Annex 1

Some scenarios suggested for the Virtual Laboratory

- 1. Equipment layout in virtual microbiology laboratory Lab Tour
 - a. 3D imagery of laboratory identifying equipment, areas used to make up media etc. category 4 separate room , ?click on equipment to identify it , Flow cytometer (separate room?) etc
- 2. Health and Safety issues protecting the person and protecting the work place

Procedures – link with wrong practices in virtual lab (1 above) and consequences

- 3. Practical requirements for bacteriology -
 - Media preparation for growing and identifying bacteria
 - Setting up microscope for looking at samples
 - (These could be linked to podcasts with video) some already prepared at UOW but would need translation
- 4. **Practical requirements for virology** ? mycology and parasitology?
 - Growing viruses in tissue culture
 - Virtual Electron Microscope
 - Immunofluorescence techniques for identification
- 5. Sample taking and their examination Urinary tract infections
 - visual and micro levels, examine under microscope etc.
 - Gram stains
 - Streaking
- 6. Bacterial growth and identification
 - Use of different growth media, Colony counting Biochemical tests etc
- 7. Antibiotic sensitivity
- 8. Case studies: TB-growth, tests for strains, -PCR etc (separate molecular Biology Lab)
- 9. Case studies: HIV handling, ELISA, Flow, etc

We could do sample taking and identification of viruses as a separate task (ie(8) or condense 6 and 7 if number of tasks too many.