PRAC: Studio 2b

Module Title:	Studio 2b
Language of Instruction:	English

Credits:	10

NFQ Level:	6

Module Delivered In	2 programme(s)

Teaching & Learning Strategies:	Problem based learning using Studio based projects. Group/team work utilised to support peer learning. Freehand drawing process and other media utilised to support problem-solving and communicating information. One-to-one reviews/tutorials and design critiques used to provide student feedback. Local study trips to selected sites/buildings to support better appreciation of site context and building design

Module Aim:	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 concrete technology and its application to a small scale building. Students will research concrete 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.

Learning Outcomes	
On successful completion of this module the learner should be able to:	
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 in the project
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	Develop a comprehensive site layout plan that demonstrates compliance with planning guidelines and site development work standards.

Pre-requisite learning
Module Recommendations *This is prior learning (or a practical skill) that is recommended before enrolment in this module.*
No recommendations listed
Incompatible Modules *These are modules which have learning outcomes that are too similar to the learning outcomes of this module.*
No incompatible modules listed
Co-requisite Modules
No Co-requisite modules listed
Requirements *This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.*
No requirements listed

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Module Content & Assessment

Indicative Content
Concrete project: Residential Apartment This 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: Apartment Building Project: a vehicle for developing students skills in working with Concrete Technology and more complex residential buildings (including e.g. a DAC application set)
Sustainable residential site development A vehicle for developing students skills in preparing a comprehensive site layout plan that demonstrates compliance with planning guidelines and site development work standards.

Assessment Breakdown	%
Project	100.00%

No Continuous Assessment

Project				
Assessment Type	*Assessment Description*	*Outcome addressed*	*% of total*	*Assessment Date*
Project	Concrete project: Residential Apartment building	1,2,3,4	55.00	n/a
Project	Sustainable residential site development	1,2,3,4,5	45.00	n/a

No Practical

No End of Module Formal Examination

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

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Module Workload

Workload: Full Time		
Workload Type	*Frequency*	*Average Weekly Learner Workload*
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	Bachelor of Science (Honours) in Architectural Technology	4	Mandatory
CW_CMART_D	Bachelor of Science in Architectural Technology	4	Mandatory