



International Mobility & Scholarships

Dr Nawel SOUISSI

Director of Studies

- Overview of Airline Flight Academy
- Overview of ESAT University
- R&D In Aeronautical Engineering
- Students Mobility
- Chinese Government - Scholarship Recipients
- ISTAT - Scholarship Recipients
- Academic & Industry Partners

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Overview of Airline Flight Academy

Pilot training at the AFA can be carried out according to models in order to obtain:

- ▶ Tunisie Licence (ICAO)
- ▶ Algerian Licence (ICAO)
- ▶ Libyan Licence (ICAO)
- ▶ EASA Licence (German Civil Aviation)

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Our Air Fleets

The AFA has undertaken a major investment plan in the renewal of its fleet since 2009 and became the first TECNAM operator in Tunisia in 2010. A modern, homogeneous fleet of 16 aircraft equipped with the latest technical innovations.



- ▶ (5) TECNAM
- ▶ (2) TECNAM P92JS
- ▶ (3) AT-3
- ▶ (3) TECNAM P2006T G 950
- ▶ (1) DA42 G1000



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Our Simulators

FNPTII –MECHTRONIX Simulator

FTD Boeing B737-800 Simulator

FTD A320 Airbus Simulator



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Overview of ESAT University

Departments:

- Aeronautical Engineering*
- Geomatics & Topography Engineering*
- New Information Technologies & Communication*
- Automotive Mechanics and Mechatronics*

Curriculum:

- Preparatory cycle (2 years)
- National Engineering Diploma(3ans) :
 - Aeronautics
 - Geomatics & Topography
 - Networks &Telecommunication
 - Computer Programming
- Master Degree (2 years):
 - Renewable Energies
 - Networks &Telecommunication
- Bachelor Degree in Automotive Mechanics and Mechatronics (3 years)

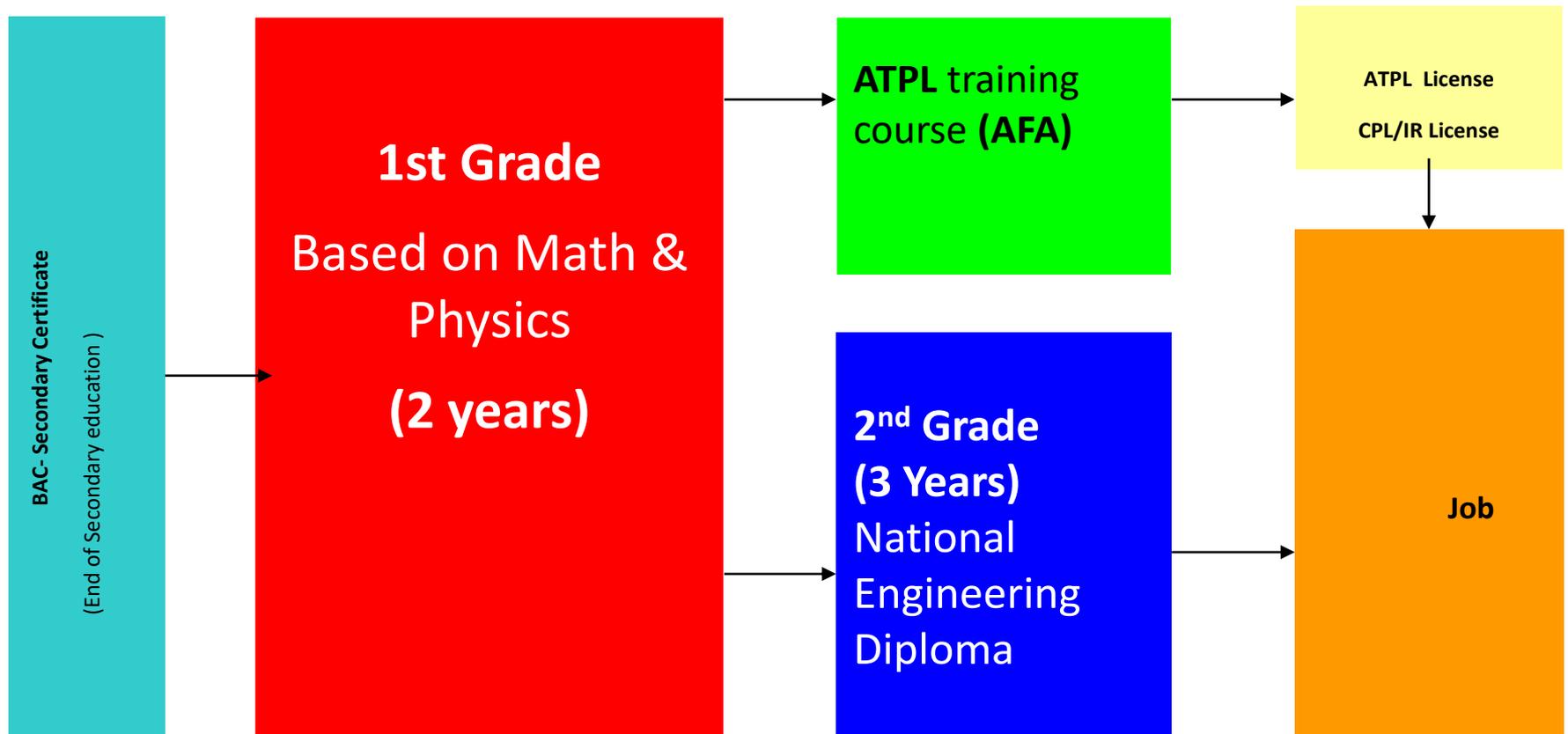
Vocational Training, Certification & refresher courses:

- Aircraft Maintenance, Air Traffic engineers & Managers
- Geomatics & Topography Technicians, Engineers & Managers



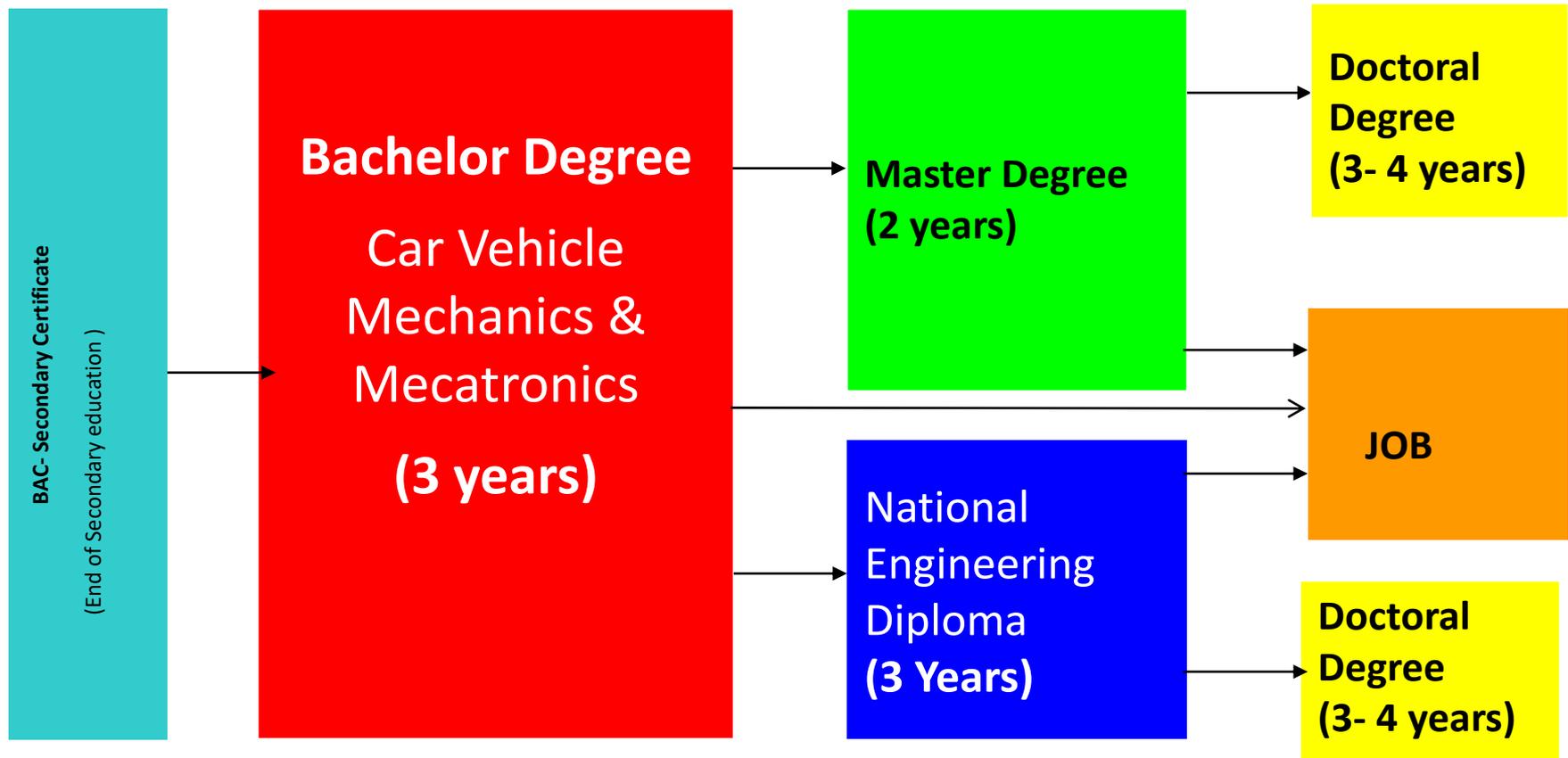
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CURRICULUM FLOWCHART (Engineering)



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CURRICLUM FLOWCHART (LMD System)



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National Engineering Diploma in Aeronautics

The three-year training includes a set of disciplines and an internship program, mini projects, and work on simulator.

1st year: APPLIED MATHEMATICS, MECHANICS, AERODYNAMICS, AVIONICS, ELECTRONICS, COMPUTER PROGRAMMING, ELECTRONIC CIRCUIT LAB, AIRCRAFT MAINTENANCE WORKSHOP, MATLAB, CAD-CATIA, ENGLISH, ECONOMICS.

2nd year: AIRCRAFT STRUCTURES, FLIGHT MECHANICS, THERMAL TRANSFERT, TERMAL MACHINES & REACTORS, SIGNAL PROCESSING, ENGLISH, EMBEDDED SYSTEMS, NON DESTRUCTIVE TESTING-NDT, MATLAB, CAD-CATIA.

3rd year: AIRCRAFT CERTIFICATION, PRODUCTION MANAGEMENT, AEROELASTICITY-FLUID MECHANICS, COMPOSITE MATERIALS, RADAR TELECOM, FINITE ELEMENTS-FEM, NUMERICAL SIMULATION-ABAQUS, QUALITY SYSTEM, ENGLISH, MATLAB, CAD-CATIA, GRADUATION RESEARCH PROJECT (6th Semester).

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R&D In Aeronautical Engineering

ESAT University has contributed to the R&D in the Aeronautical Engineering Area since 2008 with about 240 Graduation Research Projects together with several partners:

- MRO Maintenance and Overhaul Organization Part 147**
- Airline Companies**
- Government Organization Acting in the Aviation sector**
- Aircraft assembly and parts manufacturing**
- Design & Development centers**

Statistics:

- Year 2007-2008: 5 Research Projects*
- Year 2008-2009: 9 Research Projects*
- Year 2009-2010: 10 Research Projects*
- Year 2010-2011: 10 Research Projects*
- Year 2011-2012: 32 Research Projects*
- Year 2012-2013: 34 Research Projects*
- Year 2013-2014: 51 Research Projects*
- Year 2014-2015: 52 Research Projects*
- Year 2015-2016: 50 Research Projects*
- Year 2016-2017: 56 Research Projects*
- Year 2017-2018: 49 Research Projects*
- Year 2018-2019: 40 Research Projects (in progress)*

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Students Mobility - Europe



Université de Bordeaux 1 - France

Internship & Research Projects: Total 5 students

Academic year 2007-2008 :

2 Graduation Research Projects for 6 months

5 Students: Ben Aba Meriem, Ben Sassi Brahim, Bouslah Mourad, Ben Mzaker Bessem, Nasr Zaafrane Naim

Technical Brunswick University Germany

Internship & Research Projects: Total 1 student

Academic year 2016-2017 :

1 Graduation Research Project for 6 months

Student Name: Mohamed Amine Hamdi

Middle east Technical University METU, Ankara Turkey

Students mobility Program (ERASMUS)

Academic year 2016-2017 : 1 semester

8 students : *Mejri Rami, Malek Khalledi, Samet Ahmed, Ben Mehrez Med Abed, Sahnoun Hamdi, Khabouchi Hiba, Chedly Wassim, Romdhani Ines*

Academic year 2018-2019 : 1 semester

6 students : *Rami Souayah, Mohamed Karim Mattoussi, Issam Boughanmi, Arnaud Judicael Kuate Kankeu, Khalil Jrad, Asma Bennour*



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Students Mobility – North America



ÉTS Ecole de Technologie Supérieure Montréal Canada

Internship & Research Projects: Total 5 students

Academic year 2012-2013 :

1 Graduation Research Project for 6 months with scholarship
Student Name: Ahmed Boudhina

Academic year 2013-2014 :

3 Graduation Research Projects for 6 months with scholarship
Students: Lylia Meliane; Atef ETTOUMI; Elyès El Khiari

Academic year 2015-2016 :

1 Graduation Research Project for 6 months with scholarship
Student: Aymen ben Khmis

Ecole Polytechnique de Montréal Canada

Internship & Research Projects: Total 1 student

Academic year 2013-2014 :

1 Graduation Research Project for 6 months with scholarship
Student Name: Mouadh TAHRI



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Chinese Government - Scholarship Recipients



Shenyang Aerospace University, China

2 years Master Degree in Aeronautical engineering :

- Academic year 2013-2014 : Mr Mohamed Bellil
- Academic year 2014-2015 : Mr Ayari Ahmed
- Academic year 2015-2016 : Mr Adhoum Yassine
Mr Ashref Riahi
- Academic year 2016-2017 : Ms Rouis Abir
Ms Hermi Imen
- Academic year 2017-2018 : Ms Chourouk ben Hassine
Ms Othman Soumya
- Academic year 2018-2019 : (selection in progress)



Nanjing University of Aeronautics & Astronautics, China

2 years Master Degree in Aeronautical engineering :

- Academic year 2017-2018 : Mr Sassi Oussama
Mr Chkili Housseem

Beijing Institute of Technology, China

2 years Master Degree in Aeronautical engineering :

- Academic year 2018-2019 : 3 scholarships (selection in progress)



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Students Mobility – Asia



Shenyang Aerospace University, China

Internship & Research Projects: Total 15 students

Academic year 2014-2015 :

2 Graduation Research Project for 6 months

Academic year 2015-2016

4 Graduation Research Projects for 6 months

Academic year 2016-2017

3 Graduation Research Projects for 6 months

Academic year 2017-2018

6 Graduation Research Projects for 6 months

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ISTAT- Scholarship Recipients

Financial Support for one academic year (3600\$):

- ❑ **Academic year 2013-2014 :**
(3 recipients)
 - Ms Yosra Mannai
 - Ms Kodes Saouk
 - Mr Amir ben Othman
- ❑ **Academic year 2014-2015 :**
(3 recipients)
 - Mr Ellouzi Chadi
 - Ms Abdelkefi Nourelhouda
 - Ms Chourouk ben Hassine
- ❑ **Academic year 2015-2016 :**
(3 recipients)
 - Mr Khalladi Malek
 - Mr Mejri Anouar
 - Ms Nedra Jebalia
- ❑ **Academic year 2016-2017 :**
 - Ms Ben Aoun Meriem
 - Ms Guerchy Safa
 - Mr Boukhari Montasser

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International Graduation Research Projects for Engineers 2017-2018

24 students are accepted in internships for 6 months with scholarships with our partners in Spain, France, Slovenia, China:

- Aeronautical engineering**
- Geomatics & Topography**
- Bachelor in Auto Mechanics**



Stages de Projet de Fin d'Etudes
*Filières : Aéronautique- Géomatique et Topographie
- Mécanique Auto*
PFE 2017-2018 à l'étranger



Les Partenaires :










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ACADEMIC PARTNERS



University of Ljubljana



TRANSPORT AND TELECOMMUNICATION INSTITUTE



UNIVERSIDAD DE MÁLAGA



Universidad de Jaén



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INDUSTRY PARTNERS



THANK YOU FOR YOUR ATTENTION



الطيران



أكاديمية

AIRLINE FLIGHT ACADEMY

www.afa.com.tn



UNIVERSITY

www.esat.ens.tn