No.	The Subject or Topic Which Support SDG	Summary Description of subject	Percent %
1	Concrete Properties	The current course is designed for the undergraduate students in order to provide them with a well understanding of both properties of concrete (in fresh and hardened stages) as well as its raw materials.	10 %
2	Engineering Economic	This course inculcates the fundamental principles of Engineering Economy as applicable in Civil Engineering Projects.	8 %
3	Health & Environmental Engineering	This course introduces fundamental concepts in the field of water treatment plants and the design of units' operations associated with conventional water treatment plants.	7 %
4	Heat Transmission II	Use of environmentally friendly alternative energy sources to reduce fossil fuel-based energy sources.	25 %
5	Environment Engineering	Solid waste management and recycling to benefit again in the manufacture of other materials independently or on the image of composite materials.	10 %
6	Renewable Energies	The material includes renewable energies foundations through the study of wind, solar, underground energy and solar complexes and is given to students in the fourth stage.	80 %
7	Advanced Renewable and Sustainable Energies	The subject includes the study of several types of renewable and sustainable energies in an advanced manner and gives postgraduate students the branch of capability.	80 %
8	Electronic Ability	Know the electronic elements and their properties, study some DC interrupters, study reflectors to convert the constant source voltage into rotating voltage, and control the electronic key ignition circuits.	20 %
9	Advanced Communications	Dealing with insertion and gesture systems with proliferating spectrum technology, clarifying the concepts of advanced communication systems such as satellites, positioning systems and radars	10 %
10	Theory Of Control 1	Correct understanding of control systems working methods, theoretical study and analogy on computers of control theories, design of traditional controllers of all control systems, creation of sports models for any physical system.	10 %
11	Theory Of Control 2	Correct understanding of control systems working methods, theoretical study and analogy on computers of control theories, design of traditional controllers of all control systems, creation of sports models for any physical system.	10 %

		Introduction to the structure of electrical power	
12	Electric Capacity 1	systems, identification of types of generating systems, whether conventional or renewable energy systems, including solar energy systems, as well as electrical design to calculate elements of electrical transmission lines.	10 %
13	Electronic Foundation 1	Understand diode and transistor work, study different bias techniques for diode and transistor operation, analyze output in different operating modes of different semiconductor devices.	10 %
14	Electronic Foundation 2	Understand diode and transistor work, study different bias techniques for diode and transistor operation, analyze output in different operating modes of different semiconductor devices.	10 %
15	Electromagnetic Fields 1	The study of electromagnetic fields has a crucial role in modern technology: the production, conversion and distribution of electrical power, and to understand this it is necessary to study the law of Colum and the density of the electric field, the density of electrical flow, the law of Gauss and distancing, power and power insulators and capacity, and the equations of Boisson and Laplace.	20 %
16	Electromagnetic Fields 2	To understand and address the behavior of electrical and magnetic fields, a fixed magnetic field, magnetic forces, materials and inductions, time-changing areas, and Maxwell equations must be studied.	20 %
17	Electronic 1	Study basic components of electronic circuits such as transistors, multi-link analysis respectively for transistors, study of signal amplifiers, as well as design, analysis and frequency response to those circuits.	30 %
18	Electronic 1	Study of basic components of electronic circuits such as transistors, multi-link analysis respectively for transistors, study of signal amplifiers, as well as design, analysis and frequency response to those circuits.	30 %
19	Electrical Physics	Learn basic concepts of physical laws and how to apply them, learn some physical laws that are important in the stability and movement of objects, learn the kinds of renewable energies and types in the age of modern physics and evolution, learn modern mathematical methods to solve physical issues.	10 %
20	Environment Engineering	Wastewater treatment, wastewater treatment plant design and recycling	60 %
21	Health Engineering	The subject is concerned with the topics of water treatment and the designs of drinking water treatment plants and the specifications required for drinking water.	60 %

22	Design And Evaluation of Field Irrigation Systems	The material is interested in identifying the principles of irrigation systems and ways of designing and operating them.	40 %
23	Groundwater Hydrology	It aims to teach students the basics and methods of estimating the quantity of groundwater, ways of extracting it, predicting its quantities, and expenses. Learning groundwater hydrology can contribute to sustainable development by enhancing food security, access to drinking water and adaptation to climate change.	30 %
24	Quality Control of Water	The substance is concerned with the topics of types of water contaminants, methods of calculation and laboratory examination, determinants of drinking water and dissertations to the environment.	50 %
25	Engineering Hydrology	Topics of water harvesting and water cycle in nature and study techniques for calculating rainwater quantities and climate changes.	30 %
26	Applications Of GIS In Hydrology	The substance is interested in using remote sensitization systems to study water hydrology and climate change conditions such as applying GIS and knowing and guessing the water quality of remote rivers.	30 %
27	Puncture Engineering	The substance is concerned with the identification of the principles of the Puncture systems and their design, types and operation and the impact of salinity on rivers and their specifications.	30 %
28	This Subject Aims to Concern And Preserve Natural Resources For Future Generations	The concept and definitions of development, theories that concern the place and its development 3. Urban development, regional development and developing pole theories, human resources development Overall development indicators, sustainable development	75 %
29	Students Can Learn About The Environment, The Most Important Problems And Ways To Address Them	Air pollution, air pollution sources, water pollution, water pollution sources, soil pollution, soil pollution causes, noise pollution/pollution/noise causes/air pollution treatment, water pollution treatment	90 %
30	Students Know About The Application Of Statistical Equations By	Evaporation mechanics, formulas and balances, waterway orientation, vertical distillation and its relationship to non-saturated runoff/analysis elements in hydrology, runoff and watershed response to	

	Water Drainage And Climate Balance	fall/description of historical theories of nature's water cycle/groundwater, water nutrition/water harvesting.	
		Constant Nation of Citize Uthering City	92 %
31	Composition Of The City And The Uses Of The Land Within The Cities	Classification, Inner Composition of Cities Urban Land Uses, City Dwellers, City Location and Internal System Concept	50 %
32	Identification Of Natural Resources As Concepts, Classifications, Main Divisions, Human Importance, Geographical Distribution, Problems And Methods Of Conservation.	Distribution of natural resources: the importance of natural resources Classification of natural resources First. Water resources: plant resources Mineral resources, conservation of natural resources, natural resource problems Topographic seabed such as oceans, ocean sections	95 %
33	The Concept Of Soil And Its Relationship With The Rest Of The Science, The Factors And Processes Of Its Composition, Its Physical, Chemical And Biological Characteristics, The Species Of Soils, Their Spatial Distribution, The Impact Of Agricultural Processes On Them, Their Problems And Ways Of Treating Them	Evolution of soil science and its relationship with other science and soil concepts, soil formation processes, soil formation factors, soil physical properties (depth, tissue, construction and porosity(The physical properties of the soil (real and phenomenal density, moisture content, filter, soil color and soil heat(Chemical properties of soil (organic matter, PH and salinity(Chemical properties of soil (positive and negative ions and soil content of minerals), first-month exam.	92 %
34		 Highlighting the role of education and learning in achieving goals and aspirations Joint pursuit. Promote the improvement of the quality, quality and requirements of education. 3-Enabling students' self-reliance; To achieve learning requirement Lifetime. 4-Provide students with social and emotional skills to develop themselves. 5-Contribute to developing and 	2.5%

	Shaping new visions of variables and the world's shape.	
	6-Radical change in the content, results and teaching methods of education The way of thinking is reflected in behavior and	
	behavior.	
35	 -1-Providing knowledge and awareness of the relationship between health and the environment Understanding environmental impacts on public health 2-Enhancing environmental awareness where environmental health education aims at 3-Raising students' awareness of the importance of maintaining a clean and healthy environment. 4-Encouraging students to take action to preserve the environment mitigating pollution and promoting sustainable environmental practices. . £ Aims to encourage students to make healthy decisions Take action to maintain their health and that of the environment 	7.3%
36	 1-Providing knowledge and awareness of the relationship between health and the environment 2-Understanding environmental impacts on public health Enhancing environmental awareness where environmental health education aims at 3-Raising students' awareness of the importance of maintaining a clean and healthy environment. 4-Encouraging students to take action to preserve the environment Mitigating pollution and promoting sustainable environmental practices. .[£]Aims to encourage students to make healthy decisions Take action to maintain their health and that of the environment 	7%
37	 Highlighting the role of education and learning in achieving goals and aspirations Joint pursuit. Promote the improvement of the quality, quality and requirements of education. 3-Enabling students' self-reliance; To achieve learning requirement Lifetime. 	7.3%

Number of Courses/Subjects Related to Sustainability Offered			
		University of Anbar	
		4-Provide students with social and emotional skills to develop themselves.	
		5-Contribute to developing and Shaping new visions of variables and the world's shape.	
		6-Radical change in the content, results and teaching methods of education The way of thinking is reflected in behavior and behavior.	
38		1-Highlighting the role of education and learning in achieving goals and aspirations Joint pursuit.	7.3
		2-Promote the improvement of the quality, quality and requirements of education.	
		3-Enabling students' self-reliance; To achieve learning requirement Lifetime.	
		-£4-Provide students with social and emotional skills to develop themselves.	
		-5-Contribute to developing and Shaping new visions of variables and the world's shape.	
		Radical change in the content, results and teaching methods of education. 6-The way of thinking is reflected in behavior and behavior	
39		 -1-Providing knowledge and awareness of the relationship between health and the environment 2-Enhancing environmental awareness where environmental health education aims at Raising students' awareness of the importance of maintaining a clean and healthy environment. 3-Encouraging students to take action to preserve the environment Mitigating pollution and promoting sustainable environmental practices. 4-Aims to encourage students to make healthy decisions And take action to maintain their health and that of the environment. 	3.3%
40	Plant Morphology	Subject taught at the third stage - in the department.	25%
41	Biotechnology	Subject taught at the third stage.	25 %
42	Environment And Pollution	Subject taught at the fourth stage.	30 %

43	Safety And Chemical Security	Subject taught at the first stage – in the department.	20 %
44	Modern Criticism	Single Environmental Criticism in the Subject Studied in fourth stage - in the department.	5 %
45	Applied Geomorphology	Subject taught at the third stage.	25 %
46	Environment And Pollution	Subject taught at the fourth stage.	20 %
47	Environment And Pollution	Subject taught at the fourth stage.	20 %
48	Environment And Pollution	Subject taught at the fourth stage.	30 %
49	Hydrology	Subject taught at the second stage.	20 %
50	Oil And Energy	Subject taught at the second stage.	30 %
51	Detailed Climate	Subject taught at the third stage.	35 %
52	Advanced ecology (master's/postgraduate programme)	 -Classification Of Wastes, Their Types And Methods Of Handling Them By Specialization -Recycle Waste And Get Raw Raw Materials -Types Of Renewable Energy And How To Make Use Of Them In The Area Of Sustainable Development -Bio-Processing Of Environmental Waste And Ways Of Utilizing It And Transforming It Into Useful Materials -Methods Of Clearance Of Toxic And Contaminated Substances And Elements Of The Environment 	12%
53	Environment and pollution (Stage IV/preliminary studies)	 -How To Deal With Solid Waste And The Types And Methods Of Processing It Into Organic Fertilizer Or Burning It In Special Incinerators Or Biogas Generation. -Recycling Waste -Renewable Energies (Types, Importance, Application Capabilités. 	14%
54	Sustainable Development	Give a comprehensive picture of the concept of sustainable development and a historical overview of the evolution of this concept and a picture of sustainable development and its conferences and highlight the scientists who have addressed this concept to create a complete concept of sustainable development among students to achieve the development of new concepts and experiences.	100 %
55		Give a picture of facilitating communication between various development actors, including Governments, communities and non-governmental organizations. And empowering individuals and communities to express their needs and desires, and to participate in decision-making that affects their lives. And	

	Number of Courses	s/Subjects Related to Sustainability Offer	ed
		University of Anbar	
	Linguistics	promoting understanding and cooperation among different cultures, creating a basis for inclusive and equal development. Dialogue, participation and providing tools for constructive dialogue and discussions on sustainability issues. Support stakeholders' participation from different backgrounds and ensure that their perspectives are integrated into decision-making processes. and the protection of linguistic diversity and cultural heritage. Linguistics and sustainable development and implementation of appropriate linguistic strategies.	5 %
56		Give the student a perception of zakat as being one of the five pillars of Islam, a financial hypothesis imposed on Muslims able to purify their money and help those in need. Zakat has an important role to play	10%
	Jurisprudence - Zakaah Door	in achieving sustainable development through the principles of zakat jurisprudence relevant to sustainable development: through social solidarity where the rich contribute part of their wealth to help the poor and the needy. This creates a more just and balanced society. In addition to economic justice, zakat aims to redistribute wealth and close the gap between rich and poor. By ensuring universal access to minimum resources, zakat can help create a more stable and sustainable economy.	
57	Human Rights	Give a picture of how closely human rights and sustainable development are linked, as both are necessary to create just, equal and healthy societies. The role of human rights in sustainable development is characterized by providing a framework for the protection and promotion of human dignity, equality and justice. It also provides an adequate standard of living, including the right to food, water, shelter, education and health. Ensuring everyone's participation in decision-making affecting their lives, including development decisions. and protecting the environment for present and future generations.	10 %
58	Economics Of The	The Subject includes addressing natural resources and their scarcity and preservation and is one of the objectives of sustainable development.	16 %
59	Agriculture Development	The Subject addresses the concept, objectives, theories and ways of achieving agricultural development.	10 %

60			
60		Production of plants resistant to living stress	1 = 0/
	Plant Tissue Cultivation		15 %
61	Feed The Plant	Nutrition is one of the most important sciences that keeps the plant alive and gives it all the nutrients it needs that work towards achieving the sustainable development goals of all plant coverings.	30 %
62	Advanced Plant Environment	The study of environmental data in both climatic and soil factors is summarized. Which is the main incubator of the plant and its surroundings? Agricultural crops are affected by climatic data This requires consideration of the climate world as part of the study factors in all postgraduate research. And never neglect it at all As a means of preserving local varieties that have been extinct due to climate change and their ineffective environment.	70 %
63		Ornamental plants include many different plants,	
		including for aesthetic and healthy purposes.	
	Ornamental Plants		25 %
		Constant of the Theory in the Constant of the section of the	
64	Inheritance Of The Plant	complete article The principles of genetics and other science associated with this science and modern methods in developing the production of plants suited to increasing production and improving quality.	10 %
65	Garden Engineering/Fourth Stage	Give lectures on sustainability and its relevance to parks, outdoor spaces and mechanisms or means of achieving the sustainability of parks and outdoor spaces in their three environmental, social and economic dimensions and how to achieve them in the proposed designs.	10 %
66	Cultivation Of Green Fruit Trees	Cultivation of fruit trees is concerned with cultivating species and varieties that have the potential to resist environmental conditions and volatility.	30 %
67	Theoretical And Practical Foundations Of Plant Multiplication In The Sexual And Vegetative Way	Multiplying the plant by using seeds containing embryos resulting from pollination and fertilization and the advantage of the resulting plants, multiplying the plant by other vegetative methods and its advantages and how to conduct it.	25 %
68	Anatomy Of The Plant	Students can acquire knowledge and science in the field of plant anatomy, plant cells, components and functions.	15 %

69		Plant breeding is the basis for vertical expansion of	
		expansion is hoped for in the future.	
	Plant Breeding		50 %
70	Design And Analysis Of Agricultural Experiments	Study the design and analysis of biological and agricultural experiments and identify the implementation of experiments and statistical readings of experiments and identify the pros and cons of experiments.	15 %
70	Plant Husbandry (Breeding Strains And Production Of Camels And Varieties)	Plant husbandry is the basis for vertical expansion of agricultural production and is much hoped for for horizontal expansion in the future. Production of varieties is important due to monopoly by companies and developed countries.	30 %
71	Advanced Field Crop Production And Crop Management	The course is designed to study sustainable development as one of the effective methods of ensuring food security, especially after environmental developments, problems of climate change, soil salinity and drought.	20 %
72	Crops With Buckets	This course defines students as winter and summer legume crops, their scientific names, vegetable descriptions, economic importance, dates and methods of cultivation, the most important impediments to their productivity, environmental conditions affecting their growth, increased productivity, and the most important pests and diseases affecting the family's plants and ways of combating it.	25 %
73	Essentials Of Crops	Students' knowledge of the importance of field crops and their role in providing food and supplying factories with the raw materials that need it.	20 %
74	Plant Growth Organizations	Acquiring knowledge of the basics of science related to plant growth. -Know how to control growth by treating plant growth organizations. and their use in sustainable development -Know the methods, additions and types of plant growth organizations. -Enabling students to acquire knowledge and understand the hormonal plant's needs. -Enabling students to gain knowledge and understanding of ways to improve hormonal growth. The most important plant hormones and the treatment of the phenomenon of hibernation and its importance to the plant can be used in biological and biological stresses	5 %

Number of Courses/Subjects Related to Sustainability Offered			
		University of Anbar	
75	Biochemistry	Be interested in knowing which chemicals are used to feed the plant and know the harmful effect of these substances on the environment and living organisms as well as what effective compounds and substances are stored in the plant.	40 %
76		Oily and sugary crops contribute to the food security	
	Oil And Sugary Crops	of the individual and society, because they are economically important crops and their outputs provide an important and irreplaceable food commodity for all peoples because they are involved in the manufacture of most food items.	15 %
77	Plant Growth Organizations	Know how to control growth by treating plant growth organizations. and their use in sustainable development -Know the methods, additions and types of plant growth organizations. -Enabling students to acquire knowledge and understand the hormonal plant's needs. -Enabling students to gain knowledge and understanding of ways to improve hormonal growth. The most important plant hormones and the treatment of the phenomenon of hibernation and its importance to the plant, can be used in biological and biological stresses	40 %
78	General Plant	The study of this course aims to introduce the student to what biology and its branches are, how this science evolves and the contributions of scientists to the evolution of the science of the division and classification of organisms, and aims to introduce the student to the owners of organisms and the foundations on which the organisms were divided into different kingdoms.	35 %
	Production Of Strategic Crops	The production gap supports the country's food security in terms of self-sufficiency and labour supply.	20 %
79	Principles Of Field Crops	Teaching students the basics of field crop science in theoretical and applied terms and providing them with the required knowledge in the cultivation of field crops and how to handle, manage, produce and improve them and master the various crop service processes from agriculture to maturity and post-harvest processes as well as study how to conserve and maintain the soil, sustainability of its productivity and mastery of modern irrigation methods.	25 %
80		It is a science that is interested in the study of seeds and the production of improved seeds with high productivity and good quality resistant to drought and environmental conditions and the establishment of a homogeneous field at its lowest cost and less time	

		through ways of activating, stimulating and resisting	
		seeds for environmental fluctuations and climatic	
		conditions and supportive of sustainability in the	
		provision of food security at critical times and of good	
	0 1 7 1 1	quality and high productivity at appropriate times.	15.0/
	Seed Technology		15 %
	Material		
81		Providing students with statistical information in	
		support of their knowledge aspect	
		-Familiarize students with the methods of applying	
	Statistical	statistical laws and obtaining results, taking advantage	50.9/
	Statistical	of the application of statistical laws in sports	30 /0
		education	
82		The following study involves:	
02		The following study involves.	
		Importance of rengelands, variation and postures in	
		-importance of rangelands, varieties and pastures in	
		Iraq The immediate f	
		The impacts of	
		-overgrazing on plants and soll in natural pastures, the	
		proper care of pastures, the study of the assessment of	
	Natural Pastura	animal loads and the importance of pasture in soil and	20.0%
	Management	water conservation	20 /0
	Management	-Natural pasture restoration methods for degraded	
		pastures	
		-Poisoning and blowing in pasture animals causes and	
		methods of prevention and treatment.	
83		The following study includes:	
		-Characteristics, damage and benefits of bushland	
		Natural and industrial classification of bushland	
		-The proliferation and spread of bushes and ways of	
		preventing their spread	
		-Hibernation and vitality in bush seeds	
		-Jungle antibiotics (competition and eloppathy)	
		-The physiological and chemical nature of bush and	
	Jungle Life	sprout seed hibernations in the perennial bush.	20 %
84		Recognize the vital processes occurring in plant cells	
		from growth, reproduction, plucking, cellular	
		respiration, photosynthesis and all metabolic	
		processes as well as their relationship to plant	10.0/
	Plant weaving	hormones	10 %
85		Work to grow fiber crops with little water need and no	
05		soil stress and improve productivity and quality with	
		climate change conditions	20.0/
	riber Crops	ennate enunge conditions.	20 %0
86		Access to modern technologies and developments	
		related to plant classification to identify plant species	
		that serve sustainable development for inclusion in	
	Plant Taxonomv	classified plant aggregates.	20 %
	5		

	Number of Courses/Subjects Related to Sustainability Offered			
		University of Anbar		
87	Environmental Stress	The subject of environmental stress is concerned with familiarizing the student with the environmental stress caused by extreme conditions and their implications for plants, recognizing the life and life factors relevant to environmental effort, as well as the types of stress and representational and metabolic processes of the plant under stress conditions. As well as the impact of this stress on plants and its forms. How does the plant resist that effect and what is the damage caused by that effect? Access to up-to-date technologies related to environmental effort.	35 %	
88	Cheese And Brown Fermentation Industry	The cheese and fermentation industry is one of the outputs in the preservation of milk. Milk is one of the most important products of milk livestock and milk is fast-damaged. Therefore, the making of cheese and construction conferences is a preservation and durability of milk and the production of products for the building that sings the human need for daily consumption.	30 %	
89	Forage Crops And Pastures, Overlapping Cultivation (Foraged Mixtures). Drought- Resistant Fodder Crops, Salinity And Salt And Dry Land Cultivation.	Gospel feed crops are depleted for soil fertility, cultivated overlapping with legume feed crops achieves sustainable soil fertility. Drought-resistant crop cultivation reduces water consumption. cultivation of saline-resistant crops for the reclamation of salt land. The right methods for planting dry, saline and dynamic lands, for sustainability it.	30 %	
90	Therapeutic Feeding	Nutrition Course is concerned with the presentation of diseases suffered by society and highlighting therapeutic protocols and how to strengthen nutrition metabolism to improve public health.	90 %	
91	Microscopic Soil Neighbors	Microbiology aims to activate and activate the role of beneficial microbiology in the soil, whether bacteria, fungi, algae or primitive, which promotes soil health and sustainability by increasing soil fertility and improving its physical and chemical qualities. It stabilizes certain elements in the soil such as nitrogen and facilitates the readiness of other elements such as phosphorus, potassium, iron, magnesium, calcium, zinc and copper. S health and sustainable productivity and improved plant growth and productivity in quantity and quality.	10 %	
92		Biomedicine means the use and addition of one or several types of microscopic soil neighborhoods to agricultural fields to take advantage of the activity of these organisms, whether bacteria, fungi, algae, or		

	Number of Courses/Subjects Related to Sustainability Offered		
		University of Anbar	
	Bio-Fertilizer	Primates, which promote soil health and sustainability by increasing soil fertility and improving their physical and chemical qualities. They stabilize certain elements in the soil such as nitrogen, facilitating the readiness of other elements such as phosphorus, zinc, potassium, potassium, s health and sustainable productivity and improved plant growth and productivity in quantity and quality.	10 %
93	Organic Matter	Study the sources of organic matter and humic acids, their qualities, transformations and methods of manufacturing, recycling the residues of cities and homes and turning them into environmentally friendly fertilizers for a sustainable environment.	99 %
94	Revive The Microscopic Soil	The material explains the aggregates of soil revitalization, biodiversity, growth, reproduction, vital effectiveness and role in the recycling of nutrients, analysis of organic compounds, stability of the ecosystem in the soil environment, provision of protection requirements, plant growth for the production of safe food, and study of the most important biodiversity fertilizers and additives, including the stabilization of atmospheric nitrogen for phosphorus, potassium and other additives.	20 %
95	Irrigation Systems Technologies	The lesson maximizes water utilization, including water reuse.	5 %
96	Agricultural Machinery	The use of agricultural machinery has a very significant and effective role in the durability of production and the growth and prosperity of the economy.	70 %
97	Soil Chemistry	Preservation of the chemical soil's characteristics and its relationship to the health, sustainability and improvement of agricultural soils and prevention of degradation it.	100 %
100	Soil Principles	Know what soil consists of and what its contents are and then how it is classified and what its physical, chemical and biological fertility properties are and how its qualities and tricks are preserved to prevent its degradation and sustainability it.	40 %
101	Know The Basic Methods Of Calculating The Drug Dose To Contribute To The Administration Of Safe	Goal 3: Good health and well-being	60 %

	Number of Courses	s/Subjects Related to Sustainability Of	fered
		University of Anbar	
102	Use Analytical Methods To Know The Types Of Pollutants In Water And How To Purify Water.	Goal 6: Clean water and hygiene	30 %
103	Knowledge Of The Correct Meanings And Practices Of Democracy And The Rights Due To Each Citizen.	Goal 5: Gender Equality Goal 10: Reduce inequalities Goal 16: Peace, justice and strong institutions	90 %
104	Knowledge Of The Wrong Practices Of Repressive Regimes And The Resulting Inequality And Inequality In Social Security As Well As Discrimination Among Citizens.	Goal 10: Reduce inequalities Goal 16: Peace, justice and strong institutions	90 %
105	Find Out The Right Ways To Prepare Different Pharmaceutical Forms To Enrich The Potential Of The Pharmaceutical Industry	Goal 3: Good health and well-being	90 %
106	Know The Right Ways To Prescribe The Drug And Use The Drug Optimally To Achieve The Desired Goal Of Using It.	Goal 3: Good health and well-being	90 %
107	Knowledge Of The Fundamentals Of Community Health And Ways To Combat The Spread Of Epidemics And Raise Community Awareness Of The Dangers Of Epidemiology And Diseases And Ways To Reduce Them.	Goal 3: Good health and well-being	90 %
108	Know The Right Ways To Prescribe The Drug And Use The Drug Optimally To Achieve The Desired Goal Of Using It.	Goal 3: Good health and well-being	90 %

Number of Courses/Subjects Related to Sustainability Offered			
100	Knowledge Of The	University of Andar Goal 3: Good health and well-being	
107	Fundamentals Of The Pharmaceutical Industry		00.0/
	Production Of A Generation Capable Of		90 %
	Guaranteeing The Pharmaceutical Security		
440	Of The Community		
110	Knowledge Of The Fundamentals Of The	Goal 3: Good health and well-being	
	Pharmaceutical Industry		00 0 <i>(</i>
	To Contribute To The		90 %
	Production Of A		
	Generation Capable Of		
	Dhamma a sutional S assumitar		
	Of The Community		
111	Definition Of Optimal	Goal 3: Good health and well-being	
111	Use Of The Drug To	Sour 5. Sood neurin und wen being	90 %
	Achieve The Desired		JU 70
	Goal Of Prescribing The		
	Treatment		
112	Know How To Use	Goal 3: Good health and well-being	
	Patients' Laboratory		
	Analyses As A Means Of		90 %
	Reviewing Therapeutic		
	Oranges To Achieve		
	Patient Safety And		
	Healing.		
113	Know The Types Of	Goal 3: Good health and well-being	
	Contaminants To Which		
	Humans Are Exposed		90 %
	From The Surroundings		
	And Methods Of		
	Treating Poisoning		
114	Cases.	Cool 2. Cood health and mult have	
114	Know The Basics Of	Goal 12: Responsible consumption and production	
	Deliev In Terms Of Deres	Soar 12. Responsible consumption and production	00.07
	Production And		90 %
	Consumption Francis		
	Consumption, Ensuring		
	A voilable To All Without		
	Available TO All Without		
	Loss OI Resources.		

University of Anbar 115 Definition Of Optimal Use Of The Drug To Achieve The Dosired Goal Of Prescribing The Treatment Goal 3: Good health and well-being 90 % 116 Know The Methods Of Calculating The Drug Dose For Pathological Conditions That Affect How The Human Body Handles The Administered Drug, Ensuring That A Safe And Effective Dose Is Administered. Goal 3: Good health and well-being 90 % 117 Knowledge Of Pharmaceutical Analyses Used To Conduct Pharmaceutical Research And Innovate Medicines To Enhance Goal 3: Good health and well-being 90 % 118 Find Out How To Review Therapeutic Oranges To Ensure That There Are No Drug Interventions That Affect The Patients Goal 3: Good health and well-being 90 % 119 Knowing The Right Factors And Ways To Produce Different Pharmaceutical Forms To Contribute To Increasing The Pharmaceutical Industry Goal 3: Good health and well-being 90 % 120 Know The Basin Methods Of Calculating The Drug Dose To Contribute To The Administration Of Safe Medicine. Goal 3: Good health and well-being 60 %		Number of Courses	s/Subjects Related to Sustainability	Offered
115 Definition Of Optimal Use Of The Drug To Achieve The Desired Goal Of Prescribing The Treatment Goal 3: Good health and well-being 90 % 116 Know The Methods Of Calculating The Drug Dose For Pathological Conditions That Affect How The Human Body Handles The Administered Drug, Ensuring That A Safe And Effective Dose Is Administered. Goal 3: Good health and well-being 90 % 117 Knowledge Of Pharmaccutical Analyses Used To Conduct Pharmaccutical Research And Innovate Medicines And Provide Treatment To Patients Goal 3: Good health and well-being 90 % 118 Find Out How To Review Therapeutic Oranges To Ensure That There Are No Drug Interventions That Affect The Patients Health. Goal 3: Good health and well-being 90 % 119 Knowing The Right Factors And Ways To Uncreasing The Pharmaccutical Forms To Contribute To Increasing The Pharmaccutical Industry Goal 3: Good health and well-being 90 % 120 Know The Basic Methods Of Calculating The Drug Doss To Contribute To The Administration Of Safe Medicine. Goal 3: Good health and well-being 60 % 121 Green House Effect 45%			University of Anbar	
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	121	11100101110.	Green House Effect	45%

	The term "glass house" is used to describe how atmospheric gases (carbon dioxide, nitrogen dioxide, sulphur dioxide, methane, ozone, chlorofluorocarbon and others) in the troposphere stabilize the Earth's temperature. These gases allow the passage of visual and UV rays that heat the Earth's surface but prevent the return of reflected infrared rays to space. The "glass house" effect keeps the biosphere within the temperature range that preserves life, and without the greenhouse effect all radioactive heat from the sun will be reflected back into space and the surface temperature will be much lower than zero degrees. It has been found that the concentration of greenhouse gases increases (due to environmental pollution) and the temperature of the biosphere increases as a result, which would cause global warming.	
1	Acid precipitation This is mainly due to the presence of carbon dioxide, nitrogen dioxide and sulphur dioxide in water vapour to produce carbonic acid, nitric acid and sulphuric acid hence.	
	Depletion of the ozone layer The stratospheric ozone layer is 12-24 km from the Earth's surface. This layer protects against the harmful biological effects of UV light. The stratospheric ozone layer has decreased by 4% in the last 12 years, mainly due to; To finally access the use of CFCs when widely used in refrigerators, air conditioners and other household appliances. Nitrogen oxides emitted as exhaust gases from supersonic jets flying at high altitudes. This would lead to more UV radiation reaching the ground ← increased incidence of skin cancer and cataract, UV B appears to inhibit the immune system, can reduce the productivity of diphtheria and also contribute to global warming.	
	Water purification: Surface water purification for drinking purposes includes: Sintering and coagulation. Sedimentation (2-6 hours . Filtration (1m depth filter made of sand pellets . Chlorination: By adding chlorine, which is the most important process to ensure the bacteriological safety of drinking water.	

	The disinfectant must have the following characteristics:	
	Bacteria, viruses and abscesses should be destroyed in water at a reasonable time.	
	They must not be toxic to humans or pets.	
	It must be safe, easy to transport and handle at a	
	reasonable cost.	
	There should be a residual concentration in treated	
	water.	
	Chlorine is a widely used disinfectant because it meets	
	the above criteria, and liquid chlorine is still the most	
	common form used in the chlorination process. But the	
	most important point against the use of chlorine is the	
	production of chlorinated hydrocarbon as a result of	
	chlorine's interaction with organic substances in water.	
	Drinking water standard	
	Material: less test less color less smell	
	Chemical: PH neutral, solid, soft, damages less	
	concentration than organic or metals.	
	Bacteriological: Almost free of harmful	
	microorganisms.	
	Food sanitation	
	Protecting the public from food risks involves	
	maintaining healthy control over-harvesting,	
	storage and preparation of food for institutional or	
	household pregnancy.	
	nousenera pregnancy:	
	The purpose of food health control I:	
	Prevention of diseases resulting from eating unsafe	
	IOODS. Reduce economic and feed losses	
	Reduce economic and 1000 105555.	
	Food preservation	
	The main objective of food manufacturing is to delay	
	the food's food and sensory deterioration so that it can	
	be stored, transported and marked economically.	
	The main ways of preserving food are:	
	Pasta; Disrupt pathogens but will not affect the level	
	of microbial toxins, antibiotics or chemicals. The two	
	Low temperature (long time), $63 \degree C$ for 30 minutes.	
	High temperature (short period) $/2 \degree C$ for 15 minutes.	
	canning; Heating lood in tins or airtight bags	

	Number of Courses/Subjects Related to Sustainability Offered			
100		University of Anbar	20 (0/	
122	Environment Basics	 -Recognize the ecosystem's concept, types, balance and movement of food within it and its importance. -Recognize the most important environmental factors and their impact on the ecosystem and environmental laws and their importance to the ecosystem. -Identification of the aquatic environment, the importance of water and its characteristics, sources and marine environment and access. -Recognize the characteristics and importance of the soil, its composition and components, the risks to agricultural soil and how to increase the area of agricultural land. -Follow-up on vital cycles occurring in the ecosystem including the water cycle - carbon, nitrogen, phosphorus and sulfur and their importance in environmental changes and their causes and risks such as: global warming, ozone hole, black clouds, acid rain, drought and desertification. -Access to the concept of energy and knowledge of its traditional sources and identification of alternative sources of energy (solar energy and its use and the most important ways of converting it into electric energy - wind energy - tidal and island energy - geothermal energy - energy from waste and waste. 	30.6 %	
123	Botany Plant	 1-Recognize the importance of microbes and plants to human well-being. 2-Emphasize the life aspects and functions of plants as they relate to natural balance. 3-Study botany and recognize the plant cell and its importance in disease resistance. 	15%	
124	Climate Science	Helping students learn about climate science and how important it is and therefore can be used in our daily lives as today's world is experiencing climate change and is experiencing a major drought crisis	15%	
125	Chemical Environment	Environmental chemistry is the study of chemicals as they pass through our environment and the effects they cause on air, water, soil and so on. It's an important area of study because it helps us following and control pollutants.		
126	Desert Environment	The desert or desert environment is a difficult challenge for people who want to live in it, because its indicator of life depends on its natural possibilities such as the availability of water and pastures, as well as social imperatives that link societies such as: cohesion and mobility. These characteristics have made the nature of life in deserts the same, whether Arab desert or masked desert. The study of this	15%	

Number of Courses/Subjects Related to Sustainability Offered
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		material aims to explore how to live in these dry environments and how to make proper scientific use of them.	
127	Plant Environment	Plants are the most important living for soil development, as vegetation keeps the soil from erosion and reduces the amount of running water above the soil surface. Plants are the primary source of organic matter, so new plants should be sought to suit climate change.	15%
128	Pollution Basics	Precision substances, gases and other contaminants have negative effects on various aspects of life in general, so this substance aims to search for contaminated substances and how to treat them in the right scientific ways.	15%
129	Environmental Biotechnology	Biotechnology can bring great congestion to control and develop environmental quality by, inter alia, finding effective ways to process and dispose of waste. Biotechnology also plays an important role in improving the environment by treating eco-alien substances and addressing oil pollution, using certain plants and microscopic biology to dispose of radioactive waste.	15%
130	Water And Air Pollution	The purpose of the study of water and air pollution material is the primary source of human life. Water is the basis of life and air is the component of many elements that affect human life, so physical, chemical and biological properties are studied to identify these indicators and predict the presence of pollution.	15%
131	Soil Pollution	Soil is contaminated with substances or substances in abnormal quantities or concentrations, whether by increase or decrease, causing danger to human, animal and plant health or origin. Therefore, studying this substance to ensure the soil's integrity does not contain contaminated elements such as these elements and hydrocarbons.	15%
132	Sustainability Development	The goals of sustainable development represent a bold commitment to end the march that the world began at the beginning of the third millennium to end poverty in all its forms and to move it away by 2023. This effort includes targeting the most vulnerable, increasing access to essential resources and services, and supporting communities affected by conflict and climate-related disasters.	15%
133		Renewable sources of energy enable the elimination of warp dependence, allowing countries to diversify their economies and protect them from unexpected	15%

	Number of Courses/Subjects Related to Sustainability Offered			
		University of Anbar		
	Renewable Energy	fluctuations in fuel prices, while driving inclusive economic growth, job creation, and poverty alleviation.		
134	Environmental Impact Assessment	Environmental impact assessment aims to reduce as much as possible the damage to natural resources on the one hand or to dispel unwarranted concerns about the negative impacts that may result from the project and the project environment.	15%	
135	Environment Geometry	The aims of the course: The environmental science graduate's ability to identify pollutants, especially water contaminants, solid residues and noise, in analytical ways, to know their type and measurement, how to deal with them and the ability to treat or reduce them.	15%	
136	Environmental Planning And Management	 Environmental planning aims at a range of objectives including: 1-Protect the environment and maintain its integrity, and maintain its natural systems. 2-Rational use of natural resources. 3-Achieving sustainable development, in the interest of present and future generations. 4-Protect humans and other organisms from activities harmful to the environment. 	15%	
137	Plant Environment	Plants are the most important living for soil development, as vegetation keeps the soil from erosion and reduces the amount of running water above the soil surface. Plants are the primary source of organic matter, so new plants should be sought to suit climate change.	15%	
138	Article Name Regulations Implicit	In the field of computing, implicit systems play a vital role in promoting sustainable development through several aspects: Environmental software design: Software can be developed in ways that contribute to resource conservation and reduce energy consumption and harmful emissions. For example, software to improve energy consumption in systems, or software that encourages recycling and reduces waste. Green data center management: Data centers can be designed and operated in ways that reduce energy consumption and rely on renewable energy sources such as solar or wind, reducing the environmental impact of computing infrastructure. Environmental cloud computing: cloud computing technologies can contribute to reducing excess energy consumption by providing customized computing resources, thereby reducing waste and improving resource efficiency.	15%	

Number of Courses/Subjects Related to Sustainability Offered			
		University of Anbar	
		Machine learning to improve environmental efficiency: AI and machine learning techniques can be used to analyze energy data and identify gaps in environmental efficiency, helping make better decisions to improve sustainability. Environmental awareness and education: Technology can be used to spread awareness of the importance of environmental conservation and promote sustainable practices, whether through web applications, social media or e-learning	
139	Artificial Intelligence And Its Role In Sustainable Development	Artificial Intelligence (AI) can play a significant role in promoting sustainable development through a variety of applications and initiatives, including: Natural resources management: Artificial intelligence can be used to analyze computer data and models to provide better strategies for natural resource management such as water, forests and agricultural land, through improved monitoring, forecasting and decision-making Sustainable agriculture: AI applications can help farmers increase their production efficiency and reduce the use of natural resources such as water, fertilizer and pesticides, by analyzing data and providing accurate recommendations for crop and animal care. Predicting climate change and natural disasters: Artificial intelligence can analyze large data and weather models to provide accurate forecasts of climate change and natural disasters such as floods and droughts, enabling governments and communities to take proactive adaptation and damage reduction measures Sustainable mobility: AI technologies can improve public transport systems and traffic management in ways that reduce road congestion and exhaust emissions, and promote the use of public transport and electric transport Environmental awareness and sustainable behavior: AI and robotics applications can be used to provide guidance and awareness to individuals and companies on the right environmental practices and promote	30%
140		Multimedia plays an important role in promoting sustainable development through many aspects: Community awareness: Multimedia is used as an effective tool to spread awareness of sustainable development issues, such as climate change, environmental protection and the use of renewable energy. Images, videos and animations can be used to	25%

	Multimedia	simplify concepts and make them more	
	Withinedia	understandable to the audience	
		Promoting environmental awareness and education:	
		Multimedia can play a vital role in promoting	
		awareness of environmental issues and promoting	
		environmental education by providing educational and	
		guidance materials focused on environmental	
		conservation and sustainability	
		Adopt sustainable practices: Multimedia can be used	
		to motivate individuals and communities to take steps	
		towards sustainable practices, such as recycling,	
		reducing resource consumption and using public	
		transport	
		Promoting innovation and environmental solutions:	
		Multimedia can inspire innovation and encourage	
		creative thinking to develop new solutions to	
		environmental challenges, such as using technology to	
		improve energy efficiency or developing	
		environmental cleaning techniques.	
		Promoting communication and cooperation: enables	
		multimedia to communicate and interact between	
		sustainable development teams and communities,	
		facilitating knowledge-sharing, experiences and	
		collaboration in the development and implementation	
1.41		of sustainable projects.	150/
141		Computer networks play an important role in	15%
		achieving sustainable development through many	
		aspects.	
		Effective communication and exchange of	
		information: Computer networks help enable effective	
		communication and information sharing between	
		communication and information sharing between	
		individuals and institutions around the world,	
		individuals and institutions around the world, enhancing learning and innovation and contributing to	
		individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of	
		individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions.	
		individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions. Reducing the need for travel: Thanks to online	
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	Computer Networks	individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions. Reducing the need for travel: Thanks to online communication techniques and computer networks, individuals can do business and participate in meetings and events remotely, reducing the need for travel and thus reducing carbon emissions and the	
	Computer Networks	individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions. Reducing the need for travel: Thanks to online communication techniques and computer networks, individuals can do business and participate in meetings and events remotely, reducing the need for travel and thus reducing carbon emissions and the impact on the environment.	
	Computer Networks	individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions. Reducing the need for travel: Thanks to online communication techniques and computer networks, individuals can do business and participate in meetings and events remotely, reducing the need for travel and thus reducing carbon emissions and the impact on the environment.	
	Computer Networks	individuals and institutions around the world, enhancing learning and innovation and contributing to the sharing of experiences and the development of sustainable solutions. Reducing the need for travel: Thanks to online communication techniques and computer networks, individuals can do business and participate in meetings and events remotely, reducing the need for travel and thus reducing carbon emissions and the impact on the environment.	
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Number of Courses/Subjects Related to Sustainability Offered University of Anbar			
142	Water Science	Study of water sources - atmosphere, hydrological cycle, rain - evaporation - aquifers and watercourses - drainage - sediment transport - floods - ice, lakes and oceans.	15%
143		Geological factors in the presence and movement of groundwater types of aquifers Darcy law groundwater wells groundwater chemistry groundwater prospecting intersection of seawater from groundwater in Iraqi country.	15%
	Hydrology		
144		Characteristics of petroleum, natural gas and accompanying water porous and permeable origin, collection and movement of petroleum – petroleum fisheries and cover rocks – exploration of petroleum about petroleum in the Iraqi country.	15%
	Petroleum Geology		
145	Environment Geology	Recognize the geological concept of the environment and the risks associated with natural disasters such as earthquakes, floods and volcanoes, understand environmental risk reduction strategies, identify pollution types and risks to the environment and human beings, with the importance of waste disposal, focus on linking and applying environmental laws and their impact on political decision at the scientific, regional and local levels.	100%
146		Basic definitions of ores body forms, ores tissue, ores emergence theories, classification of ores deposits, magma deposits, water-free deposits, class deposits, industrial metals, overview of the presence of ores and industrial rocks in the country.	80%

	Economic Geology		
147	Scouting Education	Provides a summary of the most important course characteristics and expected learning outputs from the student.	15%
148	Microbiology	There are many topics, including HIV, malaria, transmission and reproduction methods, as well as hepatitis virus and bacteria affecting health.	95 %
149	Community Medicine	Promote the health of individuals and communities and build the foundations of comprehensive health care and effective health systems by preparing qualified specialized competencies to lead, coordinate and organize health services.	90 %
150		The study of general diseases includes a wide range of subjects and concepts associated with diseases affecting the human body in general. Here are some topics studied in this context:	
	General Diseases	* *1-Pathology: * * Includes the study of the causes, mechanisms and process of development of diseases. Pathology is interested in understanding pathological factors such as genetic, environmental and microbial factors that lead to disease.	70 %
		* *2-Diagnosis and medical evaluation: * * Study how to diagnose diseases and assess the patient's condition, including laboratory tests, medical images and clinical evaluation.	
		* *3-Treatment and management: * * Includes the study of methods and methods of treating various diseases, whether it be by medicines, surgical treatments, radiotherapies, or alternative treatments.	
		* *4-Prevention and public health: * * addresses the topics of disease prevention and improvement of communities' public health, such as vaccinations, public awareness, and health crisis management.	
		**5-Infectious and chronic diseases: * * Addresses the study of infectious diseases such as influenza, tuberculosis and AIDS, as well as chronic diseases such as diabetes, heart disease and cancer.	
		**6-Medical research: ** Promote medical research to understand the causes and mechanisms of diseases better, develop new and effective treatments, and provide advanced health care to patients.	
		These subjects form an essential part of the teaching of medicine and medical sciences, and contribute to	

		the development of knowledge and skills needed to	
		understand and treat general diseases affecting the	
		human body	
		numan oody.	
151	Pediatric Dentistry	 understand and treat general diseases affecting the human body. Yes, pediatric dentistry can be linked to sustainable development in general through several points: **1-Prevention and awareness: * Teaching children and parents about the importance of dental and gum care is an important part of sustainable development. When health awareness is high, individuals take steps to keep their teeth healthy and this contributes to reducing cases of decay and dental problems in society. * *2-Modern technologies: * Pediatric dentistry uses modern technologies and environmentally friendly materials in treatments and prevention. For example, developing biological dental fillers or using digital imaging techniques that reduce excess resource consumption. * *3-Health justice: * Pediatric dentistry is part of health justice, providing health care for children regardless of social or economic background. This contributes to sustainable development through the provision of health services and the creation of employment opportunities for specialists in this field, thereby promoting societies' economic growth. * *5-Social responsibility: * The provision of children's health care is part of the social responsibility of society and health institutions. When this responsibility is well met, it contributes to building healthy and sustainable societies in the long term. In general, pediatric dentistry can be linked to sustainable development by focusing on prevention, the use of environmentally friendly technologies, health justice, promoting economic growth, and contributing to social responsibility, all to build healthy and sustainable societies for present and future 	
152		Human health and the environment: With attention to dental and gum health, people's need for costly dental	

	Number of Courses	s/Subjects Related to Sustainability Offer	ed
		treatments that may require the use of environmentally harmful substances or the generation of medical waste can be reduced. This contributes to preserving the environment and reducing the environmental impact of the healthcare sector.	
	Dental Protection	Education and awareness: By promoting awareness of the importance of prevention and dental care, oral and dental health can be improved in individuals and communities, reducing the incidence of dental problems and the need for costly treatments in the future.	95 %
		Healthy nutrition: By encouraging healthy eating that contains nutrients essential for dental health, problems such as decay and Tooth erosion can be reduced, reducing the need for subsequent treatments.	
		Financial sustainability: Through a focus on prevention and daily dental care, funds that would have been spent on costly dental treatments can be made available, contributing to the sustainability of individuals' and health institutions' financial resources.	
		Education and guidance: By providing continuous guidance and education on how to take good care of the teeth, individuals can be able to maintain good oral health throughout their lives, contributing to the sustainable development of oral and dental health in society.	
		Therefore, dental protection can be linked to sustainable development through the positive impact it has on human health, the environment, the economy and education by focusing on prevention, education and continuous guidance.	
153	Democracy And Human Rights	Elimination of all forms of discrimination against women and girls everywhere Eliminate all forms of violence against all women and girls in the public and private spheres, including human trafficking, sexual exploitation and other types of exploitation.	80 %