

Diploma

Diploma in Analysis of Nutripharmaceuticals and Cosmetics in Pharmaceutical Analytical Chemistry

1. Duration of programme	Minimum of two years
2. Language of study	English
3. <i>Academic Reference Standards</i>	<i>National Academic Reference Standards (NARS) Pharmacy January 2009 1st Edition. (National Authority for Quality Assurance and Accreditation of Education) .</i>
4. Aims of the programme(s)	<p>The Diploma in Analysis of Nutripharmaceuticals and Cosmetics programmes aim to:</p> <ul style="list-style-type: none">• provide the graduates with a background in the area of nutripharmaceuticals and cosmetic• Work with the Egyptian pharmaceutical industry to ensure course material is timely, relevant and has practical application.• provide post graduate with further opportunities to develop their verbal and non-verbal communication skills.• apply critical and analytical thinking in reviewing literature.• Promote self-development academically and professionally, and apply continuous self-education

Name of Course	Credit Hour	Description
0907603 Analysis for nutripharmaceuti cals and cosmetics by HPLC	-Lectures: 2 Others: Practical: 2 Seminars/Tutorial: <u>Total: 3</u>	This course aims to: -Give post-graduates a more specified knowledge on HPLC technique and its applications in nutripharmaceuticals and cosmetics analysis. -Equip them also with key problem-solving in this technique. -Effectively communicate results of scientific inquiries orally and in writing. -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning.
0900701 Computer science and medical informatics	Theoretical: 2hours/week Tutorial: Practical: Total No. of hours: 2 hours/week	-Computer Sciences have shown great advances during the previous years, affecting and enhancing lots of other sciences through their applications in different fields especially in health care. -Introduce different computer applications (including office programmes) to the students that have direct impact on their daily life and that might have a good contribution to their research fields. -Demonstrate theoretical knowledge and have practical skills of the most common computer networks (wired and wireless networks), relational database, and modern programming concepts, introducing basics of programming. -Identify appropriate internet sources and their utilization and evaluation. -Exhibit competence in knowledge and understanding of principles of biomedical Informatics and its applications in health care.
0907702 Advanced chromatographic methods of analysis I	Lectures: 3 Others: Practical: Seminars/Tutorial: <u>Total: 3</u>	This course aims to: -Give post-graduates a more specified knowledge on HPLC and HPTLC techniques and their applications in pharmaceutical analysis, environmental analysis and drug analysis in biological fluids.

		<ul style="list-style-type: none"> -equip them also with key problem-solving in these chromatographic techniques -Apply the specialized knowledge and integrate them with related knowledge in professional practice.
0900703 Spectroscopy	Theoretical 3 hours/week Tutorial: Practical – Total No. of hours: 3 hours/week	This course aims to: <ul style="list-style-type: none"> -Demonstrate theoretical knowledge and have practical skill of the most common instrumental analytical methods -Identify appropriate instrumental methods for certain chemical analysis. -Effectively communicate results of scientific inquiries orally and in writing -Design experiment, implement analysis using the relevant chemical literature, process and analyze the data and, effectively, communicate results orally and in writing -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning.
0900704 Separation techniques and electrochemical analytical methods	Theoretical 3 hours/week Tutorial: Practical – Total No. of hours: 3 hours/week	This course aims to: <ul style="list-style-type: none"> -Demonstrate competence in knowledge and understanding of principles in theory and practice of the most common separation techniques. -Get basic knowledge underlying the current electrochemical analytical methods and their instrumentation. -Gain information about goals of GC, HPLC and capillary electrophoresis. -Know how to select and develop the method of choice to achieve a successful run. -Know the applications of separation techniques in pharmacy.
0907601 Nutripharmaceuticals and cosmetic, their composition and chemistry	Lectures: 2 Others: Practical: 2 Seminars/Tutorial: Total: 4	This course aims to : <ul style="list-style-type: none"> -Demonstrate competence in advanced knowledge and understanding of composition and chemistry of nutripharmaceuticals and cosmetic -Discuss current knowledge in the area of composition and chemistry of nutripharmaceuticals and cosmetic

		<ul style="list-style-type: none"> -Apply analytical and critical thinking in reviewing literature. -Exhibit professionalism and the highest ethical standards. -Effectively communicate results of scientific inquiries orally and in writing. -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning
0907604 Packaging and optimum storage conditions for food stuff. Regulatory and legal concepts	Lectures: 3 Others: Practical: Seminars/Tutorial: Total: 3	This course aims to : <ul style="list-style-type: none"> -Demonstrate competence in understanding the different spoilage mechanisms, the packaging requirements and the quality assurance for packaging. -Identify appropriate packaging materials and storage conditions for various nutraceuticals. -Effectively communicate results of scientific inquiries orally and in writing. -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning
0900702 Physical Chemistry	Theoretical: 2hours/week Tutorial: Practical – Total No. of hours: 2 hours/week	This course aims to : <ul style="list-style-type: none"> -Give post graduates knowledge on chemical kinetics, thermodynamics, polymer science and other topics related to their pharmaceutical studies. -Develop in students the ability to apply their chemical knowledge skills and education in chemistry -Equip them also with key problem-solving in this field of study. -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning.
0907602 Physico-chemical methods of	Theoretical: 2 Others: Practical: 2 Seminars/Tutorial:	This course aims to : <ul style="list-style-type: none"> -Identify appropriate physicochemical methods for certain chemical analysis. -Effectively communicate results of scientific inquiries orally

analysis of nutripharmaceuti cals and cosmetics	<u>Total:</u> 3	and in writing. -Cultivate a professional attitude and develop skills relative to communication, team work, time management and responsibility for individual learning. -Exhibit professionalism and the highest ethical standards.
--	------------------------	---