



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: CELL BIOLOGY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **CEBI122**

SECOND SEMESTER

Cell biology / theoretical subjects	
<b>THEORETICAL SUBJECT</b>	Hours
Living organisms	2
Comparison between prokaryotic and eukaryotic cells	2
Mitosis : replication of eukaryotic cells	2
Mitosis : Reduction division and gametogenesis	2
Types of living tissues	2
Stem cells	2
Blood composition and function	4
General characteristics of bacteria	2
Introduction to molecular biology	2
Nucleic acid types and functions	4
Genes and chromosomes	2
Genetic engineering	2
final Exam	2

Cell biology / practical subjects	
<b>PRACTICAL SUBJECT</b>	Hours
Prokaryotic and Eukaryotic cells	2
Mitosis	2
Bacterial staining	4
Types of tissues	8
Blood film	4
How to use laboratory equipment's (Balance, Water bath, PH meter, Centrifuge, Incubator, etc...)	10
<b>total</b>	<b>30</b>



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: BASIC BIOCHEMISTRY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **BACH122**

SECOND SEMESTER

BASIC BIOCHEMISTRY / theoretical subjects	
THEORETICAL SUBJECT	Hours
Aldehydes and ketones	2h
Aldehydes and ketones	2h
Carboxylic acid	2h
Carboxylic acid derivatives	2h
Anhydrides	2h
Ester and ethers	2h
Amines	2h
Amides	2h
Alcohols	2h
Principles Of Biochemistry	2h
Water –chemical properties	2h
Carbohydrates mono-Saccharides	2h
Di- And oligo-and poly saccharides	2h
Peptides-Amino acids	2h
Nucleic acids	2h

BASIC BIOCHEMISTRY / practical subjects	
PRACTICAL SUBJECT	Hours
Preparation of solutions. Percent concentration	2h
Preparation of molar solutions: molar concentration	2h
Volumetric analysis. Acid-base titration	2h
Buffer solutions	2h
Colloidal solutions	2h
High molecular mass compounds and their properties. Swelling and gelatinization of high-molecular mass compounds	2h
Coordination compound based determination of water hardness	2h
Chemical kinetics	2h
Calculation of Michaelis-Menten constant and maximal reaction rate	2h
Chemical properties of carbonyl compounds, Esters and lipids	2h
Chemical properties of alcohols, phenols and amines	2h
Chemical properties of mono- and polysaccharides	2h
Determination of Fe in FeSo <sub>4</sub>	2h
Specific reactions for components of acidic hydrolysis of ribonucleoproteins	2h
Reactions of amino acids and proteins	2h



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SUBJECT: Head & neck anatomy

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **HENE122**

SECOND SEMESTER

Head & neck anatomy/ theoretical subjects	
theoretical subjects	Hours
Structure of the skull	2h
Muscles of the head	2h
Cervical vertebrae	2h
Blood supply and lymphatic vessels of the head and neck	2h
Structure of the oral cavity and nasal cavity	2h
The special senses include smell, taste, vision, hearing, and equilibrium	2h
Sense organs: eye (vision)	2h
Sense organs: ear (hearing)	2h
Olfaction: The sense of smell	2h
Gustation: The sense of taste	2h
Guttural pouch and auditory tube	2h
Muscles of the pharynx and tongue	2h
Salivary glands	2h
.types and location of lymph nodes of the head and neck	2h
Exam	2h

Head & neck anatomy/ practical subjects	
PRACTICAL SUBJECT	Hours
Topographical anatomy of skull in domestic animals	2h
Muscles of the head (facial expression)	2h
Comparative anatomy of cervical vertebrae	2h
Blood supply of the head and neck	2h
Anatomy of the oral and nasal cavity	2h
Anatomical structure of the eyeball	2h
Eye chambers and eye muscles	2h
Anatomical structure of the ear (external, middle and inner ear)	2h
Anatomy of olfactory receptors	2h
Tongue structure and the papillae: Filiform papillae, Fungi-form papillae, Foliate papillae, Vallate, or circumvallate papillae	2h
Anatomy of equilibrium in equine	2h
Muscles of the pharynx and tongue	2h
Comparative anatomy of salivary gland and duct in domestic animals	2h
Review	2h
Practical examination	2h



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**SUBJECT: POULTRY MANAGEMENT**

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **POUL122**

SECOND SEMESTER

POULTRY MANAGEMENT / theoretical subjects	
THEORETICAL SUBJECT	Hours
Poultry science and industry development .	1h
Terminology –classification of poultry.	1h
Classification of domestic birds	1h
Classification of domestic birds	1h
Poultry Breeding	1h
Poultry Breeding	1h
Brooding and Broiler production	1h
Brooding and Broiler production	1h
Artificial hatching of chicks	1h
Artificial hatching of chicks	1h
Rearing and Laying	1h
Nutrition of the chicken	1h
Nutrition of the chicken	1h
Poultry Hygiene	1h
Marketing of poultry products	1h

POULTRY MANAGEMENT / practical subjects	
PRACTICAL SUBJECT	Hours
Anatomy of birds	2h
Anatomy of birds	2h
Phenotypic parts of chickens	2h
Phenotypic parts of chickens	2h
Solving problems related to some inherited traits	2h
Demonstration of poultry houses and equipment	2h
Demonstration of poultry houses and equipment	2h
Demonstration of hatcheries	2h
Solving related problems	2h
Solving related problems	2h
Calculation of feed Components ratios	2h
Studying common management faults and corrections	2h
Demonstration of possible cases	2h
Possible visit to broiler Slaughtering house or a video show	2h
Possible visit to broiler Slaughtering house or a video show	2h



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SUBJECT: HUMAN RIGHTS

Theoretical hours: 1

Units: 1

CODE: **HURI122**

SECOND SEMESTER

Human rights / Theoretical subjects	Hours
مفهوم حقوق الإنسان	1hr
مفهوم حقوق الإنسان	1hr
الحق في اللغة والاصطلاح	1hr
الحق في اللغة والاصطلاح	1hr
أركان الحق	1hr
حقوق الإنسان وتطورها في التاريخ البشري	1hr
حقوق الإنسان في الحضارات القديمة	1hr
حقوق الإنسان في الحضارات القديمة الأخرى	1hr
حقوق الإنسان في الأديان والشرائع السماوية	1hr
مفهوم حقوق الإنسان	1hr
خصائص حقوق الإنسان	1hr
حقوق الإنسان في الإسلام	1hr
حرية الاعتقاد والتعبير من الحقوق الإنسانية	1hr
حقوق المرأة في الإسلام	1hr
العقوبات في الإسلام	1hr



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SUBJECT: English language

Theoretical hours: 1

Units: 1

CODE: **ENGL121**

SECOND SEMESTER

English language / Theoretical subjects: Second Semester	Hours
1-Grammar and structures	--
Conditional sentences	2
preposition	1
2- Reading Comprehension	-
Passage	2
Passage	2
Passage	2
3-Language function	-
contrast	1
opinion	1
purpose	1
complaints	1
4- Listening comprehension	2
Total	15



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SUBJECT: COMPUTER 2

Theoretical hours: 1

Practical hours: 2

Units: 2

CODE : **COMP122**

SECOND SEMESTER

COMPUTER 2/ Theoretical subjects:	Hours
Microsoft Word 2007	1
Microsoft Word 2007	1
Microsoft Word 2007	1
Microsoft Word 2007	1
Microsoft Word 2007	1
Microsoft Word 2007	1
REVIEW	2
Mid exam	--
Microsoft Word 2007	1
Microsoft Word 2007	1
Microsoft PowerPoint 2007	1
Microsoft PowerPoint 2007	1
Microsoft PowerPoint 2007	1
REVIEW	2
Final exam (30%)	--
	15

COMPUTER 2/ Practical subjects:	Hours
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
review	4
Mid exam	--
Learn Microsoft Word 2007	2
Learn Microsoft Word 2007	2
Learn Microsoft PowerPoint 2007	2
Learn Microsoft PowerPoint 2007	2
Learn Microsoft PowerPoint 2007	2
review	4
Final exam (30%)	--
	15



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SUBJECT: BIOSAFETY

Theoretical hours: 1

Units: 1

CODE: **BISA122**

SECOND SEMESTER

BIOSAFETY / Theoretical subjects	Hours
Zoonotic disease transmission	1hr
Hierarchy of infection control measures	2hr
Veterinary standard precautions	2hr
Protective actions during veterinary Procedures..	2hr
Environmental infection control	1hr
High risk veterinary procedures	2hr
What to do if you have unplanned contact with a suspect animal	1hr
Employee health	3hr
Creating a written infection control plan	1hr
	15