

FACULTY:	Faculty of Civil Engineering, Environment and Geodesy
FIELD OF STUDY:	Civil engineering
ERASMUS COORDINATOR OF THE FACULTY:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Strength of materials 1
LECTURER'S NAME:	dr hab. inż. Krzysztof Cichocki
E-MAIL ADDRESS OF THE LECTURER:	krzysztof.cichocki@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	5.0
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	winter
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Group tutorials, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METHOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work, written reports
COURSE CONTENT:	Internal forces in trusses, beams and frames. Diagrams of internal forces. Deflection of trusses, beams and frames – methods of solution. Statically determinate structures – methods of solution (trusses, beams and frames: 2D and 3D). Influence lines, diagrams of maximum values for internal forces.
ADDITIONAL INFORMATION:	

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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Strength of materials 2
LECTURER'S NAME:	dr hab. inż. Krzysztof Cichocki
E-MAIL ADDRESS OF THE LECTURER:	krzysztof.cichocki@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4.0
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	Summer
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	2 <sup>nd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Group tutorials, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work, written reports
COURSE CONTENT:	Stresses and strains, Hooke's law. Primary stresses in 2D. Stresses in beams: axial load, bending, torsion, combination of loads. Stability of columns under axial load. Strength of materials in combined state of stresses.
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ERASMUS COORDINATOR OF THE FACULTY:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Structural mechanics 1
LECTURER'S NAME:	dr hab. inż. Krzysztof Cichocki
E-MAIL ADDRESS OF THE LECTURER:	krzysztof.cichocki@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	5.0
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	winter
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Group tutorials, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work, written reports
COURSE CONTENT:	Statically indeterminate structures (trusses, beams, frames, arches). Principle of virtual works. Method of forces, displacements. Influence lines in statically indeterminate structures.
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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Structural mechanics 2
LECTURER'S NAME:	dr hab. inż. Krzysztof Cichocki
E-MAIL ADDRESS OF THE LECTURER:	krzysztof.cichocki@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	3.0
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	summer
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Group tutorials, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work, written reports
COURSE CONTENT:	Stability of structures (continuous beams, frames, arches) in elastic and elastoplastic domain. Dynamics of discrete (single and multiple degrees of freedom) systems. Dynamic response of selected structures to various types of load. Dynamics of systems with continuous mass distribution. Fundamentals of numerical analysis for dynamic systems.
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FACULTY:	Faculty of Civil Engineering, Environmental and Geodetic Sciences
FIELD OF STUDY:	Civil & Structural Engineering
ERASMUS COORDINATOR OF THE FACULTY:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Technology and properties of ordinary concrete
LECTURER'S NAME:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	6
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	2 <sup>nd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	group tutorials & laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	project work & presentation
COURSE CONTENT:	Aggregates: types, testing and properties Cement as a binder. Mix designing. Workability and other properties of a fresh concrete mix. Hardened concrete and its testing. Strength classes according to European standard. Durability associated properties.
ADDITIONAL INFORMATION:	Course based on European standards.

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ERASMUS COORDINATOR OF THE FACULTY:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Technology and properties of fibre reinforced concrete 1
LECTURER'S NAME:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	6
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	2 <sup>nd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	group tutorials & laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	project work & presentation
COURSE CONTENT:	<p>Origins and history of fibre reinforced concrete.</p> <p>Materials used for engineered fibre production.</p> <p>Types and properties of steel fibre used as a concrete reinforcement.</p> <p>Dosage of fibre and technology of concrete matrix production.</p> <p>Specific mechanical properties of fibre reinforced concrete.</p> <p>Methods of destructive testing of fibre reinforced concrete.</p> <p>Applications and durability of fibre reinforced concrete.</p>
ADDITIONAL INFORMATION:	Course based on trice approaches of European, American and Japanese standards.

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ERASMUS COORDINATOR OF THE FACULTY:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Technology and properties of fibre reinforced concrete 2
LECTURER'S NAME:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	6
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	S
HOURS IN SEMESTER:	30
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	3 <sup>rd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	group tutorials & laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	project work & presentation
COURSE CONTENT:	Types and properties of non-steel fibre used as a concrete reinforcement. Technology of SIFCON and its properties. Dosage of non-steel fibre and technology of concrete matrix production. Dynamic mechanical properties of fibre reinforced concrete. Methods of non-destructive testing of fibre reinforced concrete. SCC fibre reinforced concretes.
ADDITIONAL INFORMATION:	Course based on trice approaches of European, American and Japanese standards.

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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	General building engineering
LECTURER'S NAME:	dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	winter
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Group tutorials, seminar, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work
COURSE CONTENT:	Basic elements of a building, a flat and its functions, building law, walls, insulated cavity walls, stairs, foundations, precast concrete floors, lintels and ring beams, roofs and roof coverings, damp proof courses, floors and floor finishings, windows and doors.
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ERASMUS COORDINATOR OF THE FACULTY:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Building materials
LECTURER'S NAME:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	winter
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Seminar, laboratory
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written reports, class test
COURSE CONTENT:	Principal building materials – basic information, ceramic materials, binding materials (lime, gypsum, cement), mortars, ordinary concretes, special concretes, show of building materials, visit to the laboratory.
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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Industrial building
LECTURER'S NAME:	Dr hab. inż. Jacek Katzer
E-MAIL ADDRESS OF THE LECTURER:	jacek.katzer@tu.koszalin.pl
ECTS POINTS FOR THE COURSE:	5
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	Summer
HOURS IN SEMESTER:	15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	2 <sup>nd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lecture, individual consultations
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Project work
COURSE CONTENT:	Brickwork, concrete and steel chimneys. Machine foundations and supporting structures.
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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Concrete Structures 1
LECTURER'S NAME:	dr inż. Mariusz Staszewski & dr hab. inż. Jacek Domski
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:staszewski@wilsig.tu.koszalin.pl">staszewski@wilsig.tu.koszalin.pl</a> <a href="mailto:domski@wilsig.tu.koszalin.pl">domski@wilsig.tu.koszalin.pl</a>
ECTS POINTS FOR THE COURSE:	4
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	winter
HOURS IN SEMESTER:	45+30
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lecture, group tutorials (individual consultations)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam and oral exam, Project work
COURSE CONTENT:	Basic information: historical review, definitions, classifications. Properties of concrete and reinforcing steel. Bond between reinforcing steel and concrete. Durability of reinforced concrete structures. Bending with or without axial force, shear, torsion, punching. Design with strut and tie models. Cracking and deflection. Rules for detailing reinforcement.
ADDITIONAL INFORMATION:	Course based on trice approaches of European standards.

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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Concrete Structures 2
LECTURER'S NAME:	dr inż. Mariusz Staszewski & dr hab. inż. Jacek Domski
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:staszewski@wilsig.tu.koszalin.pl">staszewski@wilsig.tu.koszalin.pl</a> <a href="mailto:domski@wilsig.tu.koszalin.pl">domski@wilsig.tu.koszalin.pl</a>
ECTS POINTS FOR THE COURSE:	6
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	summer
HOURS IN SEMESTER:	45 + 30 + 15
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	2 <sup>nd</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lecture, group tutorials, laboratory (individual consultations)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Written exam, Project work, Written reports
COURSE CONTENT:	Two way bent slabs, flat slabs with and without drop panels , two-way joist floor, stairs, footings and foundations, retaining walls, fire design.
ADDITIONAL INFORMATION:	Course based on trice approaches of European standards.

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E-MAIL ADDRESS OF THE COORDINATOR:	jacek.katzer@tu.koszalin.pl
COURSE TITLE:	Computer Aided Design of Reinforced Concrete Structures
LECTURER'S NAME:	dr inż. Mariusz Staszewski & dr hab. inż. Jacek Domski
E-MAIL ADDRESS OF THE LECTURER:	<a href="mailto:staszewski@wilsig.tu.koszalin.pl">staszewski@wilsig.tu.koszalin.pl</a> <a href="mailto:domski@wilsig.tu.koszalin.pl">domski@wilsig.tu.koszalin.pl</a>
ECTS POINTS FOR THE COURSE:	3
ACADEMIC YEAR:	2018/2019
SEMESTER: (W – winter, S – summer)	summer
HOURS IN SEMESTER:	15+30
LEVEL OF THE COURSE: (1 <sup>st</sup> cycle, 2 <sup>nd</sup> cycle, 3 <sup>rd</sup> cycle)	1 <sup>st</sup> cycle
TEACHING METHOD: (lecture, laboratory, group tutorials, seminar, other-what type?)	Lecture, laboratory (individual consultations)
LANGUAGE OF INSTRUCTION:	English
ASSESSMENT METOD: (written exam, oral exam, class test, written reports, project work, presentation, continuous assessment, other – what type?)	Class test, Project work
COURSE CONTENT:	General rules, loads, combinations, two way bent slabs, flat slabs with and without drop panels , two-way joist floor, walls, deep beams, stairs, footings and foundations, tanks.
ADDITIONAL INFORMATION:	Course based on trice approaches of European standards.