Study plan

Name of study plan: Erasmus Mundus Master Course - SpaceMaster II

Faculty/Institute/Others: Faculty of Electrical Engineering Department: Branch of study guaranteed by the department: Welcome page Garantor of the study branch: Program of study: Cybernetics and Robotics Type of study: Follow-up master full-time Required credits: 121 Elective courses credits: -1 Sum of credits in the plan: 120 Note on the plan:

Name of the block: Compulsory courses in the program Minimal number of credits of the block: 118 The role of the block: P

Code of the group: 2016_SPACEMASTERP Name of the group: Compulsory subjects of the programme Requirement credits in the group: In this group you have to gain 118 credits Requirement courses in the group: In this group you have to complete 13 courses Credits in the group: 118 Note on the group:

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Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
XE35CSP	CanSat-Projekt	Z,ZK	8	2P+2S	Z	Р
XE35CSA	Theory of Dynamic Systems	Z,ZK	7	3P+1S	Z	Р
XE35DIP	Diploma Thesis	Z	30	14S	L	Р
XE35ELS	Electronics in Space	Z,ZK	7	2P+2S	L	Р
XE35IDP	Individual design project	Z	8	6S	Z	Р
XE35ISP	Introduction in Space Physics	Z,ZK	8	2P+2S	Z	Р
XE35ORO	Optic- and Radar-based Observations	Z,ZK	8	2P+2S	L	Р
XE35SDY	Space Dynamics	Z,ZK	4	2P+2S	Z	Р
XE35SPP	Space Physics	Z,ZK	8	2P+2C	Z	Р
XE35SSD	Spacecraft System Design	Z,ZK	8	2P+2S	Z	Р
XE35SEI	Spacecraft Environment Interactions	Z,ZK	7	2P+2S	L	Р

Characteristics of the courses of this group of Study Plan: Code=2016_SPACEMASTERP Name=Compulsory subjects of the programme

XE35CSP	CanSat-Projekt	Z,ZK	8		
XE35CSA	Theory of Dynamic Systems	Z,ZK	7		
System Approach. Obje	System Approach. Object, System, Model. Dynamic Systems Continuous and Discrete Time, Qualitative Analysis of Systems. Poincare Map, Chaos. Linear Systems. System Stability,				
Uncertainty and Robust	tness. Controllability and Observability. State Feedback, State Injection, Duality. Stochastic Systems, Realization of Stochasti	c Processes.			
XE35DIP	Diploma Thesis	Z	30		
Independent final comp	rehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his (or her branch of s	tudy, which will		
be specified by branch	department or branch departments. The diploma thesis will be defended in front of the board of examiners for the compreher	sive final examination	ation.		
XE35ELS	Electronics in Space	Z,ZK	7		
XE35IDP	Individual design project	Z	8		
Independent work in the form of a project. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or					
branch departments. Th	e project will be defended within the framework of a subject.				
XE35ISP	Introduction in Space Physics	Z,ZK	8		
XE35ORO	Optic- and Radar-based Observations	Z,ZK	8		
XE35SDY	Space Dynamics	Z,ZK	4		
XE35SPP	Space Physics	Z,ZK	8		
XE35SSD	Spacecraft System Design	Z,ZK	8		

Name of the block: Compulsory elective courses Minimal number of credits of the block: 3 The role of the block: PV

Code of the group: 2016_SPACEMASTERPV1 Name of the group: Compulsory optionally subjects Requirement credits in the group: In this group you have to gain at least 3 credits (at most 11) Requirement courses in the group: In this group you have to complete at least 1 course (at most 3) Credits in the group: 3

Note on the group:

Code	Name of the course / Name of the group of courses (in case of groups of courses the list of codes of their members) Tutors, authors and guarantors (gar.)	Completion	Credits	Scope	Semester	Role
XE35ADT	Advanced Databases	ZK	3	2P+2C	Z,L	PV
XE35ITG	Internet Technologies	Z,ZK	4	2P+2S	Z	PV
XE35OOA	Object-oriented approach and Java programming	Z,ZK	4	2P+2S	Z	PV

Characteristics of the courses of this group of Study Plan: Code=2016_SPACEMASTERPV1 Name=Compulsory optionally subjects

XE35ADT	Advanced Databases	ZK	3
XE35ITG	Internet Technologies	Z,ZK	4
XE35OOA	Object-oriented approach and Java programming	Z,ZK	4

Name of the block: Elective courses Minimal number of credits of the block: 0 The role of the block: V

Code of the group: 2016_SPACEMASTERVOL Name of the group: Elective subjects Requirement credits in the group: Requirement courses in the group: Credits in the group: 0 Note on the group: ~Student can choose arbitrary

 -Student can choose arbitrary subject of themagister's program (EEM - Electrical Engineering, Power Engineering and Management, EK - Electronics and Communications, KYR - Cybernetics and Robotics, OI - Open Informatics, OES - Open Electronics Systems) which is not part of his curriculum. Student can choose with consideration of recommendation of the branch guarantee.

List of courses of this pass:

Code	Name of the course		Credits	
XE35ADT	Advanced Databases	ZK	3	
XE35CSA	Theory of Dynamic Systems	Z,ZK	7	
System Approach.	Object, System, Model. Dynamic Systems Continuous and Discrete Time, Qualitative Analysis of Systems. Poincare Map, Chaos. Lin	ear Systems. Syst	em Stability,	
Uncertainty and Robustness. Controllability and Observability. State Feedback, State Injection, Duality. Stochastic Systems, Realization of Stochastic Processes.				
XE35CSP	CanSat-Projekt	Z,ZK	8	
XE35DIP	Diploma Thesis	Z	30	
Independent final comprehensive work for the Master's degree study programme. A student will choose a topic from a range of topics related to his or her branch of study, which will				
be specified by branch department or branch departments. The diploma thesis will be defended in front of the board of examiners for the comprehensive final examination.				
XE35ELS	Electronics in Space	Z,ZK	7	
XE35IDP	Individual design project	Z	8	
Independent work in the form of a project. A student will choose a topic from a range of topics related to his or her branch of study, which will be specified by branch department or				
branch departments. The project will be defended within the framework of a subject.				
XE35ISP	Introduction in Space Physics	Z,ZK	8	
XE35ITG	Internet Technologies	Z,ZK	4	

XE35OOA	Object-oriented approach and Java programming		4
XE35ORO	Optic- and Radar-based Observations	Z,ZK	8
XE35SDY	Space Dynamics	Z,ZK	4
XE35SEI	Spacecraft Environment Interactions	Z,ZK	7
XE35SPP	Space Physics	Z,ZK	8
XE35SSD	Spacecraft System Design	Z,ZK	8

For updated information see <u>http://bilakniha.cvut.cz/en/f3.html</u> Generated: day 2025-06-29, time 06:20.