1. **Title of the module**

BI627: Haematology & Blood Transfusion

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

Biosciences

1. **The level of the module (e.g. 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)**

Spring

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

BI513: Human Physiology & Disease II

BI307: Human Physiology & Disease I

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

Compulsory module for BSc (Hons) Biomedical Science and related programmes.

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

8.1 Describe the factors affecting the production and development of red and white blood cells.

8.2 Demonstrate an understanding of the processes involved in disease of both red and white blood cells.

8.3 Understand and recognise the features of a variety of pathological conditions encountered in haematology.

8.4 Describe the factors involved in the maintenance of haemostasis and how they interact.

8.5 Explain the principles of blood component replacement therapy and the associated risks.

8.6 Recognise the characteristic changes of blood parameters in selected disease states.

1. **The intended generic learning outcomes.
On successfully completing the module students will have developed skills in:**

9.1 Interpretation and retrieval of information (knowledge management).

9.2 Analysis and evaluation of data (problem solving).

9.3 Written communication (essay and short answer writing).

1. **A synopsis of the curriculum**

**Haematology:**

An introduction to haematology: module outline, aims and objectives.

Haemopoiesis and the bone marrow.

The red cell: structure and function.

Inherited abnormalities of red cells.

Anaemias – acquired and inherited.

White blood cells in health and disease.

An introduction to haematological malignancies.

Bleeding disorders and their laboratory investigation.

Thrombophilia.

Blood borne parasites.

**Blood transfusion:**

The ABO and Rhesus blood group systems

Other blood group systems.

Blood banking techniques.

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

Haematology. Moore, Knight and Blann (1st edition) Oxford University Press

ISBN 978-0-19-956883-3

Practical Transfusion Medicine (4th edition) Murphy, Pamphilon, Heddle Wiley-Blackwell

ISBN 9780470670514

Mollison’s Blood Transfusion in Clinical Medicine (12th edition) Klein and Anstee Wiley-Blackwell ISBN 9781118689950

1. **Learning and Teaching methods**

**Contact Hours**: Lectures 24 hrs

**Self-Study**: 126 hrs

Learning outcomes 8.1 – 8.6, 9.1 and 9.2 will be supported by the lectures which will include case study material to act as a forum to clarify concepts and details given in the lectures and to present and discuss the latest developments in Haematology and Blood Transfusion.

The assessed case study and dry practical report are supported through the lecture material and will allow students to further develop their skills relating to problem solving and the presentation of scientific and diagnostic information, learning outcomes 8.1-8.6, 9.1-9.3.

1. **Assessment methods.**

This module will be assessed by 40% coursework and 60% exam.

The end of year examination (60%) will be used to assess the attainment of learning outcomes 8.1-8.6 and 9.1-9.3. Questions will require both short answer and essay type responses.

The case study assignment (20%) will be used to assess learning outcomes 8.1-8.4, 8.6, 9.1-9.3.

The dry practical report assignment (20%) will assess learning outcomes 8.1-8.4, 8.6, 9.1-9.3

1. ***Map of Module Learning Outcomes (sections 8 & 9) to Learning and Teaching Methods (section 12) and methods of Assessment (section 13)***

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** |  | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *8.6* | *9.1* | *9.2* | *9.3* |
| **Learning/ teaching method** | **Hours allocated** |  |  |  |  |  |  |  |  |  |
| Private Study – preparation for/producing Case Study | 24 | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |  |
| Private Study – preparation for/producing Dry Practical Report  | 24 | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |  |
| Private Study – preparation for Examination | 78 | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
| Lectures | 24 | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |
| Case Study |  | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** |
| Dry Practical Report  |  | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** | **x** |
| Examination – 2 hour exam |  | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |

1. **The School recognises and has embedded the expectations of current disability equality legislation, and supports students with a declared disability or special educational need in its teaching. Within this module we will make reasonable adjustments wherever necessary, including additional or substitute materials, teaching modes or assessment methods for students who have declared and discussed their learning support needs. Arrangements for students with declared disabilities will be made on an individual basis, in consultation with the University’s disability/dyslexia student support service, and specialist support will be provided where needed.**
2. **Campus(es) or Centre(s) where module will be delivered:**

Canterbury

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
| 25/10/16 | Minor | January 2016 | 11-14 | No |
|  |  |  |  |  |