# Atlantic Technological University

## Sligo College

## PROGRAMME VALIDATION PANEL REPORT FORM

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| Date of Evaluation | 16th June 2022 |

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| Programmes Title(s) | 1. Bachelor of Science in Applied Industrial Science (Add on) level 7<br>2. Bachelor of Science (Honours) in Applied Industrial Science (Add on) level 8 |
| Award Title(s): | 1. Bachelor of Science in Applied Industrial Science (Add on)<br>2. Bachelor of Science (Honours) in Applied Industrial Science (Add on) |
| Programme Code(s) | 1. SG_SAPPL_J07<br>2. SG_SAPPL_K08 |
| NFQ Level | 1. Level 7<br>2. Level 8 |
| ECTS credits | 1. 60ECTS<br>2. 60ECTS |

**Evaluation Panel Members:**

| Name & title | Job title & place of work | Role on panel |
|---|---|---|
| Dr Sheila Flanagan | VP Academic Affairs & Registrar, Dundalk Institute of Technology. | Chairperson |
| Ms Michelle McNulty | Operations Lead, Abbvie Ireland | Panel member |
| Prof Emeritus James Houghton | School of Natural Sciences, NUI Galway | Panel Member |
| Prof Stephen McClean | Head of School of Biomedical Sciences, Ulster University, Coleraine | Panel member |
| Dr Aodhmar Cadogan | Assistant Registrar, Atlantic Technological University, Sligo | Recording Secretary |

**Declaration Regarding Any Conflicts of Interest:** The members of the Panel signed a form confirming that they did not have any conflict of interest.

**Meeting groups**

Institute Management: Dr Jerry Bird, Head of Faculty of Science, Prof Neville McClenaghan,

**Programme development team. As below**

**Persons met by validation panel**

| Name | Role in Institute | Rationale for presence at validation. |
|---|---|---|
| Prof Neville McClenaghan | Head of Department of life Sciences | Head of Department |
| Dr Colin Fowley | Lecturer | Programme development team |

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| Dr Yvonne Lang | Lecturer | Programme development team |
| Sarah Best | Lecturer | Programme development team |
| Dr Sarah Hehir | Lecturer | Programme development team |
| Dr Thomas Smyth | Lecturer | Head of Department of Health and Human Nutrition |
| Tom Patton | Lecturer | Programme Development Team |
| Mary Butler | Lecturer | Programme Development Team |

Note: In the context of this report, a condition indicates an action or amendment which in the view of the validation panel must be undertaken prior to the commencement of the new (or revised) programme. Conditions are mandatory for Approval of the Programme(s). A recommendation indicates an action or amendment which in the view of the panel should be given serious consideration by the programme development team for implementation.

| **Validation criteria** | Sufficient evidence / Insufficient evidence |
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| **Rationale for the programme**<br>• Philosophy underpinning the programme e.g. market for programme in the region and its relevance to the region<br>• Graduate profile and employment opportunities for graduates<br>• Rationale for the programme e.g. School's/Institute's strengths/opportunities<br>• Programme Aims and Objectives<br>• Expected intellectual development and Programme learning outcomes<br>• Related existing programmes. | Sufficient evidence provided<br><br>The need for both programmes was clearly articulated. The benifits to the employees that wished to upskill and in addition the benifits to the employer to upskill while they remain on the work force |
| | |
| **Programme structure**<br>• Delivery type (online)<br>• Proposed mode of delivery (on-line,)<br>• Planned intake numbers (over the full duration of the programme)<br>• Role of placement | Sufficient evidence provided<br><br>Well planned programme structure |
| | |
| **Resources (over the full duration of the programme)**<br>• Facilities and human and material resources available to mount the programme<br>• Clarification of any staffing requirements<br>• Location of the delivery<br>• Specific requirements: lecture rooms, laboratories, library, Information technology and other student supports<br>• Confirmation regarding any new facilities and staffing requirements | Sufficient evidence provided<br><br>Higher Ed 4.0 funding has been available for the development of the programme. |

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| • Special requirements (e.g. remote access for distance learners) | |
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| **Access, Transfer and Progression Criteria**<br>• Student admission requirements<br>• Progression criteria from one stage to the next and to higher levels on the NFQ<br>• Non-standard entry (e.g. mature candidates and candidates with experiential learning)<br>• Transfer policy into the programme and onto other programmes | Sufficient evidence provided<br><br>Induction is online with a module from previous programmes to be adopted which incorporates a mid term 'induction' type opportunity. |
| | |
| **Curriculum**<br>• A matrix exhibiting the academic pathway and the relationship between modules<br>• The consistency between the programme content, teaching methods and the programme learning outcomes<br>• Balance between the depth and breadth of the programme<br>• Rigour of the academic standard in the final stage of the programme<br>• Student workload<br>• Practice: the role and management of placement or work-based projects. | Sufficient evidence provided<br>ti<br>Discussion particularly focussed on the Work based learning modules and their planned implementation. The technical modules were deemed to be appropriate to the programme discipline. |
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| **Assessment**<br>• The appropriateness of the modes of assessment to be used<br>• The balance between the marks awarded for different assessment modes (e.g. continuous assessment, projects, reports, sit-down examination) | Sufficient evidence provided |

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| • Confirmation that all of the programme learning outcomes are appropriately and adequately assessed within the set of module assessments. | |
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| **Staffing**<br>• Quality and specialities of staff available to support the programme<br>• Technical and administrative support<br>• Staff development<br>• Industrial/commercial profile of staff<br>• Research and publications | Sufficient evidence provided<br><br>Recruitment of staff is currently underway to ensure there is sufficient staffing in place to teach the modules starting from September 2022. |
| | |
| **Programme Administration and Quality Assurance**<br>• Procedure for managing programme<br>• Student support student counselling and tutorial arrangements<br>• Aspects of programme which highlight and foster study skills, independent learning and the inculcation of individual responsibility in students<br>• EU and international aspects if appropriate<br>• Feedback mechanisms e.g. use of surveys, focus groups and follow-up actions. | Sufficient evidence provided<br><br>No additional requirements to current QA system. |
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Commendations

1. The panel commend the Programme Team for the considerable thought, vision and effort that has been put into both the design and the structure of the programme

2. The panel commend the identification of a clear market need and the development of a programme to address that market need i.e. upskill employees in a scientific workplace setting to a higher NFQ level without having to leave the workplace.

3. The panel commend the selected flexible delivery method and the wide variety of students that will be facilitated in participating in learning.

Conditions:

1. None

Recommendations:

1. Review the use of the word 'Dissertation' in the research module(s). Provide examples for the student to understand better the variety and types of work that could be considered for the Dissertation e.g Technical report, Literature Survey, Process Improvement Project etc.

2. Recommend that the Programme Team revisit all modules but in particular the new modules with a view to providing a consistency in the amount of detail in the syllabus, assessment strategies and the repeat assessment strategies. Ensure that there is sufficient information in the 'Teaching and Learning Assessment' that matches the 'Indicative Coursework and Continuous Assessment' field in the academic module management system in order to set expectation for students. Include additional detail where needed. For Example Biocontaminaiton Control BIO08040, Auditing and Compliance REGU08003, Biopharmaceutical Facilities and Utilities BIO08043,

3. Recommend that the currency of the reading resources and other resources should be revised, again particularly for all new modules. The learning resources should be included and/or expanded and also consider non reading resources e.g. listening and viewing in line with UDL principles. Examples include Research methods SCI08013, Biocontamination Control BIO08040, Auditing and Compliance REGU08003, Project and Work Practice SCI08014, Biopharmaceutical Facilities and Utilities BIO08043, Professional Skills and work based learning 2 SCI07024, Active Ingredient Analysis PHRM07021.

4. Outline clearly and expand in the programme documentation, the process by which the industry consultation was completed and the work that was undertaken that informed the development of the programme.

5. The Programme team should work to ensure that all opportunities for early/ front end feedback are taken during the first roll out of each programme. This particularly relates to the work based learning modules and the link to the work place mentors and employers. This feedback may also inform the consideration of electives as discussed during the panel for inclusion in the the next programmatic review.

Minor Specific Module Comments:

6. Practical work shops are indicated as 15 hours once per semester. These should be described more fully in the Teaching Learning Strategy as live streamed over two days for the benifit of the students e.g. PHRM07023 Pharmaceutical Analysis, Active Ingredient Synthesis PHRM07021.

7. Independent Learning in module Bioanalytics BIO08039 should be corrected to weekly hours and not 70 hours per semester, Independent learning hours in Active ingredient synthesis PHRM07021 need to be increased from 1 hour.
8. Independent Learning hours are not indicated in the module Pharmaceutical Formulation PHRM07024.
9. Titles of all new modules should be described in lower case.
10. Title of both programmes should be amended to the exact title as indicated below in the Academic Module Manager System.

| **Overall decision of the panel** | |
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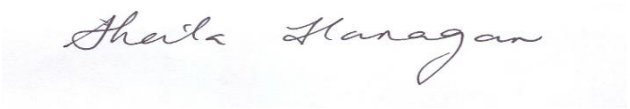
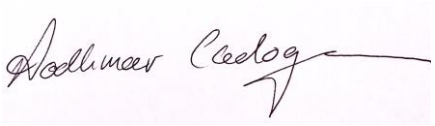
| The panel agreed to recommend to the Academic council the approval of the following programme(s):<br><br>Bachelor of Science in Applied Industrial Science (Add on)<br>Bachelor of Science (Honours) in Applied Industrial Science (Add on) | |

Chairperson: Dr Sheila Flanagan



_____ Date ____2/8/2022_____

Secretary: Dr Aodhmar Cadogan



_____ Date: ____2/8/22_____

**Programme Schedule (***include table from AMM***)**

Bachelor of Science in Applied Industrial Science (Add on) **SG_SAPPL_J07**

| Module Code | Module Title | Stage | Semester | M/E | OL Hours | Credits | CA % | PF % | EXAM % | PROJ % | PRAC % |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SCI07023 | PROFESSIONAL SKILLS AND WORK-BASED LEARNING 1 | Stage 1 | Semester 1 | Mandatory | 0.7 | 10 | 100 | 0 | 0 | 0 | 0 |
| CHEM07005 | PHARMACEUTICAL CHEMISTRY | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 40 | 0 | 60 | 0 | 0 |
| PHRM07015 | INTRODUCTION TO ADVANCED PHARMACEUTICAL SCIENCE | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 | 0 |
| PHRM07017 | Pharmaceutical Processing and Medical Device Manufacture | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 40 | 0 | 60 | 0 | 0 |
| MATH07041 | STATISTICS FOR SCIENTISTS | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 50 | 0 | 50 | 0 | 0 |
| SCI07024 | PROFESSIONAL SKILLS AND WORK-BASED LEARNING 2 | Stage 1 | Semester 2 | Mandatory | 0.4 | 10 | 100 | 0 | 0 | 0 | 0 |
| PHRM07022 | PHARMACEUTICAL QUALITY SYSTEMS | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 | 0 |
| PHRM07023 | PHARMACEUTICAL ANALYSIS | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 15 | 0 | 35 | 0 | 50 |
| PHRM07024 | PHARMACEUTICAL FORMULATION | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 15 | 0 | 35 | 0 | 50 |
| PHRM07021 | Active Ingredient synthesis | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 15 | 0 | 35 | 0 | 50 |

Bachelor of Science (Honours) in Applied Industrial Science (Add on) **SG_SAPPL_K08**

| Module Code | Module Title | Stage | | M/E | OL Hours | Credits | CA % | PF % | EXAM % | PROJ % |
|---|---|---|---|---|---|---|---|---|---|---|
| SCI08012 | WORK PRACTICE | Stage 1 | Semester 1 | Mandatory | 0.6 | 10 | 100 | 0 | 0 | 0 |
| SCI08013 | RESEARCH METHODS | Stage 1 | Semester 1 | Mandatory | 0.5 | 5 | 100 | 0 | 0 | 0 |
| BIO08040 | BIOCONTAMINATION CONTROL | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 65 | 0 | 0 | 35 |
| REGU08003 | Auditing and Compliance | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 |
| REGU08009 | Operations Management and GMP | Stage 1 | Semester 1 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 |
| SCI08014 | PROJECT AND WORK PRACTICE | Stage 1 | Semester 2 | Mandatory | 0.13 | 15 | 100 | 0 | 0 | 0 |
| BIO08043 | BIOPHARMACEUTICAL FACILITIES AND UTILITIES | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 |
| BIO08039 | BIOANALYTICS | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 |
| REGU08006 | Validation and Calibration | Stage 1 | Semester 2 | Mandatory | 2 | 5 | 100 | 0 | 0 | 0 |