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:

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	P
XE35CSA	**Theory of Dynamic Systems**	Z,ZK	7	3P+1S	Z	P
XE35DIP	**Diploma Thesis**	Z	30	14S	L	P
XE35ELS	**Electronics in Space**	Z,ZK	7	2P+2S	L	P
XE35IDP	**Individual design project**	Z	8	6S	Z	P
XE35ISP	**Introduction in Space Physics**	Z,ZK	8	2P+2S	Z	P
XE35ORO	**Optic- and Radar-based Observations**	Z,ZK	8	2P+2S	L	P
XE35SDY	**Space Dynamics**	Z,ZK	4	2P+2S	Z	P
XE35SPP	**Space Physics**	Z,ZK	8	2P+2C	Z	P
XE35SSD	**Spacecraft System Design**	Z,ZK	8	2P+2S	Z	P
XE35SEI	**Spacecraft Environment Interactions**	Z,ZK	7	2P+2S	L	P

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. Object, System, Model. Dynamic Systems Continuous and Discrete Time, Qualitative Analysis of Systems. Poincare Map, Chaos. Linear Systems. System Stability, Uncertainty and Robustness. Controllability and Observability. State Feedback, State Injection, Duality. Stochastic Systems, Realization of Stochastic Processes.			
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
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

XE35SEI	Spacecraft Environment Interactions	Z,ZK	7

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 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	Completion	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. Linear Systems. System 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	Z,ZK	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 http://bilakniha.cvut.cz/en/f3.html
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