emirates
aviation
university

Postgraduate Studies
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Contents

About EAU

Emirates Aviation University (EAU) is the region's premiere aviation university and one of the leading academic institutions in the UAE. Established in 1991, EAU is part of the Emirates Group and was awarded university status in December 2010 by the UAE Ministry of Education – Higher Education Affairs. With an extensive range of nationally and internationally accredited aviation-related courses and programmes, EAU is the ideal launch pad for a successful career in engineering or business management. Licensed by the UAE Ministry of Education – Higher Education Affairs and the National Qualifications Authority (NQA) and the Knowledge and Human Development Authority (KHDA), EAU offers students postgraduate, undergraduate and vocational programmes that combine the highest standard of academics with the latest developments in the field of aviation. Home to a multicultural student community, the EAU campus in Dubai International Academic City (DIAC) is equipped to the highest international standards. Add to that an experienced faculty in a city that has become a vibrant cosmopolitan centre of business, culture and tourism, and students will have all they need to excel in a truly global environment.

Licensure and Recognition

Emirates Aviation University is licensed and recognised by the following bodies:
- Ministry of Education – Higher Education Affairs
- National Qualifications Authority (NQA)
- Knowledge and Human Development Authority (KHDA)
- General Civil Aviation Authority (GCAA)

Vision

To be one of the world's leading institutes of higher education in aviation-related disciplines.

Mission

- To serve the multifaceted educational needs of aviation students from the UAE as well as the greater Middle Eastern and subcontinent regions

- To offer outstanding applied educational programmes that allow students to develop their creative, analytical, communication and critical thinking skills in a collaborative, nurturing environment that promotes life-long learning and contributes to success in their professional careers

- To value and support academic, vocational and applied research amongst its faculty, both in their disciplines and in the appropriate pedagogy, necessary to be effective teachers and to serve the aviation industry

Business School

MBA in Aviation Management

Overview

The MBA in Aviation Management programme examines the fast-growing aviation industry, which has witnessed enormous expansion in a relatively short period of time. The fast transit times offered by air transportation, coupled with the ever-increasing number of routes, has resulted in high demand from both leisure and business passengers. At the same time, there has been an increasing need for airfreight services as a result of globalisation, shorter product life cycles and higher customer expectations.

These factors have created a demand for experienced and qualified personnel, coupled with the need to develop the associated infrastructure, including expanding existing airports and building new ones.

Why enrol in this programme?

The programme not only attracts professionals who are already engaged in an aviation management role but also professionals from a wide range of sectors (including finance, manufacturing, retailing, real estate, hospitality, healthcare and security) seeking to broaden their aviation management skills.

The programme provides students with the opportunity to:

- study the management of aviation organisations at an advanced level
- enhance their business skills
- prepare for research or further studies

Programme outline

The programme consists of eight modules and a dissertation.

Module
Financial Analysis for Managers
Project Management
Marketing Management
Organisational Behaviour & Human Resource Management
Airline Operations
Airport Operations
Global Issues in the Airline Industry
Aviation Strategy
MBA Dissertation

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Accreditation

The MBA in Aviation Management is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is accredited by the UAE Ministry of Education – Higher Education Affairs.

Career prospects

Successful completion of the MBA in Aviation Management programme helps students secure a position in the aviation industry. For those already employed, the programme increases their chances of being promoted or, should they consider a career change, being accepted into positions with new employers.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module).

MBA in Logistics & Supply Chain Management

Overview

The MBA in Logistics & Supply Chain Management programme provides students with an in-depth insight into the theories and practices of logistics & supply chain management. This has become a crucial element of today's business environment where globalisation has made the supply chain operations more complex. Organisations are continually seeking ways to tackle these challenges, while at the same time improving their level of service and minimising costs. This has generated an increased demand from manufacturers, retailers, logistic service providers and other sectors for personnel with qualifications in this field.

Why enrol in this programme?

The programme not only attracts professionals already engaged in a logistics & supply chain management role but also professionals from a wide range of sectors (including finance, manufacturing, retailing, real estate, hospitality, healthcare and security) seeking to broaden their logistics & supply chain management skills.

The programme provides students with the opportunity to:

- gain an understanding of the importance of supply chain operations within local and global markets
- assess the operational and commercial aspects of air, sea, road and rail transportation
- understand the role of sourcing and purchasing in supply chain management
- apply logistics strategies to support organisational objectives
- measure the efficiency of supply chains using benchmarking techniques and key performance indicators

Programme outline

The programme consists of eight modules and a dissertation.

Module
Financial Analysis for Managers
Project Management
Supply Chain Management
Purchasing Management
Logistics Operations
Logistics Strategy
Marketing Management
Organisational Behaviour & Human Resource Management
MBA Dissertation

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Accreditation

The MBA in Logistics & Supply Chain Management is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is accredited by the UAE Ministry of Education – Higher Education Affairs.

Career prospects

Successful completion of the MBA in Logistics & Supply Chain Management programme helps students secure a position in the logistics & supply chain industry. For those already employed, the programme increases their chances of being promoted or, should they consider a career change, being accepted into positions with new employers.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module).

MBA in General Management

Overview

The MBA in General Management programme provides students with a balanced knowledge of the challenges in managing businesses. Today's managers should have a broad understanding of the various functions within an organisation in order to effectively meet organisational objectives and goals.

Due to the rapid expansion of international trade, suppliers, customers and work colleagues are much more likely to work within a multicultural working environment. This in turn requires a different skill set to be able to manage both effectively and efficiently.

Why enrol in this programme?

The programme attracts professionals from a wide range of sectors (including finance, manufacturing, retailing, real estate, hospitality and healthcare), who are seeking to broaden their management skills.

The programme provides students with the opportunity to:

- apply knowledge and understanding of organisations, businesses and management to solve complex issues both systematically and creatively whilst improving business and management practices
- contribute to business and society at large using lifelong learning skills and personal development
- apply strategic decision-making skills and develop the ability to work towards policy formulation and implementation

Programme outline

The programme consists of eight modules and a dissertation.

Module
Marketing Management
Project Management
Supply Chain Management
Economic Environment for Business
International Business
Strategic Management
Financial Analysis for Managers
Organisational Behaviour & Human Resource Management
MBA Dissertation

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Accreditation

The MBA in General Management is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is accredited by the UAE Ministry of Education – Higher Education Affairs.

Career prospects

Successful completion of the MBA in General Management programme helps students secure a position in general business management across a broad spectrum of industries. For those already employed, the programme increases their chances of being promoted or, should they consider a career change, being accepted into positions with new employers.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module).

Applied Master in Engineering Business Management

Overview

Emirates Aviation University (EAU), in collaboration with Coventry University UK, offers students the chance to undertake a part-time Engineering Business Management programme designed for those who wish to become managers and leaders in a technology-based business. Students will develop an integrated understanding of strategic and operational management and acquire the appropriate intellectual and personal skills required to successfully operate in a demanding management environment.

Why enrol in this programme?

The programme provides students with the opportunity to develop their career in the areas of engineering and business management. The programme introduces students to all key aspects of managing an engineering company, and to the required fields of general management necessary for a complete portfolio of management skills and knowledge. The educational experience enables students to achieve a cohesive understanding of the operation and strategy of management, and to develop suitable intellectual and personal skills.

Accreditation

The Applied Master in Engineering Business Management is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is recognised by the National Qualifications Authority (NQA) in the UAE.

Programme outline

The programme consists of eight modules and a dissertation.

Module
Financial Analysis for Managers
Organisational Behaviour & Human Resource Management
Project Management
Quality Management and 6 Sigma
Supply Chain Management
Sustainability and Environmental Management Systems
Lean Operations
Engineering Strategy
Dissertation

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Career prospects

The Applied Master in Engineering Business Management is designed to fill the gap between the specialist technical master and the traditional MBA, specifically aiming to develop learners' abilities to manage an engineering manufacturing company. By studying markets and business environments alongside advanced engineering, students learn how to implement effective strategies that will help them in the workplace and advance their own career progression.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module).

Applied Master in Human Resource Management

Overview

Emirates Aviation University (EAU), in collaboration with Coventry University UK, offers students the opportunity to earn an Applied Master degree in Human Resource Management (HRM). This programme is accredited by the highly recognised professional HRM body the Chartered Institute of Personnel and Development (CIPD). The programme is taught by CIPD-accredited staff.

Why enrol in this programme?

The study of Human Resource Management (HRM) will include the analysis of models, theoretical frameworks, past and current HRM practices - all delivered through a series of workshops.

It is designed to meet and reflect the CIPD's professional standards and expectations. It provides students with the essential requirements needed to work within the broad field of people management. Upon graduation, students will gain a Chartered Institute of Personnel and Development (CIPD) graduate degree in addition to an Applied Master's degree in HRM.

Programme outline

The programme consists of eight modules and a dissertation. These programmes are regularly reviewed and updated to reflect the latest developments according to the requirements of the HRM profession and the needs of the industry and legislation.

All modules are worth 15 credits, with the exception of the dissertation, which is 60 credits.

Module
Resourcing and Talent Management
Performance Management
Leading, Management and Developing People
Human Resource Management in Context
Developing Skills for Business Leadership
International HRM
Organisational Design and Development
Leadership and Management Development
Dissertation

Accreditation

The Applied Master in Human Resource Management (HRM) is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is recognised by the National Qualifications Authority (NQA) in the UAE. This award is also accredited by the highly recognised professional HRM body the Chartered Institute of Personnel and Development (CIPD).

Career prospects

The effective management and development of human resources is a challenging task in any professional organisation. As the pace of technological change increases and as organisations develop a greater international focus, the management and development of people in order to adapt to these changing conditions becomes evermore important.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module).

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

School of Engineering

Master of Science in Aviation Safety
Master of Science in Aviation Security

Overview

The Master of Science in Aviation Safety and the Master of Science in Aviation Security programmes are designed for students who wish to further enhance their knowledge and experience of aviation safety or aviation security. While safety relates to measures that are taken against the threat of an accident, security refers to the protection from threats motivated by hostility or malice. Both areas are interrelated, and the programmes contain five common modules and three specialised modules for each.

These programmes enable students to understand the various aspects of regulation compliance, design and the use of technologies and systems that are associated with these different perspectives. Further specialisation is achieved through the project, which is required to focus on a topic that is related to the chosen area of specialisation.

Why enrol in these programmes?

These programmes offer a wide range of career opportunities in aviation safety or aviation security within the airline industry, airports, aviation authority, the police and the military. The programmes are one of the very few degree programmes in the world to address these needs. Relevant jobs include aircraft safety or security inspectors, aircraft maintenance technicians, air traffic control specialists, pilot-airspace system inspection technicians, security managers and more. The programme offers graduates the required professional platform for a successful career in this field.

Programme outline

The programme consists of eight modules (five core and three specialised) in addition to a project.

Core Module
Aviation Safety and Security Risk Management
Human Factors in Aviation
Air Transport Management and Strategy
Crisis Management and Emergency Planning
Airport and Airline Security Operations

Aviation Security Module
Aviation Security
Aviation Security Legislation
Aviation Physical Security
Individual Project

Programme benefits

- Develop in-depth knowledge and understanding of the fields of aviation safety and security

- Acquire a comprehensive understanding of aviation safety and security technologies, regulations and procedures

- Expand students' ability to evaluate critically current research and professional practices in these fields

- Strengthen students' capacity to deal with complex issues both systematically and creatively by making sound judgments in the absence of complete data, and communicating conclusions clearly to specialist and non-specialist audiences

Accreditation

The Master of Science in Aviation Safety and Master of Science in Aviation Security are dual award programmes conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU awards are accredited by the UAE Ministry of Education – Higher Education Affairs.

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module). Modules span the weekend to facilitate minimum disruption for participants in full-time employment.

Aviation Safety Module
Airworthiness
Accident Investigation and Incident Reporting
Aerodrome Safety and Air Navigation
Individual Project

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Applied Master in Aerospace Engineering
Applied Master in Mechanical Engineering

Overview

The Applied Master in Aerospace Engineering and the Applied Master in Mechanical Engineering programmes share a common construct of delivery. Both are delivered on a part-time basis with modules taught by a specialist team of academics drawn from Emirates Aviation University's pool of international faculty from across the globe.

Both master's programmes consist of eight modules plus a substantial master's project. Four out of the eight modules are shared by both specialisations. The successful completion of the eight modules and the project leads to students acquiring the degree of either the Applied Master in Aerospace Engineering or the Applied Master in Mechanical Engineering.

Applied Master in Aerospace Engineering

The Applied Master in Aerospace Engineering programme aims to further develop students' knowledge and expertise in specialised engineering subjects associated with the main application areas of aeronautical engineering. Particular prominence is given to sustainable aviation, advanced materials and processes, experimental methods and techniques, computational fluid dynamics, engineering analysis and simulation, flight dynamics and simulation, and advanced aircraft systems, in particular unmanned aerial vehicles.

The work carried out in this programme provides the demonstrable expertise necessary to help secure successful employment in related industries. The programme was developed to build on the fundamental undergraduate knowledge of aerospace / aeronautical studies and help students learn more about the application of their subject to aircraft. The whole aerospace / aviation industry is committed to a more sustainable and more efficient future. The techniques, methods and subjects covered in this degree explore the ever-changing industrial environment in greater detail.

Why enrol in this programme?

The specialised topics studied in this programme prepare students for a career in companies specialising in aeronautical engineering. There are also many roles in related industries that rely on the technology. Possible designations include:

- Design, Development, Operations and Management
- Projects/Systems/Structural/Avionics Engineers

Applied Master in Mechanical Engineering

The Applied Master in Mechanical Engineering programme presents an overview of the techniques of modern mechanical engineering themes, presenting examples of use from a wide range of disciplines and industries applicable to the Gulf region. These include: solar thermal energy, refrigeration and air conditioning, advanced materials and processes, computer-aided engineering with finite element analysis, computational fluid dynamics, engineering analysis and simulation, advanced structural analysis and concepts, and stress and dynamics.

The Applied Master in Mechanical Engineering enables students to develop a deep understanding and acquire analytical skills in various topics related to mechanical engineering. It provides advanced postgraduate education in theory and practice of the specialisation. It includes a broad range of mechanical engineering topics designed to suit the requirements of the Gulf region.

Why enrol in this programme?

Earning this degree will open a wide range of career opportunities to graduates, including the opportunity to work as mechanical engineers in the energy, oil and aerospace industries. Students will learn how to manage the process of industrial development, essential to assure future commercial success.

Mechanical engineers are employed in all sectors of industrial operation and, in addition, their analytical and management skills are keenly sought after a wider commercial context.

Accreditation

The Applied Master in Aerospace Engineering and the Applied Master in Mechanical Engineering programmes are dual award programmes conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU awards are recognised by the National Qualifications Authority (NQA) in the UAE.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module). Modules span the weekend to facilitate minimum disruption for participants in full-time employment.

Programme outline

The programme consists of eight modules (four core and four specialised) in addition to a project.

Core Module
Computational Fluid Dynamics
Advanced Materials and Processes
Computer-aided Engineering with Finite Element Analysis
Engineering Analysis and Simulation

Mechanical Engineering Module
Advanced Structure Analysis Concepts
Stress and Dynamics
Solar Thermal Energy
Refrigeration and Air Conditioning
Individual Project

Aerospace Engineering Module
Flight Dynamics and Simulation
Unmanned Aerial Vehicle Systems
Experimental Methods and Techniques
Sustainable Aviation
Individual Project

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

**School of Mathematics,
Statistics & Computing**

Applied Master in Software Engineering

The Applied Master in Software Engineering programme aims to further develop students' knowledge and expertise in specialist software engineering subjects associated with the main application areas of software development. Particular prominence is given to cloud computing and distributed technologies, business intelligence and big data, advanced software design and development (using Java), network security, data mining and warehousing, IS/IT procurement and IT project management (with Prince 2). Modules are delivered by a specialist team of academics drawn from the Emirates Aviation University's pool of international faculties from around the world.

Why enrol in this programme?

Software engineers often decide to return for postgraduate studies after a few years of experience. The Applied Master in Software Engineering gives students experience using the software development life cycle to solve complex real world problems. Software engineers that have both a master's degree and experience can vie for top positions at prestigious companies.

Programme outline

The programme consists of seven modules and a dissertation.

Module
Advanced Software Design and Development (using Java)
IT Project Management (with Prince 2)
Cloud Computing and Distributed Technologies
Business Intelligence and Big Data
IS/IT Procurement
Network Security
Data Mining and Warehousing
Individual Project

Entry requirements

For professional advice on entry requirements, please contact the EAU Postgraduate Admissions Office on +971 4 605 0 122/124/125 or email eau.admissions@emirates.com

Accreditation

The Applied Master in Software Engineering is a dual award programme conferred by Emirates Aviation University (EAU) and Coventry University, UK. The EAU award is recognised by the National Qualifications Authority (NQA) in the UAE.

Duration

18 months

Mode of delivery

This programme is delivered on a part-time basis with classes normally held every two months (five days per module). Modules span the weekend to facilitate minimum disruption for participants in full-time employment.

For more information, please contact:

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