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1. Staff cartal details

Contact details and consultation times for course convenor

Name: Dr Susann Beier Tel: (02) 9385 57580

Email: s.beier

Contact hours

Day	Time	Delivery Mode

Week	Topic	Delivery Mode	Suggested Readings	Assessment
4	Bio fluidics	Online	Biofluid Mechanics: Chapter 4, 5	
5	Micro and Biofluidic devices	Online		Quiz 1 (30%) - 35 Q (hard) on W1-4

6. Assessment

Assessment overview

Assessment	Group Project? (# Students per group)	Length	Weight	Learning outcomes assessed	Assessment criteria	Due date and submission requirements	Deadline for absolute fail	Marks returned
Micro-fluidics paper-based device**	Yes (5-6)	Video, 3-5 minutes	20%	2, 3, 4 and 5	Peer reviewed, topics assessed include design, execution, analysis, complexity, and creativity	Week 3, Friday 5pm via Moodle	Week 4, Monday 5pm	1 week after submission
Quizzes (2)	No	60 minutes each	50% (30% Q1 and 20% Q2)	1	Lecture materials from weeks 1-4 (Quiz 1) and 5-7 (Quiz 2)		'	

Assignments

Micro-fluidics paper-based device

The students will design and analyse a microfluidics paper-based device with freely available material and school resources. The students will undertake this in teams and will present their work in form of a video.

Quizzes

The students will be asked to calculate relevant problem scenarios and answer basic to complex questions to demonstrate their understanding of the difference between macro and microfluidics and their relevance for biological systems.

Micro- and Biofluidics resreach - virtual conference

The students will present a state of the art biofluidic problem and related fluidics device to meet a need and overcome a real-life problem. The teams of students can choose from a range of latest research to present, discuss and evaluate these devices.

Contribution

Additional digital support material and a visual lab tour relates to micro-device fabrication, ANFF lab, 3D printing and micro-mixer simulation are provided. Participation and interest in these materials as weQ 8Qq0.000008871 0 595 229.25 381.65 Tm073(ul)6(atio)3(n)]TETuend Bio



understanding academic integrity and how not to plagiarise. They also hold workshops and can help students one-on-one.

You are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment tasks.

If plagiarism is found in your work when you are in first year, your lecturer will offer you assistance to improve your academic skills. They may ask you to look at some online resources, attend the Learning Centre, or sometimes resubmit your work with the problem fixed. However more serious instances in first year, such as stealingywith t 26.030 595.32 841.92 reW* Q04.

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Stage 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
rdge ase	PE1.1 Comprehensive, theory-based understanding of underpinning fundamentals PE1.2 Conceptual understanding of underpinning maths, analysis, statistics, computing
Knowledg Skill Base	PE1.3 In-depth understanding of specialist bodies of knowledge
PE1: Knowledge and Skill Base	PE1.4 Discernment of knowledge development and research directions
PE1: and	PE1.5 Knowledge of engineering design practice
	PE1.6 Understanding of scope, principles, norms, accountabilities of sustainable engineering practice
ing Ility	PE2.1 Application of established engineering methods to complex problem solving
eer אא ו	PE2.2 Fluent application of engineering techniques, tools and resources
PE2: Engineering Application Ability	PE2.3 Application of systematic engineering synthesis and design processes
PE2 App	PE2.4 Application of systematic approaches to the conduct and management of engineering projects
	PE3.1 Ethical conduct and professional accountability
Professional d Personal ttributes	PE3.2 Effective oral and written communication (professional and lay domains)
: Professio nd Persona Attributes	PE3.3 Creative, innovative and pro-active demeanour
: Pr od F Attı	PE3.4 Professional use and management of information