

PROGRAM OVERVIEW

Aerospace and Autonomous Systems Engineering (AASE) is a newly established international program designed to nurture and prepare students for the emerging NewSpace era. The program equips students with knowledge and practical skills in aerospace engineering, autonomous systems, robotics, artificial intelligence, and other cutting-edge technologies.

WHY AASE?



4-Year Program

Experience the world faster



International Program

Fully taught in English



Project-Based Learning

Learning while doing!

Multidisciplinary

Multidisciplinary program blending

- Mechanical Engineering • Aerospace Engineering
- Electrical Engineering • & Autonomous System
- Robotics • Autonomous System • Telecommunication

Admission Requirement

Certificate BACII or equivalent

English Proficiency IELTS ≥ 5.0 or TOEFL iBT ≥ 40

ITC entrance exam Maths, Physics, Chemistry & Logic

ADMISSION REGISTRATION

August - September

Tuition fee: \$2500 /year



Available Scholarships

1) Techo Digital Talent Scholarship

100% fully funded scholarships for 4 years offered by the Ministry of Post and Telecommunications (MPTC) are available for students who wish to enroll in the AASE program at ITC.

APPLY NOW

Up to 25 scholarships available



2) Merit-Based Scholarship

- 1st top 15% will receive 50% tuition scholarship
- 2nd top 15% will receive 30% tuition scholarship

Contact Us

(+855) 096 5 698 698

ies-info@itc.edu.kh

Room A314, Building A, Russian Federation Blvd., Phnom Penh



AASE

AEROSPACE AND AUTONOMOUS SYSTEMS ENGINEERING

Department of Industrial and Mechanical Engineering

International Program
Taught in English
4 Years

- French Double Degree Pathway Available



UP TO
30
SCHOLARSHIPS
AVAILABLE

PROGRAM CURRICULUM

4 years | 8 Semesters

123 Credits | 2480 Hours

YEAR 1 FOUNDATION YEAR



Mathematics, Fundamental Science, Engineering Science, Information Technologies, and Seminar & Project

YEAR 2 CORE ENGINEERING



Mathematics, Mechanical Engineering, Electrical Engineering, Aerospace Engineering, Computer Programming, Seminar & Project, and Applied Engineering Internship

YEAR 3 SPECIALIZATION



Aerospace Engineering, Electrical & Telecommunication, Autonomous System, Robotics, Information Technology, and Project

YEAR 4 INTEGRATED & PRACTICE



Aerospace Engineering, Autonomous System, System Engineering, Managerial Science, Laboratory or Industry Internship

PROGRAM PATHWAY

International Year 4 2 Pathway Options

Int. Year4 of ITC
AASE Degree



Int. Year4 of ECAM Eng.
ROA Degree
Double degree ITC + ECAM

International Year 3 at ITC

International Year 2 at ITC

International Year 1 at ITC

Three Integrated Programs

- AASE - Aerospace and Autonomous Systems Engineering
- ROA - Robotics and Automation Engineering
- SCM - Industrial Eng. and Supply Chain Management

HOW TO APPLY

1

Register Aug - Sept
Scan the QR code or visit Room A-314

2

Entrance Exam Sept
Maths, Physics, Chemistry, Logic

3

Result of Entrance Exam
Result will be announced by ITC in Sept

4

Enroll Oct
New academic year start from October

Technical & Engineering Competencies



Advanced Maths & Physics

Model and solve aerospace & autonomous systems problems.



Aerospace Design & Analysis

Design and evaluate aircraft, rockets, satellites, and drones using CAD, FEA & CFD.



Autonomous Systems

Develop control system, Kalman filter, path planning, perception, & navigation.



Programming

ROS 2, MATLAB/Simulink, Gazebo, & AI/ML frameworks.

Professional Competencies



Ethics & Sustainability



Communication



Teamwork & Leadership



Project Management



Lifelong Learning

Specialized Competencies



UAV/Drone Systems



Satellite & Space Systems



AI & Autonomous Navigation

Job Opportunity

Low-Altitude Economy & Industry

- UAV/drone engineer
- Drone operator and data analysts
- Urban air engineer (UAM/eVTOL)
- Maintenance and safety engineer

Surveillance Applications

- Maritime surveillance engineer
- Developer of surveillance vehicle
- Satellite & aerospace system for disaster monitoring & response

Research, Education, and Innovation

- Researcher at drone R&D center
- Lecturer at universities and institutes
- International co-project (USA, China, France, Japan, etc)

Other Sectors

- Technology companies
- Founding drone tech startup
- International career in aerospace & high-tech companies