

Module Specifications

Year/Level: Year 2/ Level 5

Module: Dosage Form Design and Manufact

Module Code: 5FHH2000

Module Description:

This module will introduce students to the pharmaceutical properties of drugs and the important consi
manufacture. The anatomical and physiological barriers which drug products encounter will be empl
understanding of pharmaceutical materials including the physicochemical properties of drug molecule
disposition. The methods used to characterise these properties will be discus

Year/Level: Year 2/ Level 5

Module: Analytical Techniques and Quality

Module Code: 5FHH2001

Module Description:

The module covers the fundamentals and applications of the various separation techniques, spectrosc
development. The process of an analysis from instrument calibration, sample preparation to data acc
challenges of analysing formulated materials rather than drug s

Year/Level: Year 2/ Level 5

Module: Methods in Drug Design

Module Code: 5FHH2002

Module Description:

Lectures and workshops cover therapeutic targets, the sources of drugs and the use and application of
chemistry to identify lead compounds. The use of case studies in lectures and workshops assists in t
students to contextualise their understanding and knowledge. Students will undertake a practical pro
pharmaceutical agent.

Year/Level: Year 2/ Level 5

Module: Pharmacology

Module Code: 5FHH2003

Module Description:

This module will describe the analysis of drug actions at receptors. Receptor signalling pathways will b

will be described. The fate of drugs in the body will also be considered. Drug treatment for specific diseases, including chemotherapy for cancers and infectious diseases as well as pain treatment will also be studied. New drug targets for drug development will be discussed.

Engineering & Computer Sciences

Credits:	30
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Mandatory

derations to be made during product design, development and
hasised. This knowledge will be developed in parallel with an
s and particles and how these influence bioavailability and drug
sed and developed as practical skills.

Credits:	30
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Mandatory

opies and solid state analyses in pharmaceutical discovery and
quisition and interpretation will be covered and the additional
ubstances considered.

Credits:	30
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Mandatory

modern approaches such as combinatorial and computational
he achievement of these learning outcomes and enables the
gramme which will include the development and analysis of a

Credits:	30
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Mandatory

e explored and the role of targeting receptors in disease states

seases (e.g., cardiovascular diseases) will be described. The
. Limitations of existing therapies will be highlighted and new
sed.
