NEW ZEALAND INSTITUTES OF TECHNOLOGY AND POLYTECHNIC QUALIFICATIONS IN INFORMATION & COMMUNICATIONS TECHNOLOGY

PRESCRIPTION: RA600 REQUIREMENTS ANALYSIS

AIM OF MODULE: To enable students to produce a Requirements

Definition Document and an Investment

Analysis Report.

CREDITS: 7

STUDENT LEARNING HOURS: 70

CONTENT REVISED: 1998

PRESCRIPTION EXPIRY DATE: Nov 2011

Level and Assessment Schedule

	Highest Skill Level			ill	Suggested Assessment Percentage
TOPICS	R	С	Α	Р	
Investment Analysis			*		50
2. Requirements Analysis			*		50
					100

LEARNING OUTCOMES

The student will:

- A 1 Prepare an investment analysis report for a proposed project.
- A 2 Write and present the requirements definition for a simple system.

CONTENT

1 INVESTMENT ANALYSIS

- > Describe the factors to be considered during a investment analysis, including:
 - technological advances
 - accuracy of information
 - timeliness of information
 - extent of automation (vs manual)
- Identify the following costs of proposed alternatives:
 - intangible costs
 - present operating costs
 - operating costs
 - implementation costs
 - initial investment
 - opportunity costs
- Identify typical sources of financial benefits:
 - revenues
 - cost savings
 - intangible benefits
- Prepare a typical report showing breakdowns of costs, benefits, discounted cash flows and decision criteria:
 - summaries, (including cash flow analysis)
 - results using the following decision criteria; NPV, IRR and payback)
 - recommendations

2 REQUIREMENTS ANALYSIS

- Explain the ways the proposed system can contribute to an improved MIS, including:
 - more rapid access to information
 - more up-to-date information
 - more accurate information
 - information based on more data elements
 - information based on new logical functions
- Explain the function of the requirements definition, considering these factors:
 - what must be achieved
 - why it is desirable
 - when it should be achieved
 - who will do the work
- Given a case study, write the requirements definition for a simple system using the following headings:
 - Introduction

give a brief background to the current system highlighting shortcomings.

- Terms of reference

include such items as:

- possible/preferred/mandatory implementation dates
- possible resources
- possible constraints

Objective and Scope

define broad objectives of the proposed system, and boundaries and interfaces.

Define measurable requirements for system performance.

- Benefits and Costing

describe perceived efficiency and cost benefits. Give a broad view of implementation costs.

- Recommendations

prioritised.

Prepare and conduct a presentation of the Requirements Definition.