Liverpool John Moores University

Title: NUTRACEUTICALS

Status: Definitive

Code: **6004BCBMOL** (101447)

Version Start Date: 01-08-2011

Owning School/Faculty: Pharmacy & Biomolecular Sciences Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	emplid	Leader
Khalid Rahman		Υ
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Academic Credit Total

Level: FHEQ6 Value: 12.00 Delivered 30.00

Hours:

Total Private

Learning 120 Study: 90

Hours:

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	18.000
Practical	9.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	answer 3 out of 6 questions.	70.0	3.00
Practice	AS2	one mini-project	30.0	

Aims

To provide a biochemical, physiological and pharmacological basis for the role of nutraceuticals in health and disease.

Learning Outcomes

After completing the module the student should be able to:

- 1 Appreciate_the_commercial_importance_of_nutraceuticals_in_the_food_industry.
- 2 Be_able_to_define_the_different_classes_of_nutraceuticals.
- Be_able_to_evaluate_the_mode_of_action_of_nutraceuticals_in_health_and_disea se
- 4 Discuss_the_current_and_future_developments_of_nutraceuticals.

Learning Outcomes of Assessments

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

EXAM 1 2 3 4

CW 2 3

Outline Syllabus

Historical perspective-Folklore medicine. Awareness of general health, the demand for natural products-natural cures. Awareness and Toxic properties of natural products. Definition of nutraceuticals-overview. Health properties of nutraceuticals. Commercial demand of nutrceuticals including preparation, quality control, legislation and regulation of the sales of nutraceuticals. Classes of nutraceuticals according to their origin and chemical composition. Classes of nutraceuticals according to their mode of action on: Blood, Liver, Brain, Heart, Immune System, Skin, Genito-Urinary System, Bone Structure and Hormonal System. Current state future issues of nutraceuticals from a health and commercial perspective. Correlation of nutraceuticals in health and disease.

Learning Activities

Lectures, tutorials, practicals.

References

Course Material	Book
Author	Goldberg, I.
Publishing Year	1994
Title	Functional Foods: Designer Foods, Pharmafoods,
	Nutraceuticals.
Subtitle	
Edition	
Publisher	Chapman and Hall.
ISBN	0412988518.

Course Material	Book
Author	Robbers, J.E. and Tyler, V.E.
Publishing Year	1999
Title	Tyler's Herbs of Choice: The Therapeutic Use of
	Phytochemicals.
Subtitle	
Edition	
Publisher	Haworth Publishers.
ISBN	0789001608.

Course Material	Book
Author	Barnes, J., Anderson, L.A., Phillipson, J.D. and Newall,
	C.A.
Publishing Year	2002
Title	Herbal Medicines: A guide for Healthcare Professionals.
Subtitle	
Edition	
Publisher	Pharmaceutical Press
ISBN	0853694745.

Course Material	Book
Author	Cassileth, B.R.
Publishing Year	1999
Title	Alternative Medicine Handbook.
Subtitle	
Edition	
Publisher	W.W. Norton Publishers
ISBN	0393045668.

Course Material	Book
Author	Herb World News Online-A service of the Herbs Research
	Foundation .
Publishing Year	0
Title	
Subtitle	
Edition	
Publisher	
ISBN	

Course Material	Book
Author	Duke, J.A. et. al.
Publishing Year	2002
Title	Handbook of Medicinal Herbs.
Subtitle	
Edition	2nd ed.
Publisher	CRC Press
ISBN	0849312841.

Course Material	Book
Author	Mann, J. and Truswell, S.
Publishing Year	2001
Title	Essentials of Human Nutrition.
Subtitle	
Edition	2nd ed.
Publisher	Oxford University Press
ISBN	0198508611.

Course Material	Book
Author	Rapport, L. and Lockwood, B.
Publishing Year	2002
Title	Nutraceuticals.
Subtitle	
Edition	
Publisher	Pharmaceutical Press
ISBN	0853695032

Notes

This module will provide a biochemical, physiological and pharmacological importance of nutraceuticals in health and disease. The historical development of nutraceuticals, their commercial importance, research methods used in their evaluation and the current and future issues of nutraceuticals in health and disease will be discussed.