PROPOSAL TO INTRODUCE A NEW COURSE

1. COURSE DETAILS

1.1 Course Id: COMP 4003

1.2 Course name – Long: Industrial Software Development

1.3 Course name – Abbreviated: Industrial Software Development

1.4 Course Authority: A/Prof John Plaice ext/email: 56012/plaice@cse.unsw.edu.au

1.5 Organisational Unit responsible for course

School: School of Computer Science and Engineering Faculty: Engineering

Academic Group Code (Faculty): ENG
Academic Organisation Code (Owner): COMPSC

1.6 Justification of Proposal
The School of Computer Science and Engineering provides several courses, at different levels, in the programming of software systems. However, no courses focus specifically on the development and distribution of complete software systems, with a particular focus on configuration, portability and internationalisation. It is proposed that COMP4003 will be available to undergraduates in third year or to postgraduates with an equivalent background.

1.7 Consultation Process
This proposal provides an elective. It is introduced at the request of the Head of School of Computer Science and Engineering, Professor Paul Compton, in response to the interactions between A/Professor John Plaice and students in Software Engineering over several years.

1.8 Units of credit (UOC) Session/s offered Hours Per Week
6 UoC, available S1, 5 hours per week.

1.9 Pre-requisites: COMP2011 or COMP 2091 or COMP2711 or COMP 2891 or COMP 2911 or COMP9024 or COMP2911 or COMP9824

1.10 Proposed Entry in the Faculty Handbook

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Introduction to development and distribution of large software systems. Use of industrial tools for maintaining the code base and for producing quality portable, deliverable code. Methods for producing systematic test suites. Additional topics include licensing issues, software configuration, and internationalisation.

1.11 Is this course replacing an existing course? NO

1.12 Undergraduate / Postgraduate / Other
1.13 Elective

1.14 Program stage: Stage 4.

1.15 Program/s in which course is to be made available
CSE undergraduate and postgraduate programs.

1.16 Proposed teaching methods and assessment practices
Examinable, with programming assignments, written exam and lab exam.

1.17 Assessment grades to be used: Full range of grades.

1.18 Mode of delivery: Internal.

1.18.1 Multi-mode Delivery Guidelines: Not applicable.

1.19 Information Technology Requirements for students
Standard resources available in the School.

1.20 Textbooks
Text:
Gary V. Vaughan, Ben Elliston, Tom Tromey, Ian Lance Taylor,
Ben Collins-Sussman, Brian W. Fitzpatrick, C. Michael Pilato,
Version Control with Subversion, O'Reilly, 2004.
Special 3rd edition.

Recommended:
Andy Oram, Mike Loukides, Programming with GNU Software, O'Reilly, 1995.

1.21 Industrial experience component Not applicable.

2. RESOURCE STATEMENT

2.1 Enrolments
Estimated or proposed enrolments for the next three years.

2005: 70
2006: 70
2007: 70

2.2 Resource Requirements

Staffing Requirements: 4 hours per week for 1 Full-time Academic staff.

Field Costs: N/A

Studio/Laboratory Requirements: N/A
Requirements:

Materials Requirements: N/A
Equipment Costs: N/A
Computing Requirements: Standard for CSE courses, and already available.
Library Requirements: Standard textbook requirements for a course of this size.
Capital Funds Requirements: N/A

2.3 Servicing Implications: Not applicable.

2.4 Teaching Arrangements:
(i) Will other units contribute on a regular basis to the teaching of this course? NO

2.5 Alternative Delivery Arrangements: Not applicable.

2.6 Details of Tuition Fees: Proposed fee: standard for an Engineering course of this type.

3. AUTHORIZATION

3.1 University Librarian’s Endorsement

I have examined the Library needs related to the above proposal and certify that existing Library holdings, staffing, services and accommodation are adequate / inadequate (delete one) to cover the demands that are inherent in it.

Appropriate arrangements for the use of digitised material to support this course have been made by the Course Authority with the University Librarian.

Further Comments:

University Librarian
/ /2004

3.2 Head of School’s Approval

I have examined the resource implications of the above proposal in regard to staff, space, materials, equipment, capital funds, and computing, and certify that the School can cover the demands that are inherent in it.

Further Comments:

Head of School
/ /2004
3.3 Dean’s Approval

I have examined the resource implications of the above proposal in regard to staff, space, materials, equipment, capital funds, and computing, and certify that:

3.3.1 (i) the proposal involves no additional resources. (A statement from the Head of School explaining how this can be achieved must be provided); or

(ii) the proposal involves additional resources and it is proposed to redeploy existing resources within the faculty. (A statement from the Head of School explaining how this will be achieved must be provided); or

(iii) the proposal involves additional resources to be obtained as set out below; or

(iv) the additional resources essential to bring the proposal into effect cannot be found within resources available to the faculty.

3.3.2 Fees (delete if not applicable):

• a fee will not be charged for this program (other than HECS)

• a fee will be charged for this program for local fee-paying students

• a fee will be charged for international students

If a fee is to be charged the Dean certifies as follows:

I have ensured that the Vice-Chancellor has been advised of the proposed fee arrangements, and note that approval of fee arrangements is needed before the new program can be implemented.

3.3.3 the proposal conforms to the University’s commitment to Equal Opportunity in Education.

Statement from Head of School on Source of Additional Resources and/or Further Comments:

Dean
/ /2004

Please click on link for
DISABILITY GUIDELINES FOR ACADEMIC STAFF PREPARING COURSES