SUBJECT: GENERAL BIOLOGY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **GEBI111**

FIRST SEMESTER

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

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|  | GENERAL BIOLOGY / practical subjects |
| Hours | **PRACTICAL SUBJECT** |
| 3 | The microscope |
| 4 | The cell |
| 3 | Protozoa / Mastigophpora |
| 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 |
| 4 | Phylum : chordate ( dissecting ) |
| 30 | **total** |

SUBJECT: GENERAL CHEMISTRY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **GECH111**

FIRST SEMESTER

|  |  |
| --- | --- |
|  | GENERAL CHEMISTRY / theoretical subjects |
| Hours | **THEORETICAL SUBJECT** |
| 2h | Atom electron structure |
| 2h | Periodic table |
| 2h | Periodic table |
| 2h | Chemical bonds  |
| 2h | Formula mass  |
| 2h | Acid and Basis  |
| 2h | Acid and Basis  |
| 2h | Ionozation 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 |

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|  | GENERAL CHEMISTRY / practical subjects |
| Hours | **PRACTICAL SUBJECT** |
| 2h | 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 Na2CO3 |
| 2h | Standardization of HCL solution with Na2CO3  |
| 2h | Analysis of mixture NaHCO3 and Na2CO3 |
| 2h | Iodometric titration  |
| 2h | Stadardization of Na2S2O3 and determination of Cu in CuSo4 solution  |
| 2h | Standardization of Kmno4 solution |
| 2h | Determination of Fe in FeSo4 |
| 2h | Precipitation titration Derermination of Cl By Mohr method |
| 2h | Crystallization, Determination of melting point  |

SUBJECT: EXTREMITIES ANATOMY

Theoretical hours: 2

Practical hours: 2

Units: 3

CODE: **EXAN111**

FIRST SEMESTER

|  |  |
| --- | --- |
|  | EXTREMITIES ANATOMY / theoretical subjects |
| Hours | THEORETICAL **SUBJECT** |
| 2h | **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** |
|  | **Exam** |

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|  | EXTREMITIES ANATOMY / practical subjects |
| Hours | PRACTICAL SUBJECT |
| 2h | **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,** |
| 2h | **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 |

SUBJECT: Animal Management

Theoretical hours: 2 Practical hours: 2

Units: 3 FIRST SEMESTER

**CODE : ANMA111**

|  |  |
| --- | --- |
|  | Animal Management/ THEORETICAL SUBJECT |
| Hours | THEORETICAL SUBJECT |
| 2h | 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, signsof 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.Origin of cattle and water buffaloes from animal kingdom. |
| 2h | 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. |

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| --- | --- |
|  | Animal Management/ practical subjects |
| Hours | **PRACTICAL SUBJECT** |
| 2h | 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 |

SUBJECT: DEMOCRACY

Theoretical hours: 1

Units: 1

CODE : **DEMO111**

FIRST SEMESTER

|  |  |
| --- | --- |
| Hours | Democracy / practical subjects |
| 1hr | **مفهوم الديمقراطية** |
| 1hr | **مفهوم الديمقراطية** |
| 1hr | **جذور الديمقراطية** |
| 1hr | **جذور الديمقراطية** |
| 1hr | **تعريف الديمقراطية** |
| 1hr | **نعريف 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** |

SUBJECT: English language

Theoretical hours: 1

Units: 1

CODE : **ENGL111**

FIRST SEMESTER

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

SUBJECT: COMPUTER 1

Theoretical hours: 1

Practical hours: 2

Units: 2

CODE :  **COMP111**

FIRST SEMESTER

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

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