

# Architectural Technology and Construction Management 3rd. semester

**Programme:**

Bachelor of Architectural Technology and Construction Management programme

**Semester:**

3. Semester of a full 7. semesters bachelor degree programme.

**Pre-requisites:**

A foreign qualification equal to 1-2 years of basic understanding and knowledge of building and construction technology (engineering).

**Availability:**

Spring Semester (end January/early February - June)

Autumn Semester (and August/early September – January)

**Programme information for exchange (Learning Agreement):**

For a detailed course description kindly refer to the programme curriculum found under programme information on:

<http://zibat.dk/wp-content/uploads/2017/10/Curriculum-The-Architectural.pdf>

**Semester overview:**

	<i>Study Programme at the Receiving Institution</i>			
	<b>Planned period of the mobility: from [month/year] ..... to [month/year] .....</b>			
<b>Before the mobility</b>		<b>Component/course title</b> (as indicated in the course catalogue)	<b>Semester</b> [e.g. autumn/spring; term]	<b>Number of ECTS credits</b>

	ATCM3	<b>English and Organisation</b> (Mandatory)	<b>Autumn/Spring</b>	<b>5</b>
	ATCM3	<b>Business operations, Administration and Law</b> (Mandatory)	<b>Autumn/Spring</b>	<b>5</b>
	ATCM3	<b>Construction</b> (Mandatory)	<b>Autumn/Spring</b>	<b>3</b>
	ATCM3	<b>Structural calculations</b> (Mandatory)	<b>Autumn/Spring</b>	<b>3</b>
	ATCM3	<b>Energy and services</b> (Mandatory)	<b>Autumn/Spring</b>	<b>3</b>
	ATCM3	<b>Construction management</b> (Mandatory)	<b>Autumn/Spring</b>	<b>3</b>
	ATCM3	<b>Building Information Modelling – BIM</b> (Mandatory)	<b>Autumn/Spring</b>	<b>3</b>
	ATCM3	<b>Elective educational component</b>	<b>Autumn/Spring</b>	<b>5</b>
				<b>Total: 30 ECTS</b>
Web link to the course catalogue at the Receiving Institution describing the learning outcomes:				
<a href="http://zibat.dk/wp-content/uploads/2017/10/Curriculum-The-Architectural.pdf">http://zibat.dk/wp-content/uploads/2017/10/Curriculum-The-Architectural.pdf</a>				

### Semester Description

The tuition is based on a building and civil engineering project, which the student must complete. The project is multi-disciplinary, and as such, the students' preparation involves all the disciplines. The students plan and manage the project themselves but are supported by the ordinary theory tuition which runs alongside the project work and is as far as possible directly related to the project.

Erasmus Plus exchange students from abroad will follow the 3rd semester where the study is arranged as teamwork. The examination will also be held in teams. The lecturers make the introductory presentation in the lessons in English and afterwards the lecturer will act as the students' project consultant, in the classroom, helping them with any problems with their project. The case in the 3rd semester involves an English-speaking client and English-speaking contractors, which means that the documents must be made in English. The exchange students will be "installed" in a team of 2-3 Danish students with good English speaking skills.

### Course Description:

If an interest in this programme/semester please be advised that incoming students are integrated with a group of Danish students and that the full semester is offered “project-based”.

<b>Component code</b> (if any)	<b>Component title at the Receiving Institution</b> (as indicated in the course catalogue)	<b>Course Component Description</b>	<b>Available Semester</b>	<b>Number of ECTS credits</b>
-	<b>English and Organisation</b> (Mandatory)	In the English course unit the emphasis is placed on training the students in oral and written English in the practice that is experienced especially in the Danish construction industry but also internationally.  Organization comprises organizational theory in practice - ie. standards for communication and collaboration, both within the various organizations of the construction industry and in different countries' organizational cultures	Spring/Autumn	<b>5</b>
-	<b>Business operations, Administration and Law</b> (Mandatory)	Administration focuses on managing the financial and organizational conditions of a company as well as human relations.  Law comprises the legislation matters in the construction sector – ie. The Working Environment Act, The Order on Quality Assurance and the understanding of contracts.	Spring/Autumn	<b>5</b>
-	<b>Construction</b> (Mandatory)	Construction has both a theoretical and practical angle, in which the student will acquire knowledge of materials, construction engineering, design methodology, construction requirements and technical installations in simple constructions.	Spring/Autumn	<b>3</b>
-	<b>Structural calculations</b> (Mandatory)	In structural calculations focus is the loadbearing constructions in the prefab building, which is the interdisciplinary project in the 3 <sup>rd</sup> semester. Structures are dimensioned as a combination of estimation and calculation.	Spring/Autumn	<b>3</b>

-	<b>Energy and services</b> (Mandatory)	In this course unit the focus is on the buildings' energy consumption and technical installations. The emphasis is on determining relevant technical installations, as well as to identify critical building problems in different building elements and their assembly points.	Spring/Autumn	<b>3</b>
-	<b>Construction management</b> (Mandatory)	Construction management deals with planning and managing the project both in the design phase and and the execution phase. The tuition emphasizes the use of relevant IT tool such as MS Project.	Spring/Autumn	<b>3</b>
-	<b>Building Information Modelling – BIM</b> (Mandatory)	BIM focuses on giving the student insight and tools to more efficiently plan, design, construct, and manage buildings and infrastructure in a 3D model-based process	Spring/Autumn	<b>3</b>
-	<b>Elective educational component</b>	In this course the student chooses and investigates a theme or a problem within the modern construction industry and submits a thesis of maximum 20 pages.	Spring/Autumn	<b>5</b>
				<b>TOTAL:30 ECTS</b>