IMPERIAL

Programmes Committee (PC)
Minutes from the meeting held on:
Thursday 20 March 2025 (confirmed)

Present
Dr Clemens Brechtelsbauer (Chair), Ms Laura Gardner (Secretary), Dr Tiffany Chiu, Dr Cloda Jenkins (left at 11:15), Dr Michael Weatherburn, Mr Scott Tucker, Ms Judith Webster, Dr William Cox, Dr Jeffrey Vernon, Dr Elaina McGinn, Dr Lorraine Craig, Dr Errikos Levis (attended from 10:50), Dr Kate Ippolito, Ms Betty Yue, Dr Vijay Tymms, Dr Derek Huntley, Dr Christopher Ford, Ms Emina Hogas, Professor Alessandro Astolfi

In attendance
Ms Amy Huynh, Dr Huw Williams, Dr Shamith Samarajiwa, Ms Fiona Bibby

Apologies
Dr Magdalena Jara, Ms Camille Boutrolle

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

Vijay Tymms was welcomed back as an extraordinary committee member for the remainder of the academic year. The Chair thanked Vijay and Jeffrey Vernon for supporting the two new Natural Sciences representatives as part of the onboarding process for Programmes Committee.

The Chair welcomed Derek Huntley and Christopher Ford as representatives for the Faculty of Natural Sciences.

Huw Williams, Shamith Samarajiwa and Fiona Bibby were welcomed as representatives for the two new programme proposals, to be discussed under items PC.2024.25 and PC.2024.26.

2. Report of the previous meeting
The minutes of the previous meeting held on Thursday 30 January 2025 were confirmed as an accurate record.

3. Matters arising from minutes
There were no matters arising.

ITEMS FOR CONSIDERATION

4. New programme proposals

Faculty of Natural Sciences

4.1 PC.2024.25 Department of Life Sciences
MSci Biochemistry
MSci Biological Sciences
MSci Biotechnology

To consider three new programme proposals from the Department of Life Sciences, with effect from October 2026.

4.1.1 The Chair confirmed the proposal has been approved by the Admissions Sub-Committee (ASC).

PC commended the presentation of the programme proposals, agreeing it should be utilised by the university as a best practice example. Feedback provided by one of the external industrial reviewers, notable for combining relevance with conciseness, was noted as exemplary.

PC were supportive of the proposal and suggested the following feedback which is not preventative in progressing the proposal:

- The proposal includes reference to cross-disciplinary opportunities with the new Convergence Schools of Science. Consider how the team will embed this on each programme, e.g. via interdisciplinary MSci projects.
- Clarify expectations around students being on campus from October to June, if the Year 4 project deadline is in May.
- Consider how the programme team will balance and manage student numbers, especially as the BSc and MSci awards have similar entry requirements.
- Consider how the new MSci modules will be resourced to ensure teaching staff are not overloaded.
- Review the programme and module specifications to ensure student-facing language is used and correct any typographical errors.

4.1.2 PC agreed to recommend the proposal to QAEC for **approval**.

Faculty of Medicine

4.2 PC.2024.26 Department of Metabolism, Digestion and Reproduction
MSc Computational Biomedicine

To consider a new programme proposal from the Department of Metabolism, Digestion and Reproduction, with effect from January 2026.

4.2.1 The Chair confirmed the proposal has been approved by the Admissions Sub-Committee (ASC).

The committee were supportive of the well-considered programme proposal, noting a clear rationale had been provided.

PC approved the proposal subject to the following recommendations:

- Confirm if students are expected to attempt all summative and formative assessment components to pass a module (Form E).

- Remove reference to the 'Rule of progression: students must attempt all assessments' from the 'Machine Learning for Translational Neuroscience' module specification.
- Confirm the core time zone for the programme's delivery in the programme specification and associated marketing materials. This includes outlining requirements and expectations for attending live lectures, live tutorials, assessments, examinations, and 'team-based learning activities' etc.
- Clarify requirements and expectations for PGCert and MSc students to source and use virtual reality headsets throughout paperwork. If required, associated costs and requirements should be outlined under the additional costs section on the programme specification and referenced in associated marketing materials.
- Consider including a statement on which programming language(s) will be used and/or taught, in the programme specification and associated marketing materials.
- Regarding research projects, confirm there will be sufficient projects to allocate to students each year, including those proposed from other departments and institutes within the Faculty of Medicine.
- Clarify requirements and expectations around synchronous and asynchronous teaching activities, to ensure teaching and pastoral support workloads are sufficiently balanced.
- Consider how potential ethical issues of accessing worldwide databases will be managed throughout the programme. For example, will all students be able to access the same datasets from their home countries? Consider including ethical access to databases in staff training exercises, alongside copyright and licensing restrictions.
- Confirm that 'opportunities for students to give feedback and receive details of any action taken' will include university-wide governance structures such as the Staff-Student Committee.
- Form C states that 'master's students will select a research project, from the projects offered by PIs in the departments of the Faculty of Medicine as well as other associated institutes.' Clarify how this aligns with the expectation that students will 'formulate original ideas, develop independent research plans and critically evaluate the work of others, as expected at FHEQ level 7.'
    - If students are selecting from predefined research projects, does this limit their opportunity to meet the expectation?
    - Would it be more effective to allow students greater flexibility to develop their own research focus?
    - Could there be scope for students to shape their projects to foster independent inquiry?
- Provide a brief visual representation of how the September and January cohorts will progress throughout the programme. Indicate how both cohorts will merge into module 2.
- Consider potential issues associated with the online delivery model. For example, how will the programme team address issues around the psychology of remote learning, as well as replicate social interactions and cohort building exercises using online platforms and VR-headsets.
- Regarding the accessibility and reliability of technology delivery systems (Form E), confirm that the programme proposal has been discussed with ICT colleagues.
- Review the programme and module specifications to ensure student-facing language is used and correct any typographical errors.

4.1.2 PC advised that the recommendations above be considered and that the updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from September 2026.

5. Major modifications

Imperial College Business School

5.1 **PC.2024.23 Imperial College Business School**
MSc Climate Change, Management & Finance (N304)
MSc Climate Change, Management & Finance (MSc 16MFT) (N3042.1)

To consider a major modification proposal from the Imperial College Business School to make the following changes to the named programmes above, with effect from September 2025:

a) Update the rules by which students choose their elective modules.
b) Change the module designation from compulsory to elective for the modules 'Innovation in Cleantech and Climate Change Solutions' (BUSI70424), 'Climate Finance: A Global Overview' (BUSI70423), 'Financial Markets and Climate Change' (BUSI70433) and 'Energy Business and Strategy' (BUSI70422),
c) Remove the compulsory module 'Individual Report' (BUSI70425).
d) Introduce the new compulsory module 'Bridging Knowledge and Practice: Climate and Business Perspectives'.
e) Add the new elective module 'Individual Research Project' on the 12-month programme only (minor modification).
f) Remove the elective 'Sustainable Consumption and Climate Change' (BUSI70350).

5.1.1 PC approved the proposal subject to the following recommendations:

- Provide confirmation of the external examiner agreeing that the programme learning outcomes have been maintained, following the removal of compulsory modules.
- Update the 'balance of assessment' section on the programme specification so it accurately reflects the assessment strategy of the new compulsory module, 'Bridging Knowledge and Practice: Climate and Business Perspectives'. The programme specification indicates all compulsory modules have a 60% coursework/40% exam split.

PC also suggested the following feedback which is not preventative in progressing the proposal:

- Consider how students will be advised on elective selection for the 'non-binding pathways.' For example, consider tutor input and the inclusion of guidance in the programme handbook.
- For the new compulsory module, 'Bridging Knowledge and Practice: Climate and Business Perspectives':
    - Consider how staff will be able to consistently keep track of student contribution in class.

- A module learning outcome requires the development of 'effective communication strategies …to both specialist and non-specialist audiences.' Consider how the assessment will distinguish between the two reader profiles for the "summaries" assessment component.

5.1.2 PC advised that the recommendations above be considered and that the updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from September 2025.

5.2 PC.2024.24 Imperial College Business School
MRes Business (1 year) (N1UQ)
MRes Business (2 years) (N1UQ2)

To consider a major modification proposal from the Imperial College Business School to make the following changes to the named programmes above, with effect from September 2025:

a) Raise the module overall mark requirement from 60% to 65% for the progression to a PhD.
b) Change the module designation of 'Topics in Finance' (BUSI70567) from elective to compulsory on the 2nd year of the Finance pathway on the MRes Business (2 year) programme.
c) Change the module learning outcomes, description, content, learning and teaching approach and assessments for the compulsory module 'Data Analysis Tools' (BUSI70165).
d) Withdraw the elective modules 'Applied Microeconometrics 2' (BUSI70191), 'Econometrics 2' (BUSI70319), 'Social Data Science' (BUSI70178) and 'Social Network Analysis' (BUSI70179) from the named programmes above.
e) Withdraw the elective modules 'Probability and Stochastic Processes' (ELEC70048), 'Traffic Theory and Queuing Systems' (ELEC70067), 'Optimisation' (ELEC70098) and 'Information Theory' (ELEC70070) from the MRes Business (1 year) programme.

5.2.1 PC approved the proposal subject to the following recommendations:

- For the compulsory module, 'Data Analysis Tools' (BUSI70165):
  - Clarify the ECTS credit value associated with the module.
  - Consider reviewing the feedback section on the module specification to indicate that students will receive feedback from self-assessment, tutorials etc.
  - Reconsider whether students could achieve the module learning outcome 'Develop new analytic and numerical techniques' in a 2-hour examination. The programme team are encouraged to revisit the learning outcome and/or module assessment strategy.

5.2.2 PC advised that the recommendations above be considered and that the updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from September 2025.

Faculty of Engineering

5.3 PC.2024.27 Department of Bioengineering
BSc Biomedical Technology Ventures

To consider a major modification proposal from the Department of Bioengineering to add a Year in Industry pathway to the named programme above, with effect from October 2025.

5.3.1 The Chair confirmed the proposal has been approved by the Admissions Sub-Committee (ASC).

The committee commended the introduction of the pathway, noting the proposal is in response to student and employer feedback.

PC suggested the following feedback which is not preventative in progressing the proposal:

- On the programme specification and associated marketing materials, outline how and when students can transfer to the new pathway, including any requirements.
- The programme team are encouraged to coordinate placement opportunities with the central Careers Service as well as within the department.

5.3.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.4 PC.2024.28 Department of Bioengineering
MRes Medical Device Design and Entrepreneurship (H673U)
MSc Biomedical Engineering (B9A1)
MSc Human and Biological Robotics (BHM1)
MSc Engineering for Biomedicine (HB90)
MRes Bioengineering (H673T / H673E)
MRes Cancer Technology (AC3T)
MRes Neurotechnology (H6NU)

To consider the following major modification proposals from the Department of Bioengineering to make changes to the named programmes above, with effect from October 2025:

Modification form 1

a) Remove the compulsory module 'Probability Data Analysis' (BIOE70027) and replace it with 'Computational and Statistical Methods for Research' (BIOE70037).
b) Update the title, learning outcomes and assessment strategy of the compulsory module 'Computational and Statistical Methods for Research' (BIOE70037).

Modification form 2 (H673U only)
To consider a major modification proposal from the Department of Bioengineering to make the following changes to the MRes Medical Device Design and Entrepreneurship programme, with effect from October 2025:

a) Update the module learning outcomes, description learning and teaching approach, assessment strategy, assessments, reduce the ECTS credits from 55 to 45 and change the module title of the core module ‘Medical

Device Design and Entrepreneurship Research Project' (BIOE70041) to Medical Device Design and Entrepreneurship Research and Development Project'.

b) Remove the compulsory module 'Topics in Biomedical Engineering and Business' (BIOE70042).
c) Add 'Medical Device Certification' (BIOE70028) as a compulsory module.
d) Update the module learning outcomes, description, content, assessment
e) strategy, assessments; change the module designation from compulsory to core and update the module title from 'Planning for Medical Device Entrepreneurship' (BIOE70044) to 'Market Analysis for Medical Device Entrepreneurship'.

5.4.1 The committee commended the presentation of well-articulated and informed proposals, noting the realignment of the MRes structure with the MSc format enhances the programme's relevance.

PC suggested the following feedback which is not preventative in progressing the proposal:

- Regarding the introduction of compulsory module 'Computational and Statistical Methods for Research' (BIOE70037):
    - Consider how co-delivery will impact the student learning experience for MSc and MRes cohorts. For example, will sufficient support be provided or will there be differentiation for students at different levels.
    - The committee noted that the number of assessment components has been reduced. Consider rebalancing the assessment strategy to a 60% final exam and 40% mid-term, to help reduce student stress and better reflect the overall learning.
- Regarding the alignment of the MRes structure with the MSc format:
    - Consider including supporting data or alumni insights that explicitly demonstrate the proportion of graduates pursuing industry roles rather than PhDs.
    - To ensure students continue to receive meaningful hands-on experience in project work, outline a structured approach for project selection and quality assurance.
    - Clarify how supervision and mentoring will be adapted to accommodate a larger cohort. For example, will there be additional faculty or industry engagement to maintain high-quality project support?
- As 'Medical Device Certification' (BIOE70028) has been added as a compulsory module, consider whether students will have sufficient flexibility to tailor their learning experience through other elective choices.
- Regarding the proposed award modification for implementation in 2026/27 (not considered at this meeting):
    - Consider associated changes and implications with external accreditation.
    - Prepare a clear communication strategy for current and prospective students. This includes reference to applicants for 2025/26 as well as potential impact on alumni.

5.4.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.5 PC.2024.29 Department of Bioengineering
MEng Biomedical Engineering (BH9C)
MEng Biomedical Engineering with a Year Abroad (BHV1)
MEng Biomedical Engineering with a Year in Industry (BHV2)
BEng Biomedical Engineering (BH81)
MEng Molecular Bioengineering (H160)
MEng Molecular Bioengineering with a Year in Industry (H162)
MEng Molecular Bioengineering with a Year Abroad (H163)
BEng Molecular Bioengineering (H161)
MSc Biomedical Engineering (B9A1)

To consider the following major modification proposals from the Department of Bioengineering, with effect from October 2025:

Modification form 1
Remove the elective module 'Communicating Biomedical Science and Engineering' (BIOE60016) from all the undergraduate programmes named above.

Modification form 2

a) Remove the elective modules 'Biomaterials for Bioengineers' (BIOE70033), 'Biomechanics' (BIOE60014). 'Tissue Engineering and Regenerative Medicine' (BIOE60013) from the 4th year of the MEng Biomedical Engineering programme.
b) Remove the elective modules 'Biomaterials for Bioengineers' (BIOE60034 / BIOE70033), 'Biomechanics' (BIOE60014) and 'Tissue Engineering and Regenerative Medicine' (BIOE60013) from the 5th year of the MEng Biomedical Engineering with a Year in Industry programme.

Modification form 3
Remove the elective modules 'Molecular and Tissue Imagine' (BIOE70018), 'Bits, Brains and Behaviour' (BIOE70009) and 'Hearing and Speech Processing' (BIOE70015) from the MEng Biomedicine Engineering and MEng Biomedical Engineering with a Year in Industry programmes.

Modification form 4
Remove the elective modules 'Optoelectronics' (ELEC60023), 'Design-led Innovation and Enterprise' (DESE61004), 'Probabilistic Inference' (COMP70019), 'Biomaterials' (MATE60006), 'Advanced Tissue Engineering' (MATE70016), and 'Advanced Biomaterials' (MATE70018) from the MEng Biomedical Engineering, MEng Biomedical Engineering with a Year Abroad and MEng Biomedical Engineering with a Year in Industry programmes.

Modification form 5
Change the rules by which students select their elective modules in their final year for the MEng Biomedical Engineering and MEng Biomedical Engineering with a Year in Industry programmes.

Modification form 6
Change the module learning outcomes for the compulsory modules 'MEng Individual Project' (BIOE70004) and 'MEng Molecular Bioengineering Individual Project' (BIOE70057).

Modification form 7
Update the learning outcomes and assessment for compulsory module 'Molecular, Cell and Tissue Biomechanics' (BIOE70017).

Modification form 8
Update the module description, content and learning outcomes for module for compulsory module 'Non-ionising Functional and Tissue Imaging' (BIOE70035).

Modification form 9
Update the learning outcomes and module content for compulsory module 'Orthopaedic Biomechanics' (BIOE70019).

5.5.1 PC were supportive of the well-considered proposal, noting the individual modifications are formalising existing practice or are informed by external factors.

PC suggested the following feedback which is not preventative in progressing the proposal:

- For 'MEng Molecular Bioengineering Individual Project' (BIOE70057), clarify whether the 0% coursework 'presentation' component is formative and/or 'must-pass'.
- Correct the year weightings for the MEng awards in the MEng Biomedical Engineering (Y3 and Y4), MEng Biomedical Engineering with a Year Abroad (Y3 and Y4), MEng Biomedical Engineering with a Year in Industry (Y3 and Y5), MEng Molecular Bioengineering (Y3 and Y4), MEng Molecular Bioengineering with a Year Abroad (Y3 and Y4) and MEng Molecular Bioengineering with a Year Abroad (Y3 and Y5) programme specifications, to align with the academic regulations.

5.5.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.6 PC.2024.30 Dyson School of Design Engineering MEng Design Engineering (28G3)

To consider a major modification proposal from the Dyson School of Design Engineering to make the following changes to the named programme above, with effect from October 2025:

a) Introduce a BEng (Ordinary) exit award.
b) Explicitly note the aggregate mark rules for the compulsory I-Explore module, the core modules 'Design Engineering Industry Placement (Part 1)' and 'Design Engineering Industry Placement (Part 2)'.
c) Remove the elective module 'Distributed Ledger Technologies' (DESE71007).
d) Add the existing electives 'Inferential Statistics and Casual Reasoning' (DESE71017) and 'Sustainable Design and Strategy' (DESE71018).
e) Update the module learning outcomes, assessments, module description and assessment strategy for the core module 'Design Engineering Principles' (DESE40002).
f) Update the module learning outcomes, module content, assessment strategy and assessments for the core module 'Sustainable Design Engineering' (DESE50007).
g) Change the learning outcomes and assessment structure for the core module 'Innovation and Entrepreneurship' (DESE60003).

5.6.1 PC acknowledged why the programme team are proposing to explicitly note the aggregate mark rules for the I-Explore and 'Design Engineering Industry Placement' modules (modification b). However, it was agreed that modules should not be recorded as a given credit but weighted differently.

PC approved the proposal subject to the following recommendation:

- Consider reflecting the aggregate mark rules in the programme set-up. For example, the programme team could request the set-up of a zero-weighted pass/fail placement module for 'Design Engineering Industry Placement Part 1' and 'Design Engineering Placement Part 2' and a 5 ECTS module to capture the assessed reflection, as a contributable component of the yearly and programme aggregate marks.

PC also suggested the following feedback which is not preventative in progressing the proposal:

- Clarify what is required for the 'linked presentation and exhibition' assessment component, and how it relates to the project portfolio and presentation in the assessment tab, on the 'Design Engineering Principles' (DESE40002) module specification.
- The assessment strategy for 'Sustainable Design Engineering' (DESE50007) requires students to 'work individually and in groups on a sustainable design challenge'. Ensure grading metrics and sufficient guidance is provided on each component to avoid student plagiarism between individual and group work on the same topic.
- With the institutional move towards a reduction in assessment, reconsider the number of learning outcomes, and the addition of a group presentation assessment component on the module 'Innovation and Entrepreneurship' (DESE60003).

5.6.2 PC advised that the recommendation above be considered and that the updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.7 PC.2024.31 Dyson School of Design Engineering MSc Cleantech Innovation (H4C1)

To consider a major modification proposal from the Dyson School of Design Engineering to make the following changes to the named programme above, with effect from October 2025:

a) Remove the compulsory module 'Design Engineering Tools for Cleantech Entrepreneurs' (DESE70043) and replace it with the existing module 'Design Engineering Practice' (DESE71009).
b) Reduce the credit value from 10 ECTS to 5 ECTS for the core module 'Climate Change for Cleantech Innovators' (DESE70042) and change the elective requirement from two to three 5 ECTS modules.
c) Update the learning outcomes for the core modules 'Cleantech Innovation Project Part 2' (DESE70040) and 'Cleantech Innovation Project Part 3' (DESE70041).
d) Update the portfolio of elective modules.

5.7.1 PC were supportive of the proposal and suggested the following feedback which is not preventative in progressing the proposal:

- Review the programme and module specifications to ensure 'learning outcomes' rather than 'learning objectives' is used and correct any typographical errors.

5.7.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.8 PC.2024.32 Dyson School of Design Engineering MA/MSc Innovation Design Engineering (H3D6)

To consider a major modification proposal from the Dyson School of Design Engineering to make the following changes to the named programme above, with effect from October 2025:

a) Update the assessments and assessment weightings for 'IDE Fundamentals' (DESE70017) and 'Cyber Physics Systems' (DESE70023).
b) Change the learning outcomes for the core modules 'Transdisciplinary Practices' (DESE70018), 'Regenerative Materials and Structures' (DESE70030), 'Impact' (DESE70019), 'Sustainable Systems' (DESE70020), 'Agency and Implementation' (DESE70021), 'Professional Consolidation (part 1)' (DESE70031), 'Transdisciplinary Teamwork and Leadership' (DESE70033), 'Context Exploration – Masters Project' (DESE70028), 'Iterative Development – Masters Project' (DESE70034).
c) Change the assessment weightings for the core module 'Professional Consolidation (part 2)' (DESE70032).
d) Update the teaching delivery information for the core module 'Validated Delivery – Masters Project' (DESE70022).

5.8.1 The Chair confirmed that MA/MSc Innovation Design Engineering is a double degree award programme, delivered by Imperial and the Royal College of Art (RCA). The proposal has been developed by academic and teaching staff at both Imperial and the RCA.

PC approved the proposal subject to the following recommendations:

- Reconsider the weighting of oral and visual assessment in all module assessment strategies. The programme team should clarify the assessment criteria and are encouraged to consider that a heavy emphasis on presentation skills may disadvantage students who are less confident in verbal communication, even if they have strong analytical capabilities.
- Confirm whether the RCA has approved the proposed changes via their quality assurance processes.

5.8.2 PC advised that the recommendations above be considered and that the updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.9 PC.2024.33 Department of Earth Science and Engineering MSc Metals and Energy Finance (J9U8)

To consider a major modification proposal from the Department of Earth Science and Engineering to change the named programme above to MSc Responsible Mining and Metals Finance and to restructure the programme by replacing 3 core modules with 4 new compulsory modules, with effect from October 2025.

5.9.1 PC suggested the following feedback which is not preventative in progressing the proposal:

- Consider reducing the assessment strategy for the four new compulsory modules. The committee note the team will be reviewing programme and module assessment requirements via the assessment and feedback reduction initiative. In the meantime, the programme team are encouraged to contact Kate Ippolito to discuss how to ensure the assessment requirements are commensurate with a 7.5 ECTS module.

5.9.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.10 PC.2024.34 Department of Electrical and Electronic Engineering
BEng Electrical and Electronic Engineering (H600)
MEng Electrical and Electronic Engineering (H604)
MEng Electrical and Electronic Engineering with Management (H6N2)
MEng Electrical and Electronic Engineering with a Year Abroad (H601)
BEng Electronic and Information Engineering (HG65)
MEng Electronic and Information Engineering (GH56)
MEng Electronic and Information Engineering with a Year Abroad (HG6M)
MSc Analogue and Digital Integrated Circuit Design (H6W8)
MSc Communications and Signal Processing (H6U8)

To consider the following major modification proposals from Department of Electrical and Electronic Engineering to make the following changes to the named programmes above, with effect from October 2025:

<u>Modification form 1</u>
To make the following changes to meet the external accreditor (IET) requirements:

a) Change the module learning outcomes, learning and teaching approach, assessment strategy and assessment for the core modules 'Electronics Design Project 1' (ELEC40006) and Electronics Design Project 2' (ELEC500015)
b) Change the module learning outcomes, assessment strategy and assessments for the elective module 'MEng Group Project' (ELEC60014).
c) Change the module learning outcomes and assessment strategy for the elective module 'Individual Industrial Placement' (ELEC60016).

<u>Modification form 2</u>
Change the module learning outcomes, description, content, learning and teaching approach, assessment strategy, assessments and module title for the core module 'Topics in Electrical Engineering' (ELEC40009) to 'Device, Power and Communications'.

<u>Modification form 3</u>

Remove the 15 ECTS core module 'Mathematics 1' (ELEC400012) and replace it with two new 7.5 ECTS core modules 'Mathematics 1A' and 'Mathematics 1B'.

Modification form 4
Change the assessments and remove the pre-requisites for the core module 'Electromagnetism' (ELEC50007).

Modification form 5
Change the module learning outcomes and content for the core module 'Information Technology' (ELEC50009).

Modification form 6
Change the module learning outcomes, description, content, assessment strategy and assessments for the core module 'Software Systems' (ELEC50014).

Modification form 7

a) Remove the elective module 'Optoelectronics' (ELEC60023) from BEng Electrical and Electronic Engineering, MEng Electrical and Electronic Engineering, MEng Electrical and Electronic Engineering with a Year Abroad and MEng Electrical and Electronic Engineering with Management programmes.
b) Remove the elective module 'Optoelectronics' (ELEC70058) from the MSc Analogue and Digital Integrated Circuit Design programme.

Modification form 8

a) Change the module learning outcomes, description, content, learning and teaching approach, assessment strategy and assessments for the compulsory modules 'Professional Competencies Portfolio with Industrial Experience' (ELEC70107) and 'Professional Competencies Portfolio' (ELEC70108).
b) Remove the compulsory modules 'Professional Competencies Portfolio with Industrial Experience' (ELEC70107) and 'Professional Competencies Portfolio' (ELEC70108) and replace them with two new compulsory modules, 'Professional Competencies Portfolio for Year Abroad' and 'Professional Competencies Portfolio with Industrial Experience for Year Abroad' for the Year Abroad programmes named above.

Modification form 9
Remove the elective module 'Optical Communications' (ELEC70079) and add the existing elective 'Communications: Physics Layer' (ELEC70134) on the MEng Electrical and Electronic Engineering, MEng Electrical and Electronic Engineering with Management, MSc Analogue Digital Integrated Circuit Design and MSc Communications and Signal Processing programmes.

Modification form 10
Remove the compulsory modules 'Managing Engineering' (ELEC60020) and 'Business Strategy' (BUSI60039) and replace with 'Project Management' (BUSI60046) and 'Managing Innovation' (BUSI60045) on the MEng Electrical and Electronic Engineering with Management programme.

5.10.1 PC approved the proposals for modifications **1, 7** and **8**, subject to the following recommendations:

- Review and clarify the resit requirements and expectations for students who fail the teamwork assessment components in the modules 'Electronics Design Project 1' (ELEC40006) and Electronics Design Project 2' (ELEC500015), 'MEng Group Project' (ELEC60014) and 'Individual Industrial Placement' (ELEC60016). The programme team are encouraged to consider that where a first assessment cannot be replicated, an alternative assessment should be developed to allow students to progress as normal to the next level of study. (Modification form 1)
- Provide a copy of the 'Optoelectronics' (ELEC60023/ELEC70023) module specifications. (Modification form 7)
- Correct the ECTS/CATS information listed on the 'Professional Competencies Portfolio with Industrial Experience' (ELEC70107), 'Professional Competencies Portfolio' (ELEC70108), 'Professional Competencies Portfolio for Year Abroad' and 'Professional Competencies Portfolio with Industrial Experience for Year Abroad' module specifications. (Modification form 8)
- Clarify how the new compulsory Professional Competency for Year Abroad modules are different to the existing 'Professional Competencies Portfolio with Industrial Experience' (ELEC70107), 'Professional Competencies Portfolio' (ELEC70108). The Committee note the similarities between the description, learning outcomes and competencies listed in each module specification. (Modification form 8)

5.10.2 PC agreed to recommend the proposals outlined in modification forms **2, 3, 4 5, 6, 9** and **10** to QAEC for **approval**.

PC advised that the recommendations above be considered for proposals outlined in modification forms **1, 7** and **8** and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.11 PC.2024.35 Department of Electrical and Electronic Engineering
MSc Analogue and Digital Integrated Circuit Design (H6W8)
MSc Applied Machine Learning (I460)
MSc Artificial Intelligence Applications and Innovation (H5A1)
MSc Communications and Signal Processing (H6U8)
MSc Control and Optimisation (J9U4)
MSc Future Power Networks (H6U7)
MSc Sensor Systems Engineering (H605)

To consider the following major modification proposals from the Department of Electrical and Electronic Engineering to make the following changes to the named programmes above, with effect from October 2025.

Modification form 1
To make the following changes to meet the external accreditor (IET) requirements:

a) Change the module content, learning and teaching approach for the core modules 'Individual Research Project in ADIC' (ELEC70094), 'Individual Research Project in AML' (ELEC70063) and 'Individual Research Project in FPN' (ELEC70100).
b) Change the module learning outcomes, content, learning and teaching approach for the core modules 'Individual Research Project C and O' (ELEC70097) and 'Individual Research Project in Sensor Systems' (ELEC70133).
c) Change the module learning outcomes, description, content, learning and teaching approach and assessment strategy for the core module 'Individual Research Project in CSP' (ELEC70062).

Modification form 2

To make the following changes to meet the external accreditor (IET) requirements:

a) Change the module learning and teaching approach, assessment strategy and change the assessments for the core modules 'Laboratory in ADIC' (ELEC70093), 'Laboratory in AML' (ELEC70060), Laboratory in CSP' (ELEC70095), 'Laboratory in C and O' (ELEC70096) and 'Laboratory in FPN' (ELEC70088).
b) Change the assessment strategy and add a new assessment for the core module 'Laboratory in Sensors' (ELEC70132).

Modification form 3

Introduce the new compulsory module 'Responsible AI: Ethics at Work' and change the rules by which students select their electives for the MSc Artificial Intelligence Applications and Innovations programme.

Modification form 4

a) Remove the elective module 'Optoelectronics' (ELEC70058) and 'Optical Communication' (ELEC70079) and add the existing electives 'Communications: Physical Layer' (ELEC70134) and 'Sensory Systems and Networks' (ELEC70131) from the MSc Analogue and Digital Integrated Circuit Design programme.
b) Remove the elective module 'Optical Communication' (ELEC70079) from the MSc Communications and Signal Processing programme.

Modification form 5

Remove the elective module 'Reinforcement Learning for Communication Systems' (ELEC70084) from the MSc Communications and Signal Processing programme.

Modification form 6

To make the following changes to the MSc Control and Optimisation programme:

a) Change the rules by which students choose their elective modules.
b) Remove the elective modules 'Wavelets, Representation Learning and their Applications' (ELEC70039), 'Traffic Theory and Queueing Systems' (ELEC70067), 'Cryptography and Coding Theory' (ELEC70069) and 'Information Theory' (ELEC70070).

5.11.1 PC were supportive of the proposals outlined in modification forms **1, 2, 4, 5** and **6.** The following feedback was suggested which is not preventative in progressing the proposals:

- Articulate the requirements and metrics for self-reflection activities in the 'Laboratory in ADIC' (ELEC70093), 'Laboratory in AML' (ELEC70060), Laboratory in CSP'

(ELEC70095), 'Laboratory in C and O' (ELEC70096) and 'Laboratory in FPN' (ELEC70088) module specifications.
- Clarify the circumstances for which placement activity would be allowed in the 'Individual Research Project in CSP' (ELEC70062) module specification.

Regards modification form **3**, PC were supportive of the proposed introduction of the 'Responsible AI: Ethics at Work' module specification, and recommended the following:
- Given the rationale provided, consider increasing the ECTS credit of the module to allow students to gain a broader foundational understanding of ethics and responsible AI.
- Revise the number of learning outcomes, formative and summative assessment components so it is commensurate with workload expected at the given ECTS credit value. Articulate the output requirements summative assessments and indicate how each component will allow students to meet the module learning outcomes.
- Consider reducing the module weighting of the summative 'class participation' assessment component.

5.11.2 PC agreed to recommend the proposals outlined in modification forms **1, 2, 4, 5** and **6** to QAEC for **approval**.

PC advised that the recommendations above for the proposal outlined in modification form **3** be considered and that updated documentation be presented for consideration at the next Programmes Committee.

5.12 PC.2024.36 Department of Materials
MEng Materials Science and Engineering (JFM2)
BEng Materials Science and Engineering (JF52)
MEng Materials Science and Engineering with a Year in Industry (NEW)
MEng Materials with Nuclear Engineering (J5H8)
MEng Biomaterials and Tissue Engineering (BJ95)
MSc Advanced Materials Science and Engineering (J2U3T)
MSc Advanced Materials Science and Engineering: Specialising in Materials for the Energy Transition (J2U3E)
MSc Advanced Materials Science and Engineering: Specialising in Theory and Simulation of Materials (J2U31)

To consider the following major modification proposals from the Department of Materials, with effect from October 2025:

Modification form 1
Introduce a BEng (Ordinary) exit award for the named undergraduate programmes above.

Modification form 2
Introduce an internal year in industry pathway on the MEng Materials Science and Engineering programme.

Modification form 3

Remove the elective module 'Advanced Nanomaterials' (MATE70014) from the named undergraduate programmes above.

Modification form 4
Update the learning outcomes for the core module 'Properties 2' (MATE50006) on the named undergraduate programmes named above.

Modification form 5
Add 'Nuclear Fusion' (MATE70029) as an elective on the 3rd year and add the MIT exchange module in the 4th year on the MEng Materials with Nuclear Engineering programme.

Modification form 6
Remove the elective 'Surfaces and Interfaces' (MATE60011 / MATE70011) from all the named programmes above.

Modification form 7

a) Increase the elective choice for students on the MSc Advanced Materials Science and Engineering: Specialising in Materials for the Energy Transition by updating the elective rules.
b) Remove the elective modules 'Nuclear Chemical Engineering' (CENG60013), 'Nuclear Reactor Physics' (MECH70002), 'Nuclear Thermal Hydraulics' (MECH70001), 'Advanced Nanomaterials'. (MATE70014) and 'Surfaces and Interfaces' (MATE70011) on the postgraduate programmes named above.
c) Add the existing elective module 'Nuclear Fusion' (MATE70029) and new elective module 'Materials for Quantum Technology' (will be submitted via minor modifications in July) on the postgraduate programmes named above.

5.12.1 The Chair confirmed that the proposed introduction of the Year in Industry pathway to the MEng Materials Science and Engineering programme (as outlined in modification form 2) has been approved by the Admissions Sub-Committee.

PC were supportive of the well-considered proposals, noting clear rationales had been provided to increase flexibility, inclusivity and to retain popular aspects of the programme's delivery.

PC approved the proposals outlined in modification forms **1** and **2**, subject to the following recommendations:

- Revise the proposed wording for the programme learning outcomes students would be expected to meet for the BA (Ordinary) exit award on the programme specification. The team are encouraged to refer to the Development of Exit Awards guidance to address this recommendation.
- Clarify why the optional 'Placement Report' module on the proposed MEng Materials Science and Engineering with a Year in Industry programme is 30 rather than 60 ECTS.

5.12.2 PC agreed to recommend the proposals outlined in modification forms **3, 4, 5, 6** and **7** to QAEC for **approval**.

PC advised that the recommendations above for proposals outlined in modification forms **1** and **2** be considered and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

Faculty of Medicine

5.13 PC.2024.37 Department of Brain Sciences
MSc Translational Neuroscience (A3TN)

To consider a major modification proposal from the Department of Brain Sciences to make the following changes to the named programme above, with effect from October 2025:

a) Update the programme assessment strategy.
b) Update the module learning and teaching approach, assessment strategy and assessments for the core module 'Cellular and Molecular Neuroscience' (BRAI70005).
c) Update the module content, learning and teaching approach, assessment strategy, assessments and change the module title of the core module 'Computational Methods for Translational Neuroscience' (BRAI70009) to 'Introduction to Computational Methods for Brain Sciences'.
d) Update the module learning outcomes, module content, assessment strategy and assessments for the elective module 'Brain Imaging and High Temporal Resolution Methods' (BRAI70008).
e) Change the module learning outcomes, assessment strategy and assessments for the elective module 'Brain Plasticity and Neuroregeneration' (BRAI70011).

5.13.1 PC were supportive of the proposal and approved the proposal subject to the following recommendation:

- Remove reference to the 'Rule of progression: students must attempt all assessments' from all module specifications.

PC also suggested the following feedback which is not preventative in progressing the proposal:

- Regarding the core module, 'Introduction to Computational Methods for the Brain Sciences' (BRAI70009):
    - Update the allocation of study hours on the module specification so it reflects the correct ECTS ratio.
    - Ensure students are informed about how each stage of the 'hackathon' assessment will be marked, especially as one stage is individual and the second and third stages, group based.
    - Consider how students will be expected to resit work for each stage of the 'hackathon' assessment.

5.13.2 PC advised that the recommendation above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.14 PC.2024.38 School of Public Health
Master of Public Health (A3BH)

To consider a major modification proposal from the School of Public Health to change the rules by which students choose their stream elective modules on the named programme above, with effect from October 2025.

5.14.1 PC were supportive of the proposal, but noted the rationale for the modification is focussed on administrative efficiencies rather than improving the student experience.

PC approved the proposal subject to the following recommendation:

- Revise the modification form to improve conciseness and rebalance the rationale to outline how the proposed modification will enhance the student experience.

5.14.2 PC advised that the recommendation above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

Faculty of Natural Sciences

5.15 PC.2024.39 Centre of Environmental Policy
MSc Conservation Science and Practice (C1841 / C1842)

To consider a major modification proposal from the Centre of Environmental Policy to make the following changes to the named programme above, with effect from October 2025:

a) Amend the programme specification, removing the required modules for the Postgraduate Certificate exit award.
b) Add the Postgraduate Certificate exit award learning outcomes on the programme specification.
c) Amend the classification algorithm to clarify the specific module name.
d) Update the programme learning and teaching approach reflecting the change to the module learning and teaching approach for the core module 'Independent Research Project' (ENVI70038).
e) Change the module description, content, learning and teaching approach and assessment strategy for the compulsory module 'Inference and Estimation' (ENVI70037).
f) Minor changes to the term and module leaders for 'Introduction to the Past, Present, and Future of Biodiversity Conservation' (ENVI70030), 'Navigating the Complexities of Social-Ecological Systems' (ENVI70031), 'Effective Decision Making for Solving Conservation Problems' (ENVI70033), 'Conservation Actions and Interventions' (ENVI70035) and 'Implementing Conservation Practice Through Projects and Partnerships' (ENVI70036).
g) Minor changes and typographical error corrections to the programme specification.

5.15.1 PC approved the proposal subject to the following recommendation:

- Review the inclusion of the programme learning outcome, 'Communicate effectively to a range of audiences and using different media such as oral presentations, written reports and scientific publications' for the Postgraduate Certificate exit award. Consider if students can be expected to write scientific publications at Postgraduate Certificate level.

PC also suggested the following feedback which is not preventative in progressing the proposal:

- Review and confirm pre-requisites for the core module 'Independent Research Project' (ENVI70038), as outlined on the module specification.

5.15.2 PC advised that the recommendation above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.16 PC.2024.40 Centre of Environmental Policy
MSc Conservation Science and Practice (C1841 / C1842)

To consider a major modification proposal from the Centre of Environmental Policy to change the programme delivery mode from blended to on-campus for the named programme above, with effect from October 2026.

5.16.1 The Chair confirmed that the proposed change of mode has been approved by the Admissions Sub-Committee.

PC were supportive of the proposal and suggested the following feedback which is not preventative in progressing the proposal:

- Confirm there is sufficient space and resourcing to deliver the programme on-campus from October 2026. This includes the availability of private student study spaces.
- Update references to SOLE questionnaires to include Module Evaluation Questionnaires (MEQ) in the programme specification.

5.16.2 PC agreed to recommend the proposal to QAEC for **approval**.

5.17 PC.2024.41 Department of Life Sciences
BSc Biological Sciences with Management (3 Years) (C1N2)
BSc Biological Sciences with Management (4 Years) (C1NG)
BSc Biological Sciences with French for Science (C1R1)
BSc Biological Sciences with German for Science (C1R2)
BSc Biological Sciences with Spanish for Science (C1R4)
BSc Biochemistry with Management (3 years) (C7N2)
BSc Biochemistry with Management (4 year) (C7NG)
BSc Biochemistry with French for Science (C7R1)
BSc Biochemistry with German for Science (C7R2)
BSc Biochemistry with Spanish for Science (C7R4)

BSc Biological Sciences (C100)
BSc Biological Sciences with Research Abroad (C102)
BSc Biological Sciences with a Year in Industry/Research (C110)
BSc Ecology and Environmental Biology (C180)
BSc Microbiology (C500)
BSc Biochemistry (C700)
BSc Biochemistry with a Year in Industry/Research (C701)
BSc Biochemistry with Research Abroad (C702)
BSc Biotechnology with Management (4 year) (J7N2)
BSc Biotechnology with French for Science (J7R1)
BSc Biotechnology with German for Science (J7R2)
BSc Biotechnology with Spanish for Science (J7R4)
BSc Biotechnology (J700)
BSc Biotechnology with Research Abroad (J701)
BSc Biotechnology with a Year in Industry/Research (J702)

To consider a major modification proposal from the Department of Life Sciences to make the following changes to the named programmes above, with effect from October 2025:

a) Introduce the new core module 'Core Skills for Life Scientists'.
b) Reduce the ECTS credit size from 15 to 10 by changing the allocation of study hours, change the learning outcomes, assessment strategy and assessments for the core module 'Cell Biology' (LIFE40002).
c) Reduce the ECTS credit size from 15 to 10 by changing the allocation of study hours and change the assessments for the core modules 'Enzymes and Metabolism' (LIFE40003), 'Biological Chemistry and Microbiology' (LIFE40005) and 'Ecology and Evolution' (LIFE40007).
d) Change the assessment strategy and assessment weightings for the core module 'Biological Chemistry' (LIFE40001)
e) Change the module learning outcomes, content and assessments for the core module 'Molecular Biology' (LIFE40004).
f) Change the assessments for the core modules 'Cell Biology and Genetics' (LIFE40006) 'Evolution and Diversity' (LIFE40008).

5.17.1 PC were supportive of the proposal, noting the well-considered rationale for restructuring the delivery of core skills on each programme.

PC approved the proposal subject to the following recommendations:

- Review the specificity and measurability of learning outcomes 1, 4 and 6, and outline the specifics of each assessment component in the assessment strategy section and assessment tab on the 'Core Skills for Life Scientists' module specification.
- Review the module description, to reflect the removal of core skills, consider reducing the number of learning outcomes, and include reference to two coursework components in the assessment strategy section on the 'Cell Biology' (LIFE40002) module specification.

- Review the module description, module content learning outcomes and learning and teaching approach to reflect the removal of core skills on the 'Enzymes and Metabolism' (LIFE40003) module specification.
- Review the module description and learning outcomes to reflect the removal of core skills on the 'Biological Chemistry and Microbiology' (LIFE40005) module specification.
- Review the learning and teaching and assessment strategy to reflect the removal of core skills on the 'Ecology and Evolution' (LIFE40007) module specification. Clarify why the two fieldwork report assessment components have been assigned a different weighting.
- Review and align the assessment strategy section with the assessment tab on the 'Biological Chemistry' (LIFE40001) module specification.
- Clarify the inclusion of a summative 'Mini seminar presentation' assessment component weighted at 1% on the 'Molecular Biology' (LIFE40004) module specification.
- Review the allocation of study hours to reflect the correct ECTS ratio and clarify the number and duration of 'Biodiversity challenge assessments' in the assessment strategy section and assessment tab on the 'Evolution and Diversity' (LIFE40008) module specification.

5.17.2 PC advised that the recommendations above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.18 PC.2024.42 Department of Mathematics
MSc Pure Mathematics (G1U3)
MSc Pure Mathematics (Formalisation of Mathematics) (NEW)

To consider a major modification proposal from the Department of Mathematics to introduce the new full-time and part-time programme stream MSc Pure Mathematics (Formalisation of Mathematics), with effect from October 2025.

5.18.1 The Chair confirmed that the proposed introduction of the new full-time and part-time programme streams have been approved by the Admissions Sub-Committee.

PC were supportive of the well-considered proposal, agreeing to approve it subject to the following recommendation:

- Clarify the statement 'PG Cert and PG Dip exit degrees in the Formalisation of Mathematics may not mention the fact that this stream was chosen' in the programme specification, stating what exactly the exit degrees will mention.

5.18.2 PC advised that the recommendation above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.19 PC.2024.43 Department of Mathematics

MSc Statistics (G3U1)
MSc Statistics (Applied Statistics) (G3U1A)
MSc Statistics (Biostatistics) (G3U1B)
MSc Statistics (Data Science) (G3U1D)
MSc Statistics (Statistical Finance) (G3U1S)
MSc Statistics (Theory & Methods) (G3U1T)

To consider a major modification proposal from the Department of Mathematics to make the following changes to the named programme above, with effect from October 2025:

a) Change the programme learning and teaching approach and assessment strategy.
b) Change the programme title of MSc Statistics (Data Science) to MSc Statistics (Data Science and Machine Learning).
c) Introduce the existing module 'Data Science' (MATH70076) as a core module for MSc Statistics (Data Science and Machine Learning) and MSc Statistics (Theory and Methods). Change the module designation for the same module from elective to core on MSc Statistics, MSc Statistics (Applied Statistics) and MSc Statistics (Statistical Finance).
d) Change the module content, assessment methods, assessments and the assessment grading method from numeric to pass/fail for the module 'Data Science' (MATH70076).
e) Change the module learning outcomes, content, learning and teaching approach, assessment strategy, assessments and the start/end dates of the core module 'Statistics Research Project' (MATH70088).
f) Change the module learning outcomes, description, content, assessment strategy and assessments of the core module 'Applied Statistics' (MATH70071).
g) Remove the elective modules 'Contemporary Statistical Theory', 'Multivariate Statistics' (MATH70092), 'Consumer Credit Risk Modelling' (MATH70131) and 'Bayesian Methods' (MATH70090) from the named streams above.
h) Clarify the materials allowed for open-book exams.
i) Change the assessments and assessments for 'Introduction to Statistical Finance' (MATH70079), 'Advanced Statistical Finance' (MATH70070), 'Stochastic Processes' (MATH70089), 'Nonparametric Statistics' (MATH70081), 'Advanced Bayesian Methods' (MATH70073) and 'Advanced Simulation Methods' (MATH70137). Change the assessment strategy for 'Statistical Genetics and Bioinformatics' (MATH70083).

5.19.1 The Chair confirmed that the proposed programme stream title change has been approved by the Admissions Sub-Committee.

PC were supportive of the proposal, agreeing to approve it subject to the following recommendations:

- Review the following sentence in the assessment methods section of the programme specification – specifically, to unpack what is meant by 'draw the student in a pedagogically useful manner':
  The research project component of the MSc will be assessed in a scaffolded manner that draw the student in a pedagogically useful manner and include the three stages of Reading, Preparing Research, and Delivering Research.

- Ensure module learning outcomes can be addressed by both open and closed book examinations. If so, include reference to the possibility of examinations being open or closed book in the module specifications. Students must be informed in advance as to whether an exam is open or closed book.
- Ensure all assessment components listed on module specifications outline whether they are group or individual and specify the associated word-count and/or duration.

5.19.2 PC advised that the recommendations above be considered, and that updated documentation be submitted to the Quality Assurance and Enhancement team. Subject to a satisfactory response, PC agreed to recommend the proposal to the QAEC for approval, with effect from October 2025.

5.20 PC.2024.44 Department of Physics
BSc Physics (F300)
BSc Physics with Theoretical Physics (F325)
MSci Physics (F303)
MSci Physics with Theoretical Physics (F390)
MSci Physics with a Year Abroad (F309)

To consider the following major modification proposals from the Department of Physics to make the following changes to the named programmes above, with effect from October 2025:

Modification form 1
Change the module learning outcomes, content, assessment strategy and assessments for the compulsory module 'Advanced Practical Physics' (PHYS50001).

Modification form 2
Change the module learning outcomes, description, content and learning and teaching approach for the core module 'Mathematical Methods' (PHYS50007).

Modification form 3
To make the following changes to the named programmes above:

a) Remove the elective modules 'Year 3 Project' (PHYS60016) and 'Essay Project' (PHYS600017) and replace them with the new elective module 'Self-Study Module' for all the named programmes above.
b) Remove the year 1 and year 2 progression criteria from the MSci Physics and MSci Physics with Theoretical Physics programmes.
c) Change the module learning outcomes, content, learning and teaching approach, assessment strategy, assessment weightings and reduce the ECTS credits from 15 to 10 ECTS for the core module 'Comprehensives' (PHYS60002).
d) Change the module learning outcomes, assessment strategy and increase the ECTS credits from 5 to 7.5 for the core module 'Nuclear and Particle Physics' (PHYS60001).
e) Change the module assessment strategy and increase the ECTS credits from 5 to 7.5 for the core module 'Solid State Physics' (PHYS60003).
f) Remove the elective modules 'Complexity and Networks' (PHYS60010), 'Introduction to Plasmonics and Metamaterials' (PHYS70005) and 'Entrepreneurship for Physicists' (PHYS70015) from all the named programmes above.

g) Remove the elective modules 'Quantum Field Theory' (PHYS70008) and 'Unification – The Standard Model' (PHYS70011) from the BSc Physics and BSc Physics with Theoretical Physics programmes.
h) Change the module designation from core to elective for the module 'Mathematical Analysis' (PHYS40007) and add the existing elective 'Advanced Electronics' (PHYS40006) to the BSc Physics with Theoretical Physics and MSci Physics with Theoretical Physics programmes.
i) Amendments to the MSci Physics with a Year Abroad programme specification to clarify information with regards to the year abroad placement.

5.20.1 PC were supportive of proposals outlined in modification forms 1 and 2, as well as the proposal to introduce a self-study module, as outlined in modification form 3.

PC suggested the following feedback in relation to modification form 3:

- Regarding the new elective module 'Self-Study Module':
  - Clarify how the team will ensure existing student expectations will be managed, fulfilling Competition and Markets Authority (CMA) requirements.
  - Specify how students will be supported and outline the expected outputs for students.
- Revisit the learning outcomes and assessment components for the module 'Comprehensives' (PHSY60002) to reflect the proposed reduction in ECTS value from 15 to 10.

5.20.2 PC agreed to recommend the proposals as outlined in modification forms **1** and **2** to QAEC for **approval**.

PC agreed to **reject** the proposal as outlined in modification form **3** and encouraged the programme team to consider the above feedback and present the proposal to Programmes Committee at the next opportunity.

6. Programme suspensions and withdrawals

Faculty of Engineering

6.1 PC.2024.45 Department of Materials
BEng Materials with Management (J5N2)

To consider a major modification proposal from the Department of Materials to withdraw the named programme above with effect from October 2025.

6.1.1 PC agreed to recommend the proposal to QAEC for **approval**.

Faculty of Natural Sciences

6.2 PC.2024.46 Department of Chemistry
BSc Chemistry with Management and Year in Industry (FN11)

To consider a major modification proposal from the Department of Chemistry to withdraw the named programme above with effect from October 2026.

6.2.1 PC agreed to recommend the proposal to QAEC for **approval**.

6.3 PC.2024.47 Department of Mathematics
MSc Mathematics and Finance (Part-time) (G1U424)

To consider a major modification proposal from the Department of Mathematics to withdraw the named programme above with effect from October 2026.

6.3.1 PC agreed to recommend the proposal to QAEC for **approval**.

6.4 PC.2024.48 Department of Physics
MSc Physics with Nanophotonics (F3U10)

To consider a major modification proposal from the Department of Physics to withdraw the MSc Physics with Nanophotonics programme with effect from October 2026.

6.4.1 PC agreed to recommend the proposal to QAEC for **approval**.

ITEMS TO NOTE

7. PC.2024.49 Change to Entry Requirement
MSc Analogue and Digital Integrated Circuit Design (H6W8)
MSc Applied Machine Learning (I460)
MSc Communications and Signal Processing (H6U8#0
MSc Control and Optimisation (J9U4)
MSc Future Power Networks (H6U7)
MSc Sensor Systems Engineering (H606)

PC noted the change to the entry requirement from 'First-class honours (minimum 75% overall) to 'First class honours' for the named programmes above with effect from October 2026.

8. PC.2024.50 Change to Entry Requirement
MRes AI and Machine Learning (G5ZB)

PC noted the changes to the admissions requirements which include the removal of the admissions test, revised timing of the project selection and the discontinuation of interviews for the named programme above with effect from October 2025.

9. PC.2024.51 Chairs Report
PC noted the actions taken by the Chair on behalf of PC since the previous meeting on Thursday 30 January 2025.

Faculty of Medicine

9.1 PC.2024.17 New programme proposal – Department of Immunology and Inflammation

MRes Experimental Biomolecular Sciences

The revised documentation in response to the recommendations made at the PC meeting on 30 January 2025.

Note: PC recommendation approved by the QAEC on 12 March 2025.

Faculty of Natural Sciences

9.2 PC.2024.19 Major modification – Department of Life Sciences
MSc Taxonomy, Biodiversity and Evolution
MRes Biosystematics

The revised documentation in response to the recommendations made at the PC meeting on 30 January 2025.

Note: PC recommendation approved by the QAEC on 12 March 2025.

Imperial College Business School

9.3 PC.2024.20 Major modification – Imperial College Business School
Weekend MBA (Saudi Aramco)

The revised documentation in response to the recommendations made at the PC meeting on 30 January 2025.

Note: PC recommendation approved by the QAEC on 12 March 2025.

9.4 PC.2024.CA16 Major modification – Imperial College Business School
Full-Time MBA (Extended)
MSc Finance (Extended)
MSc Finance & Accounting (Extended)
MSc Investment & Wealth Management (Extended)
MSc Risk Management & Financial Engineering (Extended)
MSc Financial Technology (Extended)
MSc International Management (Extended)
MSc Management (Extended)
MSc Economics and Strategy for Business (Extended)
MSc Strategic Marketing (Extended)
MSc Innovation, Entrepreneurship & Management (Extended)
MSc Global Health Management (Extended)
MSc Global Health Management (Innovation & Entrepreneurship) (Extended)
MSc Global Health Management (Economics & Data Science) (Extended)
MSc Business Analytics (Extended)
MSc Climate Change, Management & Finance (Extended)

To consider an in-session major modification proposal from Imperial College Business School to change the programme and award title for the above-named programmes, with effect from September 2024.

Note: PC recommendation approved by the QAEC on 12 March 2025.

9.5 PC.2024.CA17 Major modification – Imperial College Business School
MSc Economics and Strategy for Business
MSc Economics and Strategy for Business (Extended)
MSc Global Health Management (Management concentration) (Extended)
MSc Global Health Management (Innovation and Entrepreneurship concentration)
MSc Global Health Management (Innovation and Entrepreneurship concentration) (Extended)
MSc Global Health Management (Economics and Data Science concentration)
MSc Global Health Management (Economics and Data Science concentration) (Extended)
MSc International Management
MSc International Management (Extended)

To consider the following in-session major modification proposals from Imperial College Business School, with effect from September 2024:

a) Add 'Accounting' (BUIS70488) as an elective module on the MSc Economics & Strategy for Business and MSc Economics & Strategy for Business (Extended) programmes.
b) Add 'Healthcare Sector Project' (BUSI70492) as an elective module on the MSc Global Health Management (Innovation and Entrepreneurship) programme.
c) Withdraw 'Healthcare Sector Project' (BUSI70492) as an elective module from the MSc Global Health Management (Management) (Extended) and MSc Global Health Management (Economics and Data Science) (Extended) programmes.
d) Withdraw 'Business Startup' (BUSI70368) as an elective from the MSc Global Health Management (Innovation and Entrepreneurship) (Extended) programme.
e) Withdraw 'Strategy and Innovation in Digital Business' (BUSI70083) from the MSc Global Health Management (Innovation and Entrepreneurship) and MSc Global Health Management (Innovation and Entrepreneurship (Extended) programmes.
f) Withdraw 'Digital Transformation: Leading Real-World Change' (BUSI70033) as an elective from the MSc International Management and MSc International Management (Extended) programmes.
g) Add 'Creating Stakeholder Value Through Acquisitions and Partnerships' (BUSI70482) as an elective on the MSc International Management (Extended) programme.

Note: PC recommendation approved by the QAEC on 12 March 2025.

10 Quality Assurance and Enhancement Committee (QAEC)

PC noted the minutes from the previous QAEC, published on the university website: www.imperial.ac.uk/about/governance/academic-governance/senate-subcommittees/quality-assurance-enhancement-committee/

11. Any other business

11.1 The Chair noted that the volume, scope and complexity of proposals dealt with at this meeting has been at the highest level since the curriculum review. To maintain a healthy QA process, the committee agreed that an update of the modification procedures would be considered highly beneficial, as would be some directive oversight by Faculty Education Committees particularly regards timing of proposals to manage the committee's workload. Informal interactions between committee members, departments, faculty education offices and QA personnel to facilitate this are highly encouraged.

11.2 Committee members were thanked for their thorough and well-considered contributions to each proposal and the meeting was closed.

12. Dates of future meetings

12.1 Members were reminded that the meeting scheduled for 27 March 2025 will be held offline by correspondence. The remaining major modification proposals will be circulated to members by 21 March 2025, to be reviewed by Friday, 04 April 2025.

12.2 The next Programmes Committee meeting will be held online, scheduled for 22 May 2025.