# Sample of SDGs courses description

	Description
Food Safety	Introduction to the concept of food hygiene and its importance. Food borne infections and intoxication and the problem of residues in foods. Hygienic requirements in food production and harvesting areas and in food establishments with emphasis on hygienic food handling, processing, and storage. Personal hygiene and health requirements, cleaning and disinfecting and pest control as well as the application of hazard analysis critical control point (HACCP) system in food establishments, and workplace safety standards.
Ecologyy and Sustainable Production	This course deals with the main principles of sustainable agriculture, as well as farming production systems that aim to enhance the health of the environment, natural resources and improve horticultural farm income. This course will also, provide a base of knowledge of the principles of alternative horticulture farming systems including soil biological processes (compost, humus, fertility, and pest management.
Health, Safety, and Professional Environment	The overall aim of this course is explaining the work environment and outlining the methods of protecting people and others at work. It provides examining the most known dangers of distinguishing dangers of chemical and biological materials, falling from high floors, physical dangers, fire, electricity, other types of dangers, and how they influence health, work safety, controlling dangers and risks, to reduce the potential damage in case of any accident. The course also explains the hierarchy of dangers control processes, methods, and techniques of personal safety, first aid methods in case of human causalities, and knowing the Jordanian legal requirements and national codes for protecting workers and employees.
Waste Management and Composting	Integrated sustainable waste management; Organic waste generation and characterization; Organic waste collection and transport; Organic waste treatment technologies;

Hydrochemistry	Origin of water, properties, influence of soil and aquifer	
and Water Quality	materials on groundwater quality. Classification and	
and water quanty		
	assessment of groundwater quality. Changes in drinking	
	water quality and quality criteria, water pollution and	
	physiochemical treatment.	
Wastewater	Composition and characterization of wastewater and	
Treatment and	sludge, Wastewater microbiology, Municipal wastewater	
Reuse:	treatment systems including physical unit operations	
	(physical treatment) and biological unit processes	
	(biochemical treatment), treatment and disposal of sludge,	
	and wastewater reuse.	
Soil, Water, and	Basic relationships between soil, plant, and water make it	
Plant	possible to better manage and conserve irrigation water.	
Relationships:	Review physical laws of solutions: vapor pressure, solution	
	potential, and latent heat. Soil water terminology. Physical	
	characteristics of soil, soil and water interactions, available	
	soil water, and how plants use water to determine what	
	crops to plant and when to irrigate. Review irrigation	
	scheduling that determines when and how much water	
	needs to be added to a crop's root zone to promote	
	optimum yields.	
Pests and Diseases	This course is designed to contribute to the enjoyment and	
of Honeybees	profitability of honeybees by giving you the knowledge and	
	skills to recognize and manage their pests and diseases.	
Organic Farming	Method of preparation and fermentation of organic	
	materials, factors affecting its fermentation, effect of	
	microorganisms, effect of organic materials, on the soil and	
	its content of nutrient elements, its effect on production	
	and quality of fruits, methods, and time of applications.	
Biological Control	Biological pest control concepts, environmental aspects,	
	ecology, and strategies. Conservation and augmentation of	
	natural enemies. Importation and colonization of natural	
	<u>'</u>	

	enemies from abroad. Examples of successful utilization of		
	parasitoids, predators, and microbial agents. Biological		
	control ecology.		
Organic Chemistry	Study the chemical properties of the compounds is cyclic,		
	clarify the nature of inter-linkages in the molecules, the		
	study of public reactions and the stereochemistry of these		
	compounds. Includes the study of alcohol and aromatic		
	compounds, chemical reactions, substitution reactions of		
	various types, some of these mechanical interactions,		
	methods of analysis of different kinds of class to determine		
	the composition of the binary compounds.		
Principles of	Learn about the basic principles in psychology and the		
Psychology	experimental origins on which psychological knowledge is		
	based, a presentation of the concept of psychology, its		
	origin, development, and branches, with a focus on		
	psychology schools of learning, motivation, personality,		
	memory, psychological disorders, and intelligence.		
Communication	Definition of communication, its nature, types and		
skills	components, its models and characteristics, the efficiency		
	of communication, studying some misconceptions about		
	communication, mental perception and self-concept, the		
	relationship between verbal communication and non-		
	verbal communication, and writing a CV and interview.		
Agriculture in	This course covers topics related to the development and		
Jordan	development of agriculture and its global, Arab and local		
	importance, agricultural climate, elements of plant		
	production in rainy and irrigated areas, animal production,		
	marketing of agricultural products, water sources and their		
	uses. Agricultural operations used. Agricultural pests and		
	methods of combating them, agricultural mechanization,		
	food industries. Institutions and bodies working in the		
	agricultural service in Jordan.		

<b>Environment and</b>	The proposed course provides a general and			
society	comprehensive description of the environment: its			
	definition, evolution, and the benefits that can be achieved			
	through preserving environmental resources. In addition to			
	addressing the relationship between society and			
	environmental resources. The course also discusses topics			
	known as the environmental reality in Jordan in terms of			
	the nature and types of ecosystems, the most important			
	environmental problems facing Jordan and their			
	implications for society in general, not only from an			
	environmental aspect, but also from a health, social,			
	economic, and developmental aspect.			
General	Phylum Arthropoda and its main classes. External anatomy			
entomology	including head, thorax, abdomen, and their appendages.			
	Internal anatomy including digestive, endocrine,			
	respiratory, circulatory, nervous, and reproductive systems.			
	Development, metamorphosis, and insect taxonomy are			
	also covered.			
Principles of	This course is an introductory course that covers			
Microeconomics	fundamentals of Microeconomics with major emphasis on			
	the theory of the market system. The course introduces			
	economic concepts and analysis, demand and supply			
	analysis, elasticity concepts, theories of the individual and			
	the firm behavior mainly consumer and producer choice			
	and how they interact to determine prices, output and			
	resource allocations. The course also covers market			
	structure, in particular competition, monopoly,			
	monopolistic competition, and oligopoly.			
Economic	This course introduces the theory and practice of cost-			
<b>Feasibility Studies</b>	benefit analysis and its link to basic economic and financial			
and Projects	theory. Topics include: discounting and the valuation of			
Evaluation	benefits and costs, projects' appraisal phases including;			

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	economic, market and financial study, risk analysis, time		
	value of money, and criteria for projects evaluation.		
	Students will analyze and investigate contemporary cases		
	from areas in economics and finance that are related to		
	public policy issues and private projects.		
Environmental	Basic principles of environmental management;		
Resources	Environmental and sustainable development objectives;		
Management	Nature's ecosystem services; Global environmental trends		
	and issues Complexity; Managing biodiversity; pest and		
	weed management; Soil, sediment, air and water –		
	environmental degradation; Overview of environmental		
	resources management assessment; Production,		
	consumption, urbanization and extractive industries; The		
	ecosystem approach and adaptive management; Strategic		
	Management and SWOT Analysis.		

Al-Balqa Applied University Faculty of Graduate Studies Dept. Water Resources & Environmental Management



جامعة البلقاء التطبيقية كلية الدراسات العليا قسم إدارة موارد المياه والبينة

## جامعة البلقاء التطبيقية

# الخطة الدراسية لدرجة الماجستير في إدارة موارد المياه والبيئة / مسار الشامل

تتكون الخطة الدراسية لدرجة الماجستير في تخصيص إدارة موارد المياه والبيئة من 33 ساعة معتمدة موزعة على النحو الآتي:

الساعات المعتمدة	المتطلبات	المسار
21	أ. مواد إجبارية	
12	ب. مواد إختيارية	السامل
-	ج. الإمتحان الشامل	
33	المجموع	

Sample of dedicated SDGs specific courses (full degrees)

Master's degree in Water Resources and Environmental Management



#### جامعة البلقاء التطبيقية

### الخطة الدراسية لدرجة البكالوريوس في تخصص إدارة موارد المياه والبيئ

تتكون الخطة الدراسية لدرجة البكالوريوس في تخصص (إدارة موارد المياه والبينة) من (135) ساعة معتمدة موزعة على النحو الأتي:-

عدد الساعات المعتمدة	المتطلبات	السرقسم
27	متطلبات الجامعة وتشمل :	أو لا:
21	متطلبات الجامعة الإجبارية	
6	متطلبات الجامعة الإختياريــة	
22	متطلبات الكلية	ثانيـــا:
76	متطلبات التخصص وتشمل:	ثالثا:
70	متطلبات التخصص الإجبارية	
6	متطلبات التخصص الإختياريــة	
10	متطلبات التخصص المساندة	رابعـــا:
135	المجم وع	

Sample of dedicated SDGs specific courses (full degrees)
Bachelor's degree in Water Resources and Environmental Management



# تكنولوجيا الطاقة المتجددة

#### مجالات العمل و مميزات التخصص

- تركيب وصيانة وحدات الطاقة الشمسية عمل خاص وعمل لدى شركات متخصصة
  - فنب صيانة وتركيب الخلايا الشمسية وتوربينات الرياح لدى شركات الطاقة
    - فني طيانة لدى شركات الكهرباء فني لدى محطات توليد الطاقة

مميزات التخصص عدم نفاذ الطاقة المتجددة ،السرعة في امتلاك الخبرة والمعرفة ، زيادة الحاجة لطاقة في المستقبل مما يؤدي الم زيادة الطلب عليها ، الطاقة المتجددة صديقة للبيلة وليس لديها مخاطر







72 ساعة

Sample of dedicated SDGs specific courses (full degrees) **Associate Diploma degree in Renewable Energy**