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Enhancing Graduate Attributes in Civil & Structural Engineering Students

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Enhancing Graduate Attributes in Civil & Structural Engineering Students

How does industry and academia differ in their perception of the graduate attributes required to succeed in a career in Civil & Structural Engineering?



Other questions:

How does industry and academia define an 'outstanding graduate'?

Do the priorities differ between industry needs and educational accreditation requirements?

APPROACH

- 1 • Literature review on required graduate attributes for civil & structural engineering students.
 - 2 • Choose one graduate attribute for further investigation.
 - 3 • Create artefacts of student's work as examples of how the attribute is assessed.
 - 4 • Invite academics and industry to score the work using comparative adaptive pairing which removes complications associated with marking schemes.
 - 5 • Identify student work which divides opinion between academics and industry.
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- Scoring (based on comparative adaptive pairing)
- | Student | Opinion | Performance |
|-----------|------------------|--------------------------|
| Student A | Similar opinions | good performance |
| Student B | Similar opinions | poor performance |
| Student C | Divided opinion | this work is of interest |
- 6 • Interview both academics and industry to ascertain why their perceptions differ.

PROPOSED OUTCOMES:

- Design of a rubric to enable benchmarking and inform programme design for Civil & Structural engineering courses.
- Dissemination of best practice in UK and Ireland.

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