



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: GENERAL BIOLOGY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **GEBI111**

FIRST SEMESTER

GENERAL BIOLOGY / theoretical subjects	
THEORETICAL SUBJECT	Hours
Introduction and definition of terms	2
Origin of life	2
The cell	2
Taxonomy and kingdoms	2
Phylum: protozoa	4
Phylum: Platyhelminthes	4
Phylum: Nematelminths	4
Phylum: Arthropoda	2
Phylum: Chordata	8
total	30

GENERAL BIOLOGY / practical subjects	
PRACTICAL SUBJECT	Hours
The microscope	3
The cell	4
Protozoa / Mastigophora	3
Protozoa / Sarcodena	3
Protozoa / Ciliphora	3
Protozoa / Sporozoa	3
Nematoda / Ascaris	3
Nematoda / Ancylostoma	3
Trematode / Fasciola	3
Trematoda / Schistosoma	3
Cestodicksa / Taenia	3
Mosquitoes	3
Phylum : chordate (dissecting)	4
total	30



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: GENERAL CHEMISTRY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **GECH111**

FIRST SEMESTER

GENERAL CHEMISTRY / theoretical subjects	
THEORETICAL SUBJECT	Hours
Atom electron structure	2h
Periodic table	2h
Periodic table	2h
Chemical bonds	2h
Formula mass	2h
Acid and Basis	2h
Acid and Basis	2h
Ionoization constant	2h
Chemical qualtitive analysis -	2h
qualtitive analysis	2h
Standard solution	2h
Titration Measurement	2h
Acid base indicators	2h
Principles of Buffer	2h
Buffer In Body	2h

GENERAL CHEMISTRY / practical subjects	
PRACTICAL SUBJECT	Hours
Qualitative analysis of Group(1) Ag ⁺ , Hg ⁺ , Pb ⁺ , Pb ⁺	2h
Analysis of mixture Group 1	2h
Analysis of mixture Group2	2h
Analysis of mixture Group 2 ions	2h
Titration	2h
Titration practices of titration with water	2h
Preparation of standard Na ₂ CO ₃	2h
Standardization of HCL solution with Na ₂ CO ₃	2h
Analysis of mixture NaHCO ₃ and Na ₂ CO ₃	2h
Iodometric titration	2h
Stadardization of Na ₂ S ₂ O ₃ and determination of Cu in CuSo ₄ solution	2h
Standardization of Kmno ₄ solution	2h
Determination of Fe in FeSo ₄	2h
Precipitation titration Derermination of Cl By Mohr method	2h
Crystallization, Determination of melting point	2h



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: EXTREMITIES ANATOMY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **EXAN111**

FIRST SEMESTER

EXTREMITIES ANATOMY / theoretical subjects	
THEORETICAL SUBJECT	Hours
Anatomy definition : topographical terms , method of study	2h
Osteology : Skeleton , structure of the bone,	2h
Ribs , sternum , bones of thoracic and pelvic limbs	2h
Vertebral column, Vertebral formula	2h
Myology :Type of muscles	2h
Accessory structures associated with skeletal muscles, blood and nerve supply of muscles	2h
Exam	2h
Syndesmology: Classification of joints.	2h
Fibrous joint , cartilaginous joint	2h
Synovial joint ,Joints of thoracic and pelvic limbs	2h
Integument and its accessories	2h
Stay apparatus	2h
Endocrine glands :pituitary	2h
Thyroid , parathyroid, adrenal gland	2h
Review	2h
Exam	

EXTREMITIES ANATOMY / practical subjects	
PRACTICAL SUBJECT	Hours
Introduction to anatomical study .Bones of thoracic limb: Scapula of horse and comparative anatomy	2h
Humerus comparative	2h
Radius and Ulna with comparative	2h
Carpal bones in horse, metacarpal , phalanges	2h
Muscles of the shoulder girdle(lateral and medial groups +Muscles of the arm	2h
Practical Exam	2h
Muscle of the forearm and manus extensor and flexor	2h
Blood and nerve supply of the thoracic limb	2h
Bone of the pelvic limb , Os coxa	2h
Femur and patella with comparative	2h
Bone of the leg tibia and fibula	2h
Tarsal and metatarsal bones with comparative	2h
Review	2h
Practical Examination	2h



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: Animal Management

Theoretical hours: 2

Practical hours: 2

Units: 3

FIRST SEMESTER

CODE : ANMA111

Animal Management/ THEORETICAL SUBJECT	
THEORETICAL SUBJECT	Hours
Animal health in Iraq and its importance.	2h
Factors limiting animal production in tropics e.g. Iraq.	2h
Domestication of different animals.	2h
Duties of the veterinarian	2h
Some kinds of records for farm animals 2	2h
HORSES: Classes of horses, Breeds of horses.	2h
Identification and description of horses. Terminology of horses.	2h
Breeding of horses: age of puberty, sexual maturity, signs of estrous, signs of pregnancy, diagnosis of pregnancy, signs of birth, care of new – born animals, system of weaning,).	2h
Origin of the horses ,Dentition of horses and watering.	2h
CATTLE: classes of cattle(cows and water- buffaloes) ,Breeds of cattle.	2h
Identification and description of cattle and water buffaloes. Terminology of cattle.	2h
Origin of cattle and water buffaloes from animal kingdom.	
breeding of cattle (age of puberty , sexual maturity , signs of estrous, signs of pregnancy,	2h
diagnosis of pregnancy , signs of birth, calving (parturition) , care of new – born calf,	2h
systems of weaning, care of dams , care of bull (stud),milking process	2h
Growth rate of cattle and Twinning in cattle.	2h

Animal Management/ practical subjects	
PRACTICAL SUBJECT	Hours
External features of farm animals.	2h
External features of farm animals.	2h
Identification &description of farm animal	2h
Identification &description of farm animal (Equine)	2h
Identification &description of farm animal (cattle &sheep) .	2h
Methods of approaching, restraint and casting of horses. Vices of horses . shoeing of horses	2h
Bad behavior of horses	2h
Treatment of bad behavior of horses	2h
Grooming &washing of horses	2h
Methods of approaching, restraint and casting of cattle,	2h
Methods of approaching, restraint and casting of cattle,	2h
Bad behavior of cattle	2h
Treatment of bad behavior of cattle	2h
Grooming of cattle	2h
leading. Vices of cows	2h



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: DEMOCRACY

Theoretical hours: 1

Units: 1

CODE : **DEMO111**

FIRST SEMESTER

Democracy / practical subjects	Hours
مفهوم الديمقراطية	1hr
مفهوم الديمقراطية	1hr
جذور الديمقراطية	1hr
جذور الديمقراطية	1hr
تعريف الديمقراطية	1hr
تعريف الديمقراطية	1hr
نظام الشورى نظام ديمقراطي إسلامي	1hr
مزايا الديمقراطية	1hr
مزايا الديمقراطية	1hr
أركان الديمقراطية	1hr
أركان الديمقراطية	1hr
المكونات الرئيسية للديمقراطية	1hr
المكونات الرئيسية للديمقراطية	1hr
خصائص الديمقراطية	1hr
نظريات الديمقراطية	1hr



مناهج المواد الدراسية للسنة الدراسية الأولى للعام الدراسي 2019 - 2020

SUBJECT: English language

Theoretical hours: 1

Units: 1

CODE : ENGL111

FIRST SEMESTER

English language / Theoretical subjects: 1first Semester	Hours
1-Grammar and structures	--
Tenses	1
Passive voice	1
Direct and indirect speech	1
2- Reading Comprehension	-
Passage	2
Passage	2
Passage	1
Passage	1
3-Language function	-
Request	1
Possibility	1
Ability	1
Obligation	1
4- Listening comprehension	2
Total	15



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SUBJECT: COMPUTER 1

Theoretical hours: 1

Practical hours: 2

Units: 2

CODE : **COMP111**

FIRST SEMESTER

Computer 1/ Theoretical subjects: first Semester	Hours
Computer Lab. Visit – demonstration of computer parts	2
Computer skills	3
Activities of windows.7	1
Activities of windows.7	1
Activities of windows.7	1
Mid exam	---
Activities of windows.7	1
Activities of windows.7	1
Microsoft Word 2007	2
review	3
Final exam (30%)	---
	15

Computer 1/ Practical subjects: first Semester	Hours
Computer Lab. Visit– demonstration of computer parts	4
Learn computer skills	6
Learn Activities of windows.7	2
Learn Activities of windows.7	2
Learn Activities of windows.7	2
Mid exam	---
Learn Activities of windows.7	2
Learn Activities of windows.7	2
Learn Microsoft Word 2007	4
review	6
Final exam (30%)	---
	30