

Applications of Podcasting in Teaching and Learning

Primary and secondary education

Mathematics

- Lives of famous mathematicians linked to relevant problems
- Mental arithmetic problems
- Instructions to walk particular distances and directions, step by step, and then measure distance plus area

Science

- Secret science sounds
- Lives of famous scientists
- Science radio show with spots on famous scientists, specific flora and fauna plus the element of the week
- Guess that element!
- Step by step guide through an experiment that is supported with hard copy
- Field reports from excursions to sites such as the zoo, nature reserves and science centres

English

- Audio books together with written texts for students with reading difficulties
- Story readings composed by students
- Sound effects are podcasted and are used as inspiration by students to compose a poem or story
- Voice tracks and sound effects are podcasted to be picked up and re-edited by students into a different project or alternative viewpoint

Languages

- Readings in the mother tongue of the students
- English readings for students of non-English speaking backgrounds
- Phonetics practise
- Songs

Social sciences

- Recreations of significant historical moments incorporating appropriate music and sound effects
- Field reports from excursions to the city, museums, historical sites, cultural sites and overseas trips
- News broadcasts and interviews with famous personalities or 'recreated' historical figures
- Podcasted archives from the National Heritage Board or the historical archives of other countries

Tertiary education

Many of the above suggestions can be augmented for application in relevant tertiary subjects. In addition university staff could also:

- Broadcast of lectures
- Field reports from excursions to the relevant sites including engineering sites, manufacturing installations, construction sites, conferences, museums, historical sites, cultural sites and overseas trips
- Broadcasting of debates and tutorial discussions
- Problem based learning scenarios
- Just in time commentaries from lecturers and tutors
- Broadcast of lectures by visiting dignitaries
- Students are played sounds relevant to that field of engineering - they are to identify the sound. It may relate to safety or diagnostic principles in that engineering field
- Descriptions of experiments combined with problem based learning scenarios