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Paper No. 22
Feedback & Assessment in an
Open Learning Environment

TESTING IN
NGEE ANN POLYTECHNIC

Presented by Dr. Pok Yang Ming
Mr. Chiew Aun Sheng

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- Introduction : MATHS ON-LINE
- Objectives
- Features
- Experience : Benefits

INTRODUCTION : MATHS ON-LINE
- Web-based tutoring & assessment system for Engineering Maths modules
- Launched in July '98
- Used by more than 3,000 Students
OBJECTIVES

- To provide a web-based tutoring system for guided tutorial/practical classes and for self-learning
- Calibrate all questions and collect feedback on the item quality

OBJECTIVES

- To implement Core Competency Test for assessment, analyze the test results, and display these through the Intranet for easy access
- Provide a monitoring system for lecturers to monitor the students' progress

CLOSED TEACHING/LEARNING LOOP

[Diagram showing the closed teaching/learning loop with nodes labeled 'Information', 'Teaching', 'Feedback', 'Motivation', 'Learning', and arrows indicating the flow between these nodes.]

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COMPUTERIZED TUTORIAL
- Examples with Guided Solution Steps
- Fixed number of Exercises
- Adaptive Revision
- 5 Levels of Difficulty
- Commence with Mid-Level
- Level upgrade or downgrade according to Students’ on-line performance
- Star Reward System to Motivate Students

ITEM CALIBRATION
- Students’ responses are used for the calibration
- Calibrated data are interpreted by machine Intelligence using Production Rule

CORE COMPETENCY TEST
- Instantaneous Results
- All Responses are Captured
- Allow Students to review their Tests
ON-LINE MONITORING SYSTEM

- Monitor Students' Progress
- Identify weaker students for special remedial
- Management Reporting

EXPERIENCE : BENEFITS

- Motivate STUDENTS
- Increase LECTURERS' Efficiencies
- Capability to use software to assist in Students Assessment
- Enhanced Monitoring on Students' Progress

Thank You