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ALTC discipline-based initiatives: history

- ALTC discipline-based scoping projects in Engineering (2007-8) and Information & Communications Technologies (2007-9) – produced mostly similar outcomes
findings, recommendations and emerging issues

1. **Students** - attraction and motivation, attrition, low enrolments by women
2. **Curriculum** – improve design, increase industry links, increase inclusivity, work-integrated learning, authenticity
3. **Best-practice pedagogy** - student-centred active learning
4. **Student assessment** – with links to well-defined learning outcomes
5. **Academic staff** - need support to implement best-practice
   - Engineering emphasised - sharing of staff and resources
   - ICT emphasised – the teaching-research-industry nexus
   - several ALTC projects have addressed these issues
ALTC discipline-based initiatives: history

- ALTC discipline-based scoping projects in Engineering (2007-8) and Information & Communications Technologies (2007-9) – produced mostly similar findings, recommendations and emerging issues

- ALTC proposed 10 discipline groupings (end-2008), including Engineering & ICT

- ALTC funded the Discipline Support Strategy from August 2009 against a joint proposal from ACED & ACDICT (ACED as manager) – to run to Feb 2012

- ALTC funded Discipline Scholars for Engineering & ICT - produced Threshold Learning Outcomes (2009-10)

- ALTC will fund Discipline Learning Network from August 2011 against joint proposal from ACED & ACDICT (ACED Inc. as manager) – to run to August 2013
Accreditation Bodies

Engineers Australia (JC – SWE) Aust. Computer Society

higher education providers faculties and schools

Engineering and ICT academics

Education Leaders - Associate Deans (Teaching & Learning) and other champions

associations and communities of Engineering & ICT educators
Engineering & ICT Discipline Support
Strategy activities (to April 2012)

- supporting ALTA and Associate Deans (T & L) groups for **T & L project dissemination and priority setting**
- developing a **comprehensive web portal** for Engineering & ICT teaching and learning resources
- “**Learning to Teach in Engineering & ICT**”
  - 2 day-workshops focusing on pedagogy and curriculum design for new (and old) academics, plus
  - building training capacity in every university/city
- **project dissemination workshops** to assist systematic improvements in quality of engineering and technology education (from ~15 ALTC projects & fellows completed since 2008)
- Project Manager (half time): **Dr Jocelyn Armarego** (Murdoch Uni) since Feb 2011
Engineering & ICT Learning Network activities (to August 2013)

- **continuing support** of ALTA and Associate Deans (T& L) groups for project dissemination and priority setting

- **community use** of the comprehensive web portal for Engineering & ICT teaching and learning resources

- “Learning to Teach in Engineering & ICT”
  - 6 two-day workshops focusing on pedagogy and curriculum design (and assessment) for new (and old) academics, with training capacity now in every university/city

- 8 project dissemination workshops to assist systematic improvements in quality of engineering and technology education (from ~30 ALTC projects & fellows to be published by 2012)

- **Project Manager (1.5 day per week): not yet known**
the way forward

- How can the DSS - LN assist YOU to support your academics and education quality improvements
  - academic professional development (KPI’s)
  - responding to TEQSA
  - develop the ICT community practice in T & L through workshops & other (to be as strong as engineering)

- Can YOU identify ICT education experts (across the sector) to complement (general) educational development skills (for workshops)

- What short-term and medium term projects in ICT education do YOU want to have supported?

Ideas & Questions?