

Appendix 1: Overview of Modules, Status, Credit Points (CP)

Module No.	Complexes and Modules	Status	Rating	Credit Points
Subject Specialization				36
	Elective modules from the area of Subject Specialization ¹	E	Ex	36
Subject-specific Studies				42
	Elective modules from the area of Subject-specific Studies ²	E	Ex	42
Project Studies				6
13793	Study Project	C	Ex	6
Skills-enhancing Studies				6
	Interdisciplinary Studies (IDS) ³	E	Ex	6
Compulsory Internship				12
13790	Industrial Internship	C	As	12
Thesis				18
13789	Master's Thesis	C	Ex	18
Total				120

Ex: Examination, As: Assessment, CP: Credit Points

C: Compulsory Module, E: Elective Module

¹ pursuant to sect. 6 para. 2, Stud. a. Exam. Regul. HEPT-MSc, selectable from Appendix 2

² pursuant to sect. 6 para. 2, Stud. a. Exam. Regul. HEPT-MSc, selectable from Appendix 3

³ selectable from the current range of Interdisciplinary Studies (IDS) of the BTU

Appendix 2: Subject Specialization

Module No.	Module Title	CP
14049	Electrified Aero Engine	6
13956	Thermal Turbo Machines (Cycle Processes)	6
13801	Fundamentals of Engine Technology	6
13916	Fundamentals of Electrical Power Engineering	6
13835	Fundamentals of Electrical Drive Technology	6
11494	Control Engineering 1	6
13917	Aviation Industry Safety Processes and Standards	6
13249	Introduction to Gas Dynamics	6
11938	Thermodynamics, Heat and Mass Transfer	6

Appendix 3: Subject-specific Studies

Module No.	Module Title	CP	Major Field Engine Technology ¹	Major Field Electric Drive Technology ¹
13802	Core Engine Design 1	6	X	
13803	Core Engine Design 2	6	X	
13804	Engine Integration	6	X	
13805	Lifetime Assessment and Fracture Mechanics	6	X	
13926	Hydrogen and Fuel Cells	6	X	
13919	Testing and Certifications of Flight Propulsion Systems	6	X	
14050	Environmental Impact of Aero Engines	6	X	
13806	Compressor Aerodynamics	6	X	
13763	Flow Modeling with Machine Learning	6	X	
13519	CFD 1	6	X	
13762	CFD 2	6	X	
12887	Engineering Acoustics - Sound Fields	6	X	
13920	Unsteady Aero-Thermodynamics of Turbomachinery	6	X	
13921	Lightweight Design and Construction	6	X	
14055	Thermal Management Systems in Hybrid-Electric Propulsion Aviation	6	X	
11221	Fundamentals in Power Electronics	6		X
35437	Power Electronic Applications in Drive Systems	6		X
11747	Control Engineering 2	6		X
13918	Batteries	6		X
13919	Testing and Certifications of Flight Propulsion Systems	6		X
14050	Environmental Impact of Aero Engines	6		X
11191	EMC in Electrical Power Installations	6		X
13836	Electrical Machines for Flight Applications	6		X
11496	Research Seminar in Power Electronics	6		X
12887	Engineering Acoustics - Sound Fields	6		X
14055	Thermal Management Systems in Hybrid-Electric Propulsion Aviation	6		X

¹ Sect. 6, para.2, Stud. a. Exam. Regul. HEPT-MSc, applies to recognition as a focus.

Appendix 4: Standard Study Plan (allocation of modules and CP to semesters)

Focus Areas and Modules	Credit Points (CP) in Semester				Total CP
	1	2	3	4	
Subject Specialization					36
Elective module 1	6				
Elective module 2	6				
Elective module 3	6				
Elective module 4	6				
Elective module 5	6				
Elective module 6		6			
Subject-specific Studies					42
Elective module 1		6			
Elective module 2		6			
Elective module 3		6			
Elective module 4		6			
Elective module 5			6		
Elective module 6			6		
Elective module 7			6		
Project Studies					6
Study Project			6		
Skills-enhancing Studies					6
Interdisciplinary Studies (IDS)			6		
Compulsory Internship					12
Industrial Internship				12	
Thesis					18
Master's Thesis				18	
Total CP study load	30	30	30	30	120
Total CP achieved	30	30	30	30	120