Liverpool John Moores University

Title:	ADVANCED DRUG DELIVERY AND PHARMACEUTICAL TECHNOLOGY		
Status:	Definitive		
Code:	7001PDPHAR (113115)		
Version Start Date:	01-08-2014		
Owning School/Faculty:	Pharmacy & Biomolecular Sciences		
Teaching School/Faculty:	Pharmacy & Biomolecular Sciences		

Team	Leader
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Academic Level:	FHEQ7	Credit Value:	10.00	Total Delivered Hours:	24.00
Total Learning Hours:	100	Private Study:	76		

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	12.000
Seminar	4.000
Tutorial	6.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	80.0	2.00
Presentation	AS2	Coursework (seminar)	20.0	

Aims

To illustrate the recent developments in drug delivery systems and selected areas of

pharmaceutical technology. To demonstrate novel methods of assessing performance of drug delivery systems and relationships between drug delivery systems and drug targeting.

Learning Outcomes

After completing the module the student should be able to:

- 1 Review recent developments in drug delivery
- 2 Critically review, consolidate and extend a systematic and coherent body of knowledge, utilising highly specialised skills across a major discipline
- 3 Critically evaluate and integrate new concepts and evidence from a range of sources
- 4 Discuss critically the formulation and application of novel drug delivery systems
- 5 Discuss critically the application of Atomic Force Microscopy in developing pharmaceutical products

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Exam	3	4	5
Presentation	1	2	

Outline Syllabus

Recent developments in drug delivery systems: Of necessity this part of the syllabus will vary from time to time to take into account the most recent developments. Currently, the topics covered include: pharmaceutical aerosols, gene delivery systems, nasal drug delivery systems, application of atomic force microscopy, and transdermal drug delivery systems.

Learning Activities

Review of current research papers followed by interactive small group discussions about the papers and seminars.

Notes

This module is designed to introduce the student to relevant advances in drug delivery and pharmaceutical technology associated with drug delivery systems, with emphasis on pharmaceutical aerosols, gene delivery systems, nasal drug delivery systems, transdermal drug delivery systems, and atomic force microscopy.