

Quality Assurance and Enhancement Committee (QAEC)

Confirmed Minutes from the meeting held on

Wednesday 10 April 2019

Present

David Ashton, Academic Registrar – Chair

Dr Lorraine Craig, Faculty of Engineering representative

Claire Stapley, CLCC/CHERS representative

Alejandro Luy, ICU Deputy President (Education)

Karen Tweddle, Business School representative

Professor Anthony Magee, Deputy Director of the Graduate School

Professor Emma McCoy, (attending in the place of Professor John Seddon, Faculty of Natural Sciences representative)

Professor Jeffery Vernon, Faculty of Medicine (attending in place of Martin Lupton)

Judith Webster, Head of Academic Services

Lucy Heming, Senior Assistant Registrar (Quality Assurance and Enhancement) - Secretary

In attendance

Trisha Brown, Head of Secretariat, Faculty of Medicine (observing)

Kirstie Ward, Assistant Registrar (Academic Standards) - Deputy Secretary

Apologies

Professor Peter Lindstedt, Senior College Consul

Professor John Seddon, Faculty of Natural Sciences representative

Dr Edgar Meyer, Chair of Programmes Committee

Ute Thiermann, GSU President

Martin Lupton, Faculty of Medicine Representative

1 Welcome, apologies and announcements

- 1.1 The Chair welcomed the attendees to the meeting and apologies, as listed above, were noted.

2 Minutes of the Previous Meeting

QAEC.2018.63

- 2.1 The Committee confirmed the minutes of 13 March 2019 with no amendments.

2.2 Review of Committee Actions

QAEC.2018.49

The Committee noted the status of the points of the action sheet. In particular the Committee discussed the following actions:

2.2.3 Criminal convictions policy (October 2018, 4.1)

The Committee noted the update from the Chair on this action. It was reported that when questions relating to previous criminal conviction were removed from the UCAS application process, Universities UK had stated that they would be taking this forward on behalf of the sector, as previously reported to the Committee. They have now confirmed that this is not an area of work that they are going to consider. The Chair stated therefore this would be taken forward for the College by the Chair as lead, commencing with reviewing legal advice produced by other institutions and would be reported back to the Committee in due course.

3 Matters arising from the Minutes

3.1 The Committee noted that the Universiti Brunei Darussalam partnership (13 March 2019 meeting, minute 8.4) has been put on hold at this time. This will be reported to the next Programmes Committee, formally noting the withdrawal from the collaborative arrangement.

3.2 Student Protection Plan (October 2018, 13.1) – Faculty of Medicine

QAEC.2018.65

3.2.1 The Committee noted the update from the Faculty of Medicine, in relation to the planned consideration of the Student Protection Plan by its Faculty Education Committee on 15 April 2019.

3.3 Audit of Wednesday Afternoon Teaching (March 2019, 5.1) – Faculty of Medicine

QAEC.2018.65

3.3.1 The Committee noted the update from the Faculty of Medicine with regards to teaching on Wednesday afternoons. It was noted that the experiences and concerns of the Faculty of Medicine coincided with those reported in the previous meeting by others. In particular for research- or lab-based work there were concerns and difficulties with preventing teaching on Wednesday afternoons. This would also have an impact where programmes are taught part-time and the timetabling is structured to take this into account.

3.4 Assessment Feedback Audit (March 2019, 5.2)

QAEC.2018.65

3.4.1 The Committee noted the update from the Faculty of Medicine with regards to the monitoring of Academic feedback. It particularly noted the suggestion to identify feedback champions to improve the quality of the feedback, and not simply ensuring that the feedback is returned 'on time'.

4 Academic Regulations and Policy

4.1 Updated single set of regulations (2019/2020)

QAEC.2018.66a

4.1.1 The Chair provided an update to the Committee with regards to the recent meetings of the Regulations and Policy Review Group, which had included an expanded membership to include members of VPAGE to seek agreement on key parts of the regulations, provided to the Committee for approval.

4.1.2 It was noted that the key area of handling failure and reassessment would be considered at a further meeting of the extended group, to be reported back to the Committee later in the year. The next meeting of the Regulations and Policy Review Group would be to consider the current regulations and any changes that are required for continuing students in 2019/2020.

- 4.1.3** The Committee was informed that the discussions held at the Regulations and Review Policy Group would be used to agree a set of principles for handling failure and progression, from which any further decisions would be drawn.
- 4.1.4** It was confirmed that the limits to credits per year was in relation to the design of the curriculum, and not to a module taken for additional credit at the choice of the student. It was agreed that this could be made clearer to the reader in the final version of the regulations.
- 4.1.5** The Committee discussed if there should be a requirement within the regulations for students to have attempted all assessment tasks for the year, prior to being eligible for an exit award of an ordinary degree. The decision was that as exit awards are defined by credit accumulation and achievement of the relevant learning outcomes for the award, that this would not be made a requirement.
- 4.1.6** The Committee endorsed all recommendations of the Regulations and Review Policy Review group as presented in the paper (QAEC.2018.66a) without further amendment.

4.2 Review of Student Facing Discipline Regulations

QAEC.2018.66b

- 4.2.1** The Committee was advised that the Office of the Independent Adjudicator for Higher Education had published best practice guidance in relation to academic and non-academic student discipline cases in October 2018. The Quality Assurance Agency has also published updated advice and guidance to support the Quality Code in November 2018.
- 4.2.2** In the light of the new sector-driven best practice guidance and the review of casework over the previous two years since the implementation of the updated Student Discipline Procedures, the Committee was presented with a number of recommendations and proposals for development. It was noted that as Student Discipline is an ordinance of the College, it requires Council approval prior to implementation. Therefore any changes would require consultation with the Central Secretariat.
- 4.2.3** It was agreed, in relation to the points agreed to be taken forward, that there would be a limited consultation on the updated policy and any associated supporting documentation with the Faculty Senior Tutors and other stakeholders, prior to presenting the policy to QAEC for endorsement and then to be sent to Senate, and, where required, Council.
- 4.2.4** The Committee agreed to the following proposed changes to the Student Discipline Policy:
- Editorial changes to the policy document to provide up-to-date links and improvement to the flow of the document.
 - For development for 2019/2020 to support the policy:
 - Full procedural guidance supporting document.
 - Risk analysis documentation with regards to suspension of access, and forced interruption of study should it prove necessary.
 - The addition of a clear statement of the level of proof required for a case (on the balance of probabilities).
 - The addition of a clear statement regarding supporting those requiring reasonable adjustments to the process in the light of a disclosed disability.
 - The addition of a clear statement regarding whether the College may reopen a case following new evidence, and any limitations to this.
 - The provision of clear definitions of terms in the document, such as 'harassment'. This should match the definitions already in use in other College documentation.

- The provision of clear guidance as the limitation of the College to investigate and potentially take action in relation to personal relationships, incidences that are off campus, or those in digital forums.
- The production of guidance for the disciplinary panels with regards to:
 - The role of the investigator;
 - The role of panel members;
 - Witness testimony.
- The provision of clear guidance with regards to the appeal process and requirement in relation to suspensions of access.
- Confirmation with the Central Secretariat of the secretaryship of the Student Discipline Appeals panel.
- Review of the timelines of the policy in order to map the extent to which this matches the best practice guidance.
- Investigation of further proposals with regards to the legal sharing of relevant data with the Imperial College Union where there may be concerns of the suitability of access of those under investigation for a disciplinary offence.
- Draft guidance as part of the policy to provide an indication, with caveats, of those areas of misconduct which may be considered normally under the summary procedures, or under the major procedures.

In addition the Committee agreed that the documents should be reviewed to include clear indications of the actions that the College may take with regards to vexatious or frivolous allegations.

4.2.5 It was noted that this constituted a large amount of development in a relatively short period. The Quality Assurance team would therefore review what would be able to be completed in the time scale, and which may need to be deferred to the next year.

4.2.6 The Committee agreed to the following areas to be considered over the next academic year, for implementation from September 2020/2021, if then felt necessary:

- The development of guidance based on current best practice and any relevant legal advice with regards to the dissemination of outcomes to those making an allegation under the College Student Discipline procedures.
- The codification of the interplay between the procedures of Imperial College and Imperial College Union so that there are clear lines of communication and action where needed in relation to disciplinary action to support and safeguard those in College premises, Imperial College Union premises, and the clubs and societies.
- The development of supporting guidance in relation to matters that may constitute a criminal offence and the links with the College Crime and Investigations Manager.
- Reconsideration of the prevention of legal representation in cases of student discipline.
- Consideration of the action that College may take with regards to the prevention or rescinding of an award where a serious case is proven.

4.2.7 The Committee agreed to the following in relation to the Academic Misconduct Procedure for 2019/2020:

- Editorial changes to update email addresses in the policy document and the allegation form.
- Clarification in the policy with regards to students alleged to have shared previous work with the intention of enabling another to gain academic advantage.
- Updating of the sanction framework with regards to the penalty of 'module awarded zero, resit permitted for credits only' to provide the Board of Examiners the authority to amend the penalty where it may have unintended consequences, such as resulting in programme failure.

- The amendment of the timeline for response to cases from 10 working days, with an additional 10 working days if no response is received within the first 10 working days, with a reminder after 5 working days.

4.2.8 The Committee agreed to the following areas to be considered over the next academic year, for implementation from September 2020/2021, if necessary:

- Consideration of how cases of minor misconduct are reported to the student casework team for collation and completing of College level analysis.
- Consideration of how allegations of purchased assessments can be thoroughly investigated, and the escalation to the Student Discipline procedures as appropriate.

5 Internal Audit Report regarding Quality Assurance

QAEC.2018.67

5.1 The Committee considered the audit report prepared by KPMG, the College auditors, in relation to Quality Assurance. The Committee was reminded that the report is confidential to the College and may not be shared without the authority of the Head of the Central Secretariat.

5.2 The report had been considered and actions approved by the College Risk and Audit Committee. It was noted that the report, whilst broadly positive and giving confidence in the College's processes and procedures, had made three recommendations for improvement.

5.3 The first action was to reintroduce Periodic Review for taught programmes. The Committee noted that this was on the agenda for consideration (see point 6.1).

5.4 The second recommendation was to strengthen the Annual Monitoring report to Council to include analysis of pertinent student progression and award data. It was noted that action was being taken forward by the Quality Assurance Team and Strategic Planning for the report relating to 2018/2019.

5.5 The final recommendation was in relation to the analysis of the impact of the Learning and Teaching Strategy, for which the Committee received the following update from the Learning and Teaching Committee:

"Over the next few months we will be undertaking a review of the first two-years of the Learning and Teaching Strategy programme. The main aims are (1) to report back on the progress made, with a view to understanding what has worked well, gone better than expected, and where things might not have met expectations and (2) to identify priorities and investment for the next phase of the Strategy implementation. In structuring the review, we will be using the objectives and indicators of performance set out in the Strategy document.

The process is being refined, but in essence we will be producing a report for review by a panel including internal and external representatives, which will in turn report to Learning and Teaching Committee. LTC will be asked to make recommendations to Provost's Board in September."

6 Periodic review of taught provision

QAEC.2018.68

6.1 The Committee considered the proposed principles in relation to an updated Periodic Review policy. It was noted that in the period in which the process has been in abeyance there have been a number of changes in the sector such as the introduction of the Teaching Excellence Framework and the Office for Students.

6.2 The proposal for a theme to be chosen by the department and by the College was discussed. It was agreed that this was appropriate as it enabled the College and a department to

consider those areas of strategic importance, but also facilitate local areas for development or dissemination of best practice.

6.3 The Committee also discussed the previously agreed principles that the process should be robust but not overly burdensome. Whilst the process could not be replaced with external accreditation events, as the primary objectives were different and the College must be assured of the quality of provision and the standards are being maintained, care would be taken to ensure that there was not duplication of effort and that the process would be streamlined as much as possible.

6.4 The Committee endorsed the principles presented in the paper (QAEC.2018.68), with particular commendation for the inclusion of central departments/directorates as part of the process.

7 Annual Monitoring

7.1 Proposal for the formal inclusion of students in the annual monitoring process

QAEC.2018.69a

7.1.1 The Committee considered the proposal presented by the Faculty of Engineering for the inclusion of a formal consultation and sign-off of the annual monitoring of taught provision by students.

7.1.2 The Committee strongly endorsed the formal inclusion of students; however, there was concern of the extension of the timeline for the process. It was felt that to extend the timeline further, whilst noting that some actions would be addressed during the period of development and approval, could prevent the overarching principle of annual monitoring to identify and implement changes to enhance provision in a timely manner.

7.1.3 It was noted that there would be difficulties in commencing the process earlier in a meaningful way due to availability of staff over the summer period, and that the election of student representatives would not occur until the middle of the Autumn term.

7.1.4 It was agreed to consider the roles of Faculty Education Committee and of QAEC in relation to specific departmental action approval, and that of strategic overview, to ascertain if this would produce a meaningful change to the time line.

7.1.5 The Committee considered that the role of student representatives in the process should include holding the relevant department to account to ensure that the identified actions are taken forward.

7.1.6 It was agreed that the template report would be reviewed to ensure that it was concise and that there would also be a review of the data required for the report, including how this would be disseminated to the departments.

Action: Assistant Registrar (Annual Monitoring & Review)

7.1.7 With an amendment to the timeline to allow the Departmental reports to be published to students following the Faculty Education Committee and acknowledgement of the need to clarify the role of Faculty level reports, the proposal was endorsed by the Committee.

Action: Quality Assurance Team

7.2 Communicating the outcomes of annual monitoring

QAEC.2018.69b

7.2.1 The Committee considered the proposal in relation to the dissemination of the outcomes of the annual monitoring process. In the proposal it was suggested that following analysis of

the concerns and improvements to process, procedure or service and collation into broad thematic areas, these be addressed by referring items under each theme to the relevant service provider or department for College level issues (point 2.1, QAEC.2018.69b). The proposal recommended where issues related to a single department, this would be referred back to be dealt with by that department with the relevant service provider or department. Finally it was proposed that a College level action plan would be monitored by QAEC, and disseminated to Departments annually.

Action: Secretary

7.2.2 It was agreed that QAEC would, where necessary, refer items for consideration to other central committees as appropriate.

Action: Secretary

7.2.3 The Committee approved the proposal in full.

8 Academic Calendar

QAEC.2018.70

8.1 The Committee considered the proposed Academic Calendar for 2019/2020. It was noted that, whilst HESA Data Futures had been delayed, the drivers for providing data in relation to this remained, and as such development to support this would continue.

8.2 It was noted that there were a number of areas of non-standard practice, and concern was raised that provision of the calendar to students may give rise to misunderstandings. The Committee was assured that the calendar would commence as a staff-facing document only. Versions of the calendar to meet some non-standard provision would be developed as required, such as for Medicine.

8.3 The Committee considered the timing of Board of Examiners in relation to assessment submission and noted that further research in this area was being undertaken and would inform the dates in the calendar.

8.4 The Committee discussed that due to the redevelopment of programmes through the curriculum review process, and the changes to teaching and assessment practices that this has brought, there may be unanticipated impacts on the calendar.

8.5 In considering the points that were made in the meeting, the Committee agreed to the proposed calendars as a trial, noting there would be an iterative development process.

9 External Examiners

9.1 Summary of Postgraduate Taught External Examiner Report 2017/2018

QAEC.2018.71a

9.1.1 The Committee considered the summary report provided. It was noted that the External Examiners' reports were positive on the whole, with strong support that the quality and standards of provision were being maintained.

9.1.2 It was noted that there remained some areas in which College provision could be improved, which were also reflected in the undergraduate report earlier in the year. These areas related to marking schemes/model answers, marking and moderation procedures, and the feedback provided to other markers and students.

9.1.3 Professor Vernon informed the Committee that in relation to feedback to students, he had initiated an informal 'feedback champion' group in the Faculty of Medicine, which he hoped to extend out into the College. He had recruited a champion from 16 of 21 postgraduate

departments. The goal of this group was to work informally to support and develop the quality of feedback provided to students.

- 9.1.4** The Committee noted that there was likely to be an impact from the developments taken under curriculum review and the associated single set of regulations, though this would not be reflected in External Examiner reports for some time as the new provision and regulations were rolled out.

9.2 External Examiner Summary report action plan

QAEC.2018.71b

- 9.2.1** The Committee reviewed the action plan for 2016/2017, and noted the detailed list of points that had arisen from the undergraduate and postgraduate reports for 2017/2018. The Committee shared its frustration that similar concerns were being raised in 2017/2018 as had been raised previously and that sufficient improvements had yet to be made. The Chair agreed that he would raise these points with Professor Buitendijk, Vice Provost (Education) for further College level consideration.

Action: Chair

- 9.2.2** The Committee agreed that the detailed list of areas of improvement be reviewed to provide a clear thematic action plan, to be presented at the next meeting.

Action: Assistant Registrar (Academic Standards)

10 Office for Students survey of postgraduate taught students

QAEC.2018.72

- 10.1** The Committee noted the detail provided about the survey, that Imperial College London had previously agreed to take part in. It was noted that the official start date for the survey would be 17 April 2019, however the Committee approved delaying opening the survey to students at Imperial College London until 29 April 2019 due to the Easter period and other surveys underway in that period.

- 10.2** The Committee was informed that following the release of further information regarding the survey, Strategic Planning had raised reservations regarding the platform and other technical issues. The Committee therefore noted that a further decision would be made, pending the outcome of the technical developments, as to whether the College would continue to take part in the survey.

11 Faculty of Medicine reorganisation

QAEC.2018.73

- 11.1** The Committee noted the paper presented which provided details of the reorganisation of postgraduate provision in the Faculty of Medicine. This mapped the programmes of study from their current to their proposed Department.

- 11.2** The Committee noted that the educational experience of students would be unlikely to be impacted by the changes, and that in the most part students are on one year programmes, and as such would not have any changes associated with their studies. The Committee endorsed the consideration being given to supporting those continuing students for whom the administrative support would be changed. Where issues should arise due to the changes, for example for students currently on interruption of studies, this should be dealt with appropriately as the need arose.

- 11.3** It was agreed that for the programmes that had changed department, there is no need to complete the formal paperwork for presentation to Programmes Committee; however, a mapping of module provision would be required in order to update the records.

- 12.1** The Committee received the report from Programmes Committee held on 10 April 2019. This had been the second meeting considering provision that had been through curriculum review. It was noted that due to the short period between the Programmes Committee meeting and that of the Committee, the full report would be presented in due course. The Committee agreed in principle the recommendations made by Programmes Committee, subject to the completion of the conditions that had been set.
- 12.2** The Committee noted that, as a result of the extensive update that had been completed, there remained a possibility that further modifications may be required due to unintended consequences in the development. This may have a significant impact on the Programmes Committee, and therefore the membership may need to be expanded. It was agreed that this would be kept under review.
- 12.3** The following redesigned programmes as part of Curriculum Review were approved subject to meeting the conditions set and will be available to students with effect from October 2019:

Faculty of Engineering (Undergraduate)**Undergraduate Bioengineering**

MEng Biomedical Engineering
MEng Biomedical Engineering with Year in Industry
MEng Biomedical Engineering with a Year Abroad

MEng Molecular Bioengineering
MEng Molecular Bioengineering with Year in Industry
MEng Molecular Bioengineering with a Year Abroad

Undergraduate Aeronautics

MEng Aeronautical Engineering
MEng Aeronautics with Spacecraft Engineering
MEng Aeronautical Engineering with Year in Industry
MEng Aeronautical Engineering with Year Abroad (4 Years)
MEng Aeronautical Engineering with Year Abroad (5 Years)

MEng Chemical with Nuclear Engineering**MEng Design Engineering****Undergraduate Electrical and Electronic Engineering**

BEng Electrical and Electronic Engineering
MEng Electrical and Electronic Engineering (Technical stream)
MEng Electrical and Electronic Engineering (Management stream)
MEng Electrical and Electronic Engineering with a Year Abroad

BEng Electronic and Information Engineering
MEng Electronic and Information Engineering
MEng Electronic and Information Engineering (Technical Stream)
MEng Electronic and Information Engineering with a Year Abroad

Undergraduate Materials

BEng Materials Science and Engineering
MEng Materials Science and Engineering

BEng Materials with Management
MEng Biomaterials and Tissue Engineering

MEng Materials and Nuclear Engineering

MSci Petroleum Geoscience

Undergraduate Joint Maths and Computing

BEng Mathematics and Computer Science
MEng Mathematics and Computer Science

Faculty of Natural Sciences

Undergraduate Chemistry

BSc Chemistry
MSci Chemistry
MSci Chemistry with a Year in Industry

MSci Chemistry with Medicinal Chemistry
MSci Chemistry with Medicinal Chemistry and a Year in Industry

MSci Chemistry with Molecular Physics
MSci Chemistry with Molecular Physics and a Year in Industry

MSci Chemistry with Research Abroad
MSci Chemistry with Research Abroad and a Year in Industry

MSci Chemistry with French for Science
MSci Chemistry with German for Science
MSci Chemistry with Spanish for Science

BSc Chemical Sciences with Management
BSc Chemistry with Management
BSc Chemistry with Management and a Year in Industry

Undergraduate Life Sciences

BSc Biochemistry
BSc Biochemistry with Management (3 year)
BSc Biochemistry with Management (4 year)
BSc Biochemistry with a Year in Industry/Research
BSc Biochemistry with Research Abroad
BSc Biochemistry with French for Science
BSc Biochemistry with German for Science
BSc Biochemistry with Spanish for Science

BSc Biotechnology
BSc Biotechnology with Management
BSc Biotechnology with Research Abroad
BSc Biotechnology with a Year in Industry/Research

BSc Biotechnology with French for Science
BSc Biotechnology with German for Science
BSc Biotechnology with Spanish for Science

BSc Biological Sciences
BSc Biological Sciences with Management (3 year)
BSc Biological Sciences with Management (4 year)
BSc Biological Sciences with Research Abroad
BSc Biological Sciences with a Year in Industry/Research
BSc Biological Sciences with French for Science
BSc Biological Sciences with German for Science
BSc Biological Sciences with Spanish for Science

BSc Ecology and Environmental Biology
BSc Microbiology

Undergraduate Mathematics

BSc Mathematics
BSc Mathematics with Mathematical Computation
BSc Mathematics (Pure Mathematics)
BSc Mathematics with Applied Mathematics/ Mathematical Physics
BSc Mathematics with Statistics
BSc Mathematics with Statistics for Finance
BSc Mathematics, Optimisation and Statistics

MSci Mathematics
MSci Mathematics with a Year Abroad

Undergraduate Physics

BSc Physics
MSci Physics
MSci Physics with Year Abroad

BSc Physics with Theoretical Physics
MSci Physics with Theoretical Physics

BSc Physics and Music Performance

Faculty of Medicine (Postgraduate)

Department of Medicine

MRes Molecular and Cellular Basis of Infection
MSc Applied Genomics
MSc Human Molecular Genetics
MSc Molecular Biology and Pathology of Viruses

Department of Surgery and Cancer

MRes Medical Robotics and Image Guided Intervention
MSc Health Policy
MSc Patient Safety

National Heart and Lung Institute

MSc Cardiovascular and Respiratory Healthcare
MSc Medical Ultrasound

12.4 The following Major Modifications were approved:

Imperial College Business School

MBA Programmes

Full Time MBA
Executive MBA
Weekend MBA
Global MBA

To add a new elective 'BS5521 Digital Transformation: Leading Real-World Change' to the above suite of programmes with effect from February 2019.

Full-Time MBA

To make changes to the assessment structure of the above programme with effect from September 2019.

Executive MBA

To make changes to the assessment structure of the above programme with effect from February 2020.

MSc Innovation, Entrepreneurship & Management

To make changes to the programme structure of the above programme by changing the 'BS1408 Project Management' module from core to elective and to add five elective modules available for selection with effect from September 2019.

MSc Business Analytics (On-Campus)

To make changes to the programme structure of the above programme by withdrawing two existing primer modules, introducing a new primer module, to make changes to the assessment methods, to change the credit weighting of the core and elective modules to align with the Learning and Teaching Strategy with effect from September 2019

MSc Business Analytics (Online)

To change the programme start date of the above programme from October to September with effect from September 2020.

MSc Finance & Accounting

To make changes to the programme structure of the above and to align with the Academic Standards Framework with effect from September 2019.

MSc Finance

To make changes to the programme structure of the above programme and to align with the Academic Standards Framework with effect from September 2019.

MSc Financial Technology

To make changes to the programme structure with effect from September 2019.

MSc Investment & Wealth Management

To make changes to the programme structure and to align with the Academic Standards Framework with effect from September 2019.

MSc Risk Management & Financial Engineering

To make changes to the programme structure of the above programme and to align with the Academic Standards Framework with effect from September 2019.

MSc International Management

To make changes to the programme structure of the above programme by changing the module 'BS0925 Global Immersion' from core to elective, changes to the assessment structure and changes to the learning outcomes of the modules: BS0946 Advanced Corporate Finance and BS0958 Leadership in Action with effect from September 2019.

MSc Strategic Marketing

To make changes to the core module 'BS1523 Entrepreneurial Strategy and Marketing Planning' including changes to the learning outcomes and to change to module title to 'Entrepreneurial Strategy' with effect from September 2019.

Faculty of Engineering

BEng | MEng Molecular Bioengineering (Department of Bioengineering)

To make changes to the above programme by replacing the withdrawn core module 'Bioengineering Solutions for Cancer' with 'Introduction to Cancer' with effect from October 2019.

MRes Bioengineering (Department of Bioengineering)

To make changes to the programme structure of the above programme including the withdrawal of four core modules and all elective choices, the introduction of new core modules 'Computational and Statistical Methods for Research', 'Topics in Biomedical Engineering' and 'Frontiers in Bioengineering Research' with effect from October 2019.

MRes Medical Device Entrepreneurship (Department of Bioengineering)

To make changes to the programme structure of the above programme including the review of the core module offering, the introduction of new core modules 'Computational and Statistical Methods for Research' and 'Topics in Biomedical Engineering and Business' with effect from October 2019.

MRes Neurotechnology (Department of Bioengineering)

To make changes to the programme structure of the above programme including the review of the core module offering, the introduction of new core modules 'Computational and Statistical Methods for Research' and 'Topics in Neural Engineering' and 'Frontiers in Neurotechnology Research' with effect from October 2019.

MSc Human and Biological Robotics (Department of Bioengineering)

To make changes to the programme structure of the above programme including the withdrawal of the core module 'Machine Learning and Neural Computation' and a review of the elective module offering with effect from October 2019.

Department of Computing

BEng Computing

MEng Computing

MEng Computing (Artificial Intelligence and Machine Learning)

MEng Computing (International Programme of Study)

MEng Computing (Management and Finance)

MEng Computing (Software Engineering)

MEng Computing (Visual Computing and Robotics)

BEng Mathematics and Computing

MEng Mathematics and Computing

MSc Advanced Computing

MSc Artificial Intelligence

MSc Computing (Artificial Intelligence and Machine Learning)

MSc Computing (Management and Finance)

MSc Computing (Software Engineering)

MSc Computing (Visual Computing and Robotics)

MSc Computing (Security and Reliability)

MSc Computing Science

To make changes to the programme structures of the above programmes including the change in the credit weighting of the core and elective modules to align with the Learning and Teaching Strategy and changes to the programme learning outcomes with effect from October 2019.

UG Design Engineering (2016-17 Cohort) (Dyson School of Engineering)

To make changes to the programme above including the credit weighting of modules to align to the changes implemented as part of Curriculum Review with effect from October 2019.

UG Design Engineering (2017-18 and 2018-19 Cohorts) (Dyson School of Engineering)

To consider: a proposal from the Dyson School of Engineering to make changes to the programme above including the credit weighting of modules, the restructure of the year 3 and 4 modules, and programme learning outcomes to align to the changes implemented as part of Curriculum Review with effect from October 2019.

UG Aeronautics (Department of Aeronautics)

MEng Aeronautical Engineering

MEng Aeronautical Engineering with Year Abroad

MEng Aeronautical Engineering with Year in Industry

MEng Aeronautics with Spacecraft Engineering

To make changes to the programmes above to align to the changes implemented as part of Curriculum Review with effect from October 2019.

MSc Future Power Networks (Department of Electrical and Electronic Engineering)

To make changes to the programme above to introduce a new module 'Selected Topics in Power Systems' and to change the module 'Optimisation' from core to elective with effect from October 2019.

Faculty of Natural Sciences

MRes Advanced Molecular Synthesis (Department of Chemistry)

To approve the 1+3 format of the above programme following the successful funding for an EPSRC CDT in Next Generation Synthesis and Reaction Technology with immediate effect.

MRes Chemical Biology: Multidisciplinary Physical Scientists for Next Generation Biological, Biomedical and Pharmaceutical Research & Development (Department of Chemistry)

To change the title of the programme above to 'MRes Chemical Biology and Bio-Entrepreneurship' with effect from October 2019.

MSc Physics with Quantum Dynamics (Department of Physics)

To introduce the new stream above to the programme MSc Physics with effect from October 2019 subject to conditions as recommended by the Programmes Committee.

Faculty of Medicine

MBBS Year 2

To approve changes made to the Year 2 Second Clinical Attachment of the programme above including changes to the learning outcomes, assessment and learning activities with from October 2019.

12.5 The following in-year Modifications were approved:

MRes Fluid Dynamics Across Scales (Department of Aeronautics)

To change the assessment weighting of the core module 'Computational Fluid Dynamics' in the above programme with immediate effect.

MRes Neurotechnology (Department of Bioengineering)

To change the structure of the above programme with immediate effect.

MSc Control Systems (Department of Electrical and Electronic Engineering)

To suspend the module 'Modelling and Control of Multi-body Mechanical Systems' and to withdraw the module 'Distributed Computation and Networks: A Performance Perspective' of the above programme with immediate effect.

MRes Clinical Research (Department of Medicine)

To make changes to the regulations of the programme above with immediate effect.

The Following in-year proposal from the Business School had been considered but the Committee had requested that the programme team review the parity of experience across the cohort by changing the assessment and if an alternative solution could be sought.

MSc Business Analytics (Online) (Imperial College Business School)

To change the exam format of the module 'Fundamentals of Database Technologies' of the above programme from a computer-based exam to a written exam due to take place July 2019.

12.6 The Committee approved the following programme suspensions:

MSc Concrete Structures & Business Management

MSc Structural Steel Design & Business Management

The Department of Civil and Environmental Engineering to continue the suspension of the above programmes for an additional year for the 2019-20 intake.

13 Faculty Education Committee

13.1 The Committee received a report from the Imperial College Business School Faculty Education Committee held on 26 February 2019.

QAEC.2018.75

14 Learning and Teaching Committee

14.1 The Committee noted the papers and minutes for Learning and Teaching Committee.

15 Any Other Business

15.1 No other matters of business were raised.

16 Dates for Meetings

16.1 The remaining dates for academic year 2018/2019 were noted as:
Wednesday 5 June 2019
Wednesday 3 July 2019 (additional meeting)

16.2 Proposed dates for 2019/2020 were approved as:
25 September (reporting to Senate on 9 October)
6 November (reporting to Senate on 11 December)
15 January (reporting to Senate on 11 March)
26 February (also reporting to Senate on 11 March)
22 April (reporting to Senate on 6 May)
3 June (reporting to Senate on 24 June)

It was noted the dates for Senate had yet to be approved.

17 Reserved Areas of Business

17.1 There was no reserved business.