%

FEES

Application Fee	*BD 40*
Registration Fee	*BD 960*
Foundation course (if applicable)	*BD 960*
Fee per credit hour	*BD 220*
Number of credit hours	*36*
Fee of 36 credit hours	*BD 7,920*
TOTAL	***BD 9,220***

STUDY PLAN

The MITLS programme comprises 36 credit hours distributed as follows: 18 hours core courses, 6 hours electives. In addition, MITLS students may opt for either **OPTION 1** DISSERTATION [12 credits] or **OPTION 2** APPLIED PROJECT [6 credits] as classified in the study plan.

Course Title	Credit Hours
Core Courses	
Fundamentals of Intelligent Transport and Logistics Systems	3
Optimization Techniques in Transport and Logistics	3
Urban Mobility and Smart Cities	3
Geographical Information Systems for Transportation	3
Mobile and Network Communication for Transport System	3
Research Methodology	3
Elective Courses	
Internet of Things	3
Innovation Project Management	3
Traffic and Transport Safety	3
Supply Chain Logistics	3
Transportation Policy, Strategy and Regulations	3
Data Analytics for Smart and Connected Cities	3
Connected and Automated Vehicles	3
Dissertation/Project	
Dissertation in Intelligent Transportation and Logistics Systems*	12
Applied Project in Intelligent Transportation and Logistics Systems**	6

*** OPTION 1 DISSERTATION [12 credits] and two Major electives**

**** OPTION 2 APPLIED PROJECT [6 credits] and four Major electives**

CAREER AND LEARNING PATHWAYS

- Logistics Specialist
- Transportation Specialist
- Senior ITS Engineer
- Intelligent Transport System (ITS) Consultancy
- Transportation Engineers
- Intelligent Transportation Systems (ITS)
- Logistics Coordinator

And by adding the following statement, Learners graduating from this qualification could proceed to future studies including PhD or Professional Certification in the field such as "ASCM Certified in Logistics, Transportation, and Distribution (CLTD) and ASCM Certified Supply Chain Professional certification (CSCP).