

Thursday 13 October 2022  
15:00-17:00

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**Present**

Professor Richard Green (Acting Chair), Professor Alessandro Astolfi, Ms Lorraine Bayfield (Secretary), Dr Lorraine Craig, Dr Jo Horsburgh, Ms Kate Ippolito, Dr Magdalena Jara, Dr Felicitas Starr-Egger, Mr Scott Tucker, Dr Vijay Tymms, Dr Jeffrey Vernon, Ms Judith Webster, and Mr Jason Zheng.

**Apologies**

Dr Clemens Brechtelsbauer, Ms Hayley Wong and Ms Betty Yue.

**In attendance**

Ms Amy Huynh

**1 Welcome and Apologies**

The Deputy Chair confirmed that they would lead the Programmes Committee (PC) in the absence of the Chair. Attendees were welcomed to the meeting and apologies, as above, were noted.

**2 Terms of Reference 2022-23**

The Committee considered and approved the terms of reference and membership for the academic year 2022-23.

Thanks was given to Dr Mike Tennant who had stepped down as Deputy Chair of the PC due to his appointment to Vice Dean Education in the Faculty of Natural Sciences. It was confirmed that Professor Richard Green would be undertaking this role for the academic year 2022-23. The PC Secretary would update the relevant documents and webpages with this information.

**3 Minutes of the previous meeting**

The minutes of the previous meeting held on 21<sup>st</sup> June 2022 were confirmed as an accurate record subject to one update to the attendees list.

**4 Matters Arising**

The Faculty of Engineering representative thanked the PC for their recent review of the MSc/MA Innovation Design Engineering and MSc/MA Global Innovation Design programmes. The Committee were advised that both programmes had now been approved.

**Items for consideration**

**5 Curriculum Review**

**5.1 PC.2022.03 Executive MBA**

**5.1.1** The PC considered the redesigned programme above from the Imperial College Business School for delivery with effect from February 2023.

**5.1.2** The Committee made the following recommendations:

Curriculum redesign proposal form

- Further detail should be included to evidence the student and external examiner consultation that was undertaken as part of the review.
- References to 'residencies' should be changed to 'placements' to align with College nomenclature and to provide clarity that students are covered by the

College's Placement Learning Policy. Further information should also be provided as to how visa arrangements are handled and the support that is available to students.

- Further detail should be provided as to how the programme team plan to monitor pastoral care needs going forward.

#### Programme Specification

- The programme team could consider the possibility of introducing an exit award in line with the College's Regulations for Taught Programmes of Study.
- Further clarity should be provided in relation to any additional programme costs associated with the US and China 'residencies'.
- Further information should be provided as to how student groups are allocated /chosen and any form of support that will be provided.

#### Module Specifications

- The module learning outcomes should be revisited to ensure that they are consistent with FHEQ level 7 language and ability.
- Student-facing language should be used throughout all specifications.

#### Class Participation

- Assessment of participation was included in several modules. The programme team should consider presenting a rationale and assessment plan for each module that is clear to students. It may be useful to present this to the Imperial College Business School Education Committee, or equivalent.

Additional minor suggestions would be shared with the programme team via SharePoint post meeting.

- 5.1.3** The Committee advised that the recommendations above be considered and that the response and updated documentation be submitted to the Quality Assurance and Enhancement team for a further internal review. The programme specific regulations to maintain the module grouping in the classification criteria would be referred to the Regulations, Policy and Review Committee (RPRC). It was recommended that following the re-submission of updated documentation, and a recommendation from RPRC supporting the programme specific regulations on an interim basis, Chair's action on behalf of Programmes Committee and QAEC would be taken to approve the proposal with effect from February 2023

#### **5.2 PC2022.04 Weekend MBA**

- 5.2.1** The PC considered the redesigned programme above from the Imperial College Business School for delivery with effect from April 2023.

- 5.2.2** The Committee made the following recommendations:

#### Curriculum redesign proposal form

- Further evidence should be provided as to how the design, delivery and assessment of the programme was reviewed overall.
- Further detail should be included to evidence the student and external examiner consultation that was undertaken as part of the review.
- Further information should be provided as to how the programme team plan to monitor pastoral care needs going forward.

#### Programme Specification

- The programme team could consider the possibility of introducing an exit award in line with the College's Regulations for Taught Programmes of Study.
- The programme learning outcomes could be revised to reflect the Quality Assurance Agency (QAA) subject benchmark statements as appropriate.

#### Module Specifications

- The Personal Leadership module specification should be submitted for consideration as this was unavailable for review.
- The module learning outcomes should be revisited to ensure that they are consistent with FHEQ level 7 language and ability.
- Student facing language should be used throughout all specifications.

#### Class Participation

- Assessment of participation is included in several modules. The programme team should consider presenting a rationale and assessment plan for each module that is clear to students. It may be useful to present this to the Imperial College Business School Education Committee, or equivalent.

Additional minor suggestions would be shared with the programme team via SharePoint post meeting.

- 5.2.3** The Committee advised that the recommendations above be considered and that the response and updated documentation be submitted to the Quality Assurance and Enhancement team for a further internal review. The programme specific regulations to maintain the module grouping in the classification criteria would be referred to the RPRC. It was recommended that following the re-submission of updated documentation, and a recommendation from RPRC supporting the programme specific regulations on an interim basis, Chair's action on behalf of Programmes Committee and QAEC would be taken to approve the proposal with effect from April 2023.

#### **5.3 PC.2022.05 Weekend MBA (Saudi Aramco)**

- 5.3.1** The PC considered the redesigned programme above from the Imperial College Business School for delivery with effect from October 2022.

- 5.3.2** The Committee made the following recommendations:

#### Programme Start Date

- It was agreed that it would be more appropriate to implement the curriculum reviewed version of the programme in **October 2024** for the next student intake. A minor modification would be submitted to update the assessment on the 'Marketing Management' module for the October 2022 cohort with immediate effect.

#### Curriculum redesign proposal form

- Further detail should be included to evidence the outcome of the student consultation that was undertaken as part of the review.

#### Programme Specification

- The programme team could consider the possibility of introducing an exit award in line with the College's Regulations for Taught Programmes of Study.
- The programme learning outcomes could be revised to reflect the QAA subject benchmark statements as appropriate.

#### Module Specifications

- Some modules have the same title as the Weekend MBA programme, but the content, learning outcomes or assessments varied slightly. It was noted that it

would be beneficial to rename these (E.g (SA) after the title), so that the variations can be distinguished.

Additional minor suggestions would be shared with the programme team via SharePoint post meeting.

- 5.3.3** The Committee advised that the recommendations above be considered and that the response and updated documentation be submitted to the Quality Assurance and Enhancement team for a further internal review. The programme specific regulations to maintain the module grouping in the classification criteria would be referred to the RPRC. It was recommended that following the re-submission of updated documentation, and a recommendation from RPRC supporting the programme specific regulations on an interim basis, Chair's action on behalf of Programmes Committee and QAEC would be taken to approve the proposal with effect from October 2024.

## **6 Major Modifications to Existing Programmes**

### **Faculty of Engineering**

#### **6.1 PC2022.06 Department of Earth Science and Engineering**

MSci Earth Science  
BSc Earth Science

- 6.1.1** The PC considered a late major modification to redesignate the module 'Maps and Structures' from core to compulsory on the programmes named above with immediate effect. This was to rectify an error in the original curriculum review submission.

- 6.1.2** The PC agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

#### **6.2 PC2022.07 Department of Electrical and Electronic Engineering**

BEng Electrical and Electronic Engineering  
MEng Electrical and Electronic Engineering  
MEng Electrical and Electronic Engineering with Management  
MEng Electrical and Electronic Engineering with a Year Abroad

- 6.2.1** The PC considered a late major modification to update the module description, learning outcomes and module content of the core module 'Power Electronics and Power Systems' on the programmes named above with immediate effect.

- 6.2.2** The PC agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

### **Faculty of Natural Sciences**

#### **6.3 PC.2022.08 Department of Mathematics**

BSc Mathematics  
BSc Mathematics (Pure Mathematics)  
BSc Mathematics with Applied Mathematics/Mathematical Physics  
BSc Mathematics with Mathematical Computation  
BSc Mathematics with Statistics  
BSc Mathematics with Statistics for Finance  
MSci Mathematics  
MSci Mathematics with a Year Abroad

- 6.3.1** The PC considered a late minor modification to change the assessment weightings of the module 'Introduction to Computation' with immediate effect.

- 6.3.2** The PC agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

## **7 Short Courses**

### **7.1 PC2022.09 Foundations in Virology and Vaccinology**

- 7.1.1** The PC received a proposal from the Department of Infectious Diseases to create an online MOOC specialism with effect from January 2023.
- 7.1.2** The Faculty of Medicine representative suggested that in future, new short courses should be managed in the same way as other substantive proposals and be allocated to two committee members for review.
- 7.1.3** The Committee endorsed this recommendation and it was agreed that short course proposals would be included in reviewer allocations going forward. The Foundations in Virology and Vaccinology proposal would be reviewed by the Deputy Chair and one other nominee post meeting. A decision via Chairs action would be taken and a subsequent recommendation be made to the Quality Assurance and Enhancement Committee.

### **Items to note**

## **8 Chair's Report**

The PC noted the proposals that had been approved by the Chair and Deputy Chair via Chair's action on behalf of the PC since the last meeting.

### **Faculty of Engineering**

#### **8.1.1 Department of Aeronautics**

MSc Advanced Aeronautical Engineering  
MSc Advanced Computational Methods for Aeronautics, Flow Management and Fluid Structure Interaction  
MSc Composites: The Science, Technology and Engineering Application of Advanced Composites

A late major modification to introduce a PG Diploma exit award on the programmes named above with immediate effect.

#### **8.1.2 Department of Bioengineering**

MEng Molecular Bioengineering Programmes

A late major modification to create a 35 ECTS core module 'Individual Project' for the programmes named above with immediate effect.

#### **8.1.3 Department of Chemical Engineering**

MSc Advanced Chemical Engineering with Biotechnology

A late major modification to change the learning outcomes of the core module 'Advanced Bioprocess Engineering' with effect from October 2022.

#### **8.1.4 Department of Computing**

MEng Computing (Security and Reliability)

A late major modification to change the learning outcomes of the core module 'Distributed Algorithms' with effect from October 2022.

#### **8.1.5 Department of Computing**

MEng Computing (Security and Reliability)

A late major modification to change the learning outcomes of the core module 'The Theory and Practice of Concurrent Programming' with effect from October 2022.

#### **8.1.6 Department of Computing**

MSc Computing

A late major modification to redesignate the module 'MSc Software Engineering Group Project' from core to elective with effect from October 2022.

#### **8.1.7 Dyson School of Design Engineering**

MA/MSc Global Innovation Design  
MA/MSc Innovation Design Engineering

The redesigned programmes with effect from September 2022.

#### **8.1.8 Department of Earth Science and Engineering**

MSc Applied Computational Science and Engineering  
MSc Environmental Data Science and Machine Learning  
MSc Geo-Energy with Machine Learning and Data Science

A late major modification to change the learning outcomes of the core module 'Applied Computational/Data Science Project' with effect from October 2022.

#### **8.1.9 Department of Earth Science and Engineering**

MSc Applied Computational Science and Engineering  
MSc Environmental Data Science and Machine Learning

A late major modification to change the learning outcomes of the core module 'Applying Computational/Data Science' with effect from October 2022.

#### **8.1.10 Department of Earth Science and Engineering**

MSc Applied Computational Science and Engineering

A late major modification to change the learning outcomes of the core module 'Inversion and Optimisation' with effect from October 2022.

#### **8.1.11 Department of Electrical and Electronic Engineering**

BEng Electrical and Electronic Engineering

A late major modification to change the learning outcomes of the core module 'BEng Electrical Engineering Project' with effect from October 2022.

#### **8.1.12 Department of Materials**

All undergraduate programmes

A late major modification to change the learning outcomes of the core module 'Mathematics and Computing 2' with effect from October 2022.

### **Faculty of Medicine**

#### **8.1.13 Department of Metabolism**

MRes Biomedical Research

A late major modification to change the main campus from South Kensington to Hammersmith with effect from October 2022.

#### **8.1.14 National Heart and Lung Institute**

MSc Cardiovascular and Respiratory Healthcare

A late major modification to update the programmes structure for part time students by moving the core module 'Study Design' from year 1 to year 2 with effect from October 2022.

#### **8.1.15 National Heart and Lung Institute**

MSc Genes, Drugs and Stem Cells

A late major modification to redesignate the module 'Evidence, Information and Communication' from core to compulsory with effect from October 2022.

### **Faculty of Natural Sciences**

#### **8.1.16 Department of Chemistry**

MSc Digital Chemistry

A late major modification to change the learning outcomes of the compulsory module 'Artificial Intelligence in Chemistry (Materials)' with effect from October 2022.

#### **8.1.17 Department of Chemistry**

MSc Digital Chemistry

A late major modification to change the learning outcomes of the compulsory module 'Hacking for Chemists' with effect from October 2022.

#### **8.1.18 Department of Mathematics**

MSc Machine Learning and Data Science

A late major modification to change the learning outcomes of the compulsory module 'Big Data: Statistical scalability with PySpark' with effect from October 2022.

#### **8.1.19 Department of Mathematics**

MSc Machine Learning and Data Science

A late major modification to change the learning outcomes of the core module 'Deep Learning' with effect from October 2022.

#### **8.1.20 Department of Mathematics**

MSc Machine Learning and Data Science

A late major modification to change the learning outcomes of the core module 'Ethics in Data Science and Artificial Intelligence' with effect from October 2022.

#### **8.1.21 Department of Mathematics**

**MSc Machine Learning and Data Science**

A late major modification to change the learning outcomes of the compulsory module 'Unstructured Data Analysis' with effect from October 2022.

#### **8.1.22 Department of Physics**

MSci Physics

MSci Physics with Theoretical Physics

A late major modification to change the learning outcomes of the compulsory module 'Research Interfaces' with effect from October 2022.

#### **8.1.23 Department of Physics**

MSc Physics with Nanophotonics

A late major modification to change the learning outcomes of the core module 'Introduction to Plasmonics and Metamaterials' with effect from October 2022.

### **Imperial College Business School**

#### **8.1.24 MRes Business**

A retrospective late minor modification to change the assessment and assessment weightings of the elective module 'Empirical Asset Pricing' with effect from September 2021.

### **8.1.25 Undergraduate Joint Honours Programmes and Intercalated BSc**

A late major modification to change the learning outcomes of the compulsory module 'Sustainable Business' with effect from October 2022.

### **8.1.26 MSc International Finance**

A late major modification to change the learning outcomes of the compulsory module 'Advanced Corporate Finance' with effect from September 2022.

### **8.2 Quality Assurance and Enhancement Committee (QAEC)**

The Committee noted the minutes from the previous Quality Assurance and Enhancement Committee found on the College webpages [www.imperial.ac.uk/about/governance/academic-governance/senate-subcommittees/quality-assurance-enhancement-committee/](http://www.imperial.ac.uk/about/governance/academic-governance/senate-subcommittees/quality-assurance-enhancement-committee/)

## **Any Other Business**

### **9 Any Other Business**

- 9.1** The Faculty of Medicine representative asked for an update on the proposal from the Department of Surgery and Cancer to launch a three-month non-credit-bearing short course 'Foundations of Digital Health Leadership'. It was confirmed that this was being managed via a Chair's action and that the outcome would be circulated as soon as possible.
- 9.2** The Deputy Chair thanked Committee members for the contributions and closed the meeting.