





ervice for Teachers Ghairmiúil do Mhúinteoirí

Advanced micro: Bit Workshop











To further explore Computer Science as a discipline with emphasis on Embedded Systems(ALT 4)

To illustrate the pedagogical importance of the design process prior to coding

To continue to explore the concept of a nonlinear approach to the teaching and learning around the Computer Science strands.



PURPOSE OF THE DAY (CONTINUED)



To highlight and promote the role of Digital Technologies in the teaching, learning and assessment of LCCS.

To provide a platform for teachers to work, learn and cultivate a deeper understanding in this area .





To re-iterate the importance of group work and group dynamics in the teaching, learning and assessment of LCCS.





To engage teachers with the advanced features offered by the micro:bit.

To empower teachers to draw upon a range of pedagogical approaches for teaching LCCS so that they can confidently develop their own advanced units of work.







specification.

There are many ways to navigate through the LCCS



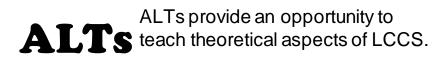
Group work is a key feature in the teaching, learning and assessment of LCCS.



LCCS can be mediated through a constructivist pedagogical approach.



Critical reflection is a central component of the LCCS teacher's PD journey.





Digital technologies can be used to enhance collaboration, learning and reflection.

Advanced micro: bit features can be used to introduce traditionally challenging (threshold concepts) at an earlier stage.



Learning Outcomes

1000

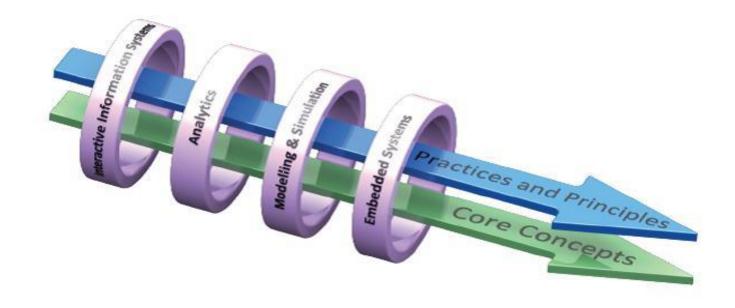


Figure 4: Structure of Leaving Certificate Computer Science





Session 1 10:15-11.45

- Introduction
- Part 1 Radio Comms & Serial Data
- Part 2 Solar Challenge
- Part 3 Regroup/Reflect

Session 2 12:00-13:15

- Part 1 Motors and Circuits
- Part 2 Breakout Boards
- Part 3 Regroup/Reflect

Session 3 14:15-15:45

Part 1 - Laundry Challenge
Part 2 - The Great Escape
Part 3 - Wrap Up

Additional Support



Slides used throughout the day and videos for the breakout tasks will be available after the workshop.



Ice Breaker



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