

ANNEX 2A

Study programme for students from UNIBO (2015-2016)

FIRST YEAR AT UNIBO (Sept15-Aug16)

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 (Aug16-Aug17)

NOTE	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 Techn)	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
OPTIONAL	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		

ANNEX 2B

Study programme for students from KTH (2015-2016) - Track: Aeronautics

FIRST YEAR AT KTH (Aug15-Sept16)

	I YEAR @ KTH	CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
COMPULSORY	SD2411 Lightweight Structures and FEM	8	1	1	AEROSPACE STRUCTURES A	6	1	2
	SD2900 Fundamentals of Spaceflight	7,5	1	1	AEROSPACE STRUCTURES B	6	1	2
	SD2601 Fundamentals of Flight	7,5	1	1	ATMOSPHERE FLIGHT DYNAMICS A	6	2	1
COMPULSORY	AK2030 Theory and Methodology of Science (Natural and Techn)	4,5	1	1	ATMOSPHERE FLIGHT DYNAMICS B	6	2	1
	SF2863 Systems Engineering	7,5	1	1	MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
					APPLIED AERODYNAMICS A	6	1	1
	SD2805 Flight Mechanics	9	2	1	APPLIED AERODYNAMICS B	6	1	1
	2 ELECTIVE COURSES (SEE TABLE 3A)	16			NUMERICAL ANALYSIS	6	2	1
	CREDITS FIRST YEAR	60			CREDITS FIRST YEAR	60		

** not chosen the 2 year

SECOND YEAR AT UNIBO (Sept16-Sept17)

	II YEAR @ UNIBO	CREDITS	PERIOD	YEAR		CREDITS	PERIOD	YEAR
COMPULSORY	AEROSPACE PROPULSION SYSTEM	9	1	1				
	AUTOMATIC FLIGHT CONTROL	6	1	2				
	DESIGN METHODS IN THE AEROSPACE INDUSTRY	9	1	2				
	1 ELECTIVE COURSE (SEE TABLE 4)	6						
	THESIS	30		2				
	CREDITS SECOND YEAR	60			TOTAL CREDITS - UNIBO DEGREE (60+60)	120		
	TOTAL CREDITS - KTH DEGREE (60+60)	120						

Study programme for students from KTH (2015-2016) Track: Lightweight structures

FIRST YEAR AT KTH (Aug15-Sept16)

	I YEAR @ KTH	CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
COMPULSORY	SD2411 Lightweight Structures and FEM	8	1	1	AEROSPACE STRUCTURES A	6	1	2
	SD2900 Fundamentals of Spaceflight	7,5	1	1	AEROSPACE STRUCTURES B	6	1	2
	SD2601 Fundamentals of Flight	7,5	1	1	ATMOSPHERE FLIGHT DYNAMICS A	6	2	1
COMPULSORY	AK2030 Theory and Methodology of Science (Natural and Techn)	4,5	1	1	ATMOSPHERE FLIGHT DYNAMICS B	6	2	1
	SF2863 Systems Engineering	7,5	1	1	MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
					APPLIED AERODYNAMICS A	6	1	1
	SD2413 Fibre Composites - Analysis and Design	6	2	1	APPLIED AERODYNAMICS B	6	1	1
	SD2414 Fibre Composites - Materials and Manufacturing	6	2	1	NUMERICAL ANALYSIS	6	2	1
	ELECTIVE COURSES (SEE TABLE 3B)	13			2 ELECTIVE COURSES (SEE TABLE 4)**	12		
	CREDITS FIRST YEAR	60			CREDITS FIRST YEAR	60		

** not chosen the 2 year

SECOND YEAR AT UNIBO (Sept16-Sept17)

II YEAR @ UNIBO		CREDITS	PERIOD	YEAR
COMPULSORY	AEROSPACE PROPULSION SYSTEM	9	1	1
	AUTOMATIC FLIGHT CONTROL	6	1	2
	DESIGN METHODS IN THE AEROSPACE INDUSTRY	9	1	2
1 ELECTIVE COURSE (SEE TABLE 4)		6		
THESIS		30		2
CREDITS SECOND YEAR		60		

TOTAL CREDITS - KTH DEGREE (60+60) 120

TOTAL CREDITS - UNIBO DEGREE (60+60) 120

Study programme for students from KTH (2015-2016) Track: Space
FIRST YEAR AT KTH (Aug15-Sept16)

I YEAR @ KTH		CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO		CREDITS	PERIOD	YEAR
COMPULSORY	SD2411 Lightweight Structures and FEM	8	1	1	AEROSPACE STRUCTURES A	6	1	2	
	SD2900 Fundamentals of Spaceflight	7,5	1	1	AEROSPACE STRUCTURES B	6	1	2	
	SD2601 Fundamentals of Flight	7,5	1	1	ATMOSPHERE FLIGHT DYNAMICS A	6	2	1	
COMPULSORY	AK2030 Theory and Methodology of Science (Natural and Techn	4,5	1	1	ATMOSPHERE FLIGHT DYNAMICS B	6	2	1	
	SF2863 Systems Engineering	7,5	1	1	MATHEMATICAL METHODS FOR ENGINEERING	6	1	1	
	SG2805 Spacecraft Dynamics	9	2	1	APPLIED AERODYNAMICS A	6	1	1	
	SD2920 System Integration for Space Technology, Part 1	3	2	1	APPLIED AERODYNAMICS B	6	1	1	
	ELECTIVE COURSES (SEE TABLE 3C)	13			NUMERICAL ANALYSIS	6	2	1	
CREDITS FIRST YEAR		60			2 ELECTIVE COURSES (SEE TABLE 4)**		12		
CREDITS FIRST YEAR		60			CREDITS FIRST YEAR		60		

** not chosen the 2 year

SECOND YEAR AT UNIBO (Sept16-Sept17)

II YEAR @ UNIBO		CREDITS	PERIOD	YEAR
COMPULSORY	AEROSPACE PROPULSION SYSTEM	9	1	1
	AUTOMATIC FLIGHT CONTROL	6	1	2
	DESIGN METHODS IN THE AEROSPACE INDUSTRY	9	1	2
1 ELECTIVE COURSE (SEE TABLE 4A)		6		
THESIS		30		2
CREDITS SECOND YEAR		60		

TOTAL CREDITS - KTH DEGREE (60+60) 120

TOTAL CREDITS - UNIBO DEGREE (60+60) 120

Study programme for students from KTH (2015-2016) Track: Systems Engineering
FIRST YEAR AT KTH (Aug15-Sept16)

I YEAR @ KTH		CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO		CREDITS	PERIOD	YEAR
COMPULSORY	SD2411 Lightweight Structures and FEM	8	1	1	AEROSPACE STRUCTURES A	6	1	2	
	SD2900 Fundamentals of Spaceflight	7,5	1	1	AEROSPACE STRUCTURES B	6	1	2	
	SD2601 Fundamentals of Flight	7,5	1	1	ATMOSPHERE FLIGHT DYNAMICS A	6	2	1	
COMPULSORY	AK2030 Theory and Methodology of Science (Natural and Techn	4,5	1	1	ATMOSPHERE FLIGHT DYNAMICS B	6	2	1	
	SF2863 Systems Engineering	7,5	1	1	MATHEMATICAL METHODS FOR ENGINEERING	6	1	1	
	EL2520 Control Theory and Practice, Advanced Course	7,5	2	1	APPLIED AERODYNAMICS A	6	1	1	
	SF2812 Applied Linear Optimization	7,5	2	1	APPLIED AERODYNAMICS B	6	1	1	
	SF2852 Optimal Control Theory	7,5	2	1	NUMERICAL ANALYSIS	6	2	1	
ELECTIVE COURSES (SEE TABLE 3D)		6			2 ELECTIVE COURSES (SEE TABLE 4)**		12		
CREDITS FIRST YEAR		63,5			CREDITS FIRST YEAR		60		

** not chosen the 2 year

SECOND YEAR AT UNIBO (Sept16-Sept17)

II YEAR @ UNIBO		CREDITS	PERIOD	YEAR
COMPULSORY	AEROSPACE PROPULSION SYSTEM	9	1	1
	AUTOMATIC FLIGHT CONTROL	6	1	2
	DESIGN METHODS IN THE AEROSPACE INDUSTRY	9	1	2
1 ELECTIVE COURSE (SEE TABLE 4)		6		
THESIS		30		2
CREDITS SECOND YEAR		60		

TOTAL CREDITS - KTH DEGREE (63,5+60) 120

TOTAL CREDITS - UNIBO DEGREE (60+60) 120