

FOR APPROVAL

MINUTES OF MEETING 1/20

A meeting of the **Flinders Engineering and ICT Industry Advisory Board** was held on Microsoft Teams at 3pm on Monday 25th May 2020

Apologies

Gerry Doyle
Karen Reynolds
Karen Burke Da Silva

In Attendance

Adrian Smith
Anna Shillabeer
Anne-Louise Smith
Anthony Kittel
Anthony Skeats
John Roddick
Jon Schutz
Marty Gauvin
Olivia Samardzic
Peter Chaplin
Sherry Randhawa
Victoria Allen (Minutes)

2. General Discussion

- Students will return in Semester 2.
- Lectures will continue to be recorded and viewed online.
- Most staff have returned after working from home.
- The transition to online teaching was instantaneous.
- IT and CS already had the model for online teaching in place.
- Student feedback has been positive.
- Students, particularly international students, studying first year, first semester topics have struggled.
- We have added extra support systems for students overseas.
- Recorded lecturettes and followed up with significant discussions, case studies and problem solving.
- Engineering practicals do not suit online delivery.
- The College will need to cater for students overseas and interstate and have a blended mode of teaching where all lectures are online and tutorials are a mix of face-to-face and online. We may need to implement intensive sessions for students when they return to campus.
- Where students are having trouble adapting to online, we provide extensions as and when required without the usual level of documentation requirements.
- Removed the paper based exam for most topics.
- Running Viva, online tests and exams.
- Topics that do require exams the examination is only worth 30% of the overall grade.
- The College will discuss later this year student assessment and the potential to remove exams.
- The Diploma of Digital Technology is an industry based Diploma that is fully online and working well. The majority of students have never studied at University before.

3. Minutes of the Previous Meeting

John to circulate

4. **Reporting Back**

a. **New Degrees in Engineering**

i. **Bachelor of Engineering (Environmental) (Honours)**

- This degree will run in the same group as the Civil Engineering program.
- The degree includes Environmental Science, Water Engineering and Geotech Engineering from civil and less of structural and transport from civil.

ii. **Bachelor of Engineering (Electrical and Electronic) (Honours)**

- Rolled the Electrical, Electronics and Computer and Network Systems degree into one qualification that will have up to 5 majors to specialise.

iii. **Bachelor of Engineering (Honours) – General Entry**

- 4 and a half year pathway to a degree.
- Allows students to apply with a lower level of maths.
- Students are being streamed as early as Year 9 into any maths that will take them through to Year 12.
- The only way we are going to expand engineering numbers in this state is to expand the number of students who are eligible for entry.

iv. **Bachelor of Engineering Technology (Electronic Systems and Security), Bachelor of Science (Physics)**

- BEng Tech will have the same ATAR cut-off as the BEng.
- Developed in collaboration with DST.
- To attract students to this degree DST are offering a scholarship which is funded jointly by Joint Capabilities group and Flinders. Also funding a Chair and position in Electronics Systems and Security.
- Planning summer placements at DST and other defence industries.
- Discussed *structure of flinders engineering degrees* (refer to handout)

b. **Flinders Centre for Intelligent Infrastructure**

- Will include the work we do in Autonomous Vehicles including underwater Autonomous Vehicles, Artificial Intelligence, Environmental Health, Water Engineering, Telecommunications, Technologies into a Centre that will then be able to work within the Centre on Intelligent Infrastructure.

5. **Other Matters Arising**

- The College will be doing a significant amount of work over the next 2 years to completely revamp what we are teaching, the way we are teaching and why we teach like we do.
- The College has discontinued Digital Health, Bachelor IT and Digital Media, Bachelor Simulation and Serious Games Degree (now Bachelor IT rather than Computer Science). Strengthening the simulation side of the IT degree.
- New Diploma – working with a single industry group to upskill their employees. Developing and delivering a Cybersecurity module into the new Diploma.
- Offering next semester a Certificate in Cyber Security.
- We are looking to offer more short certificates.
- New Masters in Comp Science.
- Offering a Computer Science Masters degree with 2 specialisations – 1 in Artificial Intelligence and 1 in Data Science.

6. **Report from the Vice President and Executive Dean – Professor Alistair Rendell**

- No report provided from Alistair but Anna advised our College has maintained student enrolments and we are in the strongest position across the University.
- Our full time equivalent numbers for this time this year is better than the same time last year.
- Our international numbers are up from this time last year.

7. **New Business**
 - a. **Master of Engineering Management**
New proposed degree for discussion.
 - The Board would not employ a graduate of the Masters of Engineering Management.
 - Employment would be based on experience working with engineering teams and leadership experience.
 - Suggested a requirement of 10 years of experience to attract a different type of applicant and contribute to a higher quality education experience and reputation.
 - Rename the degree Systems to attract different candidates and credibility.
 - b. **Master of Engineering Technology (Defence Systems)**
New proposed degree for discussion.
 - Ensure there is a core customer.
 - Olivia advised the defence industry is based around this in SA and interstate.
8. **Reports from Heads of Discipline (not otherwise covered)**
 - a. **Engineering, Professor John Roddick**
Nil
 - b. **Information and Communication Technology, Dr Anna Shillabeer**
Nil
9. **Round the Table - Opportunity to discuss any issues that members think are appropriate.**
 - Anthony Kittel – COVID affected the vehicle export market. About to take on another group of Flinders 3rd year undergraduates for industrial experience.
 - Peter Chaplin – Few supplier issues. Still recruiting in the UK. Intention is to recruit a few more in Adelaide and mostly overseas.
 - Jon Schutz – not largely affected and in a phase of development.
 - Adrian Smith – 30% of companies are in trouble, particularly hospitality and tourism. Most companies are working on backlog. Sales pipelines have dropped. 20-25% of companies are booming.
 - Anthony Skeats – demand for our product has increased. The biggest issue is importing freight, particularly from Asia. Hired extra staff. Gone back to the market to raise more money to buy more material and expand. Accelerated 2 projects. 3 placement students starting in June this year and looking to take on more graduates.
 - Marty Gauvin – new businesses lack of availability of capital/shift in availability. How we can mitigate that in the Australian context?
 - Anne-Louise Smith - taking on some students and preparing projects.
 - Olivia Samardzic – DST was tasked with printing face masks for ventilators and involved in transmission modelling. International trials have been cancelled.
 - Sherry Randhawa – curriculum review for Engineering, ICT and Maths programs and all other Science programs in our College. Is there more of an efficient way of teaching?
 - Anna Shillabeer – TPD's making sure every topic is being delivered in a way that is appropriate for 2020 and beyond. Making sure everything we teach within those topics is what students want, what industry want and where we have appropriate expertise. Remodelling our degrees based on our findings. Consistency in the way we teach, deliver topics, deliver materials around topics. Focus on improving teaching quality.
10. **AOB**
 - The ACS Accreditation is coming up this year and you may receive a request to meet the Committee.
 - Engineers Australia Accreditation in April (refer to *Table of Programs for Accreditation*). This document outlines the details of courses we are submitting for accreditation in April.

11. **Next Meeting**

The meeting concluded at 4.45pm

The next meeting is scheduled for 7th July on Microsoft Teams

12. **Business arising from the minutes**

Item	Details	Responsibility	Status
2	John to speak to Anthony Kittel offline about the IAB Board members that are not contactable - have they moved to another company and should their IAB membership lapse? should we go searching for them?	John Roddick	
9	John to add to the agenda for the next meeting a request for advice from the Board as to what attributes graduates should have. Organise sub-committee meetings.	John Roddick	
4	John to circulate the proposal for the Flinders Centre for Intelligent Infrastructure to the IAB for comment.	John Roddick	
10	John to circulate the previous meeting minutes.	John Roddick	
10	If the Board can recommend someone from the Civil Engineering/Environmental Engineering area to be on the Board, please discuss with John Roddick or Anthony Kittle offline.	Board	