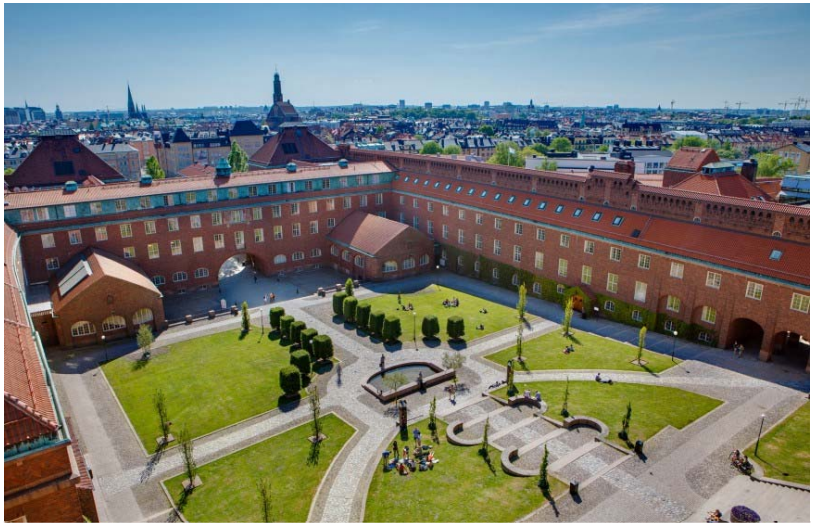
ALMA MATER STUDIORUM UNIVERSITA' DI BOLOGNA
MASTER DEGREE IN AEROSPACE ENGINEERING- FORLÌ CAMPUS



DUAL DEGREE PROGRAMME IN AEROSPACE ENGINEERING

with

ROYAL INSTITUTE OF TECHNOLOGY- KTH, SWEDEN

Dual Degree

- A Dual Degree is an **integrated study programme** offered upon the agreement between at least 2 universities of different countries.
- The integrated study programme and the regulations for the award of the degree diploma is defined within the **agreement**.
- Students will carry out part of their academic career at the host university (**1 academic year**).
- At the end of the study programme, students are awarded the **degree diploma of both universities**, legally valid in both countries.

Unibo

KTH

Dual Degree UNIBO-KTH

Students participating in this programme will gain a Dual degree in

- “Laurea Magistrale in Aerospace Engineering” from the University of Bologna (2-year degree programme, 120 ECTS/CFU)

and

- “Master Degree in Aerospace Engineering” from KTH (2-year degree programme, 120 ECTS/CFU)

The Dual Degree Programme Structure

- Students must earn **no less than 55 CFU/ECTS** and no **more than 65 CFU/ECTS**, included the final thesis.
- The amount of credits earned at UNIBO and KTH must sum up to **120 ECTS**.
- Students partecipating in the mobility programme are **exempt from** paying the university admission **fee at KTH**, exept for the degree granting fee if required. Students will continue paying fees at UNIBO.
- The common integrated study programme is attached to the **Agreement** together with **correspondence tables.**

The Dual Degree Programme Structure

- The study programme will be individually defined for each student according to the correspodence table. Most of the exams are set, some elective exams can be chosen

- For the **final degree project**, both institutions nominate one examiner who is responsible for the arrangement of the topic and subject area of the project; it must always receive an advanced approval in writing and it will be carried out under the supervision of the examiner of the host institution.

- Students will obtain the **degree qualification** at the University where they defend their final dissertation -> KTH for UNIBO students

Study Programme Mobility

ANNEX 2A

Study programme for students from UNIBO
from 2015-2016

FIRST YEAR AT UNIBO (Sept17- Aug 18)

I YEAR @ UNIBO	CREDITS	PERIOD	YEAR
APPLIED AERODYNAMICS A	6	1	1
APPLIED AERODYNAMICS B	6	1	1
ATMOSPHERE FLIGHT DYNAMICS A	6	2	1
ATMOSPHERE FLIGHT DYNAMICS B	6	2	1
MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
AEROSPACE STRUCTURES A	6	1	2
AEROSPACE STRUCTURES B	6	1	2
NUMERICAL ANALYSIS	6	2	1
2 ELECTIVE COURSES (SEE TABLE 1)	12		1
CREDITS FIRST YEAR	**60**		

SECOND YEAR AT KTH (Aug18-Aug19)

II YEAR @ KTH	CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
SD2810 Aeroelasticity	9	1	2	DESIGN METHODS IN THE AEROSPACE INDUSTRY	9	1	2
AK2030 Theory and Methodology of Science (Natural and Technological Science)	4,5	1	1				
MJ2241 Jet Propulsion Engines, General Course	6	1	2	AEROSPACE PROPULSION SYSTEM	9	1	1
EL2520 Control Theory and Practice, Advanced Course	7,5	2	2	AUTOMATIC FLIGHT CONTROL	6	1	2
1 ELECTIVE COURSE (SEE TABLE 2)	3			1 ELECTIVE COURSE (SEE TABLE 2)	6		
THESIS	30		2	THESIS	30		
CREDITS SECOND YEAR	**60**			**CREDITS SECOND YEAR**	**60**		
TOTAL CREDITS - KTH DEGREE (60+60)	**120**			**TOTAL CREDITS - UNIBO DEGREE (60+60)**	**120**		

Elective courses

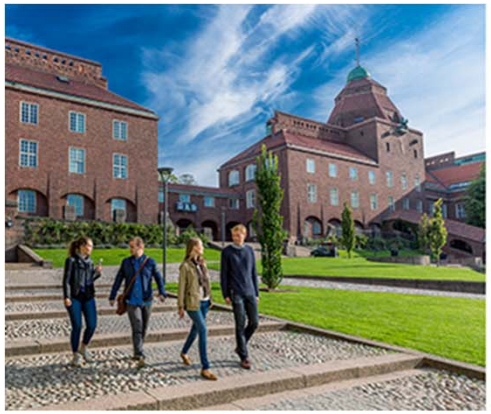
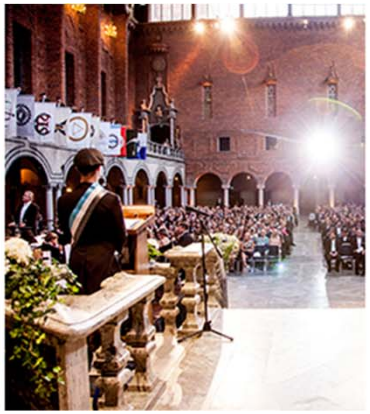
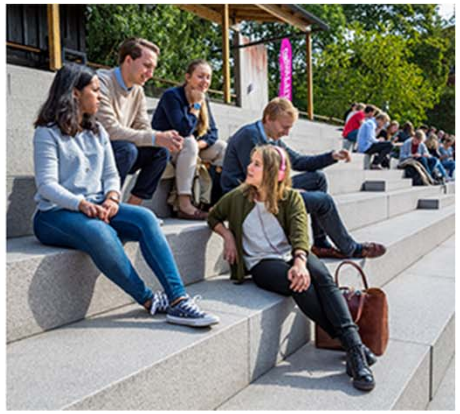
O	SG2215 Compressible Flow	7,5	Aerospace Technologies and Materials	6
O	SG2212 Computational Fluid Dynamics	7,5	"	6
O	SD2415 Process Modelling for Composite Manufacturing	6	"	6
O	SE2129 Fracture Mechanics and Fatigue	9	"	6
O	SD2432 Lightweight Design	20	"	6
O	SD2413 Fibre Composites - Analysis and Design	6	"	6
O	MJ2246 Rocket Propulsion	6	"	6
O	SD2414 Fibre Composites - Materials and Manufacturing	6	"	6
O	SD2450 Biomechanics and Neuronics	6	"	6
O	SD2905 Human Spaceflight	7,5	Spacecraft Attitude Dynamics and Control	6
O	AH2923 Global Navigation Satellite Systems (GNSS)	7,5	"	6
O	SD2900 Fundamentals of Spaceflight	7,5	"	6
O	SG2805 Spacecraft Dynamics	9	"	6
O	EF2240 Space Physics	6	"	6
O	EF2260 Space Environment and Spacecraft Engineering	6	"	6
O	SD2450 Biomechanics and Neuronics	6	"	6

TEACHING CALENDAR at KTH

Autumn term	**28 August 2017- 15 January 2018** 2 teaching periods and two exams periods
Spring term	**16 January 2018- 4 June 2018** 2 teaching periods and two exams periods

ACADEMIC LIFE at KTH

https://www.kth.se/en/studies/why-kth

How to apply

Starting from this year, applications must be made **only through the Erasmus+ 2018/2019 call for applications**, open from January 10th to **February 13th 2018**.

Interested students must meet the Erasmus+ requirements plus the additional requirements indicated in the call for applications.

Additional documents to upload:

-CV written in English

-B2 language certificate

-proposed study plan

The **compulsory interview** in English language will be carried out on **February 22 nd 2018** from 12.00.

The **2 selected students** will receive a **financial contribution** during their mobility to KTH through the **Erasmus+ mobility for studies.** Please read carefully the Call for applications at the following page:

http://www.unibo.it/en/international/Studying-abroad/General-information-on-Erasmus/Participation-methods

Contact Details for KTH and UNIBO

Academic representatives and administrative referents for the Programme

Unibo Academic representative Prof. Paolo Tortora Via Fontanelle 40, 47122 Forlì (FC) Ph. +39 0543 3 74456 Email: paolo.tortora@unibo.it _____ Prof. Alessandro Talamelli Via Fontanelle 40, 47122 Forlì (FC) Ph. +39 0543 3 74423 Email: alessandro.talamelli@unibo.it _____	Unibo administrative referent Ms Giulia Chiadini School of Engineering and Architecture Via Fontanelle 40, 47122 Forlì (FC) Ph. +39 0543 3 74416 Email: cdlm.ae@unibo.it giulia.chiadini2@unibo.it web: www.unibo.it/AerospaceEngineering _____
KTH Academic representative Responsible Prof. Christer Fuglesang E-mail cfug@kth.se Telephone +46 8 790 64 65 Link www.kth.se/profile/cfug/	Ms. My Delby Master Coordinator School of Engineering Sciences Teknikringen 8, SE-100 44 Stockholm, Sweden Phone: +46-8-790 7163 Email: master@sci.kth.se

THANK YOU FOR YOUR ATTENTION!

Ms. Giulia Chiadini