LOVEDALE PFET

Response to College Survey of Student Engagement (CSSE)

USEFULNESS OF RESEARCH

- Clear indication of where the weaknesses are within the SSS unit
- Lecturers do not know the profile of their students – unrealistic expectations
- Useful indicators: Statistical Significance & Effect Size
- Concentrate on most critical areas as point of departure

Approach

SPREADSHEET ANALYSIS

- Benchmark
- Description
- List of Questions
- Findings Colour Coded
- Recommendations
- Action Taken
- Responsible Person(s)
- Monitoring & Feedback
- Corrective Action

CONSULTATION WITH LECTURERS

BENCHMARK PERFORMANCE

ORDER OF PRIORITY:

4. Student-Staff Interaction
2. SA Student Effort
5. SA Support for Learners
1. Active & Collaborative Learning
3. Academic Challenge

ORDER OF PRIORITY (continue)

4. Student-Staff Interaction
   Career Guidance
2. SA Student Effort
   Integrate ideas from various sources
5. SA Support for Learners
   Early warning systems - provide academic support – centralized capturing of marks
1. Active & Collaborative Learning
   Projects during class (Engineering)
3. Academic Challenge
   Analysing, Synthesizing, Evaluating, Applying, Performing, Reading

STRATEGY FOR ENGINEERING

CIVIL ENGINEERING & BLDG CONSTRUCTION

Learn through doing (LEGO)

- Divide students in groups of four (4)
- Build various models
- Follow instruction from illustrations (no language)
- Student to identify different components
- Get assistance from peers – interpretation
- Model completed successfully

Further Application:

- Design/Build models on scale
- LEGO bricks, doors, windows, etc.
- Junior Builder (mini bricks, lime, etc.)
- Carpentry Students – Small scale models
- LEGO Architecture Range (Seattle Space Needle) – Washington, United States

STRATEGY FOR ENGINEERING

ENGINEERING & RELATED DESIGN
(Automotive Repair & Maintenance)

Learn through doing

- LEGO (Racers: remote control cars)
- LEGO Technique Range: including advanced levels incorporating battery packs, pneumatics, etc.
- LEGO Mindstorms: incorporating the programmed LEGO 'brick' to perform certain activities (IT&CS)

MECCANO

- Excellent for hand/eye co-ordination
- Build models following illustrative instructions
- Remote control models
- Build your own model by applying your knowledge gained – creative thinking

Student Access

Placement & Selection (PACE)
Entrance Requirements
Career Guidance
Address Skills Gaps within the 1st Term
Foundation Programme
(1 Year - Engineering)
Address critical skills gaps in fundamental subjects related to trade
Student exposed to different trades
Concentrate on Basic Hand Skills
Applied Competence.pptx