



Technological University Dublin
ARROW@TU Dublin

Other resources

School of Civil and Structural Engineering

2015-11-18

Enhancing Graduate Attributes in Civil & Structural Engineering Students

Una Beagon

Technological University Dublin, una.beagon@tudublin.ie

Brian Bowe

Technological University Dublin, Brian.Bowe@TUDublin.ie

Follow this and additional works at: <https://arrow.tudublin.ie/engschcivoth>

 Part of the [Civil and Environmental Engineering Commons](#)

Recommended Citation

Beagon, U. & Bowe, B. (2015)Enhancing Graduate Attributes in Civil & Structural Engineering Students,Presentation at School of Civil & Structural Engineering Research Symposium.

This Presentation is brought to you for free and open access by the School of Civil and Structural Engineering at ARROW@TU Dublin. It has been accepted for inclusion in Other resources by an authorized administrator of ARROW@TU Dublin. For more information, please contact yvonne.desmond@tudublin.ie, arrow.admin@tudublin.ie, brian.widdis@tudublin.ie.



This work is licensed under a [Creative Commons Attribution-Noncommercial-Share Alike 3.0 License](#)





2015-11-18

Enhancing Graduate Attributes in Civil & Structural Engineering Students

Una Beagon

Brian Bowe Prof

Follow this and additional works at: <https://arrow.dit.ie/engschivcon>

 Part of the [Engineering Education Commons](#)

This Other is brought to you for free and open access by the School of Civil and Structural Engineering at ARROW@TU Dublin. It has been accepted for inclusion in Conference papers by an authorized administrator of ARROW@TU Dublin. For more information, please contact yvonne.desmond@dit.ie, arrow.admin@dit.ie, brian.widdis@dit.ie.



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

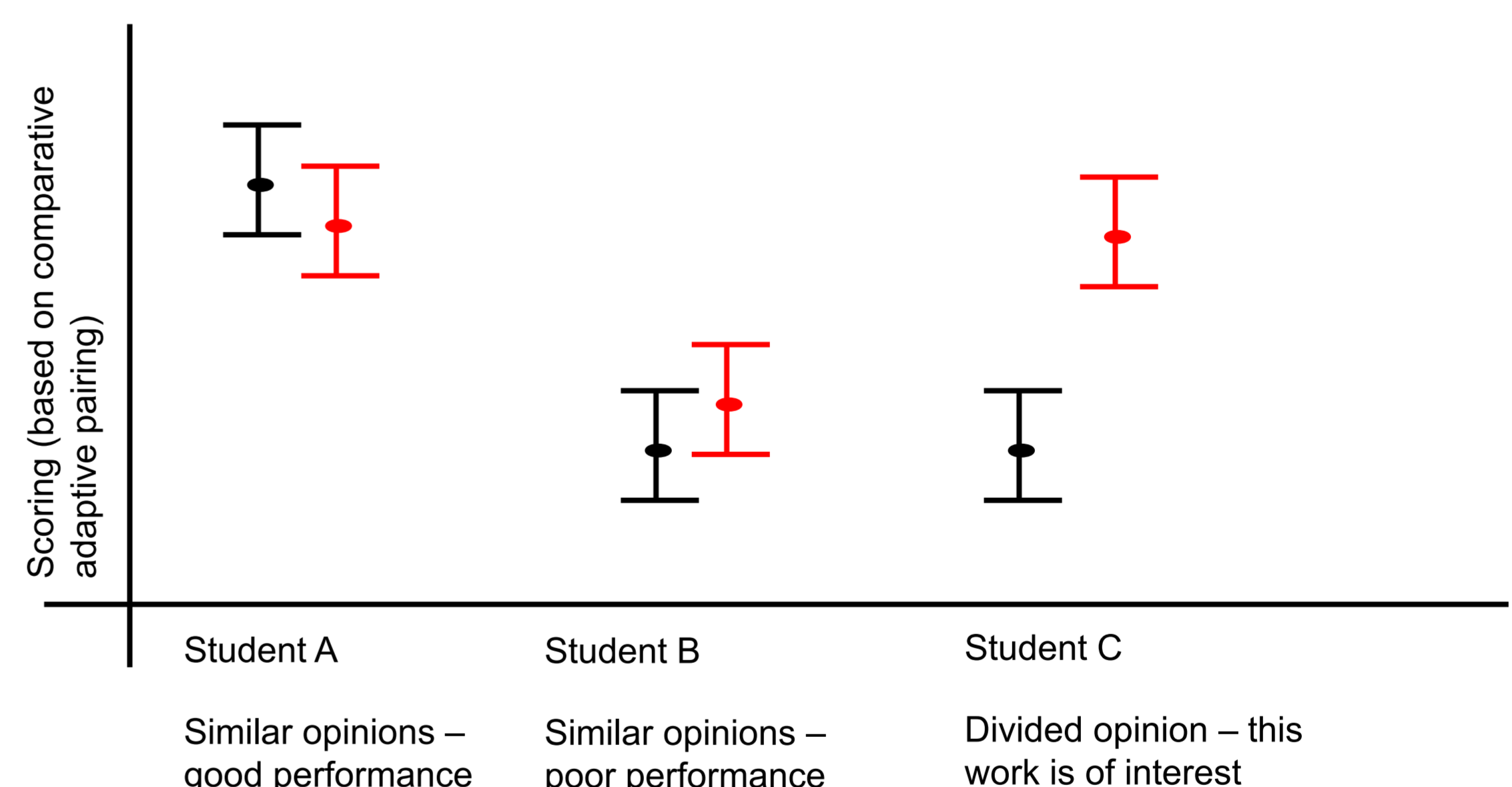
- Create artefacts of student's work as examples of how the attribute is assessed.

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.



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.

Contact

Una Beagon una.beagon@dit.ie

Supervisor

Prof. Brian Bowe



School of Civil & Structural Engineering, DIT Bolton Street