NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ARCHITECTURE AND QUANTITY SURVEYING

DEPARTMENT OF ARCHITECTURE

BACHELOR OF ARCHITECTURE (HONOURS) DEGREE

PART II SECOND SEMESTER EXAMINATIONS – MAY 2002

AAR 2202 – BUILDING CONSTRUCTION II

Instructions *Time: 3 hours*

1. *Answer any **FOUR** Questions only*
2. *Illustrate your answers using clearly labelled diagrams*
3. *All Questions carry equal marks*

QUESTIONS

1. Cladding buildings has become a popular technology for external wall construction, especially in the industrialised countries.

   (a) Give a typical detail for a brick facing with a concrete masonry backup wall.

   (b) Use any two sketches to illustrate the conceptual approaches for water exclusion pitched in external wall claddings.

2. The low-slope roof (<10° slope) may, for all intents and purposes, be regarded as a flat roof. Sketch a couple of details of the parapet edge and roof drain for such a condition.

3. Define the flush door. Explain in detail the distinguishing features of any three types of flush doors.
   In which situation will you specify the use of flush doors and why?

4. Describe the process of setting out and construction of the steel staircase at the entrance hall of the Chemistry Building at NUST Campus.

5. (a) State and explain the factors which influence the location and design of a typical fireplace in a living room of a residential building.

   (b) Produce a sectional detail taken through the throat of the fireplace. Assume a one storey residential building.

THE END