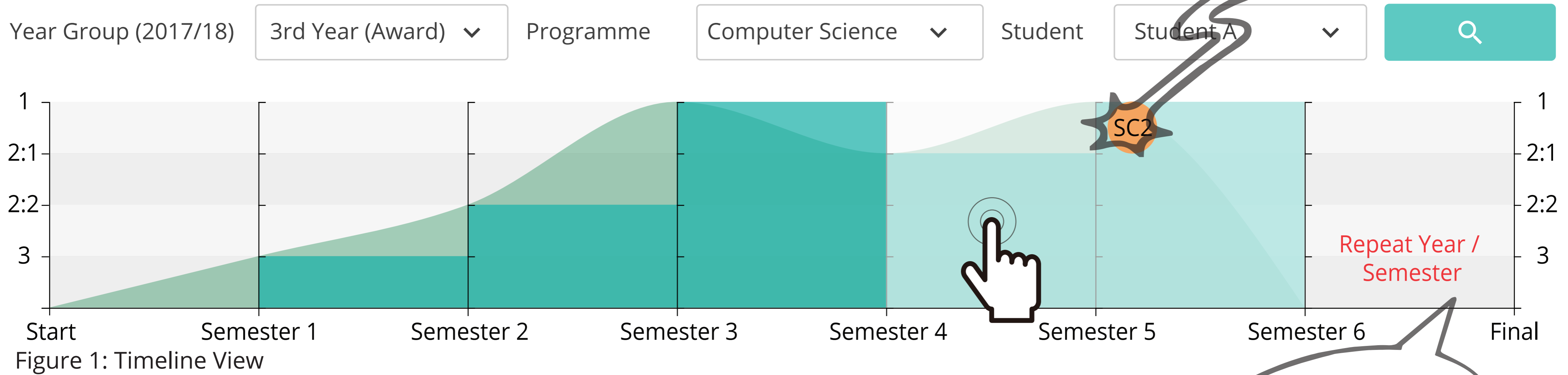


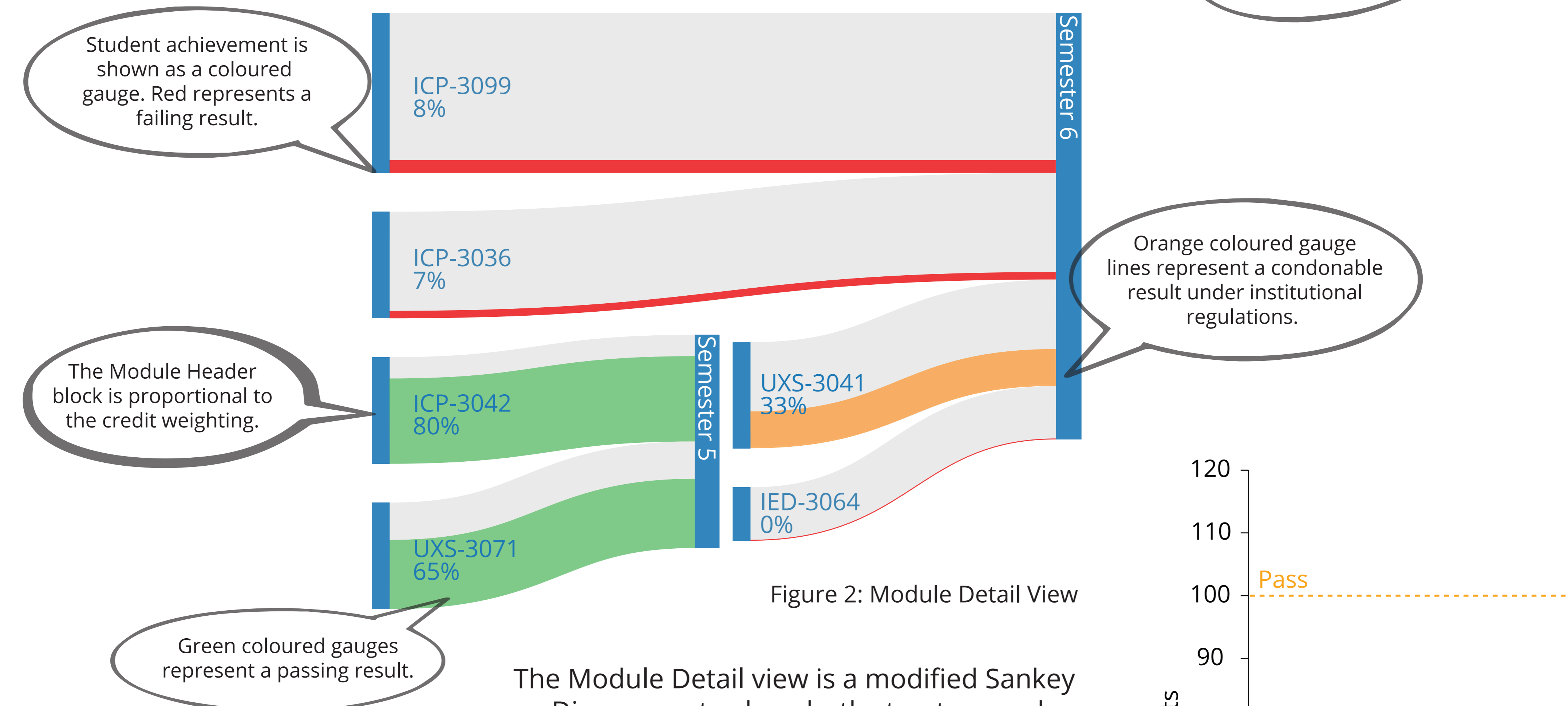
# Visualising the Student Journey

Designed as an aid to examiners at Higher Education institutions, the Student Journey tool shows individual student's progress throughout their programme. Three co-ordinated views [1] allows an overview, with detail of individual modules on demand. The tool also builds-in institutional regulations to make recommendations for the student's outcome.

## Step 1: Select a Student to see the overview.



## Step 2: Click on the timeline to focus on an academic year.



The Module Detail view is a modified Sankey Diagram [2] to show both structure and achievement for the student. The inclusion of coloured gauges provides Pre-Cognitive Processing [3] by viewers.

The Regulations view shows, in one bar plot, the possibility of a student progressing or receiving their award. Under most regulations if the red column is present, the student is unable to progress. Otherwise the must meet or exceed the Pass or Supplementary Work levels.

This tool was trialled during the 2017/18 Final Award Board of Examiners' meeting within Bangor's School of Computer Science. It met with general approval and scored 79.65/100 using the Software Usability Scale.

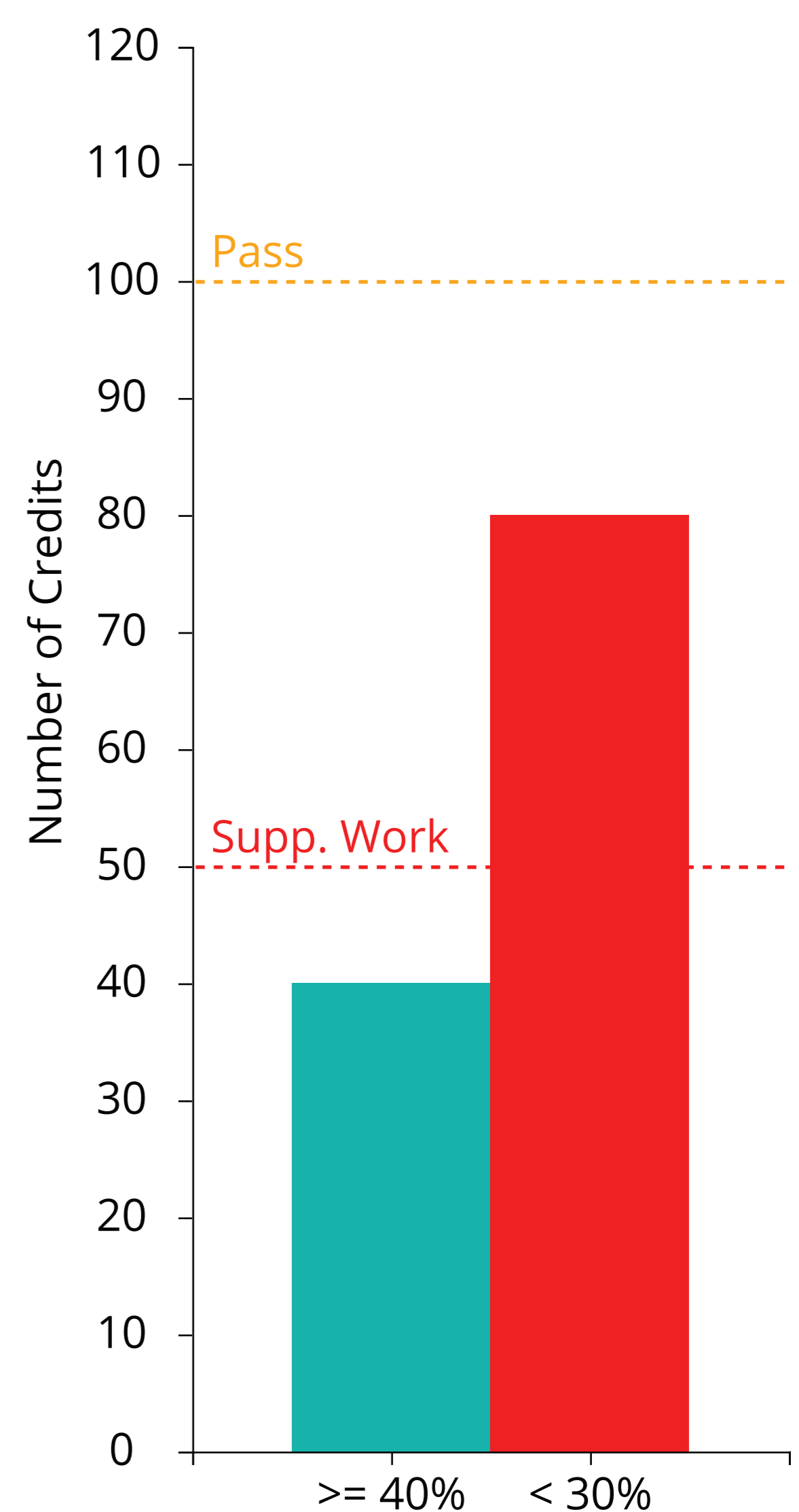


Figure 3: Regulations View



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[1] Roberts, J.C. "State of the art: Coordinated & multiple views in exploratory visualization". In: Coordinated and Multiple Views in Exploratory Visualization, 2007. CMV'07. Fifth International Conference on, pp. 61-71. IEEE.

[2] P. Riehmann, M. Hanfler and B. Froehlich, "Interactive Sankey diagrams", IEEE Symposium on Information Visualization, 2005. IEEE.

[3] Ware, C., 2012. Information visualization: perception for design. Elsevier.