RMIT University
Learning and Teaching Investment Fund 2008
Final Report

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<th>Project title</th>
<th>360098 - Development of the courseware including online/flexible delivery learning resources for the Associate Degree in Engineering Technology (Electrical/Electronics) program AD005(3 courses)</th>
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| Project leader| William LAU, Project Manager, SOE (TAFE)  
William.lau@rmit.edu, 99254703 |
| Team members |  
EEET 2280 – Computer Engineering (Dr Olga Gredeskoul)  
EEET 2281 – Digital System Design (William Lau/ Ganesh Naik)  
EEET 2284 – Transmission Medium (Kemps Cheng/Niusha Sarkhosh)  
Dr. Peter J. Radcliffe - (Peer Reviewer for EEET 2280)  
Sukhvir Judge - (Peer Reviewer for EEET 2281)  
Dr. Arnan Mitchell - (Peer Reviewer for EEET 2284)  
Barbara Goulborn – Curve Projects P/L (Instructional Designer) - External |
| Funds approved| $45,000 |
| Funds acquitted (attach financial statement) | Total Salaries & On costs: $26,010  
Consultancy Services: $16800  
Please see financial statement attached. |
| Introduction | Associate Degree Programs are relatively new in Australia and RMIT took lead in delivering Associate Degree programs in number of areas. This project aimed to develop courseware (three courses) including online/flexible delivery learning resources for the Associate Degree in Engineering Technology (Electrical/Electronics) program – AD005. This new program AD008 has been delivered to international and local students since Semester 1, 2006. This project led to the development of teaching and learning material for a dual sector qualification in a high priority area. This program will provide direct pathway into five streams of Bachelor of Engineering program (BP200). |
| Detailed project description and outline of what was done | The project developed modern teaching and learning materials comprising online resources and lab activities for three key courses EEET 2280, EEET 2281 and EEET 2284 within the Associate Degree program to the students and will provide RMIT an edge over potential competitors like Box Hill TAFE.  
The following tasks were completed during this project that led to development of online/flexible resources for the three courses of the program AD005:  
1. Consultation with the Academic staff to shortlist the three courses and teaching staff for writing resources. The following three courses were shortlisted and teaching staff was allocated for each course.  
EEET 2280 – Computer Engineering (Dr Olga Gredeskoul)  
EEET 2281 – Digital System Design (William Lau/ Ganesh Naik) |
2. In order to develop teaching and learning material of high quality, services of Educational designer facilitated by Program And Courseware Enhancement (PACE) team of SET College. Educational Designer was appointed and detailed Consultations with the Educational Designers and Warren Nageswaran from PACE completed.

3. It was decided to prepare Conceptual Map (that details week by week approach of learning activities, assessment tasks and learning outcomes achieved by the students) prior to writing teaching and learning material. It was also decided to get feedback from Higher Education Counter part about Concept Map prior to writing resources to ensure consistency of delivery of undergraduate programs in TAFE and HEd schools. Conceptual map was reviewed and comments were provided. Conceptual Map was finalised based on the review comments and suggestions made by the Educational Designer.

4. After development of conceptual Map, the whole project was facilitated by Educational Designer Barbara Goulborn (Curve Projects PTY Ltd) and monitored by Warren Nageswaran (PACE team of SET College). Four milestones were set for the rest of the project and deadlines were agreed by the teaching staff and Educational Designer to minimise risks.

5. Educational designer completed proof read and ensured learning material is meeting quality benchmarks. Continuous Feedback was provided to the relevant teachers to ensure prospective students have clear understanding of the learning activities, assessment tasks and assessment timelines/weightage.

6. On completion of third milestone i.e. 100% of teaching and learning material is ready, the learning packages were reviewed by the Educational Designer and sent to Subject Experts for the feedback (peer reviewing). Written reports including comments for the learning packages were then prepared by the allocated reviewers, as per the name list in the above-mentioned team-members.

7. Learning package was modified based on the peer review report and final Desktop publication will be done by the Educational Designer.

8. Finalised Learning Packages for all the three courses are being submitted to the PACE team (SET College) to be available online to the students via Learning Hub.

Attach the full and detailed report and evaluation of your project outcomes including evidence of the impact the project has had. Also make reference to how the outcomes address the five key objectives:

- **Innovation**
  This LTIF project provided an innovative way of developing teaching and learning material that could be delivered online for flexible delivery. Usually peer review is requested by PACE after completion of all the milestones. In many cases it was not possible to address comments made in the peer review at the last stage as in some cases there was a need to rewrite the entire package. In this project, new approach was taken by requesting feedback at the planning stage by a HEd academic of the articulating school. All the modifications were done at the Conceptual Map stage i.e planning stage. This approach ensured learning package developed based on collective wisdom and consistency of delivery of undergraduate programs in TAFE and H.Ed schools.

- **Improved student learning experiences, outcomes and employment opportunities**
  Teaching and Learning material prepared in this project is based on the input from many academics and educational designer. It will certainly enhance learning of international and local students and help them to achieve employability skills.

- **University wide application**
  These courses are available to any undergraduate student as a student elective.
Availability of online/flexible resources developed in this project will be available to other academics and could be of assistance to develop resources in future.

- **Value for money**
  This project is a value for money as it addresses multiple purposes. Development of online/flexible resources will enable RMIT to offer quality teaching and learning material to AD005 students. In addition to that these specialised courses could be delivered as fee for service course to public in general or existing workforce onshore/offshore.

- **Strategic alignment**
  The project addresses the following RMIT & SET TAFE strategic priorities:
  - Focus on target markets and product development for international onshore TAFE.
  - Capability building in curriculum design, business and project management, again in specific industry, groupings and sectors.
  - TAFE specific and targeted marketing strategies that are industry grouping/industry sector driven.
  - Expand industry partnerships and enterprise based training and assessment.

This project also aims to meet one of the requirements of Engineers Australia for Accreditation of Associate Degree in Engineering Technology (Network Engineering) program. Accreditation of Engineering programs is strategically important for our university and enhances employability skills of our students.

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<th>Dissemination of project outcomes both completed and planned. This should include both within RMIT and externally.</th>
<th>The outcomes of this project are disseminated to the relevant academics and teaching staff within the school. This project was monitored by the PACE Team of SET College and all the milestones of the project were completed in consultation with PACE Team and External Educational Designer.</th>
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<td><strong>Summary of the project, outcomes, impacts and dissemination</strong></td>
<td>The project developed modern teaching and learning materials comprising online resources and lab activities for two key courses of Associate Degree in Engineering Technology (Electrical / Electronics) program – AD005. This initiative will significantly improve delivery of the new Associate Degree program to the local and International students and will provide RMIT an edge over competitors like Box Hill TAFE. Teaching and Learning material prepared in this project is based on the input from many academics and educational designer. It will certainly enhance learning of international and local students and help them to achieve employability skills. This project was monitored by the PACE Team of SET College and all the milestones of the project were completed in consultation with PACE Team and External Educational Designer.</td>
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