

برامج الدبلوم
متطلبات المعهد

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IN101	Molecular biology and genetic engineering	Obligatory	2	2	3
IN102	Biotechnology and its applications	Obligatory	2	2	3
IN103	Bioinformatics	Obligatory	2	2	3
IN104	Handling and analysis of scientific data	Obligatory	2	2	3
IN105	Scientific research and report	Facultative	2	2	3
IN106	Advanced microbiology	Facultative	2	2	3
IN107	Quality assurance	Facultative	2	2	3
IN108	Genes, cells & evolution	Facultative	2	2	3

متطلبات برنامج الدبلوم في التقنية الحيوية الصناعية والصيدلية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IPB 101	Chemical and Biochemical Engineering	Obligatory	2	2	3
IPB 102	Microbial Genetics	Obligatory	2	2	3
IPB 103	Biotechnology of Special Systems and Fermentation Technology	Facultative	2	2	3
IPB 104	Immunology and Infectious Diseases	Facultative	2	2	3
IPB 105	Sterilization in Biotechnology	Facultative	2	2	3

متطلبات برنامج الدبلوم في المعلوماتية الحيوية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
BI 101	Bioinformatics and sequence analysis	Obligatory	2	2	3
BI 102	Proteomics and functional genomics	Obligatory	2	2	3
BI 103	Genomics and structural bioinformatics	Facultative	2	2	3
BI 104	Molecular systems biology	Facultative	2	2	3
BI 105	Artificial intelligence	Facultative	2	2	3

متطلبات برنامج الدبلوم في التقنية الحيوية الغذائية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
FB 101	Food microbiology and microbial genetics	Obligatory	2	2	3
FB 102	Food biochemistry and enzyme enzymology	Obligatory	2	2	3
FB 103	Food and dairy biotechnology	Facultative	2	2	3
FB 104	Bio-separation and downstream processing	Facultative	2	2	3
FB 105	Fermentation and enzyme technology	Facultative	2	2	3

متطلبات برنامج الدبلوم في التقنية الحيوية البيئية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
EB 101	Environmental Biotechnology	Obligatory	2	2	3
EB 102	Environmental Management	Obligatory	2	2	3
EB 103	Bioanalytical Techniques	Facultative	2	2	3
EB 104	Microbes in the Environment	Facultative	2	2	3
EB 105	Communicable Disease Control	Facultative	2	2	3

برامج الماجستير

متطلبات المعهد

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IN101	Molecular biology and genetic engineering	Obligatory	2	2	3
IN102	Biotechnology and its applications	Obligatory	2	2	3
IN103	Bioinformatics	Obligatory	2	2	3
IN104	Handling and analysis of scientific data	Obligatory	2	2	3
IN105	Scientific research and report	Facultative	2	2	3
IN106	Advanced microbiology	Facultative	2	2	3
IN107	Quality assurance	Facultative	2	2	3
IN108	Genes, cells & evolution	Facultative	2	2	3

متطلبات برنامج الماجستير في التقنية الحيوية الصناعية والصيدلانية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IPB 201	Biotechnology Development and Regulation	Obligatory	2	2	3
IPB 202	Advanced Organic Chemistry, Glycobiology and Carbohydrate Technology	Obligatory	2	2	3
IPB 203	Spectroscopic Tools for Chemistry	Facultative	2	2	3
IPB 204	Molecular Modeling	Facultative	2	2	3
IPB 205	Immunology and Biotechnology of Special Systems	Facultative	2	2	3

متطلبات برنامج الماجستير في التقنية الحيوية الغذائية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
FB 201	Genetically Modified Foods and Gene Technology	Obligatory	2	2	3
FB 202	Advanced Food chemistry and biotechnology	Obligatory	2	2	3
FB 203	Microbial Food Spoilage, Metabolism and fermentation	Facultative	2	2	3
FB 204	Food Nanotechnology and Bioprocess Engineering	Facultative	2	2	3
FB 205	Microbial food borne diseases	Facultative	2	2	3

متطلبات برنامج الماجستير في التقنية الحيوية البيئية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
FB 201	Environmental management systems	Obligatory	2	2	3
FB 202	Industrial Management and Cleaner Production	Obligatory	2	2	3
FB 203	Molecular Enzymology and Biocatalysis	Facultative	2	2	3
FB 204	Environmental Toxicology	Facultative	2	2	3
FB 205	Quantitative Genetics, Plant Breeding and Cultivation Technology	Facultative	2	2	3

برامج دكتوراه الفلسفة

متطلبات المعهد

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IN301	Advanced Bioinformatics	Obligatory	2	2	3
IN302	Advanced Biotechnology	Obligatory	2	2	3
IN303	Advanced Biochemistry and protein structure	Obligatory	2	2	3
IN304	Molecular genetics techniques and markers	Obligatory	2	2	3
IN305	Applied Molecular Biology	Facultative	2	2	3
IN306	Fermentation and enzyme technology	Facultative	2	2	3
IN307	Plant Molecular Physiology	Facultative	2	2	3
IN308	Chemical and Bio-analysis	Facultative	2	2	3

متطلبات برنامج دكتوراه الفلسفة في التقنية الحيوية الصناعية والصيدلانية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
IPB 301	Biochemical Engineering	Obligatory	2	2	3
IPB 302	System Biology and Biological Networks	Obligatory	2	2	3
IPB 303	Microbial Ecology	Facultative	2	2	3
IPB 304	Molecular Genetics	Facultative	2	2	3
IPB 305	Prokaryote Molecular Biology	Facultative	2	2	3

متطلبات برنامج دكتوراه الفلسفة في التقنية الحيوية الغذائية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
FB 301	Advanced Food Biotechnology and Genetically Modified Foods	Obligatory	2	2	3
FB 302	Advanced Food Microbiology and Microbial Food Spoilage	Obligatory	2	2	3
FB 303	Microbial metabolism, Genetics and Biotechnology in Foods	Facultative	2	2	3
FB 304	Biopreservation and Bio-process technology	Facultative	2	2	3
FB 305	Advanced Food chemistry and analysis	Facultative	2	2	3

متطلبات برنامج دكتوراه الفلسفة في التقنية الحيوية البيئية

Course code	Course title	Status (O./F.)	Hours		
			Th.	Pr.	Credit
EB 301	Ecosystem goods and serviced and climatic change	Obligatory	2	2	3
EB 302	Ecology, Biodiversity & Conservation	Obligatory	2	2	3
EB 303	Conservation genetics	Facultative	2	2	3
EB 304	Biological industrial effluents treatments and waste management	Facultative	2	2	3
EB 305	Environmental risk assessment and Systems Analysis	Facultative	2	2	3

ترم أول (متطلبات المعهد) ترم ثان (متطلبات البرنامج)