

Course Syllabus – Undergraduate Course in Lightweight Structures Technology Fatec São José dos Campos

1st. Term	2nd. Term	3rd. Term	4th. Term	5th. Term	6th. Term
Technical Design for Aeronautics I (2)	Technical Design for Aeronautics II (2)	Integrative Project I (2)	Integrative Project II (2)	Integrative Project III (2)	Defects and Repairs in Compound Structures(2)
Acquaintance with Aeronautics (2)	Materials I (4)	Materials II (4)	Machinery Elements (4)	Concepts of Composite Materials (4)	Composites Finish Process (2)
Basic Informatics (2)					Composites Assembly, Metallizing and Painting(2)
Introduction to Physics (2)	Electrical Measures Instruments (2)	Electronics I (2)	Thermal and Chemical Treatment (4)	Composite Materials Testing (4)	Processes of Composites (4)
Electricity (2)	Eletrot. and Electrical Machinery (2)	Tooling I (2)			
Introduction to Calculus (2)	Environment (2)	Fabrication Processes (4)	Automation (2)	Flight Safety (2)	Composite Projects (4)
Linear Algebra and Analytical Geometry (4)	Health and Safety at Work (2)		Projects (2)	Science of Polymers (2)	
	Social Law (2)	Research Methodology (2)	Vibrations (2)	Degradation and Recycling (2)	Topics on Production Engineering (4)
Statistics (2)	Physics (Wave)	Strength of Materials for Aeronautics (2)	Metrology (2)	Computer Aided Manufacturing (2)	
Portuguese Language (2)	Calculus for Aeronautics (2)	Hydraulics (2)	Pneumatics (2)	Logistics and PPCP* (2)	Undergraduate Project (2)
English Language for Aeronautics I (4)	English Language for Aeronautics I (4)	Transportation Phenomena (2)	Thermodynamics (2)	Statistics Applied to Quality (2)	Aeronautics Production Management (2)
		English Language for Aeronautics III (2)	English Language for Aeronautics IV (2)	English Language for Aeronautics III (2)	English Language for Aeronautics III (2)
Classes: Weekly-24 Term - 480	Classes:: Weekly - 24 Term - 480	Classes: Weekly - 24 Term - 480	Classes: Weekly - 24 Term - 480	Classes: Weekly - 24 Term - 480	Classes:: Weekly - 24 Term - 480

Curricular Internship: 240 hours as of the 4th. Term

Undergraduate Major Work: 160 hours as of the 5th. Term

Basic Core Subjects			Professional Core Subjects		
	Classes	%		Classes	%
Portuguese Language	40	1.4	Lightweight Structures Major-Specific Subjects	760	26.4
English Language - Basic	320	11.1	Specific Subjects	760	26.4
Mathematics and Statistics	240	8.3	Management	40	1.4
Physics	400	13.9	Cross-Studies (Multidisciplinary)	320	11.1
Totals	1000	34.7	Totals	1880	65.3

COURSE LOAD SUMMARY:

2000 classes \rightarrow 2400 hours (fills the CNCST under CEE-SP Resolution 66 of 2009 requirements and CPS internal policies) + (240 hours

of CURRICULAR INTERNSHIP + 160 hours of Undergraduate Major Work) = **2.800 hours**

* PPCP - Production Planning, Programming and Control

CNCST - National Catalogue of Higher-Education Technology Courses

CEE-SP - State of São Paulo Council for Education

CPS - Paula Sousa Center