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STUDY PLAN BACHELOR PROGRAMME **ARCHITECTURE** 2023/24

SEMESTER 1				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 1 **AD1**	10	W+ST	112	SW
Art 1 **ART1**	2	W	28	SW
Construction 1	Structural Elements and Systems **C1_SE**	3	L	36	SW+E
Construction 1	Technical Drawing **C1_TD**	2	S	24	SW
Crafts and Presentation 1 **CP1**	2	S+W	30	SW
Geometry in Architecture **GA**	3	L+S	40	SW
History of Architecture and Art 1 **HA1**	3	L	40	SW+E
Introduction to Sustainable Design **ISD**	3	L+S	30	SW
Introduction to Discipline **ID**	2	L	28	SW

SEMESTER 2				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 2 **AD2**	10	W+ST	112	SW
Art 2 **ART2**	2	W	28	SW
Construction 2	SM **C2_SM**	3	L+S	36	SW+E
Construction 2	CAD **C2_CAD**	2	S	20	SW
Crafts and Presentation 2 **CP2**	2	S+W	30	SW
Applied Mathematics **AM**	3	L+S	40	SW
History of Architecture and Art 2 **HA2**	3	L	42	SW/E
Building Technology **BT**	3	L+S	30	SW
Sociology **SO**	2	L	28	SW

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SEMESTER 3				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 3 **AD3**	10	W+ST	112	SW
Art 3 **ART3**	3	W	28	SW
Construction 3 | BIM 1 **C3_BIM1**	1	S	14	SW
Construction 3 | Non-bearing Structures **C3_NS**	3	L+S	42	SW+E
Crafts and Presentation 3 **CP3**	2	L+S	30	SW
Fundamentals of Urbanism **FU**	2	L+S	28	SW
History of Architecture and Art 3 **HA3**	3	L	44	SW+E
Structural Engineering **SE**	3	L+S	42	SW+E
Built Environment and Sustainability **BES**	3	L+S	30	SW

SEMESTER 4				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 4 **AD4**	10	W+ST	112	SW
Art 4 **ART4**	3	W	28	SW
Construction 4 | BIM 2 **C4_BIM2**	3	S	30	SW
Construction 4 | Load-bearing Structures **C4_LS**	3	L+S	56	SW+E
Crafts and Presentation 4 **CP4**	2	L+S	30	SW
Social Ecology **E**	2	L+S	28	SW
History of Architecture and Art 4 **HA4**	3	L	34	SW+E
Philosophy **P**	2	L	28	SW
Urban Design **UD**	2	L+S	28	SW

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SEMESTER 5				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 5 **AD5**	10	W+ST	112	SW
Construction 5 C5_**ACM**	3	L+S	42	SW+E
Construction 5 **C5_BIM3**	2	S	20	SW
Art 5 **ART5**	3	S	28	SW
Crafts and Presentation 5 **CP5**	2	S	30	SW
History of Architecture and Art **HA5**	3	L	34	SW+E
Master Planning **MPL**	2	L+S	28	SW
Landscape Design **LD**	3	L+S	28	SW
Monument Preservation **MP**	2	L	28	SW

SEMESTER 6				
Courses	**ECTS Credits**	**Form**	**Contact Hours**	**Completion**
Architectural Design 6 **AD6**	15	W+ST	168	SW+E
Technical Coordination **TC**	5	S	42	SW
Crafts and Presentation 6 **CP6**	2	L+S	30	SW
Preparing for Practice **PC**	4	S	42	SW
History of Architecture and Art **HA6**	2	L	34	SW
Critical City **CC**	2	L	28	SW

ST – studio work, W – workshop, L – lecture, S – seminar, SW – semestral work, E – exam

Architectural Institute in Prague is an accredited private college operating with the permission on state authority under Section 39 of the Act No. 111/1998 Coll., on higher education, taking the form of a decision of the Ministry of Education, Youth and Sports of the Czech Republic dated on April 29, 2010 – ref.no.11002/2010-30.

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Architectural Design 1		**AD1**
Preceding Module: None	Responsible Person: Lukáš Kurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 1st Winter Term
Course Title	**Architectural Design 1**	
Course Code	AD1	
Professor(s):	Lukáš Kurilla Šimon Prokop	
Contact Hours per Semester:	112	
ECTS (Credits):	10	
Method of Instruction:	Workshop and Studio Work (W + ST)	
Examination Form:	Assignments, Projects & Presentation- Semestral Work (SW)	
Learning Expectations and Outcomes:	Contribution to and engagement during in-class activities and discussions, including focused working on projects during studio hours, general enthusiasm for one's work, pursuit of feedback, commitment and seriousness to one's efforts and production, active participation during pin-ups and in group discussions, providing feedbacks to colleagues' works and in response to selected readings/references/research. Independently advancing the projects in between classes, and during classes. Preparing new materials for discussion, in response to previous discussions, before each class begins. In order to meet regular progress requirements, students are expected to stay in studio longer than the minimum required class hours	
General Course Description:	The AD1 studio brief focuses on discovering and understanding the field of Architecture in its complexity. The semester is divided into parts which represent the ARCHITECTURE: SPACE – DETAIL– CONNECTION. The first 3 topics will be developed within 2-3 weeks each, the main PROJECT will last 4-6 weeks. The final 2 weeks of the semester is saved for the work on presentation. The first semester is about experimenting, testing, reading, writing, sketching, model making, observing, decision-making.	

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Art 1		ART1
Preceding Module: None	Responsible Person: Milan Salák	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Art 1**	
Course Code	ART1	
Professor(s):	Milan Salák	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Workshop (W)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Reflect existing spotting objects - Express their basic visions using a renaissance perspective. - work with basic depicting tools for drawing and painting	
General Course Description:	In the first part of this course students will learn to express their first impression using various drawings and techniques with use of renaissance perspective depicting principles. During the second part of the course students will have the opportunity to model a head of a living person out of the clay. These exercises will help students to learn how to express themselves and their feelings in their work. The course ends with a final review in the student lounge. The programme may vary according to actual circumstances.	
Course Materials:	Materials used during lectures and seminars are provided in class nonetheless it is advised that students also have their own sketchbooks and additional art materials.	

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Construction 1 | Structural Elements and Materials		**C1_SE**
Preceding Module: None	Responsible Person: Lucie Mertlíková	Accessibility of Course: BA Arch Compulsory
Prerequisites: Basic mathematical, geometrical and physical knowledge (secondary school level) and common sense.	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Construction 1 | Structural Elements and Materials**	
Course Code	C1_SE	
Professor(s):	Lucie Mertlíková	
Contact Hours per Semester:	36	
ECTS (Credits):	3	
Method of Instruction:	Lecture (L)	
Examination Form:	Semestral Work, Final Written Exam (SW + E)	
Learning Expectations and Outcomes:	- Students will learn the basics of construction engineering. - Students will become familiarized with structural elements of buildings. - Students will learn a new vocabulary of terms used to describe these elements, materials and techniques. By the end of the course students will be able to: - Understand what the parts of buildings and the basic principles of design are. - Design a simple building using plain structural elements, materials, and finishes. - Use and work with simple qualities of elements and materials. - Read and develop uncomplicated drawings, use design language and descriptive tools (lines, dimension lines, hatches, etc.)	
General Course Description:	In this course, students will learn about basic structural elements, systems and materials used in construction. They will also learn and become familiar with related terminology.	

Course Materials:	**Readings** - A Visual Dictionary of Architecture: Francis D.K.Ching, 2nd Edition, 2012, ISBN - Building Construction Handbook: R.Chudley&R. Greeno, 11th Edition 2017, ISBN 9781138408807 - Construction Technology, R.Chudley, R. Greeno, 12th Edition, 2020, ISBN 9780367135430 - Advanced Construction Technology, R.Chudley, R. Greeno, Fifth Edition, 2012, ISBN 9780435046835 - Dictionary of Architecture and Construction, Nikolas Davies and Erkki Jokiniemi, ISBN: 978-0-7506-8502-3 - Architect's Pocket Book, Charlotte Baden-Powell, Jonathan Hatreed, Ann Ross, Fifth Edition, 2017 - The Penguin Dictionary of Building, James H. MacLean, John S. Scott, ISBN 0-140-51239-X **Online Resources** - www.designbuildings.com - www.archdaily.com **School Resources** - Books and magazines available onsite and online at the ARCHIP Library

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Construction 1 | Technical Drawing		C1_TD
Preceding Module: None	Responsible Person: Klára Doleželová	Accessibility of Course: BA Arch Compulsory
Prerequisites: Knowledge of basic geometry, mathematics, the ability to draw parallels and objects in size ration. The ability of spatial imagination.	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Construction 1 | Technical Drawing**	
Course Code	C1_TD	
Professor(s):	Klára Doleželová	
Contact Hours per Semester:	24	
ECTS (Credits):	2	
Method of Instruction:	Seminar (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Students will learn how to draw your idea / project technically correctly. Emphasis will be placed on fixing important technical habits and acquiring knowledge that they will use in the architectural studio. By the end of the course, students should be able to: - identify basic architectural drawings - interpret how to create a plan, section and view (2D). - How to work with a scale. - compare the way of working with technical drawings - explore and compare different technical drawings and understand their content - explain and discuss the content of technical drawings drawn by others	
General Course Description:	In this course, students will learn about technical drawing and technical documentation. It is an introduction to technical drawings creation. They will learn and become familiar with the use of lines, dimensions, scale and reading and creating drawings	
Course Materials:	**Readings** - R. Chudley, R.Greeno: **Building Construction Handbook**, Elsevier,	

2008
- Keith Styles and Andrew Bichard: **Working Drawings Handbook**, Elsevier, 2004
- Francis D.K. Ching: **Building Construction Illustrated**, Wiley, 2008
Magazine Detail

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Crafts and Presentation 1		**CP1**
Preceding Module: None	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Crafts and Presentation 1**	
Course Code	CP1	
Professor(s):	Dalibor Dzurilla	
Contact Hours per Semester:	30	
ECTS (Credits):	2	
Method of Instruction:	Seminar and Workshop (S+W)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	**Objectives:** - Learn the easiest 3D modeling SketchUp - Learn essential software for publishing - Affinity Publisher	
General Course Description:	Welcome to architecture! We will start with 3D digital sketching of your ideas on PC by SketchUp! And later, we will continue to learn how to create a basic booklet from your photos, sketches, and 3D model outputs.	
Course Materials:	- Sketchup for dummies: https://amzn.to/2WcttOc - Design process in architecture: https://amzn.to/3y1NELU **Online Resources** - https://affinity.serif.com/en-gb/publisher/ - https://cz.pinterest.com/visuin - http://lifeofanarchitecturestudent.net/ - http://www.firstinarchitecture.co.uk/	

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Geometry in Architecture		**GA**
Preceding Module: None	Responsible Person: Šimon Prokop, Lukáš Kurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: Basic mathematics, geometric and physics knowledge (secondary school level) and common sense. **Rhino must be Installed!**	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Geometry in Architecture**	
Course Code	GA	
Professor(s):	Lukáš Kurilla, Šimon Prokop, Dušan Uruba	
Contact Hours per Semester:	40	
ECTS (Credits):	3	
Method of Instruction:	Lecture and Seminar. (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Students will explore types of geometry and learn to understand their underlying principles. Emphasis will be placed on training students' intuition to work with proper geometry in their designs. The digital tool Rhino3D/Grasshopper and its modeling workflow will be presented during lectures. By the end of the course, students will be able to: - Express simple to advanced 3D models in an effortless way - Discover and leverage the differences between modeling approaches of NURBS and MESH. - Adopt good habits of clean models, using layers and groups properly and start discovering modeling workflows - Think about the topological properties of shapes aside the shape itself - Work with basic geometry types in a parametric non-destructive way.	
General Course Description:	An introduction to geometry and computer graphics with the aim to support the freedom and creativity of architects in design using the NURBS geometry tool Rhinoceros 3D and visual scripting language Grasshopper (GH).	

Course Materials:	**Readings** - Readings Pottmann, H., Asperl, A., Hofer, M., Kilian, A.: **Architectural Geometry**, Bentley Institute Press, 2007 **Online Resources** - http://docs.mcneel.com/rhino/6/training-level1/en-us/Default.htm - https://www.rhino3d.com/learn/?query=kind:%20architecture&modal=null - https://www.modelab.is/grasshopper-primer - http://www.grasshopper3d.com/page/tutorials-1 - https://youtu.be/fNk_zzaMoSs - https://www.khanacademy.org/math/trigonometry - https://youtu.be/0mJ-4B-mS-Y - http://wiki.bk.tudelft.nl/toi-pedia/Math_Inspired_Geometry_in_Grasshopper - https://www.rhino3d.com/download/Rhino/4.0/EssentialMathematicsSecondEdition **School Resources** Books and magazines available onsite and online from the ARCHIP library

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History of Architecture and Art 1		HA1
Preceding Module: None	Responsible Person: Hana Benešovská	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**History of Architecture and Art 1**	
Course Code	HA1	
Professor(s):	Hana Benešovská	
Contact Hours per Semester:	40	
ECTS (Credits):	3	
Method of Instruction:	Lecture (L)	
Examination Form:	Semestral Work+ Final Written Exam (SW +E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Understand the base and roots of architecture	
General Course Description:	Architecture of ancient Egypt, Greece and Rome (c. 3000 BC – AD 400) is the foundation of the western architectural tradition. The lectures will introduce students to basic architectural forms of ancient Egypt, Greece and Rome, their function and meanings. The ancient Egyptian builders fully understood and proved the potentials of stone as a construction material. They managed to find the ideal unity among natural phenomena, landscape, sculpture, relief art and hieroglyphic script within just a single building. This intermingling of art forms clearly shows that the architecture was designed not only to be seen, but to be read and interpreted. The course further explains the development of architecture in ancient Greece and Rome, including the architecture of Minoans and Mycenaeans. It provides students with a general grounding in history and culture from the prehistoric period to the end of the Roman Empire, surveys types of buildings and, from columns to pediments, it takes a close look at some of the key features of ancient Greek architecture; mainly at the Greek orders that have played a vital role in the stylistic expression of western architecture. The History of Art lectures will provide a brief introduction to the arts of ancient Egypt, the Near East, Greece and Rome. They will discuss function and meaning of art in these ancient Mediterranean cultures and will focus on the study of selected masterpieces of sculpture and painting and their relation to the architecture.	

Course Materials:	**Readings** - Ian Shaw, Paul Nicholson, **The British Museum Dictionary of Ancient Egypt**, London 2008 - John Baines, Jaromir Malek, **Atlas of Ancient Egypt** (Cultural Atlas), New York 1996 (rev. in 2000) - Donald B. Redford (ed.), **The Oxford Encyclopedia of Ancient Egypt**, 3 volumes, Oxford University Press, Oxford 2001 Dieter Arnold, Building in Egypt. Pharaonic Stone Masonry, New York, Oxford 1991 - Nicholson P. T., Shaw I., **Ancient Egyptian Materials and Technology**, London 2000 Dietrich Wildung, Egypt. From Prehistory to the Romans, Taschen's World Architecture, Köln 1997 - Mark Lehner, M., **The Complete Pyramids**, London 1997 Miroslav Verner, The Pyramids, Rowohlt Verlag GmbH, 1998 5 - Nigel & Helen Strudwick, **Thebes in Egypt**, Cornell University Press, New York 1999 - Dieter Arnold, **Temples of the Last Pharaohs**, Oxford University Press, 1999 Ernst Gombrich, The Story of Art, London 1995 - William. S. Smith, The Art and Architecture of Ancient Egypt, New Haven, London 1998 - Jaromír Málek, **Egyptian Art**, Phaidon Press, London 1999 Piotr Bienkowski, Millard Alan, Dictionary of the Ancient Near East, British Museum Press, London 2000 - Pierre Amiet, Naomi Noble Richard, **The Art of Ancient Near East**, Abrams, New York 1980 - Lawrence, A. W., **Greek Architecture**, 5th ed. (rev. by R. A. Tomlinson), Harmondsworth 1996 - Boardman, J., Dorig, J., Fuchs, W., **The Art and Architecture of Ancient Greece**, London 1967 - Owens, E. J., **The City in the Greek and Roman World**, Routledge, London and New York 1991 - Malacrino, C., **Constructing the Ancient World: Architectural Techniques of the Greeks and Romans**, Los Angeles 2010 - McEnroe, J. C., **Architecture of Minoan Crete. Constructing Identity in the Aegean Bronze Age**, Austin 2010 - Schofield, L., **The Mycenaeans**, Los Angeles 2007 Spawforth, T., The Complete Greek Temples, London 2006 - Stamper, J. W., **The Architecture of Roman Temples: The Republic to the Middle Empire**, Cambridge 2005

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Introduction to Sustainable Design		ISD
Preceding Module: None	Responsible Person: Lenka Maierová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Introduction to Sustainable Design**	
Course Code	ISD	
Professor(s):	Lenka Maierová, Kateřina Eklová	
Contact Hours per Semester:	30	
ECTS (Credits):	3	
Method of Instruction:	Lecture and Seminar (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - detect local environmental opportunities and threats - define the target environmental qualities of the space - predict and investigate the physics of the indoor/outdoor space as it interacts within the designed space - understand and develop the principles of design with respect to the environmental conditions - optimize the design towards environmentally friendly and sustainable construction and use - describe appropriate design tools to communicate the strategies with the client and project team - and be able to control the efficacy of chosen strategies in each design stage.	
General Course Description:	The course discusses basic principles of building and its environment interaction. Through consultations and selected examples of designs, the goal is to introduce a variety of principles of sustainable design and its practical application. While experimenting with simplified physical and virtual models, students will investigate the environmental impact of urban structure, explore the effects of orientation, shape, and spatial design. They will analyze the potentials of a single structural element, such as a window or shadings on the indoor environmental quality (IEQ).	

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Course Materials:	**Will be introduced during the course** - Sustainable architecture roadmap - Dial+ software, Climate consultant software **Readings** - **Green Building Illustrated** - Francis D K Ching - **Green Building: Guidebook for Sustainable Architecture** - Michael Bauer, Peter Mösle, Michael Schwarz (auth.) - **A Green Vitruvius**: **Principles and Practice of Sustainable Architectural Design** Vivienne Brophy, J. Owen Lewis **Films** - Yasmeen Lari TEDtalk : https://www.youtube.com/watch?v=NAWdvYgHMXs - Kirsten Dirsten's youtube channel - https://www.youtube.com/user/kirstendirksen - Archimarathon's talk about sustainable architecture: https://www.youtube.com/watch?v=OVGE3AmIc2E&t=18s **Online Resources** - Inhabitat - https://inhabitat.com/ Tree Hugger / Design - https://www.treehugger.com/design-4846024 **School Resources** Books and magazines available onsite and online from the ARCHIP library.

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Introduction to Discipline		ID
Preceding Module: None	Responsible Person: Elan Fessler	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:1st Winter Term
Course Title	**Introduction to Discipline**	
Course Code	ID	
Professor(s):	Elan Fessler, Karin Grohmannová	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lecture (L)	
Examination Form:	Assignments and Final Essay, Semestral Work (SW)	
Learning Expectations and Outcomes:	At the end of the course, students should be able to define and discuss the following topics: - What forms can the architect's work take? - How to find a problem worth solving? - How to learn from the work of colleagues? - How to understand what's more important and what's not? - How to interpret important information? - How to communicate important ideas to others in the most simple, understandable way? How to collaborate? How to work effectively? - We will also aim to unlearn what we know about architecture ...	
General Course Description:	Architecture is not just about building. It is not just about solving problems. It can be so much more. Who is "Architect" and what's his role (or what could be his role) in current society? What are the finest examples of "Architecture"?	
Course Materials:	**Readings** - Robert Venturi: Learning from Las Vegas - Rem Koolhaas: S, M, L, XL; OMA: Content - Guide to Shopping, Harvard project on the City - Hunch 6/7 2003 - BIG: Yes is More / exhibition catalogue / - Bruce Mau: Massive Change - Any – conference magazines (10 issues) - Volume magazines / currently 18 issues (April 2009)	

- LOG — excerpts ERA21 magazines .... other readings

Documents

- REM: Rem Koolhaas Documentary, 2016
- Tadao Ando: From Emptiness to Infinity, 20
- Bauhaus Spirit, 2018
- Frank Lloyd Wright: The Man Who Built America, 2017
- Playtime, d: Jacques Tati 1967
- Urbanized, 2011
- Big Time. 2017
- City Dreamers, 2018
- The Competition, 2013

Films

- Playtime, d: Jacques Tati 1967
- Columbus, 2017
- Zatmění - L'Eclipse, 1962

Online Resources

- https://www.archdaily.com/573611/the-top-places-to-watch-architectural-lectures-online.

School Resources

Books and magazines available onsite and online from the ARCHIP library.

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Applied Mathematics		AM
Preceding Module: None	Responsible Person: Šimon Prokop	Accessibility of Course: BA Arch Compulsory
Prerequisites: Basic mathematical, geometrical and physical knowledge (secondary school level) and common sense. Rhino3D with Grasshopper installed, if you prefer your personal computer.	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Applied Mathematics**	
Course Code	AM	
Professor(s):	Lukáš Kurilla, Šimon Prokop	
Contact Hours per Semester:	40	
ECTS (Credits):	3	
Method of Instruction:	Lecture and Seminar. (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	**Objectives** - to gain mathematical intuition through visualizing and animating various mathematical objects. - to discover and leverage the power of equations and functions while modeling. - to generate useful graphs, and methods of reading data from them, to evaluate design. - to master trigonometry and know when to use which function. - to understand the principles of calculus (integration, derivation), that are later needed in Structural Engineering to calculate bending moments.	
General Course Description:	The course builds on the mathematical knowledge acquired by students in secondary school, and applies it towards topics of architectural design. Students come to this subject with different levels of experience, so each topic will deal with tasks of varying degrees of difficulty, from simple to more complex. In more advanced topics – mathematical operations such as calculus – emphasis will be placed on understanding the essence of mathematical thinking, rather than on	

	practicing manual calculations. Grasshopper, a scripting plug-in of Rhino3D CAD software, will be used to visualize mathematical operations and to change variables interactively. Students will learn Grasshopper scripting during the course and use it as a sophisticated calculator. It will help them to solve more complicated analy
Course Materials:	**Readings** - Pottmann, H., Asperl, A., Hofer, M., Kilian, A.: **Architectural Geometry**, Bentley Institute Press, 2007 **Films** - Pi (1998 – Darren Aronovsky) https://www.imdb.com/title/tt0138704/?ref_=tt_ch **Online Resources** - http://www.grasshopper3d.com/page/tutorials-1 - https://youtu.be/fNk_zzaMoSs - https://www.khanacademy.org/math/trigonometry - https://youtu.be/0mJ-4B-mS-Y - http://wiki.bk.tudelft.nl/toi-pedia/Math_Inspired_Geometry_in_Grasshopper - https://www.rhino3d.com/download/Rhino/4.0/EssentialMathematicsSecondEdition

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Architectural Design 2		AD2
Preceding Module: AD1	Responsible Person: Lukáš Kurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Architectural Design 2**	
Course Code	AD2	
Professor(s):	Lukáš Kurilla, Šimon Prokop	
Contact Hours per Semester:	112	
ECTS (Credits):	10	
Method of Instruction:	Workshop and Studio Work (W+ ST)	
Examination Form:	Projects & Presentation, Semestral Work (SW)	
Learning Expectations and Outcomes:	Objectives – You have the skills to create and communicate strong spatial definition in architecture, and to represent them in clear and highly articulated plans and sections. – You are developing a personalised, systematic design process that can be harnessed with confidence to produce rigorous, poetic, and ingenious architecture by the deadline. – You work iteratively, always producing several variations in any step of the process. – You seek feedback, and incorporate it productively into your design process. – You look for systems or patterns in the given, external circumstances of an assigned project (site, precedent, materials, spaces, building type, program etc.), and seek to establish systems, geometries, and rules to generate coherent, rich design. – You have command of, and can select appropriately from, a wide array of architectural drawing and representation skills for the most effective, efficient, and elegant results. – You implement research skills relevant to the design process, and to begin to understand both the similarities and differences between research and design. – You have begun to explore how architecture is made and constructed, and use that understanding to create vital and memorable, materialized experiences. – You feel confident making well-constructed models that begin to	

	move beyond mere representation, towards prototypes that test performance and ideas. – You are accumulating experience to discuss the fundamental elements, basic design principles, and important disciplinary questions of our field, so that you can begin to define "what is architecture?" and distinguish it from related disciplines.
General Course Description:	First development of a project through schematic, conceptual, design and final presentation phases. Defining a project's program, environmental relationships (to landscape and to the built context), its basic construction principles and elements, material composition at a schematic level, and a written argument for the project concerning its social, historical, or environmental significance.
Course Materials:	To be assigned.

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Art 2		ART2
Preceding Module: Art 1	Responsible Person: Milan Salák	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Art 2**	
Course Code	ART2	
Professor(s):	Milan Salák	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Workshop (W)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Reflect existing spotting objects - Express their basic visions using a renaissance perspective. - work with basic depicting tools for drawing and painting	
General Course Description:	In the first part of this course students will learn to express their first impression using various drawings and techniques with use of renaissance perspective depicting principles. During the second part of the course students will have the opportunity to model a head of a living person out of the clay. These exercises will help students to learn how to express themselves and their feelings in their work. The course ends with a final review in the student lounge. The programme may vary according to actual circumstances.	
Course Materials:	Materials used during lectures and seminars are provided in class nonetheless it is advised that students also have their own sketchbooks and additional art materials.	

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Building Technology		**BT**
Preceding Module: None	Responsible Person: Vojtěch Mazanec, Michaela Petříková, Lenka Maierová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Building Technology**	
Course Code	BT	
Professor(s):	Vojtěch Mazanec, Michaela Petříková, Lenka Maierová	
Contact Hours per Semester:	30	
ECTS (Credits):	3	
Method of Instruction:	Lecture and Seminar. (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	**Objectives** Students will learn what building technologies are and how they affect the completely architectural design. - Students will learn how to choose appropriate systems for basic types of buildings and how to do a general drawing of the building technology systems. - Students will get basic knowledge about what they should expect from building services engineers. - Students will learn how to coordinate the building services systems in a building design.	
General Course Description:	In the course, students will get the basic knowledge about key building technologies and the application of that systems in various building types. Class will be focused on conventional contemporary building systems. In the lectures, students will gain an overview of the main types of building services systems, including mechanical, electrical, and plumbing (MEB) systems, spatial and technical requirements, and related terminology. In the seminars, students will apply the acquired knowledge in designing those systems for a given building and they will share and discuss their results with others in a short presentation.	

Course Materials:	**Online resources** - Lechner, Norbert. Heating, Cooling, Lighting: **Sustainable Design Methods for Architects**, 4thEdition. Sep 2014. ISBN: 978-1118582428. - Ching, Francis D. K. **Green Building Illustrated**. Mar 2014. ISBN: 978-1118562376. - Greeno, Roger. Hall, Fred. **Building Services Handbook.** May 2013. ISBN: 978-0415631402.

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Construction 2 | CAD		**C2_CAD**
Preceding Module: C1_TD	Responsible Person: Jaroslav Novotný	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Construction 2 | CAD**	
Course Code	C2_CAD	
Professor(s):	Jaroslav Novotný	
Contact Hours per Semester:	20	
ECTS (Credits):	2	
Method of Instruction:	Seminar (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Students will be able to draw their idea, project in 2D in AutoCAD. They will be able to use their knowledge in the architectural studio. By the end of the course, students should be able to: - identify the benefits of working in the program AutoCAD - interpret how to create drawings in 2D. How to work with model space and layouts. - compare the way how works on drawings in the program and hand-drawn drawings - explore and compare drawing procedures in the program - use the basic steps of 3D modeling in the programme	
General Course Description:	In this workshop, students will get acquainted with the computer program AutoCAD. They will learn how to work with the program.	
Course Materials:	**Online Resources** - Autodesk/AutoCAD/Help https://www.youtube.com/watch?v=tHrfxjgFQt8 , AutoCAD – Complete Tutorial for Beginners – Part 1 -4 - https://www.youtube.com/watch?v=hO865EIE0p0, Making a simple floor plan in AutoCAD: Part 1 – 3 - https://www.youtube.com/watch?v=yOGzf_Myxmc, AutoCAD 2D Basics – Tutorial to draw a simple floor plan, fast and effective	

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Construction 2 | Structures and Materials		**C2_SM**
Preceding Module: C1_SE	Responsible Person: Sean Clifton	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Construction 2 | Structures and Materials**	
Course Code	C2	
Professor(s):	Sean Clifton	
Contact Hours per Semester:	36	
ECTS (Credits):	3	
Method of Instruction:	Lecture and Seminar (L+S)	
Examination Form:	Semestral Work, Final Written Exam (SW + E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Analyze and Test - Understand - Select - Develop and Apply	
General Course Description:	Architecture is made of Stuff. Construction 2 learning in ARCHIP is interlinked with and applied to studio design output. The course also extends to in-depth research including experiments with real and virtual prototypes, as part of an interactive design process	
Course Materials:		

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Crafts and Presentation 2		CP2
Preceding Module: CP1	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: Understanding SketchUp modeling from CP1 Install Affinity Photo – license Install SketchUp LayOut Functional MS TEAMS – do it before classes!	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Crafts and Presentation 2**	
Course Code	CP2	
Professor(s):	Dalibor Dzurilla	
Contact Hours per Semester:	30	
ECTS (Credits):	2	
Method of Instruction:	Seminar and Workshops (S+W). Course will be taught through MS Teams ONLINE. Form of three workshops.	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - interpret your project by architectural visualization, diagram, and site-plan	
General Course Description:	Learn to create architectural outputs – visualization, diagram, site-plan	
Course Materials:	**Readings** - Drawing architecture: https://www.phaidon.com/store/architecture/drawing-architecture-9780714877150/ - Design Process in Architecture: From Concept to Completion https://www.amazon.de/Design-Process-Architecture-ConceptCompletion/dp/178627132X/ref=sr_1_1?ie=UTF8&qid=1549817160&sr=8-1&keywords=design+process+in+architecture **Online Resources** - Skillshare class about 12 habits to make visualization https://www.skillshare.com/classes/12-Habits-WhenYou-Do-Visual-Pictures-of-Architecture	

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History of Architecture and Art 2		HA2
Preceding Module: HA1	Responsible Person: Hana Benešovská	Accessibility of Course: BA Arch Compulsory
Prerequisites: HA1	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**History of Architecture and Art 2**	
Course Code	HA2	
Professor(s):	Hana Benešovská, Helena Dáňová	
Contact Hours per Semester:	42	
ECTS (Credits):	3	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work, Final Written Exam (SW+E)	
Learning Expectations and Outcomes:	The goal of this course is to provide students with a general understanding of the development of Roman and Medieval architecture and art. On successful completion of this course, students should be able to: - demonstrate the application of acquired knowledge, observation, critical reflection and corresponding research skills - outline the chronology and main tendencies in Roman and Medieval (European) architecture and art - identify the major monuments, artworks and artists as well as their key stylistic characteristics 2 - understand and employ correctly basic technical terminology relating to the practice of architecture and art (i.e. architectural terminology, art techniques etc.) - interpret the ground-plans - interpret the meaning of an artwork (iconography) – compare the artworks from different periods	
General Course Description:	**Part 1** – Chapters from History of Roman and Medieval Architecture tutor: Hana Benešovská Over the course of fourteen lectures, Chapters from History of Roman and Medieval Architecture will trace the development of architecture through one of its most inventive and productive periods in European history, Roman period and the Middle Ages. From Republican to Christian Rome – four lectures will introduce students into ancient Roman architecture, its basic architectural forms and its fundamental influence on medieval structures. The Middle Ages (ca. AD 500–1500) – the victory of Christianity profoundly changed the architectural landscape	

	of Europe. Drawing on the legacy of the Classical past, architects and their patrons created a new genre of buildings both religious and secular. We will explore the technical innovations as well as the historical and cultural changes that have affected architecture from the Early Christian period to the heroic age of building in the Romanesque and Gothic periods. While considering Europe, both north and south of the Alps, this course will also offer a particular focus on Bohemia and its buildings through lectures and onsite visits. The architecture will be viewed in its artistic, devotional and patronal context. **Part 2** – Chapters from History of Medieval Art tutor: Helena Dáňová The History of Art lectures introduce the students to medieval art in Europe, including the medieval art in Bohemia and Moravia. Some of the lectures will explore specific topics of medieval culture related to the problems discussed within the course
Course Materials:	**Readings / Architecture** - Axel Boethius and John B. Ward-Perkins, **Etruscan and Roman Architecture**, Baltimore: Penguin Books, 1970 - John B. Ward-Perkins, **Roman Imperial Architecture**, New York: Abrams, 1977 - Henri Stierlin, **The Roman Empire: From the Etruscans to the Decline of the Roman Empire**, Cologne: - **Taschen's World Architecture 2004** - Medieval architecture: - Xavier Barral i Altet, **The Early Middle Ages. From Late Antiquity to A. D. 1000**, Köln 1997 - Richard Krautheimer, **Early Christian and Byzantine architecture**, New Haven: Yale University Press, 1992 - Charles Bixby McClendon, T**he origins of medieval architecture: building in Europe**, A.D. 600 – 900, New - Haven: Yale University Press, 2005 - Klára Benešovská et alii, Architecture of the Romanesque, Ten Centuries of Architecture 1, Prague 2001 - 8 - K. J. Conant, Carolingian and Romanesque architecture, New Haven: Yale University Press, 1993 - Xavier Barral i Altet, The Romanesque. Towns, Cathedrals, and Monasteries, Köln 2001 - Herbert Schutz, Romanesque architecture and its artistry in central Europe, Newcastle: Cambridge Scholars, - 2011 - Klára Benešovská et alii, Architecture of the Gothic, Ten Centuries of Architecture 2, Prague 2001 - Rolf Toman ed., The Art of Gothic: architecture, sculpture, painting, Cologne 1999 (English edition) - Paul Frankl, Gothic architecture, New Haven: Yale University Press, 2001 **Readings / Art** - Ernst Gombrich, The Story of Art, London 1995 - John Beckwith, Early Christian and Byzantine Art, The Pelican History of Art: London 1979 - John Lowden, Early Christian & Byzantine Art, Phaidon Press: London 1997 - Andreas Petzold, Romanesque Art, New York 1995 - Paul Williamson, Gothic sculpture 1140-1300, New Haven 1995 - Andrew Martindale, Gothic Art, Thames and Hudson: London 1967 - Jan Royt, Medieval Painting in Bohemia, Prague 2003 - Rolf Toman (ed.), The Art of Gothic: Architecture, Sculpture, Painting, Cologne 1999 (English edition)

- Craig Harbison, Jan van Eyck. The Play of Realism, London 1991

Online Resources

- The Met's Heilbrunn Timeline of Art History: https://www.metmuseum.org/toah/

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Sociology		**SO**
Preceding Module: None	Responsible Person: Ecem Nazlı Üçok	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 2nd Semester, Summer Term
Course Title	**Introduction to Sociology**	
Course Code	SO	
Professor(s):	Ecem Nazlı Üçok	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work, Final Paper (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Develop critical thinking and analysis skills - Further develop oral and written expression skills - Continue to develop and improve research and presentation skills - Apply learning beyond the classroom to their own life and professional skills	
General Course Description:	The course is arranged both chronologically and theoretically, in order to highlight the interplay of historical changes in the urban landscape with theoretical perspectives and empirical practices of the time. We will start by thinking about urban life as a sociological construct and examining contrasting paradigms for understanding what it means to reside in a city. Cities can both be places of hope, or places of despair. The rapid urbanization of the globe presents immense economic, ecological, social, and political challenges for the world as a whole; yet it also contains the seeds of hope and freedom for growing numbers of people. Systematically studying processes of urbanization is an extremely important task for social scientists and architects because of the challenges and promises the city presents to both urban and rural populations. In this class, our task is to develop a solid framework with which we can analyze and understand the dynamics behind the formation and expansion of both historical and contemporary cities. We will particularly focus on various factors behind the unequal distribution of different kinds of capital in the city among	

	different classes and status groups. Our theoretical discussions will be substantiated with concrete empirical examples from around the world.
Course Materials:	**Readings** - Weber, Max. [1921] "**The Nature of the City**", in Sennett, Richard (ed.) Classical Essays on the Culture of Cities, New Jersey: Prentice Hall. Pp: 23-46. - Wirth, Louis. 1996 [1938]. "**Urbanism As a Way of Life**", in R. Le Gates and F. Stout (eds.) The City Reader. New York: Routledge. Pp: 97-106 - Park, Robert E. 1925. **"The city: Suggestions for the Investigation of Human Behavior in the Urban Environment**" from The City. - Lipman, P. (2002). **Making the Global City, Making Inequality: The Political Economy and Cultural Politics of Chicago School Policy.** American Educational Research Journal, 39(2), 379–41**9**. - Simmel, Georg. 1903. **"The Metropolis and Mental Life**" from Metropolis - Florida, Richard. 2011. "**Why Cities Matter.**" CityLab. https://www.citylab.com/design/2011/09/why-cities-matter/123/ - Marzorati, Roberta. **Imagined communities and othering processes: The discursive strategies of established Italian residents in a Milan city neighborhood**. Journal of language and politics, 2013, Vol.12 (2), p.251-271 - Çınar, Alev (2007) **The imagined community as urban reality: the making of Ankara from Urban imaginaries: locating the modern city** - Linda Sandberg & Malin Rönnblom (2016) **Imagining the ideal city, planning the gender-equal city in Umeå, Sweden**, Gender, Place & Culture, 23:12, 1750-1762, DOI: 10.1080/0966369X.2016.1249346 - '**Handbook for Gender Inclusive Urban Planning and Design**', from the World Bank, February 2020 https://www.worldbank.org/en/topic/urbandevelopment/publication/handbook-for-gender-inclusive-urban-planning-and-design - Mills, Amy (2017) **The Cultural Geopolitics of Ethnic Nationalism: Turkish Urbanism in Occupied Istanbul** (1918–1923), Annals of the American Association of Geographers, 107:5, 1179- 1193, DOI: 10.1080/24694452.2017.1298433 - Moser, Sarah. 2012. **"Circulating Visions of 'High Islam': The Adoption of Fantasy Middle Eastern Architecture in Constructing Malaysian National Identity**", Urban Studies, 49(13): 2913-2935. - Sassen, Saskia. 1996. "**Whose City Is It? Globalization and the Formation of New Claims.**" Public Culture 8(2): 205-223. - Waldinger, Roger. 2008. "**Between 'Here' and 'There': Immigrant cross- border activities and loyalties.**" International Migration Review 42(1): 3-29. - Zukin, S. **Gentrification: Culture and Capital in the Urban Core Annual review of sociology,** 1987, Vol.13 (1), p.129-147 - Hackworth, Jason. 2007. "Neoliberal Gentrification", in The Neoliberal City: Governance, Ideology, and Development in American Urbanism. Ithaca: Cornell University Press. Pp: 123-149. - Featherstone, Mike. The "Flâneur", the City and Virtual Public Life Urban

studies (Edinburgh, Scotland), 1998, Vol.35 (5/6), p.909-925
- Shortell,Timothy and Brown, Evrick. Chapter 2, The Flaneur: A way of Walking, Exploring and Interpreting the City. Walking in the European City Quotidian Mobility and Urban Ethnography
- Anderson, Elijah. The Cosmopolitan Canopy. The Annals of the American Academy of Political and Social Science, 2004, Vol.595 (1), p.14-31

Documentaries
- Urbanized (dir. Gary Hustwit)
- Pruitt-Igoe Myth (dir. Chad Freidrichs)
- Inside Job (dir. Charles Ferguson)
- Ekumenopolis (dir. Imre Azem)

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Architectural Design 3		AD3
Preceding Module: AD2	Responsible Person: Jaroslav Wertig	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency:3rd Semester, Winter Term
Course Title	**Architectural Design 3**	
Course Code	AD3	
Professor(s):	Studio Leaders K-P _ Lukáš Kurilla + Šimon Prokop S-F _ Janek Schindler + Elan Fessler T-J _ Shota Tsikoliya + Ondřej Janků W-K _ Jaroslav Wertig + Jakub Kopecký RV_Robert Votický	
Contact Hours per Semester:	112	
ECTS (Credits):	10	
Method of Instruction:	Workshop and Studio Work (W +ST)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	At the end of the third semester: - You have the skills to define, create and communicate spatial relations and configurations in architecture and urban space, and to represent them in clear and articulated sets of drawings and conceptually in diagrammatic models. - You are exploring various design processes that represent the project's principles conceptually, tectonically and structurally by the deadline. - You work iteratively, producing several variations in any step of the process, always evaluating the - technical implications of conceptual schemes. - You apply feedback, and incorporate it productively into your design process. - You investigate the given, external circumstances of the project (site, precedents, materials, spaces,programs etc.), and seek to establish systems, geometries, and rules to generate coherent, rich design. - You have developed experience with, and can select appropriately from, a wide array of architectural drawing and representation skills, including BIM and visualisations, for the most effective, efficient, and elegant results. - You implement research skills relevant to the design process, and begin to understand the relation between conceptual schemes and	

	construction technologies, as well as between research and design. - You have begun to explore the appropriate selection and application of structures, elements and assemblies for the project,, and use that understanding to articulate the project. - You feel confident making well-constructed models that begin to move beyond mere representation, and are able to analyse and represent conceptual and material layers and complexity through models. - You are able to develop and defend an argument about the fundamental elements, design principles and assemblies, and important disciplinary questions of our field, so that you can begin to propose "what is architecture?" and distinguish it from related disciplines.
General Course Description:	Emphasis on the analytical component of design, specifically the construction of abstract representations of concepts and relationships. Emphasis on the communication between analytical drawings and models as tools of theory and testing grounds of thought — rather than as simply representations. Development of construction hierarchies, in drawing and models, indicating at a schematic level, layers and components of assemblies. Texts which explain the project on multiple levels, including its methodological approach, its compositional, material and environmental aspects, and its programmatic agenda regarding its interior and its site.
Course Materials:	Each student (each team of 2) will be required to maintain/provide their own model-making materials. Sufficient and appropriate materials for multiple types of models (conceptual+diagrammatic, structural and assembled with components, larger-scale details, site massing models with terrain, high-quality finished final models) must be readily available to each student. Please prepare your model-making materials in advance. Other resources will be given out throughout the semester.

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Art 3		ART3
Preceding Module: Art 2	Responsible Person: Jakub Křeček	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Art 3**	
Course Code	ART3	
Professor(s):	Jakub Křeček	
Contact Hours per Semester:	28	
ECTS (Credits):	3	
Method of Instruction:	Workshop (W)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - creatively think: learn how to develop an architectural idea by using physical model - learning by doing: experiment to get a sense for spatial composition, materials and ergonomics - preparing files for laser cutting - explore the concept of scale and to further develop details	
General Course Description:	Physical design skills are the key to practitioners in art, design and engineering. Models are essential in architecture. In design practice all kinds of physical scale models are used side by side. In the course students will gain experience that will help and inspire them to advance in personal and professional development. First we will focus on sketch models and finally more precise and detailed models will be developed according to existing buildings.	
Course Materials:	Materials used during lectures and seminars are provided in class nonetheless it is advised that students also have their own laptops and bring their own materials for model making	

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Construction 3 | BIM INTRO		C3_BIM1
Preceding Module: C2_CAD	Responsible Person: Jaroslav Novotný	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Construction 3 | BIM INTRO**	
Course Code	C3_BIM1	
Professor(s):	Jaroslav Novotný	
Contact Hours per Semester:	14	
ECTS (Credits):	1	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	At the end of the course, students should be able to: - Understand what is BIM and how to use it - Logically divide building to small building components - Understand of 3D space in BIM model (grids, level, planes) - Have the ability to think parametrically and to use appropriate tools when modeling - Have knowledge of creating views (floor plans, section, elevation…) for different project phases (scheme design, design development…) - Have knowledge of presenting the project using 3D view, perspectives and schemes	
General Course Description:	BIM is a progressive way to digitize architecture and in the near future knowledge of BIM programs will become a necessity to find a job in the field of architecture and civil engineering. Most of the Czech and international studios are already using BIM to create the models and manage them throughout all phases. During the workshop, you will learn the theory and practice of modeling and managing a BIM model in Revit, how to use its basic modeling functions, how to create architectural and construction drawings and also how to create 3D graphics output in the form of perspectives and renderings.	
Course Materials:	**Online Resources** - Autodesk Support and learning tutorials: https://knowledge.autodesk.com/support/revit-products/gettingstarted/caas/CloudHelp/cloudhelp/2021/ENU/Revit-GetStarted/files/GUID-9E9688A2-0645-4F8E-9D96- F1B76291A6C6-htm.html - Revit Pure Blog: https://revitpure.com/blog/	

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Construction 3 | Non-bearing Structures		C3_NS
Preceding Module: Construction 2	Responsible Person: Klára Vokáč Machalická	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Construction 3 | Non-bearing Structures**	
Course Code	C3_NS	
Professor(s):	Klára Vokáč Machalická	
Contact Hours per Semester:	42	
ECTS (Credits):	3	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work, Final Exam (SW+ E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to generally understand building constructions, related constructional layers, and functions of particular constructional layers. They should be able to correctly design all types of building structures and basic constructional details as mentioned above in Course Description. Their ability to correctly design and draw constructional details have to be developed in the following courses	
General Course Description:	In the NBS course, students will develop their knowledge gained at Construction 1. The NBS course is subjected to constructions in more detail including particular requirements on them, layer compositions, building materials and constructional details. The NBS course is focused on: materials for thermal insulation, waterproofing systems and materials, radon protection, vapour control barriers importance of water table level, frost line level at footing detail horizontal structures – material alternatives, layer compositions of floors, layers of finish flooring, the function of each layer in layer composition of the floor wall structures – material alternatives, load-bearing walls, partitions, functions of each layer in layer composition, differences in heavy-weight/light-weight structures – how to fulfil all technical requirements roof structures (flat roofs, pitched roofs) – dtto constructional details during seminars: footing detail, basement wall detail, window lintel detail, eaves detail, parapet wall detail other construction details which are explained during lectures: - window sill, window jamb, roof window - stairs – detail of joint between landings and staircase to break impact sound transmission - thermal bridge break at balcony / cantilevered structures	

Course Materials:	**Readings** - Barry R., The Construction of Building, Vols. 1–4, Oxford BSP, 1991–2000 - Emmit S., Gorse Ch., Barry's Introduction to Construction of Buildings, Wiley-Blackwell, 2010 - Emmit S., Gorse Ch., Barry's Advanced Construction of Buildings, Wiley-Blackwell, 2010 - Ching F.D.K., Building Construction Illustrated, 2014 - Lyons A., Materials for Architects and Builders, 2007 - Watt A., Modern Construction Handbook, 2010

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Crafts and Presentation 3		CP3
Preceding Module: CP2	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Crafts and Presentation 3**	
Course Code	CP3	
Professor(s):	Dalibor Dzurilla	
Contact Hours per Semester:	30	
ECTS (Credits):	2	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to generally understand building constructions, related constructional layers, and functions of particular constructional layers. They should be able to correctly design all types of building structures and basic constructional details as mentioned above in Course Description. Their ability to correctly design and draw constructional details have to be developed in the following courses	
General Course Description:	We will explore three forms of architectural presentation further. Through research and design technique you will explore Visualizations, Diagrams, And technical Drawings. We will work in teams and you will learn further options for each architectural representation.	
Course Materials:	**Readings** - SCALE book https://bit.ly/2XFrSkB - Program Diagrams https://amzn.to/3APst1g - DETAIL magazine https://bit.ly/3z0QuBX - Graphic design for architects: https://amzn.to/3CZihFs **Online Resources** - https://cz.pinterest.com/visuin - http://lifeofanarchitecturestudent.net/ - http://www.firstinarchitecture.co.uk/	

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Fundamentals of Urbanism		FU
Preceding Module: None	Responsible Person: Lukáš Vacek	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Fundamentals of Urbanism**	
Course Code	FU	
Professor(s):	Lukáš Vacek, Matěj Veselský	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to urban elements and provide a general analysis of any given city's urbanism.	
General Course Description:	The course 'Fundamentals of Urbanism' {from Latin fundare "to found") aims to offer an introduction for the understanding of the making of the city. What is a city, what are its foundations and what is it constituted of? In the first half of this semester, we will look through the analyses of basic elements, at what formalizes the material and palpable foundations of a city - a so called lexicon of urban elements (terrain, sea/river, parks gardens, square, streets blocks) will be studied in order to understand the political, cultural, social & economic motivations behind them. Each of those elements will be introduced separately in order to understand their meaning. Indeed, we will ask why did people choose to dwell in some places rather than others? Why did they decide to build squares? How did the city crystallize and represent their way of life? In order to answer those questions, we will look at the evolution of those elements during History and at their potential implications in the European historical core, in the Modernist city and in contemporary suburbia. Even though the elements will be seen each week separately, it is expected that the student tries to draw parallels between the different elements throughout the course. In the second half of the semester, drawing from Kevin Lynch's book Te Image of the City, we will try to understand, question and interpret his theory of the 5 elements: Paths, Edges, Districts, Nodes and Landmarks.	

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Course Materials:	**Required Reading:** - Building and Dwelling by Richard Sennett (2018) - Te Image of the City by Kevin Lynch (1960) - Invisible Cities by Italo Calvino (1974)

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History of Architecture and Art 3		HA3
Preceding Module: HA2	Responsible Person: Hana Benešovská	Accessibility of Course: BA Arch Compulsory
Prerequisites: HA1, HA2	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**History of Architecture and Art 3**	
Course Code	HA3	
Professor(s):	Hana Benešovská Helena Dáňová Alena Kingham	
Contact Hours per Semester:	44	
ECTS (Credits):	3	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work, Final Written Exam (SW+E)	
Learning Expectations and Outcomes:	To be assigned.	
General Course Description:	This course provides an introduction to the European architecture and art of the Renaissance and the Baroque in the period 1400–1770. In the context of a broadly chronological survey, particular attention will be paid to the relationship between architecture and art. Problems addressed will include: basic terminology, innovation and stylistic changes, the role of the (city) state in the development of architecture and art, religious ideology and iconography and the new role of architects and artists – with a special focus on Italy, France, Germany and Central Europe. The lectures will cover three main themes: - Renaissance and Mannerism, c. 1420–1600 (including Central Europe and the „Transalpine Renaissance“) - Baroque in the Roman Catholic Countries, c. 1600–1760 - Czech Baroque architecture, 17th–18th centuries.	
Course Materials:	**Readings** - Hopkins, A, Italian architecture from Michelangelo to Borromini, London 2001 - Millon, H., The Renaissance from Brunelleschi to Michelangelo: The Representation of Architecture, London - 1994 - Wittkower, R., Art and architecture in Italy, 1600–1750, 6th ed., 3 vol., Yale University Press, New Haven 1999 - Blunt, A., Art and Architecture in France, 1500–1700, Yale University Press, New Haven 1999	

- Kalnein, W. von, Architecture in France in the Eighteenth century, Yale University, New Haven 1995
- Dotson, E. G., J. B. Fisher von Erlach: Architecture as Theater in the Baroque Era, New Haven and London
- 2012
- DaCosta Kaufmann, T., Court, cloister and city. The art and culture of Central Europe, 1450–1800,
- Weidenfeld & Nicolson, London 1995
- Muchka, I., Ten centuries of architecture 3. Architecture of the Renaissance, Prague 2001
- Kotalík, J., Ten centuries of architecture 4. Architecture of the Baroque, Prague 2001
- 5
- Bažant, J. and Bažantová, N., St Nicolas in Lesser Town. The Greatest Baroque Church in Prague, Prague
- 2011
- Bažant, J. and Bažantová, N., Vrtba Garden in Prague. A Jewel of Baroque Art. Prague 2011
- Bažant, J. and Bažantová, N., Waldstein Palace in Prague. The first Baroque Residence in Central Europe.
- Prague 2011
- Gombrich, E. H., The Story of Art, London 1995.
- Gombrich, E. H., The heritage of Apelles. Studies in the art of the Renaissance, Phaidon Press, Oxford 1976
- Hartt, F., History of Italian Renaissance art. Painting, Sculpture, Architecture, Thames and Hudson, London
- 1994
- Pope-Hennessy, J., Italian Renaissance sculpture, Phaidon Press Limited, London 2002
- Magrelli, S., Uzzani, G., The Italian renaissance, Slovart, Praha 2009
- Syson, L., Keith, L. (eds.), Leonardo da Vinci. Painter at the Court of Milan, National Gallery, London 2011
- Dixon, S. M., Italian Baroque Art, Malden, MA 2008
- Pujmanová, O., Přibyl, P., Italian painting c. 1330–1550: I. National Gallery in Prague, II. Collections in the
- Czech Republic: Illustrated Summary Catalogue [III/1], National Gallery in Prague, Prague 2008
- DaCosta Kaufmann, T., The School of Prague. Painting at the Court of Rudolph II., Chicago and London 1988
- Vlnas, V. (ed.), European Art from Antiquity to the End the Baroque, Praha 2004
- Vlnas, V.: The glory of the Baroque in Bohemia: art, culture and society in the 17th and 18th centuries : a
- guide to the exhibition, National Gallery, Prague 2001
- Vlnas, V. (ed.), Mannerist and baroque art in Bohemia: guide to the permanent exhibition of the Collection of
- Old Masters of the National Gallery in Prague at the Convent of St George, National Gallery, Prague 2005
- Brusatin, M., Pizzamiglio, G., The baroque in central Europe: places, architecture and art, New York 1992

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Structural Engineering		SE
Preceding Module: None	Responsible Person: Petr Sejkot	Accessibility of Course: BA Arch Compulsory
Prerequisites: Basic ability of producing engineering sketches by hand and by a specialized software. Knowledge of the SI units and ability to work with them. Skills in math to solve systems of equations. Understanding the exponential and goniometric functions.	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Structural Engineering for Architects**	
Course Code	SE	
Professor(s):	Petr Sejkot	
Contact Hours per Semester:	42	
ECTS (Credits):	3	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work, Final Exam (SW+E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - identify the load bearing structure of a building; - interpret structural analysis results of a load bearing structure; - compare engineering structures by the strength and stiffness criteria; - explore and compare various structural analysis techniques and compare their suitability for use; - explain and discuss robustness and dimensions used in the architectural design.	
General Course Description:	In this course, students will learn how structures resist the external and internal load actions. With this knowledge, students will be able to take into the account the load actions for their designs and calculate the appropriate dimensions of the load bearing structures. They will also learn and become familiar with the related terminology.	

Course Materials:	**Readings** - Structural Engineering Handbook; E.Gaylord, C.Gaylord, J.Stallmayer; McGraw-Hill, 1996 - Timber Construction Manual; Herzog, Natterer, Schweitzer, Volz, Winter; Birkhäuser-Publishers for - Architecture, 2012 - Masonry Construction Manual, Pfeifer; Ramcke, Achtziger, Zilch; Birkhäuser-Publishers for Architecture, - 2001 - Steel Construction Manual; Schulz, Sobek, Habermann; Birkhäuser-Publishers for Architecture, 2012 - Concrete Construction Manual; Kind-Barkauskas, Kauhsen, Polonyi, Brandt; Birkhäuser-Publishers for - Architecture, 2002 - Energy Manual – Sustainable Architecture; Hegger, Fuchs, Stark, Zeumer; Birkhäuser-Publishers for - Architecture, 2007 - Building Construction Illustrated; Francis D.K. Ching; John Wilez & Sons, Inc.; NY, USA **Online Resources** - The Efficient Engineer: https://efficientengineer.com/

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Built Environment and Sustainability		BES
Preceding Module: None	Responsible Person: Vojtěch Mazanec, Michaela Petříková	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 3rd Semester, Winter Term
Course Title	**Built Environment and Sustainability**	
Course Code	BES	
Professor(s):	Vojtěch Mazanec Michaela Petříková	
Contact Hours per Semester:	30	
ECTS (Credits):	3	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	- Students will learn what building technologies are and how they affect the whole architectural design. - Students will learn how to choose appropriate systems for basic types of buildings and how to do a general - drawing of the building technology systems. - Students will get basic knowledge about what they should expect from building services engineers. - Students will learn how to coordinate the building services systems in a building design.	
General Course Description:	In the course, students will get the basic knowledge about key building technologies and the application of that systems in various building types. Class will be focused on conventional contemporary building systems. In the lectures, students will gain an overview of the main types of building services systems, including mechanical, electrical, and plumbing (MEB) systems, spatial and technical requirements, and related terminology. In the seminars, students will apply the acquired knowledge in designing those systems for a given building and they will share and discuss their result with others in a short presentation.	

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Architectural Design 4		**AD4**
Preceding Module: AD3	Responsible Person: Jaroslav Wertig	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Architectural Design 4**	
Course Code	AD4	
Professor(s):	Studio Leaders S-F _ Janek Schindler + Elan Fessler T-J _ Shota Tsikoliya + Ondřej Janků W-K _ Jaroslav Wertig + Jakub Kopecký RV_Robert Votický	
Contact Hours per Semester:	112	
ECTS (Credits):	10	
Method of Instruction:	Workshop and Studio Work (W+ ST)	
Examination Form:	Projects & Presentation, Semestral Work (SW)	
Learning Expectations and Outcomes:	Objectives - You have the skills to create and communicate strong spatial definition in architecture, and to represent - them in clear and highly articulated plans and sections. - You are developing a personalized, systematic design process that can be harnessed with confidence to - produce rigorous, poetic architecture by the deadline - You work iteratively, always producing several variations in any step of the process. - You seek feedback, and incorporate it productively into your design process. - You look for systems or patterns in the given, external circumstances of an assigned project (site, precedent, materials, spaces, building type, program etc.), and seek to establish systems, geometries, and rules - to generate coherent, rich design.. - You have developed experience with, and can select appropriately from, a wide array of architectural - drawing and representation skills, including BIM and visualizations, for the most effective, efficient, and - elegant results.	

	- You implement research skills relevant to the design process, and begin to understand the relation between conceptual schemes and construction technologies, as well as between research and design. - You have begun to explore the appropriate selection and application of structures, elements and assemblies for the project and use that understanding to articulate the project. - You feel confident making well-constructed models that begin to move beyond mere representation, - and are able to analyze and represent conceptual and material layers and complexity through models.
General Course Description:	Emphasis on the holistic project, which integrates social, ethical and environmental issues as well as building systems, energy and construction, within a developed site-specific configuration of program, form, material and landscape. Developed technical drawings and structural models. Demonstrated understanding of the construction process implied in the project. Representation of the project through photography, specifically its development from schematic phases through final form, supported by text descriptions.
Course Materials:	To be assigned.

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Art 4		ART4
Preceding Module: Art 3	Responsible Person: Andrea Thiel Lhotáková	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Art 4 | Photography**	
Course Code	ART4	
Professor(s):	Andrea Thiel Lhotáková	
Contact Hours per Semester:	28	
ECTS (Credits):	3	
Method of Instruction:	Workshop (W)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - control the camera or phone camera - edit in Photoshop and Lightroom - work with lights in the school studio - use composition in photography • present a series of photographs in one style	
General Course Description:	Students will learn photographic techniques, camera controls including aperture, shutter speed, sensitivity during actual workshops outdoor and also in school. We will focus mainly on digital photography and also possibilities of mobile phone photography, followed by practical exercises in Adobe Photoshop and Lightroom. During lectures we will explore possibilities of photography and learn how to see the world around us with fresh eyes and change the reality in creative ways	

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Construction 4 | BIM 2		C4_BIM2
Preceding Module: C3_BIM intro	Responsible Person: Jaroslav Novotný	Accessibility of Course: BA Arch Compulsory
Prerequisites: C1-TD, C2-CAD, C3-BIM1	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Construction 4 | BIM 2**	
Course Code	C4_BIM2	
Professor(s):	Jaroslav Novotný	
Contact Hours per Semester:	30	
ECTS (Credits):	3	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	At the end of the course, students should be able to: – create a mass conceptual design – use mass adaptive components and set parameters for simulation and design verification – use solar and energy analysis to verifying the design – use design options in conceptual and design part of project – present design information graphically in 2D and 3D, adapting the output according to the type of information – report floor area and other design coefficient – create a detailed model of a civil building, customizing building elements and annotation – be able to recognize BIM components by profession and know components' functionality – know the basics of coordination of professions in a BIM	
General Course Description:	Parametric design and computer-generated design are increasingly penetrating into architectural design. Ideally, such design should be sustainable and save on building operating costs. To achieve this, Revit uses adaptive 3D components for concept and design. We will show how to create conceptual models of buildings and individual building components so that they are adaptive and ideally can be optimized according to the results of design analyses and simulations, and adapted to requirements and criteria. Each 3D design should be well presented and documented, including schedules of quantities, product tables and 2D descriptions - all of which are powerful tools in BIM that we will use on the model of apartment house. BIM's 3D building model is made up of individual elements that are tailored to professional requirements - the structural model, the architectural model and the MEP section. We will use the different elements and explain their functionality and specifics. Students should gain an understanding of the reporting and analysis capabilities of architectural design in BIM, how to design parametric element, analyze and report the required information.	
Course Materials:	**Online Resources** - Autodesk Support and learning tutorials: https://knowledge.autodesk.com/support/revit-products/gettingstarted/caas/CloudHelp/cloudhelp/2021/ENU/Revit-	

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Construction 4 | Load-bearing Structures		**C4_NS**
Preceding Module: Construction 3	Responsible Person: Klára Vokáč Machalická	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Construction 4 | Load-bearing Structures**	
Course Code	C4_LS	
Professor(s):	Ing. Klára Vokáč Machalická, Ph.D.	
Contact Hours per Semester:	56	
ECTS (Credits):	3	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work, Final Exam (SW+ E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to generally understand load-bearing systems in buildings, transmission of load, possibilities in usage of building materials for load-bearing members. They should be able to define preliminary dimensions of load-bearing members according to function of building (loading) and span.	
General Course Description:	In the C4-LS course, students will develop their knowledge gained at Structural Engineering course. The C4- LS course is subjected to load-bearing structures in more detail focusing on preliminary design of loadbearing members with respect to applied building materials. C4-LS course pay particular attention to: – characteristics of basic building materials and their mechanical properties, – characteristics of basic structural elements and systems with respect to used materials, – load-bearing systems, – structural analysis and design procedures, – introduction to European Standards, – preliminary design of structural elements in building, – interaction of load-bearing structures with the other parts of construction	
Course Materials:	**Readings** – Ambros J, Vergun D: Design of lateral forces, edited by A. Wiley and sons, NY 1987	

- Bungale S. Taranth: Structural analysis and design of Tall Buildings, edit by McGraw-hill Book Company, NY 1988
- Booth E: Concrete structures in earthquake regions, Design and analysis, edit by Longman Scientific and Technical, UK 1994
- Mir.M.Ali: Art of the skyscraper – the genius of Fazlur Khan, Rizzoli international publication, NY, 2001
- Barry R.: The Construction of Building, Volume 1, Oxford BSP, 1991
- F. Chaing: Building construction illustrated, edit by Van Nostrand Reinhold, 115 Fifth Avenue, NY 1991

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Crafts and Presentation 4		**CP4**
Preceding Module: CP3	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: – Understanding SketchUp modelling from CP1 – Creation processes of visualization, diagram, site plan from CP2 – Know-how of aesthetical outputs from CP3 – Install Affinity Photo – Installed Affinity Publisher Functional MS TEAMS	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Crafts and Presentation 4**	
Course Code	CP4	
Professor(s):	Dalibor Dzurilla	
Contact Hours per Semester:	30	
ECTS (Credits):	2	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: – Create aesthetical architectural posters (visualization poster, diagram poster, drawing poster) – How to make it in sustainable time.	

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General Course Description:	Learn to create architectural boards / posters.
Course Materials:	**Readings** – Design Process in Architecture: From Concept to Completion https://www.amazon.de/Design-Process-Architecture-ConceptCompletion/dp/178627132X/ref=sr_1_1?ie=UTF8&qid=1549817160&sr=8- 1&keywords=design+process+in+architecture – Typography book: Adams S., The Designer's Dictionary of Type (2019) Book about empty space: White A., The Elements of Graphic Design: Space, Unity, Page Architecture, and Type, 2022 (3rd edition) – Samara T., Design Elements: A Graphic Style Manual Paperback – April 1, 2007 Samara T., Design Elements, 2nd Edition: Understanding the rules and knowing when to break them - Updated and Expanded, 2014 – Samara T., Design Elements, Third Edition: Understanding the rules and knowing when to break them - A Visual Communication Manual Paperback – Illustrated, September 8, 2020 **Online Resources** – online.visuin.com – trainings

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Social Ecology		**E**
Preceding Module: None	Responsible Person: Petra Kadlecová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Social Ecology**	
Course Code	E	
Professor(s):	Petra Kadlecová	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to generally understand and explore societies relationship and interactions with the living environment. The course content includes numerous assigned and recommended readings, in-class exercises, assignments, and a workshop.	
General Course Description:	In the E course, students will be included in a series of sessions providing a chronological overview of some theoretical developments in the field of social ecology followed by exploration of a series of case study investigations. We will then review and discuss a series of strategies with an emphasis on strategies that seek to resolve conflicts between the built environment and natural systems.	
Course Materials:	**Readings** – Reading 1: the Great Kinship of Humans and Fauna – Reading 2: Descent of Man – Reading 3: The Closing Circle – Reading 4: Silent Spring – Reading 5: What is Social Ecology – Reading 6: Design with Nature – Reading 7: Natural Capitalism – Reading 8. Cradle to Cradle – Reading 9: The Living Building Challenge – Reading 10: LID Low Impact Development – Reading 11: Professional Code of Ethics; Czechia and your home Country.	

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History of Architecture and Art 4		HA4
Preceding Module: HA3	Responsible Person: Hana Benešovská,	Accessibility of Course: BA Arch Compulsory
Prerequisites: HA1, HA2, HA3	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**History of Architecture and Art 4**	
Course Code	HA4	
Professor(s):	Hana Benešovská, Alena Kingham	
Contact Hours per Semester:	34	
ECTS (Credits):	3	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work, Final Written Exam (SW+E)	
Learning Expectations and Outcomes:	The goal of this course is to provide students with a general understanding of the development of early modern and modern European architecture and art. On successful completion of this course, students should be able to: – demonstrate the application of acquired knowledge, observation, critical reflection and corresponding research skills – outline the chronology and main tendencies in European architecture of the 19th century – identify the major monuments as well as their key stylistic characteristics – understand and employ correctly basic technical terminology relating to the practice of architecture	
General Course Description:	This course is an introductory survey of the architecture of the "long" 19th century. The 19th century architecture is closely tied with the modern academic approach to history and art history. This period, sometimes called the "long 19th century", began in the mid 18th century and ended in about the second decade of the 20th century. It constitutes one of the great experimental epochs in European architectural history. Architects responded to the new political, social and technological challenges of a rapidly changing modern world in different ways: by returning to the styles of past eras or by turning away from the past toward an abstract architecture of the imagination and/or by evolving a new style expressing new ways of thinking and living. These diverse intellectual currents produced riche body of architecture, ranging from town and country houses, palaces, and public buildings designed in variety of traditional styles to new types of buildings like railway stations, prisons, department stores, factories and museums that	

	reflected industrial and social transformation of the European society. The 19th century architecture course includes lectures, seminars and on-site visits. We put emphasis on the main architectural centres of this period (Paris, Berlin, Munich, Dresden, Vienna, London) and the study of rich early-modern architecture in Prague (on-site visits). The art section will aim in this semester to the modern art especialy. Starting with lessons to classicism, romanticism and realism the most important streams leading to the modern art will be presented. Students will learn not only the history of modern art but also the ways how to describe and analyze this art, how to understand its meaning and how to interpret its message.
Course Materials:	**Readings** – Barry Bergdoll, European Architecture 1750–1890, Oxford History of Art, 2000 – Henry Russell Hitchcock, Architecture: Nineteenth and Twentieth Centuries, The Yale University Press Pelican History of Art, 1977 – Pavel Zatloukal, Ten Centuries of Architecture: Architecture of the 19 th Century, Prague – Norbert Schmidt – Marius Winzeler (eds.), Old Masters in the Schwarzenberg Palace English version, 232 pages, 346 reproductions, ISBN: 978-80-7035-769-9 – Anna Pravdová - Lada Hubatová Vacková (eds.), First Republic 1918–1938. English version, 224 pages, 300 reproductions, ISBN: 978-80-7035-699-9 Veronika Hulíková, Otto M. Urban, Filip Wittlich eds., Art of the long Century 1796-1918 English, 232 pages, ISBN: 978-80-7035-729-3 – Stephen F. Eisenman, Nineteenth Century Art: A Critical History, first published 1994, Thames and Hudson **Presentations** – History of the 19th century architecture in Europe1&2) – History of the 19th century architecture in Bohemia – Art History presentation **Online Resources** – The Met's Heilbrunn Timeline of Art History: https://www.metmuseum.org/toah/ https://www.ngprague.cz/en/education **Libraries** – National Library of the Czech Republic (Klementinum): https://www.nkp.cz, http://www.en.nkp.cz – UPM library (library of The Museum of Decorative Arts in Prague): https://www.upm.cz/en/, https://knihovnaupm.cz

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Philosophy		**P**
Preceding Module: None	Responsible Person: Matěj Veselský	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Philosophy**	
Course Code	P	
Professor(s):	Matěj Veselský	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: – read and interpret a text (including philosophical texts); – reconstruct the argumentation of the text and set it into a broader cultural framework. – critically evaluate the content of the argument; – form own arguments in discussion; • write down the argumentation in a form of an essay.	
General Course Description:	The aim of our philosophy course is to gain knowledge about basic philosophical problems related to an individual, society and political environment of our lives. Further, the course strengthens reading skills, understanding of the argument in the text and argumentation as such. The Philosophy course this year might have a bombastic title: What is wrong with the world today? Surely, it seems there is a general agreement that something goes not so well these days. Ecological challenges, armed conflicts, pandemic (and failures in addressing it), energetic crises and growing inequality fill the (web)pages of media every day. Once upon a time (some hundred or even fifty years ago), there was a shared agreement that there is a cure to many maladies of societies. This cure was democracy. However, something seems to go wrong even with this cure. Nowadays, the so-called populistic movements claim to be the true and only democratic movements. The ancient Greek term PHARMAKON meant both a cure and a poison. Is it the case with democracy as well? Or more importantly, what happened with our communities, with our society that democracy became such a contested and problematic notion (one could argue that it was always a problematic notion, however now it is questionable whether it is a solution at all or merely a problem).	

Course Materials:	**Readings** Democracy and its troubles – Popper, K. R., Open Society and Its Enemies, vol. 1, chapter Leadership – Snyder, T., Black Earth, Conclusion: Our World – Arendt, H., The Origins of Totalitarianism, chap. IX, The Decline of the Nation-State and the End of the Rights of Man (selection) Populism and Democracy – Müller J-W. Democracy and disrespect. Philosophy & Social Criticism. 2019;45(9-10):1208- 1221. – Michael Ignatieff, The Politics of Enemies, Journal of Democracy, Volume 33, Number 4, October 2022, pp. 5-19 Understanding the trouble – Judt, T., Ill fares the land, chap. The Unbearable Lightness of Politics – Lilla, M., The End of Identity Liberalism, NYTimes, Nov. 18, 2016 – Sandel, M., The Tyranny of Merit, chap. Success Ethics – Piketty, T., Capital in the Twenty-First Century, chap. Merit and Inheritance in the Long Run (selection)

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Urban Design		UD
Preceding Module: None	Responsible Person: Lukáš Vacek	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 4th Semester, Summer Term
Course Title	**Urban Design**	
Course Code	UD	
Professor(s):	Lukáš Vacek	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: – identify values, problems and potential of urban environment • evaluate the analysis of environment. – compare different approaches of urban transformation and architectural intervention. – formulate an assignment of transformation – visualize the analysis and evaluation – propose alternatives of interventions and transformations of studied urban environment – explain and discuss the analysis and proposal	
General Course Description:	Good design starts with good analysis. Understanding the needs of place, its values, problems, and potential leads to design. The geniality of famous designers is the imaginative conversion (creative evaluation) of Analyses (understanding of place) into a Design (proposal). The course will focus on all three topics and its tools. The object of analytical design will be specified individually. Semester work will focus on various aspects of the urban environment in the territory of Prague 5 Teamwork is welcome.	
Course Materials:	**Readings** – Christian Norberg Schulz – Genius Loci – Italo Calvino – Invisible Cities – Camillo Sitte - City Planning According to Artistic Principles Kevin Lynch - The image of the city	

	– Jane Jacobs - The Death and Life of Great American Cities Aldo Rossi - The Architecture of the City – Le Corbusier – Towards an Architecture – Jan Gehl - Cities for People **Other Readings** Patric Geddes, Luis Mumford, Idelfonso Cerdá, Christopher Alexander, Robert Venturi, Leon Krier, Rob Krier, Rem Koolhaas, Frank Lloyd Wright, Collins

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Architectural Design 5		AD5
Preceding Module: AD4	Responsible Person: Jaroslav Wertig	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Architectural Design 4**	
Course Code	AD4	
Professor(s):	Studio Leaders K-P _ Lukáš Kurilla + Šimon Prokop S-F _ Janek Schindler + Elan Fessler T-J _ Shota Tsikoliya + Ondřej Janků W-K _ Jaroslav Wertig + Jakub Kopecký RV_Robert Votický	
Contact Hours per Semester:	112	
ECTS (Credits):	10	
Method of Instruction:	Workshop and Studio Work (W+ ST)	
Examination Form:	Projects & Presentation, Semestral Work (SW)	
Learning Expectations and Outcomes:	**At the end of the fifth semester:** • You have the skills to create and communicate strong spatial arrangements, assemblies and expressions in architecture and urbanism, and to represent them in clear and highly articulated drawings and models at multiple scales. • You are developing a personalised, systematic design process that can be harnessed with confidence to express the project's ideas and technical complexity through multiple scales and various representational levels by the deadline. • You are self-motivated to advance your project, always producing several variations in any step of the process, working back and forth between conceptual schemes and technical solutions. • You evaluate and synthesise feedback, and incorporate it productively into your design process. • You look for systems or patterns in the given, external circumstances of the project (site, precedents, materials, spaces, building types, programs, environmental factors etc.), and seek to establish systems, geometries, and rules to generate coherent, rich design. • You can develop, select and apply appropriate representational techniques and forms specific to your project, for the most effective, efficient, elegant and comprehensive results.	

	• You integrate research skills relevant to the design process, and begin to understand the relation between the architectural project and its social and ecological context. • You have begun to explore the interrelation of systems, environments and technologies, and use that understanding to develop the project. • You have the technical skills to make well-constructed models, by hand or by machine, at multiple scales, which incorporate layered assemblies and demonstrate the principles of the construction. • You are able to discuss, represent and write about the project, in terms of "what is architecture?", and to support this theoretical text with technical reports.
General Course Description:	Development of a more complex building type, with a more comprehensive representation of its components, construction, planning and siting. Emphasis on the interaction of the parterre with public space, and the interaction of the environmental conditions on the building envelope, interior dispositions, and life-cycle operations. Complex descriptions of the project as an urban and architectural construct, its layers, elements and significant details, and its social and environmental impact. Additionally texts, which demonstrate a philosophical argument for the project as a critical, site-specific work.
Course Materials:	To be assigned.

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Construction 5 – Advanced Construction Methods		C5_ACM
Preceding Module: None	Responsible Person: Sean Clifton	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Construction 5 – Advanced Construction Methods**	
Course Code	C5_ACM	
Professor(s):	Sean Clifton	
Contact Hours per Semester:	42	
ECTS (Credits):	3	
Method of Instruction:	Lectures and Seminars (L+S)	
Examination Form:	Semestral Work (SW) + Examination (E)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: • correctly identify the potential of physical, social and cultural contexts of specific projects • interpret and implement relevant design strategies • explore, compare, evaluate, and prioritize contradicting contextual requirements (client, legal, environmental, etc) • explain and discuss how sustainability and technical design affect contemporary architecture	
General Course Description:	The course expands upon previously discussed themes of indoor environmental quality and energy systems in buildings, into the context of materiality, sustainability and environmental impact. As an introduction to the topic, students will carry out a complex analysis of significant buildings of contemporary architecture with the aim of identifying their principles of sustainability. As a main task, students will explore the potential for optimisation in their own designs (possibilities to implement sustainable principles, 'smart design' with the use of low-tech building physics principles, advanced construction methods, and the use of renewable energy resources) by analysing and developing their architectural project from the previous semester. With the help of on-topic lectures including a specific focus on 'Passive House' design, and with support from teachers, students will investigate the applicability of high-end material research and novel technologies such as nanotechnology, recycled materials, automation of building site processes, generative and algorithmic modelling, discrete architectural elements, circular economy/ecology, green building systems,etc.	

Course Materials:	**Readings** Sustainable Vernacular Architecture: How the Past Can Enrich the Future Ali Sayigh, Springer, 2019 ISSN 2522-8927. Sustainable Architectural Design: An Overview, Kuppaswamy Iyengar, Routledge, 2015, ISBN 978- 1317636281. A Green Vitruvius: Principles and Practice of Sustainable Architectural Design, Vivienne Brophy, J Owen Lewis. Routledge, 2012. ISBN 978-1136528729. Constructing Architecture, Materials, Processes Structures, a Handbook, third edition, Birkhäuser, Andrea Deplazes (ed), **Online Resources** https://www.dezeen.com/tag/sustainable-architecture/ https://www.archdaily.com/category/sustainability https://study.com/academy/lesson/what-is-sustainable-architecture-definition-examples.html https://www.encyclopedia.com/environment/encyclopedias-almanacs-transcripts-andmaps/sustainablearchitecture **School Resources** Books and magazines available onsite and online from the ARCHIP library.

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Construction 5 – BIM3		C5_BIM3
Preceding Module: None	Responsible Person: Jaroslav Novotný	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Construction 5 – BIM3**	
Course Code	C5_BIM3	
Professor(s):	Jaroslav Novotný	
Contact Hours per Semester:	20	
ECTS (Credits):	2	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: • will know the process of BIM project development, for profession and coordination, checking accuracy of model. • build the model as BIM from concept to detail interpretation, presentation, scheduling, • Organize BIM project, create documentation with usual essentials. Use many types of parameters, understanding its types and usage, • Explore and compare BIM workflow with SchetchUP, AutoCAD and other tools. • explain and discuss where use BIM, how to set model and parameters.	
General Course Description:	BIM is a way of modelling, but more important is the creation of documentation for the execution of the construction. In other way BIM refers not only to the way of writing data (3D model), but mainly to the cooperation of all professions during the design process. We will try out a simple form of workflow in a BIM model as an example of tools for coordinating large projects. The next workshop time will be devoted to methods and tools for processing the Bachelor thesis, such as: portfolio organization, using parameters for reporting anything, inserting 2D drawings from AutoCAD and other applications. How to create all parts of documentation in Revit. Students will have the opportunity to try this form for their Bachelor's work in the following semester when there will be an opportunity to consult during DS. The BIM model will be in LOD 300 detail, roughly an architectural study. "By LOD 300, the elements are defined with exact dimensions and their relative positions bolstering precision."	

Course Materials:	**Online Resources** Autodesk Support and learning tutorials: https://knowledge.autodesk.com/support/revit-products/gettingstarted/caas/CloudHelp/cloudhelp/2021/ENU/Revit-GetStarted/files/GUID-9E9688A2-0645-4F8E-9D96-F1B76291A6C6-htm.html Revit Pure Blog: https://revitpure.com/blog/https://www.archdaily.com/category/sustainability https://study.com/academy/lesson/what-is-sustainable-architecture-definition-examples.html https://www.encyclopedia.com/environment/encyclopedias-almanacs-transcripts-andmaps/sustainablearchitecture

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Art 5		ART5
Preceding Module: None	Responsible Person: Jerry Koza	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Art 5**	
Course Code	ART5	
Professor(s):	Jerry Koza	
Contact Hours per Semester:	28	
ECTS (Credits):	3	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to understand the differences between: • architecture x design – - differences, similarities - teach the mutual respect between both professions • individual project x serial product • public space – architecture - design	
General Course Description:	In this course, we will focus on the design of a 'product'; its formal requirements and constraints; the environment in which the product will be used; its look and feel; technical legitimacy; and manufacturing considerations. We will mainly focus on the practical part of designing a product, at 1 to 1 scale, in a 3 days workshop in school premises and outdoor.	
Course Materials:		

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Crafts and Presentation 5		CP5
Preceding Module: None	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Crafts and Presentation 5**	
Course Code	CP5	
Professor(s):	Dalibor Dzurilla, Lucie Mertlíková	
Contact Hours per Semester:	30	
ECTS (Credits):	2	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: - Learn to create a visual presentation in the software - Speak about your project fluently and clearly in 5 minutes. - Be able to elaborate a well-structured architectural report	
General Course Description:	We want to learn how to create and make an oral architectural presentation to be very persuasive for the jury and get positive feedback and successfully defend your work. How to build it, how to present it. It is crucial knowledge for your successful architectural career.	
Course Materials:	**Readings** https://www.archdaily.com/90006/presentation-tips-for-architects-part-i https://www.lifeofanarchitect.com/presentation-skills-tips-and-techniques/ https://studylib.net/doc/13963312/lesson-plan-architecture-presentation-how-to-present Architectural Oral Presentation and Development Progress https://vincentloy.wordpress.com/2009/04/29/architectural-oral-presentation-and-development-progress/ Communication Skills for Architecture Students https://slideplayer.com/slide/5909439/	

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History of Architecture and Art 5		HA5
Preceding Module: None	Responsible Person: Karin Grohmannová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**History of Architecture and Art 5**	
Course Code	HA5	
Professor(s):	Karin Grohmannová, Alena Kingham	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work (SW) + Examination (E)	
Learning Expectations and Outcomes:		
General Course Description:	The course gives an introduction to architecture and urbanism known as Modern, between ca. 1900 and1960. Modernism significantly shaped the way we understand architecture today. We will focus on the crucial events and ideas, their background and effects. At the same time we will set architecture in a broader context of the arts, society, and politics. We will confront theory and practice, influential collective movements and individuals. The general viewpoint of the course is global, yet with a strong emphasis on Europe. Seminal texts are part of obligatory reading for all students, and will be discussed in during the lessons. Selected buildings and architects will be studied in detail, as a subject of individual presentations. Students will thus learn to analyse and understand the buildings though text, plans, drawings and photographs, as well as directly in the field. In addition to the classroom, we will use the copious examples of Modern architecture in the city of Prague itself: excursions are therefore an important part of the course.	
Course Materials:	**Readings** The obligatory reading is available on the course site in pdf or via www links. **Further Reading** Blundell Jones, Henry. Modern Architecture Through Case Studies. Oxford: Architectural Press,2002. Colquhoun, Alan. Modern Architecture. Oxford: University Press, 2002. Conrads, Ulrich (ed.). Programs and Manifestoes on 20th Century Architecture. Cambridge, Mass.:The MIT Press, 1970. Curtis, William J. R. Modern Architecture since 1900. London: Phaidon Press,	

1982, 1996 (3ed).
Frampton, Kenneth. Modern Architecture: A Critical History. London: Thames and Hudson, 1980.
Howard, Ebenezer. The Garden Cities of To-Morrow. London: Swan & Sonnenschein, 1902. [opensource: archive.org]
Risselada, Max. Raumplan versus Plan Libre: Adolf Loos and Le Corbusier. Basel: Birkhäuser, 1987.
Švácha, Rostislav, The Architecture of New Prague, 1895-1945. Cambridge, Mass.: MIT Press, 1995.
Templ, Stephan. Baba: The Werkbund Housing Estate Prague / Die Werkbundsiedlung Prag. Basel: Birkhäuser, 1999. (English and German Edition)
Weston, Richard. Alvar Aalto. London: Phaidon, 2007.
(More specific reading assignments will be given during the course).

School Resources
Books and magazines available onsite and online from the ARCHIP library.

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Monument Preservation		MP
Preceding Module: None	Responsible Person: Hana Benešovská	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Monument Preservation**	
Course Code	MP	
Professor(s):	Hana Benešovská	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L) + Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	As we live in a diverse and multinational society with its multicultural ties, we will also address the problem of the protection of the world cultural heritage in times of war conflicts and natural disasters. The growth of international crime against cultural property of all kinds, including both heritage sites and museum collections, highlights the importance of international organisations such as UNESCO/ICOMOS, ICOM, ICCROM, WHC or Euromed. On the basis of several case studies, we will discuss the extensive role of the architect for architectural heritage protection.	
General Course Description:	Despite its long history, monument preservation is a modern phenomenon related to the rise of modern society in the 19th and 20th centuries. From cathedrals' refurbishment and the restoration of monuments to the concept of the protection of urban landscapes, the history of monument preservation reflects our link with the past and influences our understanding of it. Prague, a UNESCO World Heritage Site, is an urban/architectural ensemble of outstanding quality, rich in both good and appalling examples of cultural heritage preservation/destruction. We will make the most of Prague and devote a number of excursions to visit various examples of monument preservation projects from the early 19th century to today's crucial cases.	
Course Materials:	**Readings** Jukka Jokkilehto, *A History of Architectural Conservation,* York 1986 Norman Tyler, Ted J. Ligibel, I. R. Tyler, *Historic Preservation: An Introduction to its History, Principles and Practice,* New York 2009	

Mark A. Brisbane, John Wood, *A Future for Our Past?: Introduction to Heritage Studies*, [London] 1996
Jean-Yves Andrieux, Fabienne Chevallier, *Le patrimoine monumental*, Presses universitaires, Rennes 2014
Alois Riegl, The Modern Cult of Monuments: Its Essence and Its Development [Der moderne Denkmalkultus, sein
Wesen, seine Entstehung (Vienna, 1903)], in: Nicholas Stanley Price, Mansfield Kirby Talley, Alessandra Melucco
Vaccaro (eds.), *Historical and Philosophical Issues in the Conservation of Cultural Heritage,* 1996
Simon Lambert, Cynthia Rockwell (eds.), *Protecting Cultural Heritage in Times of Conflict*, ICCROM, Rome 2012
Herb Stovel, *Risk Preparedness: A Management Manual for World Cultural Heritage*, ICCROM, Rome 1998
Herb Stovel, Nicholas Stanley-Price, Robert Killick (eds.), *Conservation of Living Religious Heritage*, ICCROM Conservation Studies 3, Rome 2005
Jean Viard (ed.), *Prague, avenir d'une ville historique capital,* Édition de l'Aube, Paris 1992
Klára Benešovská, Petr Chotěbor, Ivan P. Muchka et alii, *Ten Centuries of Architecture*, 6 volumes, Prague 2001
Umělecké památky Čech, díly I-IV
Umělecké památky Prahy, díly I-V
Umělecké památky Moravy a Slezska, díly I-IV

School Resources

Books and magazines available onsite and online from the ARCHIP library.

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Master Planning		**MPL**
Preceding Module: None	Responsible Person: Lukáš Vacek	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Master Planning**	
Course Code	MPL	
Professor(s):	Lukáš Vacek,	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L) + Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: Understand the purposes of city planning, know the ways, the tools, the protagonists of Democratic control of urban development, participative methods, planning process. Students may understand Planning documentation at different scales. Read master plans and understand land use and municipal policy. Have a general overview of various types of spatial and strategic planning. Students should be able to: • identify .... Main challenges in planning of cities or regions • interpret .... Existing strategies and masterplans • compare .... planning systems and strategies of various cities or regions / countries • explore and compare .... planning approaches and goals, connection between goals, tools and real impacts to the cities • explain and discuss .... spatial and strategic planning issues; pros and cons of different planning tools	
General Course Description:	In this course, students will learn about planning goals and tools, understand the correlations between strategic planning and spatial planning and the ways of controlling conflicts and power. They will also learn and become familiar with related terminology.	
Course Materials:	**Readings** Le Corbusier - The Radiant City	

	Christopher Alexander - Architectural Forum John Forester – Planning in the face of Power Jane Jacobs – The Death and Life of Great American Cities Aldo Rossi – Architettura della città Kevin Lynch – The image of the city Peter Hall – Theory and Practice of Regional Planning Sherry R Arnstein - A Ladder of Citizen Participation T.Brindley, Y.Rydin, G. Stoker - Remaking Planning: The Politics of Urban Change Leonie Sandercock - Towards Cosmopolis David Harvey – The Right to the City Henri Lefebvre - The Production of Space Pats Healey - Urban Complexity and Spatial Strategies **School Resources** Books and magazines available onsite and online from the ARCHIP library.

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Landscape Design		LD
Preceding Module: None	Responsible Person: Petra Kadlecová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 5th Semester, Winter Term
Course Title	**Landscape Design**	
Course Code	LD	
Professor(s):	Petra Kadlecová	
Contact Hours per Semester:	28	
ECTS (Credits):	3	
Method of Instruction:	Lectures (L) + Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Generally, the goal of this course is to integrate landscape as an integral part in all phases of developing an architectural proposal. At the conclusion of the course the student should be able to: 1. Conceptualize the relationship between buildings and the land they are connected to, 2. Describe the landform necessary to make this connection 3. Describe and detail the construction necessary to make this connection 4. Evaluate the material and energy requirements of the proposal. 5. Evaluate the flow and management of surface water.	
General Course Description:	"Landscape" means an area, as perceived by people, whose character is the result of the. action andinteraction of natural and/or human factors. European Landscape Convention Although this course is of course about design, it is first and foremost about design within the dynamic, living environment of landscape. Ultimately, the goal is to synchronize the built environment with the natural systems they exist within. We should consider this course as an introduction to landscape design and not an all -inclusive elaboration of all facets of the field. We considers landscape architecture to be an allied profession of architecture, as a partner in the design of our built environment. The course is designed as a series of sessions and various local working excursion. Course content is communicated through lectures, excursions, exercise and assignments. All offer critical content of the course but together is the most effective way to successfully explore the issues. This course explores basic components, characteristics, features and functions of landscape as a fundamental part of our environment with four primary springboards to the following explorations; a. Land form, basic principles of describing, designing and constructing landform	

	as a part of the built environment. (Assignment 1) b. Perception, slope and use (Assignment 2) c. Planting a building, how buildings are connected to the place they are constructed. (Assignment 3) d. Materials and details, (Assignment 4) e. Landscape as the foundation for a functional, beautiful, sustainable, resilient and regenerative future. Design and realization plan. (Assignment 4)
Course Materials:	**In Class Equipment & Materials** Preparation for class includes having the following equipment available for Classes 2 through 4 and the **Berlin Excursion:** 1. Calculator for basic math functions 3. Measuring tape of 3m length minimum. 4. Tracing paper 5. Camera **Readings** Readings are not required; however, there will be references provided during the semester that shall be used in the development of Assignment 4. **Online Resources** ALL references used during the development of your work in the semester assignments shall be properly referenced in the submitted work. Failure to do so will represent a full grade reduction of the assignment final grade. **School Resources** Books and magazines are available onsite and online from the ARCHIP library.

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Architectural Design 6		AD6
Preceding Module: AD5	Responsible Person: Lukáš Kurilla, Šimon Prokop	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, Summer Term
Course Title	**Architectural Design 6**	
Course Code	AD6	
Professor(s):	Studio Leaders K-P _ Lukáš Kurilla + Šimon Prokop S-F _ Janek Schindler + Elan Fessler T-J _ Shota Tsikoliya + Ondřej Janků W-K _ Jaroslav Wertig + Jakub Kopecký RV_Robert Votický	
Contact Hours per Semester:	168	
ECTS (Credits):	15	
Method of Instruction:	Workshop and Studio Work (W+ ST)	
Examination Form:	Projects & Presentation, Semestral Work (SW)	
Learning Expectations and Outcomes:	**At the end of the sixth semester:** • You have the skills to create and communicate strong spatial arrangements, assemblies and expressions in architecture and urbanism, and to represent them in clear and highly articulated drawings and models at multiple scales. • You are developing a personalised, systematic design process that can be harnessed with confidence to express the project's ideas and technical complexity through multiple scales and various representational levels by the deadline. • You are self-motivated to advance your project, always producing several variations in any step of the process, working back and forth between conceptual schemes and technical solutions. • You evaluate and synthesise feedback, and incorporate it productively into your design process. • You look for systems or patterns in the given, external circumstances of the project (site, precedents, materials, spaces, building types, programs, environmental factors etc.), and seek to establish systems, geometries, and rules to generate coherent, rich design. • You can develop, select and apply appropriate representational techniques and forms specific to your project, for the most effective, efficient, elegant and comprehensive results.	

	• You integrate research skills relevant to the design process, and begin to understand the relation between the architectural project and its social and ecological context. • You have begun to explore the interrelation of systems, environments and technologies, and use that understanding to develop the project. • You have the technical skills to make well-constructed models, by hand or by machine, at multiple scales, which incorporate layered assemblies and demonstrate the principles of the construction. • You are able to discuss, represent and write about the project, in terms of "what is architecture?", and to support this theoretical text with technical reports.
General Course Description:	Beginning with an overview of the preceding semester works, establish a position on architecture to develop in the Bachelor Diploma project. A comprehensive project which will be solved in all respects at a highly developed technical level, regardless of yet in proportion to its scale. The Bachelor semester will act as a synthesis of the previous semesters and will integrate all its issues and contents and demonstrate an advanced knowledge of their implications in the project. Urban, ecological, social, environmental, philosophical, structural, technical, representational, and theoretical knowledge will be clearly and completely presented in written, spoken, drawn and modelled form. Consultations with supporting professionals throughout the semester will reinforce the expected high standard of the final output as a contemporary architectural construction with a complete visual, graphic and technical presentation.
Course Materials:	To be assigned.

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Technical Coordination		TC
Preceding Module: None	Responsible Person: Sean Clifton, Klára Vokáč Machalická, Lucie Mertlíková, Petr Sejkot, Michaela Petříková, Vojtěch Mazanec	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, SummerTerm
Course Title	**Technical Coordination**	
Course Code	TC	
Professor(s):	Sean Clifton, Klára Vokáč Machalická, Lucie Mertlíková, Petr Sejkot, Michaela Petříková, Vojtěch Mazanec	
Contact Hours per Semester:	42	
ECTS (Credits):	5	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Following completion of the course, students will have gained: • Ability to proceed through all stages of the design process independently (from general to specific), respecting the iterative nature of the process. • Ability to identify the correct and relevant technical, legal or other boundary conditions of the design • Competence to make correct selection of a building technique, material, etc relevant to the given situation and to balance contradicting architectural, technical and legal requirements.	
General Course Description:	Motto: architectural design is a continuous and iterative process of finding the best-balanced solution for the given task. This course is aimed at implementation of technical knowledge (structural systems, building materials, techniques, building physics, technical standards, local building traditions, etc.) acquired in previous technical courses into an architectural design. The main objective is to bring all of its components into the right balance. Students start with basic structural considerations and proceed further with general compositions of the characteristic parts of their building. The design process is enclosed by detailed design of crucial parts of the building envelope (roof, fa.ade, ground, underground). Students are encouraged to justify their decisions at all stages of the design to prove their familiarity of building materials, techniques and their capability to make correct decisions under given conditions.	
Course Materials:	**Recommended Textbooks:** Concrete Construction Engineering Handbook Nawy E. G.:, CRC, 2008 Construction Materials Manual Manfred Hegger, Volker Auch-Schwelk, Matthias Fuchs, Thorsten Rosenranz: Birkh.user, Edition Detail , 2006	

	Masonry Construction Manual Gu̇nter Pfeifer, Rolf Ramcke, Joachim Achtziger, Konrad Zich:, Birkh.user, Edition Detail, 2001 Timber Construction Manual Julius Natterer, Wolfgang Winter, Thomas Herzog, Roland Schweitzer,Michael Volz: Birkh.user, Edition Detail, 2004 Roof Construction Manual, Eberhard Schunck, Hans-Jochen Oster, Rainer Barthel, Kurt Kiel: Birkh.user,Edition Detail, 2003 Glass Construction Manual 2nd ed.Christian Schittich, Gerald Staib, Dieter Balkow, Matthias Schuler, Werner Sobek:, Birkh.user, Edition Detail, 2006 Fasade Construction Manual Thomas Herzog, Roland Krippner, Werner Lang:, Birkh.user, Edition Detail, 2004 Structural Use of Glass in buildings, The Institution of Structural Engineers, SETO, London, 1999 lectures available on Public drive Constructing Architecture, Materials, Processes Structures, a Handbook, third edition, Birkh.user, Andrea Deplazes (ed), The Elements of Style (William Strunk Jr.) – available in the ARCHIP library **Online Resources** Documents uploaded to the CC course

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Crafts and Presentation 6		CP6
Preceding Module: None	Responsible Person: Dalibor Dzurilla	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, SummerTerm
Course Title	**Crafts and Presentation 6**	
Course Code	CP6	
Professor(s):	Ing. arch. Dalibor Dzurilla	
Contact Hours per Semester:	34	
ECTS (Credits):	2	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	• This is supportive subject for your final project portfolio • The aim is how to make portfolio. When to make it? How to approach? What to put inside? • Understanding of graphic principles • Understanding of storytelling of your project by portfolio form. • Learn how to time management your work	
General Course Description:	In this semester we will focus on project portfolio creation. Presentation of your bachelor project. Learn graphic design strategies for the best project presentation in sustainable amount of time and aware of time management.	
Course Materials:	**Readings** The Portfolio: An Architecture Student's Handbook (Architectural Students Handbooks) (English Edition) https://www.amazon.de/Portfolio-Architecture-Students-Architectural-Handbooksebook/dp/B0081YW5YG/ref=sr_1_1?ie=UTF8&qid=1549816927&sr=8-1&keywords=architectural+portfolio Constructing the Persuasive Portfolio: The Only Primer You'll Ever Need (English Edition) https://www.amazon.de/Constructing-Persuasive-Portfolio-Primer-Englishebook/dp/B07BFBDG37/ref=sr_1_5?ie=UTF8&qid=1549816927&sr=8-5&keywords=architectural+portfolio Design Process in Architecture: From Concept to Completion https://www.amazon.de/Design-Process-Architecture-Concept-Completion/dp/178627132X/ref=sr_1_1?ie=UTF8&qid=1549817160&sr=8-	

1&keywords=design+process+in+architecture

Films

Great architect youtuber: https://www.youtube.com/watch?v=Mvcas0ilCHo
Also interesting youtube channel: https://www.youtube.com/watch?v=ndy9m-By5gY

Online Resources

Interesting tips for portfolio in general: https://www.arch2o.com/tips-winning-architecture-portfolio/
Some portfolios designs: https://www.archdaily.com/872418/the-best-architecture-portfolio-designs
How to do arch portfolio? https://www.archdaily.com/780996/12-tips-on-making-an-architecture-portfolio
Some portfolio hacks: https://www.archdaily.com/881338/architecture-portfolio-hacks-how-to-create-arecruiter-approved-portfolio
Great site also article about portfolio: https://www.lifeofanarchitect.com/architectural-portfolios/
Tips for portfolio to job: https://archipreneur.com/5-top-tips-creating-great-architecture-portfolio/
Online portfolio: https://www.ncarb.org/blog/how-to-build-online-architecture-portfolio-4-steps
First steps to portfolio: https://www.thearchitectsguide.com/blog/successful-architecture-portfolio

ARCHIP

ARCHITECTURAL INSTITUTE IN PRAGUE

Preparing for Practice		**PC**
Preceding Module: None	Responsible Person: Rachidi Karim	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, SummerTerm
Course Title	**Preparing for Practice**	
Course Code	PC	
Professor(s):	Rachidi Karim	
Contact Hours per Semester:	42	
ECTS (Credits):	4	
Method of Instruction:	Seminars (S)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: • Choose a direction for their professional career • Understand the economy of the Architectural practice • Find the right partners and sub-contractors • Prepare a price offer for potential client • Ethic and responsible manners in the Architectural fields	
General Course Description:	In this course, students will learn how to create and manage their own achitectural practice.	
Course Materials:	**Film** “The competition” by Angel Borrego Cubero (time of screening to be specified)	

ARCHIP

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History of Architecture and Art 6		HA6
Preceding Module: None	Responsible Person: Karin Grohmannová	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, SummerTerm
Course Title	**History of Architecture and Art 6**	
Course Code	HA6	
6Professor(s):	Karin Grohmannová, Alena Kingham	
Contact Hours per Semester:	34	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	By the end of the course, students should be able to: • identify, explore and compare the essential architectural ideas and styles of the late 20th and early 21st centuries, and to apply different criteria to understand them in their historical, and social context. • interpret buildings in their historical and spatial context • explain and discuss seminal writings on contemporary architecture, distinguish between their genres and objectives	
General Course Description:	The course gives an introduction to architecture and urbanism from the 1960s until today. The students will learn about the important currents and ideas in architecture in times when its possibilities and limits underwent substantial changes and re-definitions. The course invites to fact-based yet critical exploration of various architectural forms, and requires reading texts by critics, historians as well as architects themselves. Specific buildings and architects will be studied in detail, set in a broader context of the arts, society, and politics. An important part is the field trip where building and urban spaces will be examined in detail and the urban context. Students will thus learn to analyse and understand the buildings though text, plans, drawings and photographs, as well as directly in the field.	
Course Materials:	**Reading** See 'Reading 2021-22' in the course folder at the Archip Wall. • Lesson 1: Hollein, Hans, Reyner. Everything is Architecture, 1968. https://designmanifestos.org/hans-hollein-everything-is-architecture/ • Lesson 2: Chapters 1, 2, 5, in Venturi, Robert. Complexity and Contradiction in Architecture. 1966.	

(see .pdf in the Reading section.)

Further Reading

• Banham, Reyner, The New Brutalism. 1966.
• Banham, Reyner. A Home Is Not a House, 1965.
• Frampton, Kenneth: Modern Architecture: A Critical History. 1980.
• Jencks, Charles, The Postmodern Reader. 1992.
• Koolhaas Rem – Obrist, Hans Ulrich, Project Japan: Metabolism Talks. 2012.
• Koolhaas, Rem, Delirious New York: A Retroactive Manifesto for Manhattan. 1978.
• Mallgrave, Harry Francis – Contandriopoulos, Christina (eds.): Architectural Theory. Volume II - An
Anthology from 1871 to 2005. Wiley-Blackwell, 2008.
• Mallgrave, Harry Francis – Goodman, David: An Introduction to Architectural Theory - 1968 to the
Present. Wiley-Blackwell, 2011.
• Risselada, Max – van den Heuvel, Dirk (eds.), Team 10 1953-81: In Search of a Utopia of the Present.
• Rossi, Aldo, The Architecture of the City. 1984.
• Venturi, Robert, Complexity and Contradiction in Architecture. 1966.
• Zumthor, Peter, Thinking Architecture. 2010.

School Resources

Books and magazines available onsite and online from the ARCHIP library.

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Critical City		**CC**
Preceding Module: None	Responsible Person: Ryan Manton	Accessibility of Course: BA Arch Compulsory
Prerequisites: None	Duration of the Course: 1 Semester	Frequency: 6th Semester, SummerTerm
Course Title	**Critical City**	
Course Code	CC	
Professor(s):	Ryan Manton	
Contact Hours per Semester:	28	
ECTS (Credits):	2	
Method of Instruction:	Lectures (L)	
Examination Form:	Semestral Work (SW)	
Learning Expectations and Outcomes:	Basic knowledge on urban planning and its history	
General Course Description:	The course will try to enhance your critical thinking towards urban design. We will think about what a city is, through what we will call 'City's Responsibilities'. 1. transport and infrastructure 2. housing and regulations 3. public space This will allow you to understand what the urban fabric represents and its multi-faceted impacts on society. The last class will be given to 'Time', where we will be reading about history, collective memory and digital space.	
Course Materials:	**Readings** Bourdieu, Pierre & Passeron, Jean-Claude (1970) La Reproduction, Minuit, Paris Mitchell, William J. (2005) Placing words: Symbols, Space and the City, MIT PressCambridge, Massachusetts. Barthes, Roland (1972) Mythologies, Cape, London. Virilio, Paul (2009) Stop-Eject: The Futurism of An Instant, Galilée, Paris. De Certeau, Michel (1984) The Practice of Everyday Life: 'Making Do', University of California Press, Berkeley, CA. ed. by Markus Miessen and Shuman Basar (2006) Did Someone Say Participate?, an atlas of spatial practice, authors/artists& Revolver, Frankfurt.	