

## ANNEX 2

### Study programme for students from UNIBO (from a.y. 2022-2023)

#### FIRST YEAR AT UNIBO (Sept22-Aug23)

I YEAR @ UNIBO	CREDITS	PERIOD	YEAR
AEROSPACE STRUCTURES	6	1	1
FATIGUE AND DAMAGE TOLERANCE	6	1	1
ATMOSPHERIC FLIGHT DYNAMICS	6	2	1
HELICOPTERS	6	2	1
MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
APPLIED AERODYNAMICS	6	1	1
FLOW STABILITY AND TURBULENCE	6	1	1
NUMERICAL ANALYSIS	6	1	1
2 ELECTIVE COURSES (SEE TABLE 1)	12	1	1
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

EQUIVALENT @ KTH	CREDITS	PERIOD	YEAR
SD2411 Lightweight Structures and FEM	8	1	1
SD2900 Fundamentals of Spaceflight	7,5	1	1
SD2601 Fundamentals of Flight	7,5	1	1
ELECTIVE COURSE	4,5	1	1
SF2863 Systems Engineering	7,5	1	1
SD2805 Flight Mechanics	9	2	1
2 ELECTIVE COURSES (SEE TABLE 2)	16		
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

#### SECOND YEAR AT KTH (Aug23-Aug24)

II YEAR @ KTH	CREDITS	PERIOD	YEAR
SD2810 Aeroelasticity	9	2	2
AK2030 Theory and Methodology of Science (Natural and Technolo	4,5	1	1
MJ2523 Aircraft Propulsion, General Course	6	1	2
SD2806 Transonic and supersonic aircraft aerodynamics	6	1	2
1 ELECTIVE COURSE (SEE TABLE 2)	4,5		
THESIS	30	2	2
<b>CREDITS SECOND YEAR</b>	<b>60</b>		

EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
DESIGN METHODS IN THE AEROSPACE INDUSTRY	6	1	2
EXPERIMENTAL METHODS IN AERODYNAMICS	6	1	2
AEROSPACE TECNOLOGIES AND MATERIALS	6	1	1
UNMANNED SYSTEMS	6	1	2
1 ELECTIVE COURSE (SEE TABLE 4A)	6	1	2
INTERNSHIP ABROAD	6		
THESIS	24		
<b>CREDITS SECOND YEAR</b>	<b>60</b>		

**TOTAL CREDITS - KTH DEGREE (60+60) 120**

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### Study programme for students from KTH (from a.y. 2022-2023) - Lightweight Structures

#### FIRST YEAR AT KTH (Aug22-Aug23)

I YEAR @ KTH	CREDITS	PERIOD	YEAR
SD2411 Lightweight Structures and FEM	8	1	1
SD2900 Fundamentals of Spaceflight	7,5	1	1
SD2601 Fundamentals of Flight	7,5	1	1
AK2030 Theory and Methodology of Science (Natural and Technolo	4,5	1	1
SF2863 Systems Engineering	7,5	1	1
SD2413 Fibre Composites - Analysis and Design	6	2	1
SD2414 Fibre Composites - Materials and Manufacturing	6	2	1
ELECTIVE COURSES (SEE TABLE 2)	13		
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
AEROSPACE STRUCTURES	6	1	1
FATIGUE AND DAMAGE TOLERANCE	6	1	1
ATMOSPHERIC FLIGHT DYNAMICS	6	2	1
HELICOPTERS	6	2	1
MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
APPLIED AERODYNAMICS	6	1	1
FLOW STABILITY AND TURBULENCE	6	1	1
NUMERICAL ANALYSIS	6	1	1
2 ELECTIVE COURSES (SEE TABLE 1)	12	1	1
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

#### SECOND YEAR AT UNIBO (Sept23-Sept24)

II YEAR @ UNIBO	CREDITS	PERIOD	YEAR
DESIGN METHODS IN THE AEROSPACE INDUSTRY	6	1	2
EXPERIMENTAL METHODS IN AERODYNAMICS	6	1	2
AEROSPACE TECNOLOGIES AND MATERIALS	6	1	1
UNMANNED SYSTEMS	6	1	2
1 ELECTIVE COURSE (SEE TABLE 4A)	6	1	2
INTERNSHIP ABROAD	6		
THESIS	24		
<b>CREDITS SECOND YEAR</b>	<b>60</b>		

EQUIVALENT @ KTH	CREDITS	PERIOD	YEAR
SD2415 Process Modelling for Composite Manufac	6	1	2
SD2416 Structural Optimisation and Sandwich Des	6	1	2
ELECTIVE COURSES (SEE TABLE 2)	6	1	2
ELECTIVE COURSES (SEE TABLE 2)	12	1	2
THESIS	30	2	2
<b>CREDITS SECOND YEAR</b>	<b>60</b>		

**TOTAL CREDITS - KTH DEGREE (60+60) 120**

**TOTAL CREDITS - UNIBO DEGREE (60+60) 120**

### Study programme for students from KTH (from a.y. 2022-2023) Track: Aeronautics

#### FIRST YEAR AT KTH (Aug22-Aug23)

I YEAR @ KTH	CREDITS	PERIOD	YEAR
SD2411 Lightweight Structures and FEM	8	1	1
SD2900 Fundamentals of Spaceflight	7,5	1	1
SD2601 Fundamentals of Flight	7,5	1	1
AK2030 Theory and Methodology of Science (Natural and Technolo	4,5	1	1
SF2863 Systems Engineering	7,5	1	1
SD2805 Flight Mechanics	9	2	1
2 ELECTIVE COURSES (SEE TABLE 2)	16		
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
AEROSPACE STRUCTURES	6	1	1
FATIGUE AND DAMAGE TOLERANCE	6	1	1
ATMOSPHERIC FLIGHT DYNAMICS	6	2	1
HELICOPTERS	6	2	1
MATHEMATICAL METHODS FOR ENGINEERING	6	1	1
APPLIED AERODYNAMICS	6	1	1
FLOW STABILITY AND TURBULENCE	6	1	1
NUMERICAL ANALYSIS	6	1	1
2 ELECTIVE COURSES (SEE TABLE 1)	12		
<b>CREDITS FIRST YEAR</b>	<b>60</b>		

#### SECOND YEAR AT UNIBO (Sept23-Sept24)

II YEAR @ UNIBO	CREDITS	PERIOD	YEAR	EQUIVALENT @ KTH	CREDITS	PERIOD	YEAR
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DESIGN METHODS IN THE AEROSPACE INDUSTRY	6	1	2	SD2810 Aeroelasticity	9	1	2
EXPERIMENTAL METHODS IN AERODYNAMICS	6	1	2				
AEROSPACE TECHNOLOGIES AND MATERIALS	6	1	1	ELECTIVE COURSES (SEE TABLE 2)	6	1	2
UNMANNED SYSTEMS	6	1	2	ELECTIVE COURSES (SEE TABLE 2)	15	1	2
1 ELECTIVE COURSE (SEE TABLE 4A)	6	1	2				
INTERNSHIP ABROAD	6			THESIS	30	2	2
THESIS	24						
<b>CREDITS SECOND YEAR</b>	<b>60</b>			<b>CREDITS SECOND YEAR</b>	<b>60</b>		
<b>TOTAL CREDITS - KTH DEGREE (60+60)</b>	<b>120</b>			<b>TOTAL CREDITS - UNIBO DEGREE (60+60)</b>	<b>120</b>		

**Study programme for students from KTH (from a.y. 2022-2023) Track: Systems Engineering**  
**FIRST YEAR AT KTH (Aug22-Aug23)**

I YEAR @ KTH	CREDITS	PERIOD	YEAR	EQUIVALENT @ UNIBO	CREDITS	PERIOD	YEAR
SD2411 Lightweight Structures and FEM	8	1	1	AEROSPACE STRUCTURES	6	1	1
SD2900 Fundamentals of Spaceflight	7,5	1	1	FATIGUE AND DAMAGE TOLERANCE	6	1	1
SD2601 Fundamentals of Flight	7,5	1	1	ATMOSPHERIC FLIGHT DYNAMICS	6	2	1
AK2030 Theory and Methodology of Science (Natural and Technology)	4,5	1	1	HELICOPTERS	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	6	1	1
ELECTIVE COURSES (SEE TABLE 3A)	17,5			FLOW STABILITY AND TURBULENCE	6	1	1
<b>CREDITS FIRST YEAR</b>	<b>60</b>			NUMERICAL ANALYSIS	6	1	1
				2 ELECTIVE COURSES (SEE TABLE 1)	12		
				<b>CREDITS FIRST YEAR</b>	<b>60</b>		

**SECOND YEAR AT UNIBO (Sept23-Sept24)**

II YEAR @ UNIBO	CREDITS	PERIOD	YEAR	EQUIVALENT @ KTH	CREDITS	PERIOD	YEAR
DESIGN METHODS IN THE AEROSPACE INDUSTRY	6	1	2	SF2852 Optimal Control Theory	7,5	1	2
EXPERIMENTAL METHODS IN AERODYNAMICS	6	1	2	ELECTIVE COURSES (SEE TABLE 3B)	6	1	2
AEROSPACE TECHNOLOGIES AND MATERIALS	6	1	1	ELECTIVE COURSES (SEE TABLE 3B)	6	1	2
UNMANNED SYSTEMS	6	1	2	ELECTIVE COURSES (SEE TABLE 3B)	10,5	1	2
1 ELECTIVE COURSE (SEE TABLE 4A)	6	1	2				
INTERNSHIP ABROAD	6			THESIS	30	2	2
THESIS	24						
<b>CREDITS SECOND YEAR</b>	<b>60</b>			<b>CREDITS SECOND YEAR</b>	<b>60</b>		
<b>TOTAL CREDITS - KTH DEGREE (60+60)</b>	<b>120</b>			<b>TOTAL CREDITS - UNIBO DEGREE (60+60)</b>	<b>120</b>		