

|                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Module Title:</b>                                                                                                | Studio 2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Language of Instruction:</b>                                                                                     | English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Credits:</b>                                                                                                     | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>NFQ Level:</b>                                                                                                   | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Module Delivered In</b>                                                                                          | <a href="#">2 programme(s)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Teaching &amp; Learning Strategies:</b>                                                                          | <p>Problem based learning using Studio based projects. Group/team work utilised to support peer learning. Freehand drawing process and other media utilised as a means of problem-solving and communicating information. One to one detail reviews/tutorials and group 'crits', all to provide student feedback. International and local Technical study trips organized to selected sites/buildings to support architectural appreciation, building documentation and observation skills ; pre-visit tutorial to brief the buildings, and work to be carried out 'on site'.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Module Aim:</b>                                                                                                  | <p>Studio 2 is the principal Architectural technology module and establishes an approach to technical design. The aim of this module is to establish an approach to technical design under the following headings: • Investigation • Integration • Contextual development. The learner will be introduced to timber technology and its application to a small scale non domestic building type. Students will research timber and choose an appropriate structure and external envelope combination and incorporate the principles of weathering, structure, insulation and more e.g. sound or fire resistance in the technical design solution. The aim is to ensure the student can apply and integrate the technical knowledge and understanding developed within and through other supporting architectural technology modules; this is applied to the development of the Studio project by exploring primarily the materials and construction techniques utilised in the chosen building types and as outlined in the Project brief. The Contextual Development aim will focus on a holistic design approach that responds to environmental design and relevant building code concerns at both site and building level. Sustainable design is inherent in all modules and projects. The studio also aims to support architectural appreciation and project documentation skills by conducting international and local study trips.</p> |
| <b>Learning Outcomes</b>                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>On successful completion of this module the learner should be able to:</i>                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LO1                                                                                                                 | Investigate appropriate construction methods and materials by undertaking structured research and respond to the architectural design brief relative to the design intent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| LO2                                                                                                                 | Resolve technical design issues using a combination of freehand drawing and other media including model making.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| LO3                                                                                                                 | Apply the requirements of the relevant Regulations, Codes and Standards to technical design solutions for chosen building type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LO4                                                                                                                 | Explore, resolve and integrate structural, environmental and services factors to a technical design solution and prepare integrated working drawings, specification and scheduling for chosen building type.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| LO5                                                                                                                 | Appreciate, observe and document Architectural details of important buildings and sites through international and local technical study visits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pre-requisite learning</b>                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Module Recommendations</b>                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>This is prior learning (or a practical skill) that is recommended before enrolment in this module.</i>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| No recommendations listed                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Incompatible Modules</b>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module.</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| No incompatible modules listed                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Co-requisite Modules</b>                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| No Co-requisite modules listed                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Requirements</b>                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.</i>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Learners must have successfully completed Studio 1 (both Semester 1 & Semester 2)                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Module Content & Assessment

### Indicative Content

#### Timber Project

Studio based project will involve Investigation (research stage) application & integration (sketch design stage), and appropriate Contextual Development (final proposed solutions) with reference to site layout, structures and appropriate external envelope solutions; using drawing (esquisse and final Revit), suitable product information, specification, schedule and building performance report: The Studio project is integrated with AP&L 1; BTM&S 2; BP&S 2 and Graphics CAD & BIM 2. Typical project includes Community Centre/Student Centre building: a vehicle for developing students skills in working with timber Framed structures in Non domestic buildings.

#### International/ Local technical Study trips

The Technical study trips involves visiting a range of interesting historic and modern buildings and documenting them through writings, sketches, diagrams, and photos. The purpose of these visits is to support students understand of the various aspects of designing and constructing a building and to get a much deeper insight and meaningful understanding/appreciation of the buildings.

| Assessment Breakdown | %      |
|----------------------|--------|
| Project              | 80.00% |
| Practical            | 20.00% |

No Continuous Assessment

### Project

| Assessment Type | Assessment Description | Outcome addressed | % of total | Assessment Date |
|-----------------|------------------------|-------------------|------------|-----------------|
| Project         | Timber Project         | 1,2,3,4           | 80.00      | n/a             |

### Practical

| Assessment Type             | Assessment Description                                  | Outcome addressed | % of total | Assessment Date |
|-----------------------------|---------------------------------------------------------|-------------------|------------|-----------------|
| Practical/Skills Evaluation | Case Studies: International/Local technical study trips | 5                 | 20.00      | n/a             |

No End of Module Formal Examination

**SETU Carlow Campus reserves the right to alter the nature and timings of assessment**

**Module Workload**

| <b>Workload: Full Time</b> |                    |                                        |
|----------------------------|--------------------|----------------------------------------|
| <i>Workload Type</i>       | <i>Frequency</i>   | <i>Average Weekly Learner Workload</i> |
| Studio Based Learning      | 12 Weeks per Stage | 10.00                                  |
| Independent Learning Time  | 12 Weeks per Stage | 10.00                                  |
| Total Hours                |                    | 240.00                                 |

**Module Delivered In**

| Programme Code | Programme                                                                 | Semester | Delivery  |
|----------------|---------------------------------------------------------------------------|----------|-----------|
| CW_CMARC_B     | <a href="#">Bachelor of Science (Honours) in Architectural Technology</a> | 3        | Mandatory |
| CW_CMART_D     | <a href="#">Bachelor of Science in Architectural Technology</a>           | 3        | Mandatory |