
Towards Effective Exploitation of the ALTC Discipline Support Strategy (2009-12) ALTC Discipline Learning Network (2011-13) in Engineering & ICT

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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

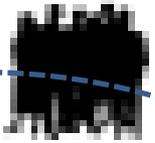
Accreditation Bodies

Engineers Australia

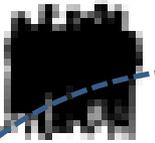
(JC – SWE)

Aust. Computer Society

higher education providers
faculties and schools



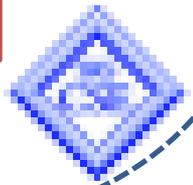
**Engineering and
ICT academics**



ALTA

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 focussing 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 focussing 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 ?