UNIVERSITY OF PÉCS
Rector's Cabinet
International Centre

Architecture BSc + MSc single cycle program
Study Abroad Course List

Tuition-fee/credit: 110 USD

For course syllabi, please contact the Study Abroad Office!

Courses without prerequisites:

Course title	Semester	Credits (ECTS)
Digital Architecture 1.	Fall	3
Descriptive Geometry 1.	Fall	4
Mathematics 1.	Fall	4
Mechanics 1. (Statics)	Fall	5
Architectural Drawing 2.	Fall	3
Architectural Drawing 4.	Fall	3
Design Studio 1	Fall	9
Building Constructions 1.	Fall	6
Construction Materials 1.	Fall	3
History of Architecture 1.	Fall	3
History of Architecture 3.	Fall	3
Architectural Technology and Construction Management 1	Fall	3
Energy Systems 2.	Fall	3
Architecture of Pécs	Fall / Spring	4
History of Architecture 2.	Spring	3
Architectural Theory	Spring	3
Energy Systems 1.	Spring	3
Introduction to Urban Planning	Spring	3
Architectural Drawing 3.	Spring	3
Architectural Drawing 5.	Spring	3
Introduction to Professional Practice	Spring	3
Mathematics 2.	Spring	4
Lectures on Art History	Spring	3

With prerequisites for students majoring in Architecture:

Architectural Technology and Construction Management 3.	Fall	3
Design Studio 3.	Fall	8
Design Studio 5.	Fall	8
Building Constructions 3.	Fall	7
Building Constructions 5.	Fall	7
Digital Architecture 2.	Spring	3
Strength of Materials	Spring	3
Descriptive Geometry 2.	Spring	4

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Architectural Drawing 1.	Spring	3
Architectural Technology and Construction Management 2.	Spring	3
Design Studio 2.	Spring	6
Design Studio 4.	Spring	8
Design Studio 6.	Spring	8
Building Constructions 2.	Spring	6
Building Constructions 4.	Spring	7
Building Constructions 6.	Spring	7

Detailed information about the courses:

Digital Architecture 1.

Language of instruction:	English
Form of teaching:	practice
Class hours/week:	2
Credits (ECTS):	3
Course description:	This subject aims to provide an introduction to the use of computers in architectural design are introduced to the theory behind Computer Aided Design software and their practical use through the following topics: geometric construction and 3D modelling using architectural CAD software, application of materials and textures to the design components, preparation of explanatory and 3D images, phase drawings and animations, export of vector and pixel- graphic data files for image processing and editing programs, insertion of processed data and other digital images and texts into CAD drawings, preparation of presentation material. This subject includes an architectural design project in the practical part (marked with a P) where students can develop their architectural skills.
Assessment methods:	semester mark
Teaching period:	Fall Semester

Descriptive Geometry 1.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	2 L, 2 P
Credits (ECTS):	4
Course description:	The objective of this subject is to teach students the fundamentals of descriptive geometry, giving them practical skills through following topics; characteristics of the science, geometrical construction, theoretical sciences, basics of symbolic logic, geometrical transformation, projection representation, simple statements, representation of space structures, relations, the Monge system, universal existence, the fit, section, distance and angle of space structures. In addition to these topics students will study the basic concepts of set theory, finite and infinite sets, representation of geometrical bodies, the basics of geometry, principles of axonometry, the theory of parallelism and axiom, distance and angles in normal and oblique axonometry, classification of two-dimensional figures, regular geometrical bodies, index number representation (I section - fit, II distance - angle, III projective geometry), ideal space structures, second-order curves, surfaces and the construction of flat slab floors. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	exam
Teaching period:	Fall Semester

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Descriptive Geometry 2.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	1 L, 2 P
Credits (ECTS):	4
Course description:	The objective of this subject is to teach students engineering representation skills and the construction of various curved surfaces using representation techniques learnt in Descriptive Geometry I. Topics covered by this subject are as follows: points of intersection and plane sections of plane-sided geometric bodies, contour and points of intersection of curved surfaces, plane sections of curved surfaces, intersection of plane- sided shapes, intersection of curved surfaces, architectural applications (cupolas, vaults, spiral staircases), architectural applications in axonometry, construction of shadows (Monge and axonometric), systems of central mapping, representation of space structures, central images of plane-sided bodies, central images of curved surfaces, construction of shadows in central mapping. Students attending this course will become acquainted with the geometric properties of all complex second-order surfaces and through learning how to construct their contours, shadow and sections, students' perception of space and construction skills are improved and it also helps them understand the aspects (benefits in terms of form, structure or statics) of architectural application. Students will be able to construct views, sections, contours and shades of objects of their own design. This knowledge is required so that they can practically use the curved surfaces of computer representation in CAD systems. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	exam
Teaching period:	Spring Semester

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Mathematics 1.

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	4
Credits (ECTS):	4
Course description:	This lecture and practical based course aims to give architecture students a solid mathematics basis through covering the following topics: sets of numbers (natural, whole, rational and real numbers); vectors and operations with vectors, scalar and vector products and their applications; sets and operations with sets; projections; definition of functions; presentation of functions; polinoms; rational-fractional functions; algebraic functions; sequences of real numbers (definition of monotonity, limitedness, convergence and divergence); limit value and continuity of functions; types of discontinuity; definition of tangents; differential calculus of functions in one variable, differential quotients, derivative, relation between differentiability and continuity; rules of derivation, derivatives of algebraic functions; integral calculus: definition of the primitive function and indefinite integral, properties of indefinite integrals, basic integrals, integral processes, definition of the Riemann integral, its geometric and physical meaning, integral function, Newton-Leibniz theory. Students learn the basics of mathematics enabling them to interpret and understand engineer sciences and through solving elementary tasks they deepen their basic theoretical knowledge in the field of engineering. The material of the practical matches the requirements of the different specializations.
Assessment methods:	exam
Teaching period:	Fall Semester

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Mathematics 2.

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	3
Credits (ECTS):	4
Course description:	This lecture and practical based subject aims to extend students mathematics knowledge and its application to engineering and architecture through the following topics: definition of definite and indefinite integrals, calculus of definite integrals using the Newton-Leibniz theory, application of definite integrals to engineering (architectural) problems, calculation of volume and centres of gravity, analysis of multivariable functions, interpretation and application of partial derivatives, definition, calculus and application of double integrals in authentic practical problems. Students will also learn about transcendental functions: notable limit values and their derivation, application of differential calculus, Rolle's theorem, Lagrange's mean value theorem, rule of L'Hospital, testing functions, differentials of differentiable functions and their application for fault calculation, tangency of curves, osculating circles, curvature of the plane curve at P0, Taylor-polinoms, integration with replacements, partial integration, special integrals, geometric and engineering applications of definite integrals, improprius integrals, numeric integration, examples with common differential functions, definition of differential equations, their classification and solutions, solution of differential equations of the first and second order, definition of multivariable functions, partial derivatives, gradients, extreme values of the multivariable function, definition of the double integral and its calculus in the standard range. The practical sessions are designed to meet the requirements of the different specializations.
Assessment methods:	exam
Teaching period:	Spring Semester

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Mechanics 1. (Statics)

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	4
Credits (ECTS):	5
Course description:	This course aims at teaching the basics of mechanics and covers the following topics: equilibrium states and conditions of equilibrium; resultant and balance of plane force systems; defining load-bearing structures, their types and loads. This theme is also expanded through the calculation of support reactions, simple hinged structures, loads on structures, calculation of loads, types of structural systems, definition and calculation of internal forces and internal force diagrams, definition of support and internal forces of joint structures, three-joint girders, Gerber girders and compound joint structures. The definition and types of truss is also covered and the forces influencing them. This subject intends to provide students with knowledge in the basics of mechanics, resultant and balance of plane force systems. An additional objective is to prepare students with a basic knowledge for planning construction structures.
Assessment methods:	exam
Teaching period:	Fall Semester

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Lectures on Art History

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	2
Credits (ECTS):	3
Course description:	This course forms a basis for the history and theory of architecture, which summarizes historical events in monumental architecture in both Eastern and Western ancient cultures, and describe characteristics of architecture. It covers the following topics: the concepts of the history of architecture, megalithic architecture in Europe, architecture of Ancient Egypt, the Necropolis, the centre of the Ancient Empire and the architecture of pyramids, architectural remains of the New Empire, the culture and architectural remains of Crete and Mycenae, Greek culture, archaic, classical and Greek art, the Etruscan culture and its influence on the art of Rome, architecture in the Roman Empire, technical achievements and engineering architecture in the Roman Empire, Early Christian architectural remains in Rome and Ravenna and the cultural influence of the Byzantium age. Through studying palaces, churches and temples, tombs, houses, public buildings and urban planning of antiquity, students can gain an insight into the evolution of spatial design and functional relationships in architecture and the history of structural and technical development.
Assessment methods:	examination
Teaching period:	Spring Semester

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History of Architecture 1.

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	2
Credits (ECTS):	3
Course description:	This subject is a follow up course in the history and theory of architecture, and summarizes ancient Christian events and architecture in the Middle Ages based on monumental architecture. The objective of the subject is to present the mainstreams of development, the evolution of medieval architecture and intends to improve knowledge of theoretical and historical aspects of architecture. Aesthetic standards and awareness are improved through the following topics: spread of Christianity, sacred and profane architecture in the Middle Ages, outstanding architectural monuments of Romanticism and Gothicism in Europe and Hungary. Through presenting the main spiritual movements and social changes in Europe, and their influence on architectural approach through characteristic buildings and sculptor's studios, students discover the concept of architecture and the different types of drawings characteristic of this era.
Assessment methods:	examination
Teaching period:	Fall Semester

Architectural Drawing 4.

Language of instruction:	English
Form of teaching:	practice
Class hours/week:	3
Credits (ECTS):	3
Course description:	This practical based course gives students further experience in free-hand drawing building upon what they have previously learned in the previous Architectural Drawing classes. As a basic objective, students are expected to cope with drawing models, develop their basic drawing techniques as well as apply different drawing methods in order to develop their visual form capabilities and use of tools. As a supplementary activity, students learn how to draw from imagination, how to represent internal and external spaces of architectural components and are given supplementary tasks for improving their spatial vision, combination skills and creativity. This subject includes an architectural design project in the practical part (marked with a P) where students can develop their architectural skills.
Assessment methods:	semester mark
Teaching period:	Fall Semester

Architectural Drawing 2.

Language of instruction:	English
Form of teaching:	practice
Class hours/week:	2
Credits (ECTS):	3
Course description:	This practical based course enables students to acquire skills in free-hand drawing, laying special emphasis on familiarizing themselves with the use of different perspective systems and introducing them to their regularities. As a basic objective, students are expected to cope with drawing models, acquire basic drawing techniques as well as apply different drawing methods in order to develop their visual form capabilities and use of tools. As a supplementary activity, students are provided with tasks which are suitable for improving and developing their spatial vision, combination skills and creativity. In addition to learning the basics of colour theory, students are expected to use a wide range of drawing techniques (e.g. pencil, crayon, ink and wash drawings) to express spatial arrangement and shadow effects. The course is the continuation of Architectural Drawing I. In accordance with their design program and through more and more complex tasks, students are introduced to the process of preparing drafts and using drawing methods with which built space can be expressed. This subject includes an architectural design project in the practical part (marked with a P) where students can develop their architectural skills.
Assessment methods:	semester mark
Teaching period:	Fall Semester

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Building Constructions 1.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	3 L, 4 P
Credits (ECTS):	6
Course description:	This subject intends to teach the following topics: requirements of building constructions; history of wall structures; walls built from small bricks, general rules of brick joints; modern masonry materials, skeleton ceramics, partition walls; lintels for openings of load-bearing wall structures, discharge of loads; masonry lintels, stone arches, reinforced concrete joists; requirements and planning aspects of stairs, interior stairs, structural solutions for radial stairs, interior stairs made of reinforced concrete, metal and wood, stair structures of residential and public buildings, structural design of monolithic reinforced concrete stairs, stair structures made of stone and cast stone, pre-fabricated stair structures, entrance stairs, terrain stairs. In addition students will be introduced to the regulations and requirements of flat floor structures, wooden ceiling structures, ceiling structures with steel beams, pre-fabricated reinforced concrete ceiling structures, the relationship between reinforced concrete beams and their lining, structural design of ring beams, monolithic reinforced concrete ceilings, floor coverings, structural breakthroughs in ceiling structures, curved ceiling structures, the historical development, types and structural design of vaults. This course provides a sound basis for students to improve their construction and structural design skills, through both the theory based lectures and through the practical element of the course, where students are introduced to the construction process of a residential building. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	examination
Teaching period:	Fall Semester

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Building Constructions 2.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	3 L, 4 P
Credits (ECTS):	6
Course description:	The primary intention of this subject is to teach students the following theoretical topics: drawing representation of roof structures, wooden roof structures and joinery, Chevron roof structures, vacant and collar beam roof structures, purlin roof structures, roof structures with one, two and multiple support members, roof structure with slanted support members, purlin roofs with struts, mansard roof structures, hipped roof structures, carpenter joints, suspended roof structures, structural solutions for building in attics, damp-proofing requirements and their materials (bitumen and plastic layers), structural requirements of damp-proofing against soil moisture, horizontal and vertical wall insulation, horizontal floor insulation, insulation of footings, waterproofing against ground water, constructional solutions for structures penetrating insulation and connecting structures, types and requirements of foundations, systematization and rules of flat foundations, production of continuous footings, roofing, imbricate roof structures, tough roofing systems, tile roofing, concrete roof tiles, slate roofs, wooden and thatched roofs, boarded roofs, flashing and guttering, breakthroughs in roofing, metal plates, chimneys and gravitational ventilation. The topics listed above serve as a basic theoretical knowledge for students and are complimented by practical sessions where students work through the design of a residential building. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	examination
Teaching period:	Spring Semester

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Building Constructions 3.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	3 L, 4 P
Credits (ECTS):	7
Course description:	This course expands students' knowledge from what they learned in previous Building Constructions courses and covers the following topics: design and construction of monolith reinforced frame constructions; pile foundations; reinforced concrete frame stairs; expansion joints; methods of waterproofing and damp-proofing, traditional and modern waterproofing techniques (felt, sprayed, insulation coating etc.), materials of waterproofing and their application; utilized roofs, roofs open to pedestrian traffic, terraces, parking roofs and roofs with vegetation; internal structures for enclosing space, dry wall systems; mounted constructions, suspended ceilings and mounted floors, internal surfacing, floors and internal coverings; cavity walls design, external wall claddings; historic development of windows and doors; anatomy of windows and doors, glazing, physical installation aspects; traditional and modern windows and doors from wood, metal and plastic; skylights; shading. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	exam
Teaching period:	Fall Semester

Building Constructions 5.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	2 L, 4 P
Credits (ECTS):	7
Course description:	This subject presents the methodology of structural design through the following lectures introducing students to wall and frame construction: systematization of halls and their load-bearing structures, the design and construction principles of components, framework, roof structures and external walls of prefabricated reinforced concrete halls; framework, external walls and roof structures of steel-framed halls; framework of timber- framed halls; sky lighting.
Assessment methods:	exam
Teaching period:	Fall Semester

Design Studio 1.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	1 L, 3 P
Credits (ECTS):	9
Course description:	Through the introduction of common problems related to the design of buildings and the architectural environment, Basics of Architecture aims to help students approach the essence and inner structure of a building. Through examples of national and international contemporary architecture, students study the methodology of the design process as well as those important factors which determine the location, geometry, etc. of the future building. Students must be able to interpret certain architectural solutions and situations. In the framework of getting prepared for design, students study operating buildings with similar functions and examples published in professional literature. On this basis they finalize their design project. In addition to their final drawing plans, they hand in their assignments at the end of the semester. Also assessed are the preliminary studies, the evaluation of different alternatives and the technical description of the concept together with the necessary sketches. The buildings are modelled as well.
Assessment methods:	semester mark
Teaching period:	Fall Semester

History of Architecture 3.

Language of instruction:	English
Form of teaching:	lecture
Class hours/week:	2 L
Credits (ECTS):	3
Course description:	This subject is a follow up course in the history and theory of architecture. The purpose of this course is to outline the main streams of development throughout the ages and to interpret those adopting present concepts of architecture. In lectures, the theoretical and historical relations of architecture are investigated from a general historical, artistic, and architectural, on occasion structural aspect. The following topics are covered in the lectures: architecture of classicism in different parts of Europe; ambitions in urban planning; pre-modern architectural tendencies, industrial architecture and secession.
Assessment methods:	Drawings, questionnaire and final exam
Teaching period:	Fall Semester

Design Studio 2.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	1 L, 3 P
Credits (ECTS):	6
Course description:	This course serves as an introduction to the home environment and gives students a theoretical and practical basis for designing residential buildings. To achieve this, lectures are given in the following topics: arrangement of space in a house, fixtures in a house, suitable floor plan layout of spaces, external appearance of the building (familiarization with an emphasis on the deviations and differences depending on sitting arrangements), service requirements, types of residential building, and the history of residential buildings. In their semester assignment, students present the problems arising from mass formation and the sitting arrangements of buildings and during the practical sessions, they prepare models and are taught techniques and tools of representation (drawing tools, methods and tools for modelling). This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	semester mark
Teaching period:	Spring Semester

Design Studio 3.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	1 L, 3 P
Credits (ECTS):	8
Course description:	This course introduces to the students the theory and professional elements of architecture and reveals the general correlation necessary for further studies. The lectures and practicals cover the methods of site arrangement and building types applied to them together with their specific requirements, and a historic development of building types with an analysis of practically applied solutions. The main objectives of practicals in this semester is to have students practice the basics of housing design, to develop their skills in problem identification and decision-making, to improve their architectural skills and to teach them how to get an overview over a range of housing designs. Students prepare several assignments in the course of the semester. The subject covers design problems of the main types of residential buildings (detached houses, semi and terraced housing, blocks of flats) and experience is gained through the practical component in architectural planning, deepening the fundamentals of designing residential buildings. Problems sensing skills are developed through a specified task on designing residential buildings. To assist with representation, techniques are taught including model construction. This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	semester mark
Teaching period:	Fall Semester

Design Studio 5.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	2 L, 3 P
Credits (ECTS):	8
Course description:	Students are required to complete design work relating to public buildings and an actual building site. Students are required to submit all their plans documenting their work on the design and are assessed on the following aspects: architectural design, development concept, functionality, volume forming and space composition. For the preliminary and final plans only free-hand graphics can be used. Students are also required to complete a model of the final plan in a material of their choice. The following aspects of public building design are covered: design work of specified types of public buildings, content programmes, optimal layout of the designed content on the floor plan, external appearance of the building (deviation from residential buildings and emphasis on the differences), volume design practice, methods of representation, and preparation of colour designs.
Assessment methods:	exam
Teaching period:	Fall Semester

Architectural Technology and Construction Management 1.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	1 L, 1 P
Credits (ECTS):	3
Course description:	This subject introduces students to the characteristics of the construction industry, the relationship between construction technology and the related scientific fields, the key processes behind construction preparation and subsurface construction works related to surface construction. It also covers the basic principals of planning, managing and controlling construction works, beginning with the take-over of a construction site, preparatory works and demolition works. Other topics covered include: earthworks, marking out the working site, preparation of foundations, machinery management, earthworks machinery, quality control measures such as SWOT analysis and its role in quality assurance, foundations, damp-proofing and waterproofing, construction of vertically walled load-bearing structures and construction of slabs from prefabricated components. This subject includes an architectural design project in the practical part (marked with a **P**) where students can practice and further develop the content of the lectures (marked with an **L).**
Assessment methods:	examination
Teaching period:	Fall Semester

Complex Design 1.

Language of instruction:	English
Form of teaching:	practice
Class hours/week:	5
Credits (ECTS):	6
Course description:	The purpose of this course is to introduce students to architectural design from a complex view that is, covering those parts of the planning process, which are supervised by specialized departments. Furthermore, this subject intends to have students practice the design phase related to documentation required for planning permission. During the preparation period, students study existing buildings with similar functions and examples in special scientific literature, and on this basis, they finalize their design project. During the design process, they continuously consult with the appointed or chosen teachers from the Department of Design and Architectural Studies, the Department of Strength of Materials and Load-Bearing Structures, the Department of Building Constructions, the Department of Electrical Networks and the Department of Building Services Engineering as well as with external specialists, if needed. In the course of the Complex Design Project, students finalize the load-bearing, building construction and building services systems of the building and the construction technology. In addition to their final drawings, at the end of the semester they submit their essay, which includes preliminary studies, the assessment of the different alternatives, the technical description of the architectural unit and the necessary drafts. Students normally construct a model as well. Their work is evaluated by the different departments with 70% of the total awarded for architectural work and the three co- departments give 30% (=3x10%). This subject includes an architectural design project in the practical part (marked with a P) where students can develop their architectural skills.
Assessment methods:	semester mark
Teaching period:	Fall Semester

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Architecture of Pécs

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	2
Credits (ECTS):	4
Course description:	Course content includes a lecture about the city of Pécs. Later on, several excursions will be organized where students will visit different places of the rich architectural heritage of Pécs. Finally, students will be required to prepare a study and a poster about one of the visited places. (Minimum number of students: 3)
Assessment methods:	study and a poster Grading: mid-Semester grade Requirements: regular class attendance and participation in excursions
Teaching period:	Fall / Spring Semester

Building Constructions 6.

Language of instruction:	English
Form of teaching:	lecture, practice
Class hours/week:	2 L, 2 P
Credits (ECTS):	7
Course description:	The aim of the course is to give students an overview of the nonconventional load bearing structures used in building construction to describe the forces in particular structures and to examine how these structures are used through the analysis of load bearing structures of existing buildings. Students analyse and learn about the relationship between material, structure, function and form. After a brief overview of historical structures, first of all structures cable structures, tents and membrane structures, then shell structures are discussed. Students learn about the works of several architects excelling at structural design (Frei Otto, P.L. Nervi, S. Calatrava, etc.). This subject includes an architectural design project in the practical part (marked with a P) where students can practice and further develop the content of the lectures (marked with an L).
Assessment methods:	Participation, Design Task, Case Study Presentation
Teaching period:	Spring Semester