

## Variation to the Programme Specification

### For Academic Year 2020/21

<b>Name of programme(s) and award type(s):</b> <i>(such as Single Honours History with International Year)</i>	<b>MSc Cell &amp; Tissue Engineering</b> <b>MSc Biomedical Engineering</b> <b>MSc Medical Engineering Design</b> <b>MRes Bioengineering</b>
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Dear students,

As part of our commitment to continually work to improve our programmes, and in light of our plans to start next academic year with a hybrid delivery model due to the impact of Covid-19, we are confirming in this document the changes to your programme in the Academic Year 2020/21. More general information about what studying at the University will be like in 2020/21 can be found here:

<https://www.keele.ac.uk/coronavirus/operations/>

#### Specific planned changes

<b>How the programme will be taught</b> <i>(include any significant changes to the balance between on campus and digital delivery and what students can expect)</i>	<u>For semester 1, 2:</u> In-situ 30% (for practical elements) Synchronous online 60% (for online lectures, seminars) Asynchronous 10% (for workshops, student engagement)  <u>For semester 3:</u> In-situ, usually 70-100% (depending on project, can be asynchronous) Almost all online lecture delivery will be synchronous. Students will have about 12 hours per week for these sessions in Semester 1 and 2, depending on the electives they choose Some aspects of practical elements will be asynchronous (about 70-80% of the practical elements) under the new changes. All sessions will be recorded. ILOs will remain unchanged.
<b>Changes to placements, field courses or other practical activities</b> <i>(where applicable)</i>	<u>For in situ lab based practicals -</u> reducing physical face to face lab activities using interactive multimedia teaching tools for elements/steps that can be done remotely in advance; using social distancing guidelines for more hands-on elements in labs (reduced lab capacity – 2 to 3 students per group per time slot to maintain social distancing). Where such delivery is not possible, we will offer catch-up on elements, during the course of the year, if circumstances permit. Such sessions will not be associated with summative assessments.  <u>For field trips (hospital visits) -</u> This will be co-ordinated in multiple trips and observing social distancing guidelines in hospital. It will

	<p>follow standard timetable or arranged in Semester 2, if necessary. Such sessions will not be associated with assessments.</p> <p>For lectures in anatomic suite, we will use an e-version teaching kit for synchronous and asynchronous presentations. It is likely to follow standard timetable.</p> <p>For demonstration of equipment/workshops – this will be co-ordinated with small groups at a time, in situ or online. In situ activities may be split into few sessions to accommodate class but all will be completed within the same semester timetable.</p>
<b>Learning resources and any potential additional costs</b> (such as equipment requirements)	<p>Where the use of PPE is required, this will be provided by the School.</p> <p>The provision of eResources will be required if teaching is delivered predominantly online.</p> <p>Students should ensure that they have suitable resources to enable them to work at home for extended periods if required. This should include a reliable Internet connection and full access to IT equipment, including a laptop or desktop computer.</p> <p>Given an increasing level of online teaching and assessments for this programme, it would be preferable if students had access to computer equipment with a webcam and microphone. It may also be preferable for students to have adequate Wi-Fi connectivity and associated internet speeds. Students who need support in accessing appropriate IT equipment may be eligible to apply for support from the <a href="#">University's hardship fund</a>.</p>
<b>How the programme will be assessed</b> (a general summary of changes to assessment methods)	<p>Unseen exams for all relevant modules (especially semester 1) may need to be replaced with open-book exams if alternatives are required depending on circumstance. Other forms of assessments remain unchanged.</p>
<b>How students are supported</b> (any alternative arrangements such as communication methods, support networks etc.)	<p>All synchronous sessions will be recorded during delivery to facilitate reasonable adjustments. Asynchronous activity will take the shape of videos, recorded presentations, student engagement, discussion forums and assessments.</p> <p>Every module will also have live online chat sessions during the semester to facilitate student engagement and discuss concerns. Flexibility in our delivery is hoped to accommodate diverse student needs.</p> <p>Course Directors/Personal Tutors will have fortnightly meetings with students during period of online delivery ('Virtual Coffee Mornings' on Fridays). Digital training will also be part of induction.</p>

### Updated module lists for 2020/21

#### **1 Year / Level 7**

Compulsory modules	Module Code	Credits	Semester	Added/removed/unchanged?
Experimental Research Methodology	<b>MTE-40039</b>	15	All 3	Unchanged
Bioreactors & Growth Environments	<b>MTE-40022</b>	15	1	Unchanged
Physiological Measurement	<b>MTE-40026</b>	15	1	Unchanged

Stem Cell Types, Characterisation & Application	<b>MTE-40028</b>	15	1	Unchanged
Medical Equipment and Technology Services Management	<b>MTE-40029</b>	15	1	Unchanged
Biomedical Signal Processing and Analysing	<b>MTE-40031</b>	15	2	Unchanged
Cell and Tissue Engineering	<b>MTE-40033</b>	15	2	Unchanged
Biomaterials	<b>MTE-40036</b>	15	2	Unchanged
Medical Device Design Principles	<b>MTE-40038</b>	15	2	Unchanged
Advanced Engineering Applications	<b>MTE-40040</b>	30	1	Unchanged
Creative Engineering Design	<b>MTE-40041</b>	30	2	Unchanged
Project Dissertation	<b>MTE-40015</b>	60	3	Unchanged
Research Project	<b>PHA-40196</b>	120	1-3	Unchanged
<b>Optional modules</b>	<b>Module Code</b>	<b>Credits</b>	<b>Semester</b>	
Human Physiology and Anatomy	<b>MTE-30001</b>	15	1	Unchanged
Human Physiology and Anatomy	<b>MTE-40024</b>	15	1	Unchanged
Engineering for Medical Applications	<b>MTE-30003</b>	15	1	Unchanged
Biomechanics	<b>MTE-40023</b>	15	1	Unchanged
Molecular Techniques	<b>MTE-40025</b>	15	1	Unchanged
Nanomagnetics in Nanomedicine	<b>MTE-40030</b>	15	2	Unchanged
Cell Biomechanics	<b>MTE-40034</b>	15	2	Unchanged