Imperial College London

Programmes Committee (PC)
Tuesday 25 January 2022
10:00-13:00

Present
Dr Clemens Brechtelsbauer (Chair), Dr Lorraine Craig, Professor Richard Green, Ms Kate Ippolito, Dr Magdalena Jara, Mr Daniel Lo, Dr Felicitas Starr-Egger, Dr Vijay Tymms, Mr Scott Tucker, Dr Jeffrey Vernon, Ms Judith Webster, Ms Men-Yeut Wong (Secretary) and Ms Betty Yue.

Apologies
Dr Jo Horsburgh and Dr Mike Tennant (Deputy Chair).

1 **Welcome and Apologies**
   The Chair welcomed attendees to the meeting and apologies, as above, were noted.

2 **PC.2021.25 Minutes of the previous meeting**
   The minutes of the previous meeting held on 30 November 2021 were approved as an accurate record.

3 **Matters Arising**
   Members of the Programmes Committee agreed that an additional meeting of the Committee in March would be necessary to accommodate the major modification and Curriculum Review deadline. Members agreed the date of 22nd March 2022.

Items for consideration

4 **Curriculum Review**

   Faculty of Engineering

4.1 **PC.2021.26 MSc Advanced Materials for Sustainable Infrastructure**
   MSc Advanced Materials for Sustainable Infrastructure 1YFT (H2G1)
   MSc Advanced Materials for Sustainable Infrastructure 2YPT (H2G124)

4.1.1 The Programmes Committee considered the redesigned programme above from the Department of Civil and Environmental Engineering with effect from October 2022.

4.1.2 The Programmes Committee would like to thank the programme team as it was agreed that the proposal presented had been exemplary in all areas of the Curriculum Review process, that the redesign of the programme had been well thought through and that the proposal form had been detailed in demonstrating a clear alignment with the Learning and Teaching Strategy.

4.1.3 The Programmes Committee will be referring the request for Programme Specific Regulations to the next meeting of the Regulations and Policy Review Committee for consideration:

   In addition to the classification rules set above, the following rules apply:
   • Students must normally have no more than 10 credits below 60.00% in order to be awarded a distinction.
   • Students must normally have no more than 10 credits below 50.00% in order to be awarded a merit.

4.1.4 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022.

4.2 PC.2021.27 MRes Molecular Engineering

4.2.1 The Programmes Committee considered the redesigned programme above from the Department of Chemical Engineering/the Institute for Molecular Science and Engineering with effect from October 2022.

4.2.2 The Programmes Committee thanked the programme team as it was agreed that the redesigned programme had been well thought through and that the proposal had been detailed in demonstrating a clear alignment with the Learning and Teaching Strategy.

4.2.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022.

4.3 PC.2021.28 MSc Advanced Mechanical Engineering

4.3.1 The Programmes Committee considered the redesigned programme above from the Department of Mechanical Engineering with effect from October 2022.

4.3.2 The Programmes Committee thanked the programme team as it was agreed that the proposal presented had been exemplary with a detailed and well thought through rationale and approach taken to the Curriculum Review process. The Committee noted that the proposal form had been detailed in demonstrating an in-depth and clear alignment to the objectives set out in the Learning and Teaching Strategy.

4.3.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022.

Faculty of Natural Sciences

Department of Chemistry

The Programmes Committee thanked the Department of Chemistry as it was agreed that proposal presented had been exemplary with a detailed and well thought through rationale and approach taken to the Curriculum Review process.

4.4 PC.2021.29 MRes Advanced Molecular Synthesis

4.4.1 The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.4.2 The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate award will be offered on the programme;

- Review the Learning and Teaching Approach sections of the module outlines for Chemical Kinetics, Data Analytics in Chemistry, to ensure that they align to the level of detail with the other modules in the programme (best practice- the AMS Journal Clubs); this section should clearly set out how the module will be

delivered and how the different learning and teaching activities will support the students.

4.4.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.5 PC.2021.30 MRes Biological and Physical Chemistry

4.5.1 The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate award will be offered on the programme.

4.5.2 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.6 PC.2021.31 MRes Catalysis: Chemistry and Engineering

4.6.1 The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.6.2 The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate award will be offered on the programme;

- Proposal for Catalysis Research Project module - It was noted that the assessment length of the Research Proposal is different to the other research proposal assessments within the MRes portfolio, the programme team should review this to ensure that this is correct;

- The module CHEM97011 Sustainable Chemistry is included in the programme structure, the Department should consider how this will be managed if a student has already taken this module during their time on one of the Undergraduate MSci Chemistry programmes.

4.6.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.7 PC.2021.32 MRes Chemical Biology and Bio-Entrepreneurship

4.7.1 The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.7.2 The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate awards will be offered on the programme;

- Discussions held by the Programmes Committee queried that the name of the programme suggests that it would be preparing students for setting up their own start-ups / spin-outs, with (some) teaching that covered issues around Intellectual Property, business planning, raising funds, and so on. The programme learning outcomes are not centred around entrepreneurship, and the only module that might (the HackEdu) seems to be concerned with rapid prototyping which is important, but may not the most important skill for would-be entrepreneurs. The Programmes Committee was unsure if this should be a Chemistry and Business blended programme, and if it is, whether it should include more Business content. The Department are advised to review the module specifications, programme overview and programme learning outcomes to ensure that entrepreneurship is clearly detailed within the published information.

4.7.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above..

4.8 PC.2021.33 MRes Drug Discovery and Development: Multidisciplinary Science for Next Generation Therapeutics

4.8.1 The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.8.2 The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate awards will be offered on the programme;

- As the Term 1 and Term 2 modules for this programme are all available online, the Department should consider organising some cohort building activities on campus early on in the programme. The Learning and Teaching Approach section of the programme specification should include further information around the online tools which will be made available to enhance the learning environment.

4.8.3   The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.9   PC.2021.34 MRes Green Chemistry: Energy and the Environment

4.9.1   The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.9.2   The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate awards will be offered on the programme;

- It was noted that MRes programmes with heavily-weighted project modules can be very isolating for students, that having a module which spans all terms could be beneficial to help build some sort of a cohort;

- The module CHEM97011 Sustainable Chemistry is included in the programme structure, the Department should consider how this will be managed if a student has already taken this module during their time on one of the Undergraduate MSci Chemistry programmes.

4.9.3   The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.10   PC.2021.35 MRes Nanomaterials

4.10.1   The Programmes Committee considered the redesigned programme above from the Department of Chemistry with effect from October 2022.

4.10.2   The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee agreed that the Curriculum Review Proposal Form could be further developed by the Department considering how they will foster an inclusive and diverse culture and the use of online and digital tools to enhance the curricula;

- The programme may not be able to accommodate a Postgraduate Diploma as the project is 60 ECTS and the project proposal is 10 ECTS but programme team could still consider adding a Postgraduate Certificate. An academic rationale should be provided if neither exit nor intermediate awards will be offered on the programme;

4.10.3   The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

Department of Physics

4.11 PC.2021.36 MSc Optics and Photonics and MRes Photonics
MSc Optics and Photonics 1YFT (F3U4)
MSc Optics and Photonics 2YPT (F3U424)
MRes Photonics (F3U6

4.11.1 The Programmes Committee considered the redesigned programmes above from the Department of Physics with effect from October 2022.

4.11.2 The Programmes Committee agreed upon the following recommendations:

MSc Optics and Photonics
- Curriculum Review proposal form: The Committee noted that the programme team had removed overlaps in the curriculum within the core and compulsory modules to reduce workload, The Department should consider how will the programme team monitor this to reduce overlap of content in future;

- Programme weighting - Due to the overlap with the undergraduate Level 7 modules, and to permit increased choice, a student can chose to take 92.5 ECTS rather than 90 ECTS. The regulations as currently written do not state that this is not permitted. Students who take an additional 2.5 ECTS should be made aware of the additional workload before they select their electives and what this will mean that students should discuss with their programme lead/personal tutor before selecting the 7.5 ECTS modules;

- Programme overview - Ensure that this section is written in first person so that it addresses the student directly;
- Programme Learning Outcomes - Ensure that the learning outcomes align to a Level 7 FHEQ standard, it is recommended that the programme team liaise with the Educational Development Unit to review the programme learning outcomes;

- Progression and Classification - For the Exit awards, the rules note specific modules must be completed for each exit award. The Department should confirm that they intend this to be as prescriptive as described;

MSc Photonics
- Note the recommendations above from the MSc Optics and Photonics (programme weighting, programme overview and programme learning outcomes);

- Programme information - An academic rationale should be provided if neither exit nor intermediate awards will be offered on the programme.

- Assessment strategy – The Committee noted that the taught modules within this programme have a high level of examinations, with a low level of coursework components, the Department are encouraged to review this strategy to ensure that they align to the Learning and Teaching Strategy to include authentic assessments within the programme;

All module outlines
- Remove reference made to 'courses' when referring to 'modules' in the module outlines;

- Brief description for all modules should be written in the first person as much as possible;

- Review the Learning outcomes of all modules to ensure that they align to a Level 7 FHEQ standard, it is recommended that the programme team liaise with the Educational Development Unit to review the learning outcomes;

- Assessment strategy- check that these do not just list the assessments and should describe how the students will be assessed and how the learning outcomes will be tested, the Department should liaise with the Educational Development Unit if necessary;

- The Programmes Committee raised concern that almost all modules are 100% exam, as above in the main programme recommendations, the Department are advised to review the programmes assessment strategy;

- Within most module outlines there is a reference to "classworks" – it is not clear what these are, and how they may or may not relate to problem sheets;

- Self-study project: the module learning outcomes read as though they are modules than learning outcomes, suggested amendments e.g. "Appraise and interpret the scientific literature "Appraise and select appropriate tools";

- Masters Research Project: Suggested that more information is provided in the module content box; within the assessment tab: there is a zero-weighted assessment, Progress and future plans oral presentation, if this is a pass/fail component the 'Must Pass?' field should be marked as 'Yes'.

4.11.3   The programme team were advised that the recommendations above be considered and that the response to the recommendations be submitted to the Quality Assurance and Enhancement team. A re-review by the Programmes Committee Reviewers and Chair's Action would then be considered to approve the resubmitted documentation before presenting to the Quality Assurance and Enhancement Committee.

4.12   PC.2021.37 MSc Physics
MSc Physics (F3U1)
MSc Physics with Nanophotonics (F3U10)
MSc Physics with Quantum Dynamics (F3V1)
MSc Physics with Extended Research (F3U1R)

4.12.1   The Programmes Committee considered the redesigned programmes above from the Department of Physics with effect from October 2022.

4.12.2   The Programmes Committee agreed upon the following recommendations:

MSc Physics with Extended Research
- The Programmes Committee discussed the design of the 120 ECTS extended MSc programme. It was suggested if the programme could be rebranded as a Master of Research (MRes), or if the four electives could be removed and offer a 90 ECTS MSc with extended project. The programme overview should state the differences between each programme to advertise their unique selling points, in particular, for the MSc Physics with Extended Research;

- The programme structure allows for an exit/intermediate award of a Postgraduate Certificate. An academic rationale should be provided if neither an exit nor intermediate award will be offered on the programme.

All programmes:
- With the supervisor marks for Project components, and the Extended programme literature review. It was unclear to the Committee what would be assessed by the supervisor, and how is this audited or evidenced;

- Research computing module: can students appeal to the 'pool' of students if they don't get peer feedback? How do you promote the right spirit? (I like this module and its practical orientation, but the peer feedback needs to work);

- Programme weighting - To permit increased choice, a student can choose to take 92.5 ECTS rather than 90 ECTS. The regulations as currently written do not state that this is not permitted. Students who take an additional 2.5 ECTS should be made aware of the additional workload before they select their electives and what this will mean that students should discuss with their programme lead/personal tutor before selecting the 7.5 ECTS modules;

- Review the Learning outcomes of the following modules to ensure that they align to a Level 7 FHEQ standard, it is recommended that the programme team liaise with the Educational Development Unit to review the learning outcomes:
  - Introduction to Plasmonics and Metamaterials
  - Advanced Topics in Nanophotonics
  - Quantum Information
  - Quantum Optics

- The Committee also noted that the modules listed above have a high level of examinations, (100% examination), the Department are encouraged to review this strategy to ensure that they align to the Learning and Teaching Strategy to include authentic assessments within the modules, this will also ensure that students are not overburdened by examinations;

4.12.3   • The Programme team were advised that the recommendations above be considered and that the response to the recommendations be submitted to the Quality Assurance and Enhancement team. A re-review by the Programmes Committee Reviewers and Chair's Action would then be considered to approve the resubmitted documentation before presenting to the Quality Assurance and Enhancement Committee.

4.13 PC.2021.38 MSc Quantum Fields and Fundamental Forces

4.13.1   The Programmes Committee considered the redesigned programme above from the Department of Physics with effect from October 2022.

4.13.2   The Programmes Committee agreed upon the following recommendations:

- The Programmes Committee noted a heavy reliance on examinations within the assessment strategy, this would not normally align to the College's Learning and Teaching Strategy, but the Committee understood that as a long-standing and successful theoretical physics programme there were no concerns as to how the programme is delivered and assessed;

- The programme structure allows for an exit/intermediate award of a Postgraduate Diploma. An academic rationale should be provided if an exit award of the Postgraduate Diploma will be offered on the programme;

- Student consultation reported that during the recent lockdowns due to Covid-19, their sense of community had been damaged, it would be useful for the programme team to consult with students to ascertain how a sense of community can be maintained, how cohort building can be implemented. The programme team should consider promoting online community/interaction, given that this was a feature of the student experience that students highlighted. It was suggested that virtual meeting spaces or café could be set up;

The Programmes Committee noted the addition of Scaling within the Progression and Classification section of the programme specification, with the introduction of the College's Regulations for Taught Programmes of Study, it was not clear as to why scaling would be necessary and the Committee agreed that this would contradict the spirit of awarding credits which already carries the true weight of the student's work on the programme.

4.13.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.14 PC.2021.39 MSc Security and Resilience: Science and Technology
MSc Security and Resilience: Science and Technology 1YFT (F3SR)
MSc Security and Resilience: Science and Technology 2YPT (F3SR24)
PGDip Security and Resilience: Science and Technology 1YFT (F3SD12)
PGDip Security and Resilience: Science and Technology 2YPT (F3SD24)
PGCert Security and Resilience: Science and Technology 1YFT (F3C12)
PGCert Security and Resilience: Science and Technology 2YPT (F3C24)

4.14.1 The Programmes Committee considered the redesigned programme above from the Department of Physics with effect from October 2022.

4.14.2 The Programmes Committee agreed upon the following recommendations:

- Programme learning outcomes- The programme team should review how the learning outcomes are presented to prevent duplication in this section;

- The Programmes Committee noted the high level of examinations throughout the programme (70% examinations), with a low level of coursework components, the programme team is encouraged to review this strategy to ensure that they align to the Learning and Teaching Strategy to include authentic assessments within the programme. The programme team should also review this to ensure that students are not overburdened. Two examples of this: Introduction to Shock Physics, and the Sensors: Electronic and Natural module. There may be more scope for modelling tasks, case studies, scenarios, 'consultancy' type assignments. It may be that what is called an Exam does in fact use these formats;

- Noting the point above, with the high level of examination, it was unclear how some of the module learning outcomes would be tested. The assessment strategy field within the module specifications should set out how the module will be assessed (formatively and summatively) giving the types of assessment which are used and the frequency of the assessment and link to the Intended Learning Outcomes.

- The programme learning outcomes and a majority of the module learning outcomes have been well reviewed and align correctly to FHEQ Level 7. It was suggested that the learning outcomes for the following modules should be reviewed to remove the use of 'understand' as this does not align to FHEQ Level 7:
  o Sensors: Electronic and Natural
  o Security in Context

- Behavioural research methods module. The 600-word review is worth 10% of the assessment weighting. The programme team should review if this 10% correctly reflects the time the students will spend in sources, assessing and evaluating the papers in behavioural research. Review if the 90% examination give students the chance to show actively what they have learnt about behavioural research methods (this might be better tested by writing a proposal, as an extension of the 10% review, for example).

4.14.3 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from October 2022 subject to the recommendations noted above.

4.15 PC.2021.40 MRes Soft Electronic Materials

4.15.1 The Programmes Committee considered the redesigned programme above from the Department of Physics with effect from October 2022.

4.15.2 The Programmes Committee agreed upon the following recommendations:

Curriculum Review Proposal Form:
- The Programmes Committee agreed that it was good to see the consultation and involvement of students, staff and external stakeholders. The Department should confirm that the changes suggested by the stakeholders were incorporated into the final proposal;

- The programme team note they are keen to have changes in the future. It would be useful to articulate the timescale for these changes, and how the programme team will work with the Department or Faculty to monitor and progress these changes going forwards;
- The Programmes Committee welcomed the inclusion of journal clubs, mid-year presentations, preparing for Writing a PHD proposal, and using the change to remote learning to enable more hands on modelling work;

- The Programmes Committee agreed that the Department made a notable effort to amending the impact of the supervisor. While it is really only the supervisor who knows how much the student has really done, nonetheless, it was suggested that the impact of the supervisor is reduced even further, or removed completely. For example, there may be a staff-student issue that has not quite come to light, and the student could be severely impacted by this.

- Second marking of projects: Regulations require projects to be blind double marked. The programme teams should review if the supervisor sufficiently independent to do this. With blind double marking, the regulations allow that if the discrepancy is ≤5%, then an average can be taken. Given the proportion of the mark to the overall degree outcome (67%), and comments made by the External Examiner, it was recommended that the programme team re-consider this.

Programme Specification:
- The programme structure allows for an exit/intermediate award of a Postgraduate Certificate. An academic rationale should be provided if neither an exit nor intermediate award will be offered on the programme;

- Ensure that the programme overview is written in first person as this is directed towards applicants;

- Ensure that the programme learning outcomes align to a Level 7 FHEQ standard, it is recommended that the programme team liaise with the Educational Development Unit to review the programme learning outcomes;

- The assessment strategy should include practicals, as oral presentations are categorised as practical assessments

Module Specification:
- Review the Learning outcomes of all modules to ensure that they align to a Level 7 FHEQ standard, it is recommended that the programme team liaise with the Educational Development Unit to review the learning outcomes;

- It was unclear why lecture notes were included as reading material within the 'Reading List' section of each module. It was also noted that "All those textbooks and reading materials are provided by lecturers of each module and

they are fully optional" the programme team should consider including the reading list in this section even if they are optional;

- Ensure that all overall module pass marks are set at 50%;

- Master's Research Project- Please ensure that the balance of study hours is correct, in particular, 750 hours allocated to Lab/practical and 300 hours allocated to Independent study.

4.15.3 The Programme team were advised that the recommendations above be considered and that the response to the recommendations be submitted to the Quality Assurance and Enhancement team. A re-review by the Programmes Committee Reviewers and Chair's Action would then be considered to approve the resubmitted documentation before presenting to the Quality Assurance and Enhancement Committee.

5 Major Modifications to Existing Programmes

Faculty of Medicine

5.1 PC.2021.41 MBBS/BSc Medicine

5.1.1 The Programmes Committee considered a proposal from the School of Medicine to create four new Phase 3 Modules with effect from July 2022 for Year 5 and July 2023 for Year 6.

5.1.2 **Phase 3a changes with effect from October 2022**
Withdraw the following modules:
- Child Health (10 ECTS)
- Women's Health Psychiatry (10 ECTS)
- The Ageing Patient (10 ECTS)
- Surgery and Cancer (10 ECTS)
- Medicine (10 ECTS)
- General Practice and Primary Healthcare (10 ECTS)
- Specialty Choice 1 (5 ECTS)
- Clinical Reasoning (5 ECTS)

Add the following new modules:
- Patients, Communities and Healthcare 3a (60 ECTS)
- Pathology (5ECTS)

Phase b changes with effect from October 2023
Withdraw the following modules:
- Acute Care (20 ECTS)
- General Practice Student Assistantship (10 ECTS)
- Specialty Choice Module 2 (10 ECTS)
- Student Apprenticeship (30 ECTS)
- Elective (10 ECTS)

Add the following new modules:
- Patients, Communities and Healthcare 3b (40 ECTS
- Preparedness for Practice (20 ECTS)

5.1.3 The Programmes Committee agreed upon the following recommendations:

- That a clear rationale be provided for the changes proposed, the rationale provided with the proposal does not detail why the proposal differs so much from the initial Curriculum Review proposal;

- The Chair would like to remind the Programme Team that guidance from the Chair should be sought when proposing a modification with an exception to the College Regulations.

The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from July 2022 subject to the recommendations noted above.

Imperial College Business School

5.2 PC.2021.42 MSc Financial Technology and MSc Risk Management and Financial Engineering

5.2.1 The Programmes Committee considered a proposal from the Business School to make an in-session modification to make available 'Real Estate Investment' (BUSI97064) as an elective to the named programmes above with immediate effect.

5.2.2 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

5.3 MRes Business (1 Year, Full-time)

5.3.1 The Programmes Committee considered a proposal from the Business School to make an in-session modification to add a new elective module 'Algorithms and Computational Micro-Metrics' on the MRes Business programme with immediate effect.

The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

5.4 MBA Suite
Executive MBA
Full Time MBA
Weekend MBA
Global Online MBA

5.4.1 The Programmes Committee considered a proposal from the Business School to make an in-session modification to add a new elective module 'Sales Management' on the named programme above with immediate effect.

5.4.2 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with immediate effect.

6 Short Courses

6.1 Faculty of Medicine Summer School

6.1.1 The Programmes Committee considered a proposal from the Faculty of Medicine to change the duration of the short course 'Faculty of Medicine Summer School' from 3 weeks to '2-4 weeks' with effect from July 2022.

6.1.2 The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from July 2022.

6.2 Faculty of Medicine Summer School – Mini Research Project

6.2.1 The Programmes Committee considered a proposal from the Faculty of Medicine to introduce a new short course 'Faculty of Medicine Summer School – Mini Research Project' with effect from June 2022.

6.2.2   The Programmes Committee agreed to recommend the proposal to the Quality Assurance and Enhancement Committee for approval with effect from June 2022.

7   Chair's Action

7.1   In-session Minor Modification (Effective January 2022), Department of Mathematics, MSc Machine Learning and Data Science – Applicable Mathematics (MATH70095)

To consider an in-session modification from the department of Mathematics to change the assessment 'must pass' rule for the module 'Applicable Mathematics' to pass/fail with immediate effect.

7.2   In-session Minor Modification (Effective January 2022), Department of Mathematics, MSc Machine Learning and Data Science – Ethics in Da\ta Science and Artificial Intelligence (MATH70098)

To consider: an in-session modification from the department of Mathematics to change the assessment weighting for the module 'Ethics in Data Science and Artificial Intelligence' with immediate effect.

7.3   Major Modification (Effective October 2021), Department of Life Sciences.

BSc Microbiology
The following elective modules should be removed from the programme specification:
Plant Biotechnology & Development
Integrative Systems Biology
Bioinformatics

BSc Biotechnology with Management (4 year)
The following elective module should be removed from the programme specification:
Computational 'Omics. Topics in Biotechnology should be designated as a core module

BSc Biotechnology with French for Science
BSc Biotechnology with German for Science
BSc Biotechnology with Spanish for Science
The following elective module should be removed from the programme specification:
Computational 'Omics.

Topics in Biotechnology should be designated as a core module

BSc Biotechnology
The following elective modules should be removed from the programme specification:
Computational 'Omics.
Challenges in Cell Biology
Applied Molecular Biochemistry

Topics in Biotechnology should be designated as a core module

BSc Biotechnology with Research Abroad
BSc Biotechnology with a Year in Industry/Research
The following elective module should be removed from the programme specification:
Computational 'Omics.

Topics in Biotechnology should be designated as a core module

For all the above the correct modules are listed in the scheme for the award of honours which has been made available to all students. This is to tidy up the published information.

7.4   In-session Minor Modification (Effective September 2021), Finance Suite - Climate Finance elective

New elective 'Climate Finance' to be made available on all Finance Suite programmes.

8   Dates of Future Meetings

Tuesday 29 March 2022, 10:00-13:00
Tuesday 21 June 2022, 10:00-13:00