1. **Title of the module**

LABS603 Nanomedicine

1. **School or partner institution which will be responsible for management of the module**

Centre for Higher and Degree Apprenticeships (CHDA)

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

Level 6

1. **The number of credits and the ECTS value which the module represents**

15 Credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

Flexible delivery model

Autumn and/or Spring and/or Summer

1. **Prerequisite and co-requisite modules**

N/A

1. **The programmes of study to which the module contributes**

BSc (Hons) in Applied Bioscience

BSc (Hons) in Applied Chemical Sciences

1. **The intended subject specific learning outcomes.  
   On successfully completing the module students will be able to:**

8.1 Demonstrate a comprehensive understanding of the concepts underpinning drug delivery and diagnostic technologies.

8.2 Critically evaluate new delivery or diagnostic technologies applicable to pharmaceutical research in selected areas.

8.3 Identify and resolve complex issues in the topics covered, both systematically and creatively.

8.4 Critically assess the scientific literature and communicate their conclusions clearly to both specialist and non-specialist audiences

1. **The intended generic learning outcomes.  
   On successfully completing the module students will be able to:**

9.1 Show the necessary skills needed to undertake further training of a professional nature.

9.2 Solve problems relating to qualitative and quantitative information, extending to situations where evaluations have to be made on the basis of limited information.

9.3 Demonstrate time-management and organisational skills, as evidenced by the ability to plan and implement efficient and effective modes of working, and self-management and organisational skills with the capacity to support life-long learning.

9.4 Demonstrate the study skills needed for continuing professional development and professional employment.

1. **A synopsis of the curriculum**

The aim of the module is to extend the learning of students and expose them to the forefront of pharmaceutical sciences, enabling them to study the subject in greater depth relating specifically to novel therapeutic agent. Topics will include:-

* Non-targeted drug delivery systems
* Targeted drug delivery systems
* Targeted delivery of contrast agents
* Medical diagnostics for early diagnosis and treatment monitoring

1. **Reading list (Indicative list, current at time of publication. Reading lists will be pblished annually)**

Students will be directed, as appropriate, to the primary literature and review articles available from the journal collections of the University.

1. **Learning and teaching methods**

Blended Distance learning:

Contact Hours: 120

Private Study Hours: 30

Total Study Hours: 150

1. **Assessment methods**
   1. Main assessment methods

2000 word, essay assignment - 40%

2 hour Examination – 60%

The pass mark for each individual assessment is 40%.  All assessments must be passed in order to pass the module.

13.2 Reassessment methods

Like for Like

1. ***Module learning outcomes (sections 8 & 9) to learning and teaching methods (sectin12) and methods of assessment (section 13)***

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | 8.1 | 8.2 | 8.3 | 8.4 | 9.1 | 9.2 | 9.3 | 9.4 |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |
| Online material/ Recorded Lectures | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Private Study | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Work-based experience |  |  |  |  | **x** | **x** | **x** | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |
| Essay | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Examination | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |

1. **Inclusive module design**

The School/Collaborative Partner *(delete as applicable)* recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Blended distance learning – delivered from Medway and Canterbury campus

1. **Internationalisation**

International vocation is an important part of Applied Chemical Science. With regards to the intended learning outcomes, in particular 8.2, the target learning outcomes within this module are applicable worldwide as part of the universal principles used in the Pharmaceutics R&D Industry. With regard to subject content, the material within the syllabus is applied to a range of international contexts.

**FACULTIES SUPPORT OFFICE USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

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| Date approved | Major/minor revision | Start date of delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
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