Construction Studies at Coola PPS

Leaving Certificate Construction Studies provides students in the senior cycle of postprimary education with an introduction to the knowledge and skills involved in construction technology as well as construction materials and processes. Students develop their ability to communicate ideas and information and to apply accurate observation and scientific investigation through exploring materials and processes.

The subject explores the principles and practices of designing and constructing homes in the Irish context. The subject places a strong emphasis on international best practice in relation to the conservation of energy and the selection of sustainable materials when designing and building homes. Students learn about the context in which homes are built, the structure and fabric of buildings as well as the need to ensure homes are comfortable and energy efficient.



Room 20 - Construction Studies Room

The study of **Construction Studies** at senior cycle aims to:

- Introduce students to the knowledge and skills involved in construction technology and construction materials and practices; through theoretical study and integrated practical projects
- Develop the students ability to communicate ideas and information by appropriate methods, and to encourage them to apply accurate observation and scientific investigation through the exploration of materials and processes
- Contribute towards the general education of students
- To provide a basis for those who may wish to study construction technology at third level

Assessment

Construction Studies is assessed at both Ordinary level and Higher level by means of a terminal examination paper (50%), a practical test (25%) and a student project (25%).

Terminal examination paper (50%)

The terminal examination paper is assessed at both Higher and Ordinary levels in June.

Topics examined on the examination paper include:

- built heritage
- health & safety in construction
- construction materials
- urban, rural and universal design
- envelope design concepts
- site assessment & foundations
- floors, walls, roofs, windows & doors
- energy standards
- passive design
- light, heat, electrical & sound energy
- airtightness & ventilation
- water supply & drainage
- sustainability, energy and water resources
- The external wall of advelling house is 400 mm concrete links wall with a hid-fill installed facety. The wall is placefied on both idds. A styling glazed timber catement winds with sheel in the external wall, as shown. The fixed frame of the window is 150 mm × 60 mm.
 To a scale of 1.5, draw a vertical section through the tsign and the fixed frame of the window. On your drawing, blave the wall, the correte links in and the fixed frame of the window. On your drawing, blave the vall the correte links in the level frame of the window. On your drawing the tsign of the window.
 Show clearly on your drawing the typical design detailing to the value of the

2019 O.L. Exam Paper



2019 H.L. Exam Paper

Practical Test (25%)

The skills test is assessed at common level and comprises of a four hour exam that tests the student's ability to read a given drawing and to precisely manufacture an artefact using a given set of components. To do this the student must correctly identify each piece and mark and process all of the joints and decorative features.



2018 Practical Test





Student Project (25%)

There are four main types of project which students can choose to design and make:

- Furniture project
- Construction detail (scaled model)
- Built heritage (scaled model)
- New/modern technology project

The project is assessed at common level and is marked out of 150 marks (there are 5 sections – each worth 30 marks).

Each project must be supported by a written report which includes three experiments.











Some examples of past Leaving Certificate Construction Studies projects at Coola PPS



