



















You can find results, Key Performance Indicators and action plans on [Studynet \(Aarhus\)](#). Results from the latest evaluations are presented at the Semester introduction. Furthermore, your class representatives play an important part in passing on the main points from the DSR-meetings.

## **1.4.2 The local DSR (Student Council)**

At VIA there is one DSR at each campus with class representatives from all the study programmes, but there is also local DSR's at the study programmes.

The programme management at VIA Built Environment in Horsens, Aarhus and Holstebro respectively continuously involve the local DSR in a discussion of the work with quality assurance and development of the programme, including:

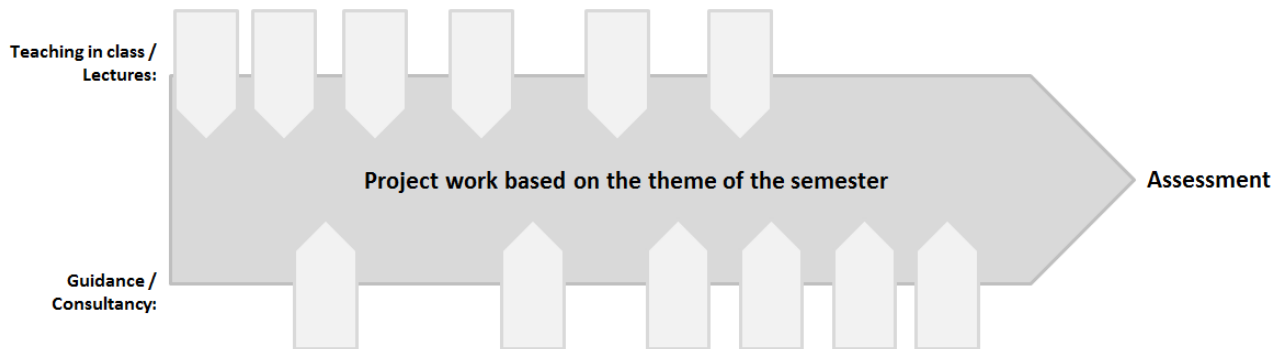
- Employer involvement
- Graduate involvement
- Final Teaching Evaluation
- Final Evaluation of the Internship in Denmark and abroad
- Final Evaluation of Study Abroad
- The Student Satisfaction Survey
- Drop-out analysis
- The Quality Report

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## 2 THE SEMESTER

During this semester, your studies will evolve around one continuous project in agreement with the overall semester theme. Figure 4 illustrates how single subject inputs support the project work. Theoretical inputs are often concentrated at the beginning of the semester, whereas guidance and consultancies in relation to the project are offered later in the semester. It is in the process towards solving problems that you demonstrate your development of competencies in order to become an AP Graduate in Construction Technology or a Bachelor of Architectural Technology and Construction Management.

Figure 4: Cross- disciplinary project work



Source: Created at VIA Built Environment

### 2.1 Entrance requirements

In order to be admitted to the 1<sup>st</sup> semester, you must meet the admission requirements defined in the Danish Ministerial order regarding admission to the Bachelor of Architectural Technology and Construction Management profession bachelor degree program.

### 2.2 Learning aims for the 1st semester (transcribed from the curriculum)

In this section the learning aims for the compulsory part of the semester (30 ECTS-points) are described. The learning aims are transcribed from [the curriculum](#).

#### Knowledge

By the end of the compulsory programme element, the student should have knowledge of:

- the correlation between the various professional issues in the semester theme
- relevant communication theories and methods to convey discipline-specific issues, including digital media within the theme of the compulsory programme element
- tools and standards in connection with the theme of the compulsory programme element
- the basic technical disciplines and related relevant documentation of the profession within the theme of the compulsory programme element
- general working methods in relation to theme of the compulsory programme element
- working methodology through methods and practice for use in planning, collaboration and learning
- methods and practice for use in planning, collaboration and learning
- general mathematical and physical construction principles of relevance to the profession
- basic static principles
- data collection and documentation in connection with project design tasks
- industry partners, professional areas and insight into the construction process in relation to the theme of the compulsory programme element
- applied principles, theories, methods and tools for project management of building and construction production in factories or on the construction site in relation to the theme of the compulsory programme element

## Skills

By the end of the compulsory programme element, the student should be able to:

- use methods and tools to collect and analyse information within the theme of the compulsory programme element
- convey practice-related technical issues related to the theme of the compulsory programme element to relevant partners and users
- relevant communication and methods to convey problems in production processes
- apply professional techniques in relation to the theme of the compulsory programme element and use methods for planning the building process
- structure their own and the work group's work at starter level
- assess setting-out tasks as well as understand and use site plans with contour lines and other map features used in the building and construction industry

## Competences

By the end of the compulsory programme element, the student should have the competences to:

- identify their own knowledge and learning needs based on the knowledge, skills and competences acquired in the course of the completed compulsory programme elements
- handle relevant construction and documentation material in relation to the theme of the compulsory programme element
- understand the correlation between the various professional issues in the theme of the compulsory programme elements
- take part in interdisciplinary collaboration on setting out in connection with building and construction tasks

## 2.3 The project work

The project work is partly carried out as individual assignments and partly as assignments that need to be solved in groups of 2-4 students.

The work is carried out in groups, partly because this work form is commonly used within the building industry, and partly because you learn a lot when you have to collaborate problem oriented on a project with other students with different experiences.

Irrespective of the group work, it is important that you as an individual are able of acquiring and applying the knowledge you have obtained during single-subject teaching.

During your work with the cross-disciplinary project for the 1<sup>st</sup> semester you will carry out analyses of building-technical problems and you will produce the documentation needed at a scheme design level for a single-family house in 1-2 storeys.

The project is designed as a BIM model in 2D and 3D.

### Outline Proposal

Based on a client's brief you (in groups) will be asked to sketch a proposal for a single-family house in 1-2 storeys. The house should have a size of approximately 160 m<sup>2</sup> without basement, but possibly with a garage. The house must be designed to fit into a specific plot assigned to the group.

The design work is carried out in 3D and presented on posters for approval by the client.

Supplementary documents and analyses are prepared for presentation through PowerPoint or similar programme.

The groups present results to 'the client' and to each other in class.

### Scheme Design

During this phase the groups will further develop an outline proposal up to scheme design level. The individual teams will 'work' with a new plot. The scheme design must document that the house can actually be constructed within the framework of current laws and regulations. The documentation will be in the form of analyses – certificates- details – plans – sections and elevations.

## Detail Design 1 and 2

It is not within the scope of the 1st semester theme to work out final Detail 1 and 2 material, but in order to develop the digital drawing skills, each student will further elaborate a given plan to the level required for 'authority approval' and 'work drawing' for construction.

### 2.3.1 Single-subject teaching

The single-subject teaching concerns rules, theories, methods and techniques within each specific academic field. The timely placement of each topic can be seen from the semester team own teaching plans, which will be available on Study net.

Table 2 show which single subject each main subject consists of. The topics are described separately in the following subsections.

**Table 2: Subjects and topics**

| Main subject                           | Single subject                                    | Duration        |
|----------------------------------------|---------------------------------------------------|-----------------|
| Building Design (BDS)                  | Architecture and Building Design (ABDS)           | 1 ECTS-point    |
|                                        | Building Design (BDS)                             | 6 ECTS-points   |
|                                        | Material Science (BDS/MSC)                        | 3 ECTS-points   |
| Structural Design (STD)                | Structural Design and Mathematics (STD/MATH)      | 2,5 ECTS-points |
| Building Services (BSE)                | Building Services and Building Physics (BSE/BPHY) | 2.5 ECTS-points |
| Building Planning and Management (BPM) | Building Planning and Management (BPM)            | 5 ECTS-points   |
| Communication (COM)                    | Communication (COM)                               | 5 ECTS-points   |
| Registration (REG)                     | Land Surveying and Spatial Planning (SUR)         | 5 ECTS-points   |
| <b>Total duration of the semester:</b> |                                                   | 30 ECTS-points  |

Source: Created at VIA Built Environment

#### 2.3.1.1 Building Design (BDS)

The learning aims and content of the subject is shown in the following subject boxes.

**Subject box 1: Architecture and Building Design (ABDS)**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 1 ECTS-point                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Learning aims - Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- the subject's knowledge base, its methods, and practice</li> <li>- recent architectural history with a focus on Danish housing construction on a smaller scale</li> <li>- fundamental architectural guidelines regarding the aesthetic setting</li> <li>- basic knowledge of sustainable architecture</li> </ul> |
| <b>Learning aims - Skills</b>    | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- communicate the disposition of a residential building through analysis of the building's use</li> <li>- collect information and perform functional analyses in regards to the subject</li> <li>- achieve an understanding of drawings through the sketching process, free-hand drawing and 3D modeling</li> </ul>          |

|                |                                                                                                                                                                                                                                                                                                                                                                         |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Content</b> | <ul style="list-style-type: none"> <li>- construction of the single-family house based on architecture and building design in relation to housing construction</li> <li>- Danish architectural history</li> <li>- architectural understanding</li> <li>- tools for planning, analysis and visualization at a basic level</li> <li>- sustainable architecture</li> </ul> |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Source: Created at VIA Built Environment

**Subject box 2: Building Design (BDS)**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 6 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Learning aims – Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- the subject in general, its methods and practice in connection with housing construction</li> <li>- holistic sustainable construction</li> <li>- contemporary building methods and building constructions</li> <li>- functional requirements for building constructions, including knowledge about Energy Efficient Sustainable Building Design and Construction</li> <li>- analogue and digital tools in the design and communication of the building design</li> </ul> |
| <b>Learning aims – Skills</b>    | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- analyze and select building constructions for your project</li> <li>- achieve an understanding of drawings and constructions through sketching and 3D modelling</li> <li>- plan and develop a building from an existing proposal to a stage where it can be used as a basis for local authority approval</li> <li>- prepare documentation and to communicate information about the designed building using 2D/3D drawings – in writing and orally</li> </ul>                       |
| <b>Content</b>                   | <ul style="list-style-type: none"> <li>- layout of house on the plot including the distance regulations in the building code and provisions on oblique building lines</li> <li>- design methodology</li> <li>- sustainable conversion in the construction industry</li> <li>- building constructions and assembly details related to housing construction</li> <li>- analogue and digital tools in sketching and communication of construction</li> </ul>                                                                                               |

Source: Created at VIA Built Environment

**Subject box 3: Material Science (BDS/MSC)**

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 3 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Learning aims – Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- the subject in general, its methods and practice</li> <li>- materials and their use in relation to the theme of the semester</li> <li>- the manufacture, processing and trading of materials</li> <li>- integration of materials into structures, their function and performance relative to application: Relevant properties, norm requirements, chemistry, environmental impact, certification schemes, life expectancy and recycling</li> <li>- the lifecycle term in relation to durability, maintenance and sustainability</li> </ul> |
| <b>Learning aims – Skills</b>    | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- analyze and select building materials at a basic level</li> <li>- substantiate and document the selection of building materials based on their properties</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Content</b>                   | <ul style="list-style-type: none"> <li>- Seeking knowledge, analysis and documentation within the subject in relation to the the theme of the semester</li> <li>- visit to a building material manufacturer and a building site.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                               |

Source: Created at VIA Built Environment

### 2.3.1.2 Structural Design (STD)

The learning aims and content of the subject is shown in the following subject box.

#### Subject box 4: Structural Design and Mathematics (STD/MATH)

|                                  |                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 2.5 ECTS-points                                                                                                                                                                                                                                                                                                                                                               |
| <b>Learning aims – Knowledge</b> | You must gain knowledge about: <ul style="list-style-type: none"><li>- units and concepts related to basic structural design and mathematics</li><li>- the structural systems and be able to identify these in a single family house of 1-2 floors</li><li>- Different types of load bearing structures and materials as well as their functions in small buildings</li></ul> |
| <b>Learning aims – Skills</b>    | You must be able to: <ul style="list-style-type: none"><li>- account for stability, load types and the static system for a smaller housing development</li></ul>                                                                                                                                                                                                              |
| <b>Content</b>                   | <ul style="list-style-type: none"><li>- Basic units, density, weight and specific gravity</li><li>- Action, reaction, dissolving and joining of forces and their direction</li><li>- Load bearing and bracing main system</li><li>- Supports, anchoring, and ceiling diaphragms</li><li>- Types of supports and loads</li></ul>                                               |

Source: Created at VIA Built Environment

### 2.3.1.3 Building Services (BSE)

The learning aims and content of the subject is shown in the following subject box.

#### Subject box 5: Building Services and Building Physics (BSE/BPHY)

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 2.5 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Learning aims – Knowledge</b> | You must gain knowledge about: <ul style="list-style-type: none"><li>- different types of supply lines and their location on the plot in relation to the building, the boundary line and requirements for different laying depths</li><li>- different heating systems used in a single-family house</li><li>- different types of ventilation used in a single-family house</li><li>- different types of drainage pipes used inside the building and sewer, rainwater and drain pipes used in the ground (on the plot) and the connection to the main sewer system</li><li>- various installations for water, heating, electricity and communication</li></ul> |
| <b>Learning aims – Skills</b>    | You must be able to: <ul style="list-style-type: none"><li>- arrange a plot and house plan in relation to supply lines and service pipes</li><li>- perform analyses for ventilation in accordance with the current Building Regulations</li><li>- perform analyses and estimates for heating systems</li><li>- plan technical installations on the basis of analyses and estimates</li><li>- calculate U-values of some standard constructions</li></ul>                                                                                                                                                                                                      |
| <b>Content</b>                   | <ul style="list-style-type: none"><li>- Supply lines on the plot</li><li>- requirements, materials, laying depths and laying conditions for the different supply lines</li><li>- principles and supply pathways for water, heat, ventilation, communication lines and electrical installations</li><li>- energy guidelines on energy-efficient construction</li></ul>                                                                                                                                                                                                                                                                                         |

Source: Created at VIA Built Environment

### 2.3.1.4 Building Planning and Management (BPM)

The learning aims and content of the subject is shown in the following subject box.

#### Subject box 6: Building Planning and Management (BPM)

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 5 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Learning aims – Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- methods for effective study planning</li> <li>- the planning and management of design work</li> <li>- basic principles used in the planning of implementation</li> <li>- methods for estimating building costs</li> <li>- methods and principles for quality assurance</li> <li>- project organizations and the various parties involved – including, the design phases and forms of contracts</li> <li>- basic principles used for the filing and management of digital documents</li> <li>- the structure and content of a building component log</li> <li>- Planning, local plans, easements, and registration</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Learning aims – Skills</b>    | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- plan the course of the semester logically</li> <li>- illustrate the building process in relation to the theme of this semester with consideration to the various parties involved</li> <li>- apply current planning methods involved when designing a single-family house</li> <li>- communicate the planning and implementation to the various parts involved</li> <li>- analyze the implementation and interdependency of the various building activities involved in the building of a single-family house – using a network diagram and the Gantt-charts</li> <li>- define (take-off) quantities and prepare cost estimates using m2-costs and costs of building components using digital tools</li> <li>- set up a budget based on rough calculation for the various parties involved – including the client (building owner)</li> <li>- use a filing management system for your project as a group</li> <li>- use a building component log as documentation for all decisions relevant to the project</li> </ul> |
| <b>Content</b>                   | <ul style="list-style-type: none"> <li>- resource management (group and personal planning)</li> <li>- group collaboration (team contract)</li> <li>- phases and services of the building process</li> <li>- journalisation of building components</li> <li>- quality assurance</li> <li>- work environment (considerations regarding the building site)</li> <li>- network planning</li> <li>- implementation schedule</li> <li>- calculation and quantity selection</li> <li>- forms of contracts and tendering</li> <li>- tools: Spreadsheet - use of formulas in spreadsheets</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

Source: Created at VIA Built Environment

### 2.3.1.5 Communication (COM)

The learning aims and content of the subject is shown in the following subject box.

#### Subject box 7: Communication (COM)

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 5 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Learning aims – Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- relevant communication theories and methods for disseminating building-related issues, including the use of digital media within the subject of the compulsory programme element</li> <li>- building the communication structure in a digital presentation</li> <li>- group collaboration and methods for self-assessment and learning in groups</li> <li>- the importance of the agenda and the minutes and their structure</li> <li>- the composition of reports focusing on problem definition, structure and data collection</li> </ul> |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Learning aims – Skills</b> | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- present practical and academic subjects orally and in writing</li> <li>- develop a problem definition and based on this a report structure</li> <li>- collect data by using methodological principles</li> <li>- develop the skill til collaborate with other students</li> <li>- both orally and in writing – reflect upon your own learning, including your collaboration with others</li> <li>- prepare an agenda and write a report as a documentation of the work and phase in the group</li> <li>- use study techniques relevant to PBL</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Content</b>                | <p>Learning/study technique and collaboration</p> <p>Portfolio - including:</p> <ul style="list-style-type: none"> <li>- Self-reflection and reflection on subjects (learning aims, self-evaluation and knowledge sharing)</li> <li>- Documentation of learning styles, counselling meetings, team contracts, Project meetings</li> <li>- An introduction to group organized work</li> </ul> <p>Study techniques, including:</p> <ul style="list-style-type: none"> <li>- Information retrieval</li> <li>- Reading and note-taking techniques</li> <li>- Relevant study methodological tools for the above, for example, but not necessarily, Mind Map, one note ...</li> </ul> <p>Communication:</p> <ul style="list-style-type: none"> <li>- oral and written - including electronic - presentation techniques for evaluations and examinations</li> <li>- Preparing a call for a meeting. Writing decision and narrative minutes of meetings focusing on group work</li> <li>- Writing reports – intro focusing on problem definition, structure and data collection</li> </ul> |

Source: Created at VIA Built Environment

### 2.3.1.6 Registration (REG)

The learning aims and content of the subject is shown in the following subject box.

#### Subject box 8: Land Surveying and Spatial Planning (SUR)

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Duration</b>                  | 5 ECTS-points                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Learning aims – Knowledge</b> | <p>You must gain knowledge about:</p> <ul style="list-style-type: none"> <li>- the principles, theories, methods and tools used in land surveying and marking in relation to the field of construction</li> <li>- the instruments used for land surveying and marking of buildings, and the accuracy achieved by land surveying</li> </ul>                                                                             |
| <b>Learning aims – Skills</b>    | <p>You must be able to:</p> <ul style="list-style-type: none"> <li>- evaluate marking assignments, understand and apply site plans with contour lines and other maps used in the construction industry</li> <li>- register and assess the state of building components, facilities, and buildings</li> <li>- evaluate practical and theoretical issues, as well as justify the choice of relevant solutions</li> </ul> |



|                |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | <ul style="list-style-type: none"> <li>- Communicate practical and professional issues, as well as solutions for partners and users</li> </ul>                                                                                                                                                                                                                                                                               |
| <b>Content</b> | Documentation of the legality of the construction: <ul style="list-style-type: none"> <li>- levelling and levels (including applied mathematics)</li> <li>- registration of construction site</li> <li>- 3D landscape plan</li> <li>- site plans</li> <li>- contour plans</li> <li>- building position methods</li> <li>- process from point cloud to 3D model</li> <li>- process from typographic cards to Revit</li> </ul> |

Source: Created at VIA Built Environment

## 2.3.2 Other study elements

During the semester, the Semester team can plan other study elements, e.g. in corporation with the students. This will appear on the time schedule or the schema for each class.

## 2.4 Tests and evaluations

At the end of the semester, an internal test is carried out. You and your group present the interprofessional project. Following, you will receive an individual assessment, partly for the group work and partly for the independent part of the project.

Table 3 is an overview of the different study elements and their evaluation before or in relation to the internal evaluation.

**Table 3: Study elements and their assessment**

| Study element                                                    | Assessed before the internal evaluation | Assessed in the internal evaluation |
|------------------------------------------------------------------|-----------------------------------------|-------------------------------------|
| The work with the project in relation to 'Residential buildings' |                                         | X                                   |
| Reports                                                          | X                                       |                                     |
| Portfolio (or similar self-reflection)                           | X                                       | X                                   |
| Land Surveying and Spatial Planning report                       | X                                       |                                     |

Source: Created at VIA Built Environment

Find general information about the exam on [Studynet \(Aarhus\)](#).

## 2.5 Study start test

To ensure that you as a student is study active and to introduce some tools for ongoing self-reflection in relation to your learning a Study start Test is carried out approximately 6 weeks after the Study start. The test consists of 2 parts: a written questionnaire and a dialogue with one or more of your teachers. Based on the written reply and the dialogue, the teachers assess whether you "have passed" or "have not passed". If you don't pass, a new test is carried out after additionally 2 weeks: You only have 2 attempts to pass the Study start test.

## 2.5.1 Evaluation of the work with the project

The assessment criteria are defined as:

- Method and process (knowledge, skills, competency)
- Technical solutions and documentation (knowledge, skills, competency)
- Oral presentation and defense (knowledge, skills, competency)

Essential parts of the project must be presented digitally / orally followed by oral examination by the teachers.

When digital presentation is used at the ATCM-programme in relation to evaluation / the final test, we refer to the [current guide](#).

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## 3 TEACHER TEAM SPECIFICS

### 3.1 Guiding time schedule

The guiding time schedule will be handed out by your class teacher.

### 3.2 References and knowledge base

#### 3.2.1 Cross-disciplinary references

- [ICT and BIM](#)  
See VIA University implementation Guide; *Implementering af IKT og BIM VIA*.

#### 3.2.2 Single-subject references

- (BDS/ABDS)  
Danish architecture since 1754, The Danish Architecture Press  
Guide to Danish Architecture 1, 1000-1960,  
Jørgen Sestoft and Jørgen Herner Christiansen, Arkitektens Forlag  
Experiencing ARCHITECTURE,  
Steen Eiler Rasmussen, Chapman & Hall Ltd  
Danish Architecture, Tobias Faber, Det Danske Selskab  
GA Global Architecture  
JA Japan Architect  
a+u Architecture and Urbanism
- (BDS)  
Building Regulations 2015, BR15, <http://bygningsreglementet.dk/english/0/40>  
SBI 258 Guidelines on the Building Regulations 2015

SBI 189 Constructions in small dwellings

SBI Guidelines 233 Protection Against Radon in New Buildings

Wood 41 - Wooden Floors

Various handbooks and websites to be recommended by your lecturers for example:

[www.leca.dk](http://www.leca.dk)

[www.hhcelcon.dk](http://www.hhcelcon.dk)

[www.bib-blokke.dk](http://www.bib-blokke.dk)

[www.rockwool.dk](http://www.rockwool.dk)

- **(BDS/MSC)**

Peter Brett: An Illustrated Dictionary of Building – ISBN no 0-7506-3684-X

Duncan Marshall m.fl.: The construction of houses – ISBN no 978-0-08-097100-1

Mike Riley + Chris Howard: House Construction - ISBN no 0-333-80456-2

Barry: Introduction to construction of buildings – ISBN no 978-4051-1055-6

Andersen: Illustrated Building Dictionary – ISBN-13 9788798703426

Everett: Mitchell's Materials 5<sup>th</sup> edition – ISBN no 9780582219236

- **(HUS/BPM/IKT)**

[www.detdigitalebyggeri.dk](http://www.detdigitalebyggeri.dk) -

[www.bips.dk](http://www.bips.dk) -

[www.autodesk.com/education/home](http://www.autodesk.com/education/home)

Revit guidelines and compendiums uploaded on It's Learning

- **(STD)**

Building Regulations 2015, <http://byggningsreglementet.dk/english/0/40>

SBi Guidelines 258

SBi Guidelines 189

SBi Guidelines 186 – Stability in small buildings

Teknisk Ståbi 21st edition

Eurocode 0 Basis of structural design

Eurocode 1 Actions on structures - Part 1-1: General actions - Densities, self-weight, imposed loads for buildings

Eurocode 1 Actions on structures - Part 1-3: General actions - Snow loads

Eurocode 1 Actions on structures part 1-4 Wind actions

Link to the Danish national annexes: <http://eurocodes.ds.dk/en/national-annexes/national-annexes-for-building-structures/>

- **(BSE)**

BR 2015, <http://byggningsreglementet.dk/english/0/40>

SBi-guidelines 258

The space required to accommodate services – Guidelines for plumbers and architects

DS 418 – Calculation of heat loss from buildings

Compendium – Drain and sewer systems

- **(BPM)**

Description of services 2012

E-learning MS-project

Sigma (V&S Costing books)

Broch O B, Moesgaard J, 2008, Design Methodology Ny Tekniske Forlag , Copenhagen

- (COM)

#### **VIA Studynet**

Guide to team contract / guidance meetings

Making a Presentation - 2005

Learning in a POPBL environment 2006

Writing a Building Site report - 2008

Tuckmann's team roles 1965/2007

Guide to writing a Bloom's taxonomy based, learning Portfolio - 2008