

# Ministry of Higher Education & Scientific Research

## Technical Institutes - Nursing Departments

المنهاج الدراسي الفصلي لقسم تقنيات التمريض

المرحلة الأولى ( الفصل الدراسي الثاني)						المرحلة الأولى ( الفصل الدراسي الأول)							
لغة التدريس	عدد الوحدات	م	ع	ن	اسم المادة الانكليزي	اسم المادة العربي	عدد الوحدات	م	ع	ن	اسم المادة الانكليزي	اسم المادة العربي	تت
الانكليزية	6	6	4	2	Health Assessment	التقييم الصحي	6	6	4	2	Fundamental of Nursing	اساسيات التمريض	1
الانكليزية	6	6	4	2	Surgical Nursing	تمريض جراحي	6	6	4	2	Medical Nursing	تمريض باطني	2
	12	12	8	4	المجموع للمواد الاساسية		12	12	8	4	المجموع للمواد الاساسية		
الانكليزية	4	4	2	2	Physiology	علم وظائف الاعضاء	4	4	2	2	Anatomy	تشریح	3
الانكليزية	4	4	2	2	Medical Virology and Parasitology	فيروسات طبية وفطريات	4	4	2	2	Microbiology	احياء مجهرية	4
الانكليزية	4	4	2	2	Clinical Chemistry	كيمياء سريرية	4	4	2	2	Biochemistry	كيمياء حيوية	5
	2	2	-	2	Biostatic	احصاء حياتي	2	2	-	2	Medical terminology	مصطلحات طبية	6
	14	14	6	8	المجموع للمواد المساعدة		14	14	6	8	المجموع للمواد المساعدة		
	3	3	2	1	Computer application 2	تطبيقات الحاسوب 2	2	2	-	2	Human Rights and Democracy	حقوق الانسان والديمقراطية	7
	2	2	-	2	English	اللغة الانكليزية	3	3	2	1	Computer application 1	تطبيقات الحاسوب 1	8
	5	5	2	3	المجموع للمواد العامة		5	5	2	3	المجموع للمواد العامة		
	31	31			مجموع ساعات وحدات المرحلة الأولى		31	31			مجموع ساعات وحدات المرحلة الأولى		
المرحلة الثانية ( الفصل الدراسي الأول)						المرحلة الثانية ( الفصل الدراسي الأول)							
الانكليزية	6	6	4	2	Obstetric Nursing	تمريض التوليد	6	6	4	2	Maternity Nursing	تمريض النسائية	1
الانكليزية	6	6	4	2	Pediatric diseases	تمريض امراض الاطفال	6	6	4	2	Child Growth and Development	نمو ونظور الطفل	2
الانكليزية	6	6	4	2	Community Health Service	خدمات صحة المجتمع	6	6	4	2	primary health care	رعاية صحية اولية	3
العربية	6	6	4	2	Psychiatric and mental health nursing	تمريض الصحة النفسية والعقلية	6	6	4	2	principle of psychiatric nursing	مبادئ التمريض النفسي	4
	24	24	12	8	المجموع للمواد الاساسية		24	24	12	8	المجموع للمواد الاساسية		
الانكليزية	2	2	-	2	Nutrition and diet therapy	التغذية ولتغذية العلاجية	2	2	-	2	Pharmacology	علم الدوائيات	5
	2	2	2	-	Proposal	مشروع بحث	2	2	-	2	Professional ethics	اخلاقيات المهنة	6
							2	2	2		Research methods	اجراءات البحث	7
	4	4	2	2	المجموع للمواد المساعدة		6	6	2	4	المجموع للمواد المساعدة		
	28	28			مجموع ساعات وحدات المرحلة الثانية		30	30			مجموع ساعات وحدات المرحلة الثانية		
							120			المجموع الكلي لعدد الساعات الدراسية للمرحلتين			
							270			مجموع ساعات التدريب الصيفي للمرحلة الأولى			

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Subject	Teaching Language	Year of the study	Hours in week		
		First Year	Theory	Practice	Total
Fundamentals of Nursing أساسيات التمريض	English	Course 1	2	4	6

**General objectives:**

The student can be able to know the general information about Nursing.

**Specific objectives:**

1. Defines nursing, nurse, chronic and acute diseases.
2. Understands the roles and functions of the nurse in patient care and the importance of health promotion.
3. Measures vital signs, temperature, respiration, blood pressure, and how to document the nursing.
3. Apply the physical examination of patients and the basic rules of personal protective equipment and prevent infection.
4. Performs nursing procedures: evaluation, diagnosis, nursing, application, and evaluation of nursing procedures.

Weeks	Theoretical Topics
1 <sup>st</sup>	<b>Definition</b> (fundamental of nursing, nursing, nurse, health, disease, patient, client, hospital) fields of nursing, role& responsibilities of nurse.
2 <sup>nd</sup>	<b>Admission &amp; discharge</b> of patient from hospital, Chart report, health record, nurse note (observations) of report. <b>Nursing process</b> (assessment, nursing diagnosis, planning, implementation, evaluation).
3 <sup>rd</sup>	<b>Vital signs</b> , definition of temperature, type of check temperature , definition of fever, causes, signs & symptom, nursing care of it, define the pulse, qualities of pulse factors affecting of pulse, site of taking pulse, define of respiration, definition of blood pressure. Definition of diastolic & systolic pressure, the factors that affected.
4 <sup>th</sup>	<b>Administration OF medication</b> , define of drug, Route of administration, Factors affecting on the drug activity, type of administration of medication and injection {I.M.I.V.,S.C.I.D,} Advantage& disadvantage.

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<b>5<sup>th</sup></b>	<b>Intravenous infusion</b> , Types of fluid, Indication & contraindication & role of Nurse in giving intravenous infusion.
<b>6<sup>th</sup> &amp; 7<sup>th</sup></b>	<b>Dressings and Bandages</b> , Advantage of dressing, Types of dressings, Bandages are used to. <b>Wounds &amp; Bleeding</b> , definition of wound, care and healing process, types of wound, phases of wound healing, type of wound exudate, function of exudate, factors affecting wound healing.
<b>8<sup>th</sup></b>	<b>Suture</b> : Suture Classification, suturing techniques, Equipment's, Principles of suturing, Suture removal,
<b>9<sup>th</sup></b>	<b>Body mechanics</b> , Body position, principle of body Mechanics, importance of exercises, Common Dangers of Immobility.
<b>10<sup>th</sup></b>	<b>Asepsis</b> , Infection, stage of infection, Types of infection, <b>Disinfection and sterilization</b> surgical sterilization, Medical sterilization, kind of disinfectant and sterilization of surgical equipment, principle of Dressing .
<b>11<sup>th</sup></b>	<b>Body Hygiene</b> , Purpose, Bathing <b>Pressure Ulcer (Bed sores)</b> , Causes of bed sores, Areas of pressure sores, care and Prevention
<b>12<sup>th</sup></b>	<b>Blood transfusion</b> role of Nurse in giving blood transfusion, indication & contraindication, the goal of blood transfusion.
<b>13<sup>th</sup></b>	<b>Administration of O<sub>2</sub></b> , Types of giving O <sub>2</sub> , the goals, nursing intervention, equipment, Artificial respiration
<b>14<sup>th</sup></b>	<b>Enteral feeding</b> : types of feeding tube, feeding tube indications & contraindication, the goals of it, nursing intervention, techniques, Equipment's
<b>15<sup>th</sup></b>	Definition of urinary catheterization, tracheotomy, pre-post-operative care. Complications of operative, nursing care of cardiac arrest and complication.

<b>Weeks</b>	<b>Practical Topics</b>
<b>1<sup>st</sup></b>	<b>Fundamental of Nursing</b> classification & Division of hospitals, function of hospitals, Qualification of Nurse. <b>PPE (Donning &amp; Doffing )</b>
<b>2<sup>nd</sup></b>	<b>Admission &amp; discharge &amp; Transferring &amp; Referral</b> of patient from hospital, Nursing admission activities, <b>patient chart</b> , health record, Nurse Note (Observations) of report.
<b>3<sup>rd</sup></b>	<b>Nursing process</b> . Assessment, Nursing diagnosis, planning, Implementation, Evaluation.

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<b>4<sup>th</sup></b>	<b>Vital signs</b> , Definition of <b>Temperature</b> , check Temperature, Type of check Temperature, definition of fever, causes, signs, & symptoms, Nursing care of it, <b>Respiration</b> , Definition , check respiration ,types of respiration.
<b>5<sup>th</sup></b>	<b>Blood pressure</b> , Definition of systolic& diastolic pressure, check B.P , the factors that affected , define the <b>pulse</b> , factors affecting of pulse, site of taking pulse, Nursing point in check pulse.
<b>6<sup>th</sup></b>	<b>Methods of drug administration</b> , define of drug, Factors affecting on the drug activity type of administration of medication and injection {I.M.I.V.,S.C.I.D,} cold & hot. Compress.
<b>7<sup>th</sup></b>	<b>Training about I.V Cannula</b> , drugs giving I.V direct & I.V Infusion, indication & complication of cannula.
<b>8<sup>th</sup></b>	<b>Giving fluids &amp; Blood by intravenous infusion</b> (Training) , role of Nurse in giving intravenous infusion, role of Nurse in giving blood transfusion the goal of blood transfusion, important points in blood infusion.
<b>9<sup>th</sup></b>	<b>Dressings, Binders and Bandages, Purpose &amp;</b> Advantage of dressing, Types of dressings. <b>Wounds &amp; Bleeding</b> , Types of wounds, suturing procedure & suturing kinds, goals of suturing &nursing care.
<b>10<sup>th</sup></b>	<b>Position of patient, patient lifting</b> and its risks. <b>Pressure Ulcer</b> (Bed sores), etiology& risk factors of bed sores, Areas of pressure sores ,nursing care and Prevention
<b>11<sup>th</sup></b>	<b>Administration of O2</b> , Type of giving O2, the goals, nursing intervention, feeding tube, the goals of it, nursing intervention. <b>Nebulizer</b> indication, procedure &nursing care.
<b>12<sup>th</sup></b>	<b>Cardiac (Coronary) Care Unit</b> (C.C.U, equipment of C.C.U, Responsibility of the nurse in unit) <b>Electro cardio gram (E.C.G )</b> Principle &procedure <b>D.C. shock</b> , <b>purpose &amp;procedure.</b>
<b>13<sup>th</sup></b>	<b>Nasogastric tube</b> , gastric lavage & gastric gavage, definition, procedure, purpose, types, complication& nursing care.
<b>14<sup>th</sup></b>	<b>Catheterization</b> , Urinary catheterization definition, Purposes, technique, Nursing Performance and Care. <b>Enema</b> , definition, goals, nursing procedure & nursing observation.
<b>15<sup>th</sup></b>	<b>First aid</b> procedure for wounds, bleeding, shock, fracture, burns, poison, asphyxia , cardiac arrest &respiration failure.

Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Medical Nursing تعميرض باطنى	English	First Year			
		Course 1	2	4	6

**General objectives:**

The student can be able to know the general information about medical diseases and how can provide nursing care for patient.

**Specific objective:**

1. Learn about the mechanism of diseases, causes and risk factors, clinical signs, and how to reduce complications, and nurses
2. Responsibilities for patients and providing nursing care
3. Providing health advice and education to patients

Weeks	Theoretical Topics
1 <sup>st</sup>	Concept of health and illness / medical terminology.
2 <sup>nd</sup>	Cardiovascular system, physical assessment, and diagnostic tests, Cardiovascular diseases /definition atherosclerosis/ arteriosclerosis/ angina /type of angina /clinical manifestations, nursing interventions.
3 <sup>rd</sup>	Myocardial Infarction/causes/signs and symptoms / diagnostic test/treatment/nursing intervention.
4 <sup>th</sup>	Heart failure, Causes, Signs of left-sided heart failure and types of dyspnea, Signs right-sided heart failure, Diagnostic tests, Nursing Care, and management.

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5 <sup>th</sup>	<b>Respiratory disorders /chronic obstructive pulmonary disease/chronic bronchitis. Causes/signs and symptoms / diagnostic test/treatment/nursing intervention.</b>
6 <sup>th</sup>	<b>Neurologic Disorders / Stroke (C.V.A). Sign and symptoms /treatment/nursing care and education.</b>
7 <sup>th</sup>	<b>The endocrine system, physical ,assessment and diagnostic tests, Diabetes Mellitus /definition types / sign and symptoms /treatment/nursing education.</b>
8 <sup>th</sup>	<b>Viral Hepatitis, Types, causes sign and symptoms /treatment/nursing care and education.</b>
9 <sup>th</sup>	<b>Pancreatitis causes sign and symptoms /treatment/nursing care and education.</b>
10 <sup>th</sup>	<b>Blood diseases /Anaemia Types, causes sign and symptoms /treatment/nursing care and education.</b>
11 <sup>th</sup>	<b>Blood diseases /Leukaemia Types, causes sign and symptoms /treatment/nursing care and education.</b>
12 <sup>th</sup>	<b>Renal and urologic system, physical assessment and diagnostic tests, Renal Calculi /causes /sign and symptoms /types of urinary stone / diagnosis tests /treatment /nursing care.</b>
13 <sup>th</sup>	<b>Chronic renal failure /causes /diagnosis / treatment /nursing care.</b>
14 <sup>th</sup>	<b>Immunologic disorders / Acquired immune deficiency syndrome (AIDS). Sign and symptoms /treatment/nursing care.</b>
15 <sup>th</sup>	<b>Cancer Basics introduction / major risk factors /cancer screening / warning signs / tumor types /tumor staging and grading.</b>

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<b>Weeks</b>	<b>Practical topics</b>
1 <sup>st</sup>	<b>Orientation to hospital divisions and patient units</b>
2 <sup>nd</sup>	<b>nursing care process, nursing care plan</b>
3 <sup>rd</sup>	<b>Common diagnostic tests and nursing procedures in hospital</b>
4 <sup>th</sup>	<b>Training in CCU - nursing care for heart disease and blood vessels - intensive care for heart disease.</b>
5 <sup>th</sup>	<b>Nursing care for patients with myocardial infarction - nursing care for patients with heart failure</b>
6 <sup>th</sup>	<b>Training in ICU /evaluate neurological condition for patient.</b>
7 <sup>th</sup>	<b>Nursing intervention for unconscious patients assessment of glasgow come score</b>
8 <sup>th</sup>	<b>Nursing care for patients in r.c.u - review how to evaluate the respiratory conditions of the patient.</b>
9 <sup>th</sup>	<b>Nursing care of endocrine disease /patient nursing care sugar and how insulin administration</b>
10 <sup>th</sup>	<b>Training in the lobbies of surgical urology - nursing care of urinary tract disease - renal colic, nursing care for urinary stones.</b>
11 <sup>th</sup>	<b>Nursing care for patients with hepatitis.</b>
12 <sup>th</sup>	<b>Nursing care blood disease- anemia</b>
13 <sup>th</sup>	<b>Nursing, leukemia, acute and chronic blood - and nursing care.</b>
14 <sup>th</sup>	<b>Nursing care for bloody enforcement during operation and operation of the device. Disengagement bloody enforcement complications that occur during the bloody enforcement process - recommendations after the bloody enforcement process.</b>
15 <sup>th</sup>	<b>Nursing care of liver and gallbladder disease - nursing care for acute and chronic inflammation of the gallbladder</b>

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			Theory	Practice	Total
Medical terminology مصطلحات طبية	English	First Year			
		Course 1	2	-	2

Weeks	Topics
1 <sup>st</sup>	Introduction to Medical Terminology, Define and historical of medical terminology.
2 <sup>nd</sup>	Basic Elements of a Medical Word, Word root Examples combining form.
3 <sup>rd</sup>	Common prefix and suffixes.
4 <sup>th</sup>	Overview of Anatomy and Physiology.
5 <sup>th</sup>	Anatomical Position, Body Planes and Body Cavities.
6 <sup>th</sup>	Clinical, Radiologic, and Diagnostic Procedures.
7 <sup>th</sup>	Digestive System
8 <sup>th</sup>	Integumentary System
9 <sup>th</sup>	The Musculoskeletal System
10 <sup>th</sup>	The Reproductive System
11 <sup>th</sup>	Respiratory System
12 <sup>th</sup>	The Urinary System
13 <sup>th</sup>	The Cardiovascular System
14 <sup>th</sup>	Blood , Lymph and Immune Systems
15 <sup>th</sup>	Nervous system



Subject	Teaching Language	Year of the study	Hours in week		
		First Year	Theory	Practice	Total
Medical Microbiology احياء مجهرية طبية	English	Course 1	2	2	4

**Objectives :-**

Students will be to know

1. Microorganism, Viral and Bacteria.
2. Sterilization and Disinfection.
3. Medical microbiology.
4. Microbiology causes disease for human.
5. Prevention and treatment of disease.
6. Diagnosis of bacteria.
7. Sensitivity test for antibiotics.
8. Immunological defense mechanism against diseases.

Weeks	Theoretical Topics
1 <sup>st</sup>	History of biosafety microbiology and molecular biology Biosafety levels Personal protective equipments.
2 <sup>nd</sup>	Classification of microorganism. Cutaneous, Genitourinary, Gastrointestinal, Hepatic and Hemorrhagic viral diseases (Clinical appearances, diagnosis and treatment)
3 <sup>rd</sup>	General introduction of bacteriology General structure of bacteria. Sterilization and disinfection , Culture media and staining
4 <sup>th</sup>	Environmental conditions are affected on the growth of bacteria Stages of bacterial growth , Bacterial growth inhibition
5 <sup>th</sup>	Medical bacteria: Staphylococci Group , <i>Staphylococcus aureus</i> , <i>epidermidis</i> , <i>saprophyticus</i> , general characters, toxins, pathogenicity treatment.

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6 <sup>th</sup>	Streptococci Group, Streptococcus pneumoniae:- general structure, diseases, pathogenicity and treatment S. viridans, S. faecalis, S. pyogenes general structure, culture Media pathogenicity.
7 <sup>th</sup>	Neisseria group: General, meningococci, general structure, disease. Mycobacterium: Mycobacterium tuberculosis types, general structure, culture media resistance, disease cause, identification, treatment. Mycobacterium leprae: general characters, pathogenicity, diagnosis, treatment.
8 <sup>th</sup>	Clostridia (anaerobic): General characters, Clostridium tetani: description, disease factors enhance growth in the wounds, prevention treatment.
9 <sup>th</sup>	Gas gangrene (clostridial myonecrosis): Description, disease, treatment, food poisoning clostridia, toxins secreted in the foods, symptoms, treatment. Bacillus anthrax: description, disease, treatment
10 <sup>th</sup>	Intestinal bacteria types, medical importance, general characters, cultures identification. pathogenic intestinal bacteria Salmonella group: symptoms, poisoning, treatment
11 <sup>th</sup>	Shigella disease: treatment, shigella food poisoning, symptoms, proteus, disruption, culture
12 <sup>th</sup>	Brucella: general characters, disease, diagnosis, treatment. bordetella, disruption morphology and culture, disease, treatment.
13 <sup>th</sup>	Vibrio comma: Cholerae, general characters, disease, identification, treatment
14 <sup>th</sup>	Trypanosoma: General characters diagnostic examination. Leptospira :- characters, diagnosis, treatment
15 <sup>th</sup>	Immunity, infection, inflammation and resistance, non-specific natural defense, acquired immunity.

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Weeks	Practical Topics
1 <sup>st</sup>	Safety in laboratory – laboratory instrument – microscope – incubator – Autoclave – oven – Bunsen burner – loop – Glass.
2 <sup>nd</sup>	Viral infections (internal and external infections).
3 <sup>rd</sup>	Sterilization and disinfection – physical sterilization – moist heat – Dry heat – Radiation. Chemical sterilization and Filtration
4 <sup>th</sup>	Culture Media –Types of media – differential media – special media. inoculation by loop
5 <sup>th</sup>	Media preparation and Types of media
6 <sup>th</sup>	Culture Methods
7 <sup>th</sup>	Types of swabs, Methods of the taking.
8 <sup>th</sup>	Staining – wet smear – Dry smear – Simple smear.
9 <sup>th</sup>	Differential stains and method of staining.
10 <sup>th</sup>	Gram stain and Gram stain smear
11 <sup>th</sup>	Ziehl-Neelsen stain and smear preparation
12 <sup>th</sup>	Sensitivity test for antibiotics – Gram positive Antibiotics.
13 <sup>th</sup>	Sensitivity test for antibiotics – Gram negative Antibiotics
14 <sup>th</sup>	Serological test – widal test.
15 <sup>th</sup>	Immunological tests

**References**

- 1- Review of medical microbiology 14th Edition Tawetz, J.I., Melnick, E., A. Adelberg. 1980.
- 2- Hadout by the committee of microbiology.
- 3- A short text book of medical microbiology By, Satish Gupta, India – 1987.

Name Of course	Teaching Language	Lesson Year	Weekly Hours			
			Theory	Practical	All	NO. Of Units
Biochemistry الكيمياء الجزيئية	English	First	2	2	4	4
		Course 1				

Course objectives
<b>General Aims</b>
This course aims to provide students the understanding of the core principles and topics of Biochemistry and their experimental basis.
<b>Specific Aims</b>
<p>Upon completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Determine the biochemical composition of the body.</li> <li>• Know basic cellular structure.</li> <li>• Know the special properties of water and how the aqueous environment influences the behavior of biological macromolecules.</li> <li>• Know the structure of proteins, carbohydrates, lipid, hormones and nucleic acids.</li> <li>• Determine the enzymatic activity.</li> <li>• Know metabolic processes in cells.</li> </ul>

Week	Theoretical Topics
1 <sup>st</sup>	<p>General chemistry</p> <ul style="list-style-type: none"> <li>- chemical reactions ( oxidative, reduction, hydrolysis)</li> <li>- measurements in chemistry (qualitative &amp; quantitative assays of substance)</li> </ul>
2 <sup>nd</sup>	<p>I. History &amp; scope of biochemistry</p> <p>II. Cell biochemistry</p> <ul style="list-style-type: none"> <li>-subcellular organelles &amp; cell membranes ( structure and functions)</li> <li>-mechanisms of regulation of PH</li> <li>- acid- base balance</li> </ul> <p>III. Homeostasis mechanisms</p> <p>IV. Transport through biological cell</p>

3 <sup>rd</sup>	<p><b>Water and electrolytes balance &amp; imbalance</b></p> <p><b>I. Water</b> - disturbance &amp; balance - Intake &amp; output of water</p> <p><b>II. Electrolyte</b> - composition and disorder of (sodium, potassium, iron, calcium &amp; chloride)</p> <p><b>III. Biomolecules - structures- functions- properties</b></p>
4 <sup>th</sup> & 5 <sup>th</sup>	<p><b>Amino acid &amp; Proteins</b></p> <p><input type="checkbox"/> <b>Amino acid</b></p> <ul style="list-style-type: none"> <li>• Classification &amp; properties of amino acid</li> <li>• General metabolism of amino acid &amp; formation of ammonia</li> <li>• Peptide synthesis</li> </ul> <p><input type="checkbox"/> <b>proteins</b></p> <ul style="list-style-type: none"> <li>• Structures, properties &amp; classification of protein</li> <li>• Function of protein</li> <li>• Catabolism &amp; nitrogen balance</li> <li>• Urea cycle</li> </ul>
6 <sup>th</sup>	<p><b>Enzymes</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Definition &amp; general characteristic</li> <li><input type="checkbox"/> Classification</li> <li><input type="checkbox"/> Enzyme specificity</li> <li><input type="checkbox"/> Enzyme catalysis &amp; active site</li> <li><input type="checkbox"/> Factors influencing enzyme activity</li> </ul>
7 <sup>th</sup> & 8 <sup>th</sup>	<p><b>Carbohydrate</b></p> <ul style="list-style-type: none"> <li>• Definition, classification &amp; biological importance, Glycosidic bond</li> <li>• Metabolism of carbohydrate - Glycolysis &amp; Gluconeogenesis - Glycogenolysis &amp; Glycogenesis</li> <li>• Metabolism of disaccharide &amp; polysaccharide</li> <li>• Energetic of metabolic cycle</li> </ul>
9 <sup>th</sup> & 10 <sup>th</sup>	<p><b>Lipids</b></p> <ul style="list-style-type: none"> <li>❖ Classification – structure – properties -Function</li> <li>❖ Neutral fats (TAG)- storage, hydrolysis,</li> <li>❖ Metabolism</li> <li>❖ Cholesterol -function &amp; metabolism</li> <li>❖ Lipoprotein structure</li> </ul>
11 <sup>th</sup> & 12 <sup>th</sup>	<p><b>Hormone</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Definition &amp; function</li> <li><input type="checkbox"/> Mechanism of action of hormone</li> <li><input type="checkbox"/> Effect and properties of some hormones</li> </ul>

13 <sup>th</sup> & 14 <sup>th</sup>	<p><b>Nucleotides</b></p> <ul style="list-style-type: none"> <li>▪ N-bases, nucleosides, nucleotides, RNA &amp; DNA</li> <li>▪ Degradation of purine, pyrimidin &amp; nucleotide</li> <li>▪ Metabolism disorder of purine &amp; pyrimidin</li> <li>▪ free radicals - definition, generation - free radical scavenger(enzyme system)</li> <li>▪ anti-oxidants (definition &amp; types) - role of antioxidants in the body</li> </ul>
15 <sup>th</sup>	<p><b>Vitamins &amp; minerals</b></p> <p><b>I. Vitamins</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> definition, classification, sources, structure, deficiency &amp; excess</li> </ul> <p><b>II. Minerals</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> trace metals (Zn, Cu, Se and Co)</li> <li><input type="checkbox"/> metals poisoning (Hg, Cd, Al and Pb)</li> <li><input type="checkbox"/> detoxification &amp; biotransformation</li> </ul>

Weeks	Practical Experience
1 <sup>st</sup>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Glassware</li> <li><input type="checkbox"/> Determination of PH</li> </ul>
2 <sup>nd</sup>	Titration of reducing agent against oxidative agent
3 <sup>rd</sup>	Standard curve & Verification of Beer's Lambert law
4 <sup>th</sup>	Biuret test for peptide bonds
5 <sup>th</sup>	Denaturation of protein
6 <sup>th</sup>	Qualitative tests to detect an enzyme activity
7 <sup>th</sup>	General test for carbohydrate
8 <sup>th</sup>	Hydrolysis of disaccharide & polysaccharide
9 <sup>th</sup>	Formation of fatty acid & insoluble soap
10 <sup>th</sup>	Qualitative Estimation of cholesterol
11 <sup>th</sup>	Data show presentation of ELISA
12 <sup>th</sup>	Data show presentation of RIA
13 <sup>th</sup>	Isolation of RNA from yeast (Film)
14 <sup>th</sup>	Isolation of DNA( Film)
15 <sup>th</sup>	Determination of ascorbic acid

Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Anatomy تشريح	English	First Year			
		Course 1	2	2	4

**General objectives:**

The student can be able to know: Anatomy of the human body systems.

**Specific objectives:**

0. The organs of the body in relating to the surface of the body.
1. The relation of the organs of each system.

Weeks	Theoretical Topics
1 <sup>st</sup>	<p><b>-Anatomical Directions:</b> Giving the altgram to the all directions of the human body.</p> <p><b>-Surface anatomy heart:</b> Describe the position of the heart according to the chest wall and the number of the rib.</p>
2 <sup>nd</sup>	<p><b>-Surface Anatomy of lungs:</b> Describe the position of the lungs according to the chest wall and the number of the rib.</p> <p><b>-Anatomy of the abdomen surface:</b> draw the regions of the abdominal surface according to the horizontally &amp; vertically lines.</p>
3 <sup>rd</sup>	<p><b>-Anatomy of stomach:</b> demonstrate the relation of the stomach to the other organs to the abdomen.</p> <p><b>-Anatomy of Intestine:</b> demonstrate the relation of the Intestine to the other organs to the abdomen.</p> <p><b>-Anatomy of the Appendix:</b> define the region of the appendix at the right iliac region.</p> <p><b>Anatomy of the liver &amp; spleen:</b> show them the regions of liver &amp; spleen according to the surface anatomy of abdomen.</p> <p><b>-Anatomy of the gall bladder:</b> determine the region of gall bladder at the right sub – costal region .define the region of the uterus at the supra – pubic region.</p>

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4 <sup>th</sup>	<p><b>Anatomy of the skeleton:</b> We describe the central skeleton system: Skull – vertebral column &amp; the peripheral. Bones of the skull and vertebral column: name the numbers of the bones on all at surfaces of the skull. Show the student the types of the vertebrae column and there numbers.</p>
5 <sup>th</sup>	<p><b>Anatomy of the upper limb:</b> show the bones of the shoulder on the skeleton which is the scapula and the clavicle. Show the bones of the arm (humerus).</p>
6 <sup>th</sup>	<p><b>Anatomy of forearm</b></p> <ul style="list-style-type: none"><li>- Show the bones of the forearm: (ulna and radius).</li><li>- Demonstrate the bones of the hand : (Carpal bones and meta carpal and phalanges).</li></ul>
7 <sup>th</sup>	<p><b>Anatomy of the Lower limb:</b> <b>Bones of the pelvis :</b> define the bones of the pelvis which are : (Ilium and Ischium, Pubis and sacrum). <b>Bones of the thigh:</b> demonstrate of the skeleton the femur bone with the lower and upper ends.</p>
8 <sup>th</sup>	<p><b>Bones of the leg :</b> show the bones which are : (Tibia &amp; fibula) And extraction to the femur and the foot. <b>Bones of the foot:</b> describe the bones which are: (Tarsal &amp; metatarsal &amp; phalanges).</p>
9 <sup>th</sup>	<p><b>Anatomy of Musculoskeletal System</b> <b>Muscle of the shoulder :</b> show them on the model all the muscles of the shoulder <b>Anatomy of the chest wall :</b> give the types and numbers of the ribs and declaration of the sternum</p>
10 <sup>th</sup>	<p><b>Muscles of the chest &amp; abdomen :</b> give the name of the muscles of the chest wall and abdominal wall. <b>Muscles of the back &amp; gluteal region :</b> show the student muscles of the back and gluteal muscles</p>
11 <sup>th</sup>	<p><b>Anatomy of the cardio-vascular system :</b> describe the anatomy and the structure of heart and the main arteries and veins around the body.</p>



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<b>12<sup>th</sup></b>	<b>Anatomy of the digestive system:</b> show them the model of the organs of the digestive system.
<b>13<sup>th</sup></b>	<b>Respiratory system:</b> demonstrate the lungs and bronchus and bronchi.
<b>14<sup>th</sup></b>	<b>The urogenital system:</b> show them the kidney and urinary bladder with exaltation to the uterus & prostate.
<b>15<sup>th</sup></b>	<b>The central nervous system:</b> describe the brain , cerebellum, medulla oblongata and the spinal cord.

<b>Weeks</b>	<b>Practical</b>
<b>1<sup>st</sup></b>	<p><b>Anatomical Directions:</b> learn the directions of the body as: superior-inferior-medial-lateral.</p> <p><b>Surface Anatomy Heart :</b> learn the site of the heart inter action to the ribs of the chest and sternum .</p> <p><b>Surface Anatomy lungs:</b> learn the relation of the lungs to the Number of the ribs and clavicle bone .</p>
<b>2<sup>nd</sup></b>	<p><b>Surface Anatomy of the Abdomen surface :-</b> show the surface of the Abdomen to nine regions according to horizontal and vertical lines.</p> <p><b>Surface Anatomy of stomach:</b> - mention the relation of stomach to the surface region of Abdomen.</p> <p><b>Surface Anatomy of intestine:</b> - give the relation of small and large intestine to the region of Abdomen.</p>
<b>3<sup>rd</sup></b>	<p><b>Surface Anatomy of the Liver &amp; spleen:-</b> give the site of liver and spleen according to the region of The Abdomen.</p> <p><b>Surface Anatomy of the Appendix :</b> - The site of the appendix in relation to the Surface Anatomy of Abdomen.</p> <p><b>Surface Anatomy of the gallbladder:-</b> The site of the gallbladder in relation to the liver and Abdomen.</p> <p><b>Surface Anatomy of the uterus :-</b> The site of the uterus according to the abdominal region.</p>

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4 <sup>th</sup>	<b>Bones of the Skull :-</b> show the bones of the interior surface and outer surface of the Skull . <b>Bones of the vertebral column:</b> Name the types of the vertebra: cervical thoracic and sacral . lumber vertebra .
5 <sup>th</sup>	<b>Anatomy of the skeleton:-</b> Describe the types of the bones and the central and peripheral skeleton . <b>Bones of the shoulder :-</b> show the bones of the scapula and Clavicle .
6 <sup>th</sup>	<b>Bones of the arm : -</b> Name the humerus bone in relation to Shoulder . <b>Bones of the forearm :-</b> describe the radius and ulna bones.
7 <sup>th</sup>	<b>Bones of the Pelvis:-</b> Describe the Pelvic bone and sacral bone. <b>Bones of the thigh :-</b> Name the femur bone in and sacral bone .
8 <sup>th</sup>	<b>Bones of the leg :-</b> Name the bones which are the tibia and fibula. <b>Bones of the foot :-</b> It consist from metatarsal bone and metatarsal and phalanges.
9 <sup>th</sup>	<b>Anatomy of the chest wall :-</b> Give the types and numbers of ribs in relation to the sternum. <b>Muscle of the shoulder :-</b> Mention the Muscles of shoulder pectorals major and pectorals minor-muscles.
10 <sup>th</sup>	<b>Muscle of the chest and abdomen :-</b> Name the muscles of the abdominal wall and muscles of the interior chest . <b>Muscle of the Back and Gluteal region :-</b> Describe the name of the muscles on the back and muscles of the gluteal region .
11 <sup>th</sup>	<b>Anatomy of the cardio-vascular system :</b> We show them the model of the organs which is the heart and big vassals .
12 <sup>th</sup>	<b>Anatomy of the digestive system :-</b> Describe the organs of the digestive system and showing the students most of organs related to this system.
13 <sup>th</sup>	<b>Respiratory system :</b> demonstrate the lungs and bronchus and bronchi and showing the students most of organs related to this system.
14 <sup>th</sup>	<b>The urogenital system :</b> We show them the kidney and urinary bladder with exaltation to the uterus & prostate and showing the students most of organs related to this system.
15 <sup>th</sup>	<b>The central nervous system :</b> We describe the brain – cerebellum – medulla oblongata and the spinal cord and showing the students most of organs related to this system.

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الساعات الاسبوعية		السنة الدراسية	لغة التدريس	المادة
المجموع	ع	ن	العربية	<b>Computer application )1(</b> تطبيقات الحاسوب )1(
3	2	1		

الهدف العام : اكساب الطالب مهارات التعامل مع التطبيقات المكتبية الأساسية وانشاء الملفات والمستندات المكتبية. واستخدام نظام التشغيل فضاء عن اساسيات العمل ضمن البيئة الرقمية.  
الهدف الخاص : اكساب الطالب المعرفة في ادارة واستخدام تطبيقات الحاسوب المختلفة .

الفصل الاول) مقرر 1 (		
الاسبوع	عناوين المفردات النظرية	عناوين المفردات العملية
الاول	اساسيات الحاسوب Computer Fundamentals اطوار دورة حياة الحاسوب ، تطور اجيال الحاسوب	- امثلة عملية حول تصفح وفتح واغلاق النوافذ ومربعات الحوار والطريقة الصحيحة للتعامل مع لوح المفاتيح والمؤشر والجهزة الخرى.
الثاني	يا الحاسوب ومجالات استخدامه تصنيف الحاسوب من حيث الغرض والحجم ونوع البيانات	-امثله عملية حول التخصيص والتعامل مع اليفونات وتغيير دقة الشاشة.
الثالث	مكونات الحاسوب Computer Components الجزء المادية للحاسوب الكيانات البرمجية	- تدريب الطالب على انشاء مستخدم جديد وتكبير النوافذ واطهار لوح المفاتيح التعرف على مكونات المانية للحاسبة.
الرابع	حاسوبك الشخصي مفهوم امن الحاسوب وتراخيص البرامج	- تدريب الطالب على التعامل مع تراخيص برامج الحاسوب وانواعها والتعامل مع المنشأ الصلي للبرامج .
الخامس	امان الحاسوب وتراخيص البرامج Computer Safety & Software Licences	تدريب الطالب على التعامل مع امان الحاسوب.
السادس	الالكتروني، اشكال التجاوزات، امن الحاسوب، خصوصية الحاسوب	تدريب الطالب على التعامل مع خصوصية الحاسوب

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<p>تدريب الطالب على التعامل مع الختراق الإلكتروني وأنواعه أنواع وصفات الفيروسات، كيفية عمل صورة (Backup) للحاسوب للحماية</p>	<p>تراخيص برامج الحاسوب وأنواعها، الملكية الفكرية، الختراق الإلكتروني، برمجيات خبيثة، أهم الخطوات اللازمة للحماية من عمليات الختراق، اضرار الحاسوب على الصحة</p>	<p>السابع</p>
<p>تدريب الطالب على التعامل نظم التشغيل، تهيئة وتقسيم القرص الصلب (Hard) داخليا وخارجيا</p>	<p>Operating Systems نظم التشغيل تعريف نظام التشغيل، الوظائف، الاهداف، التصنيف امثلة لبعض نظم التشغيل</p>	<p>الثامن</p>
<p>تدريب الطالب على تنصيب ويندوز 7.</p>	<p>نظم التشغيل نظام التشغيل ويندوز 7</p>	<p>التاسع</p>
<p>- تدريب الطالب على قائمة ابدأ وأوامر Run شريط المهام وتكوين ملف وخزونه باسم الطالب على سطح المكتب. التعامل من التوافذ للبرنامج وشرطة التمرير. - تدريب الطالب على استخدامات F1,F2,...,F12 في لوحة المفاتيح</p>	<p>مكونات سطح المكتب قائمة ابدأ شريط المهام</p>	<p>العاشر</p>
<p>نشاء مجلد باسم معين وتدريب حول تغير الاسم والخفاء والسترجاع والحذف والمسار له.</p>	<p>المجلدات والملفات اليقونات</p>	<p>الحادي عشر</p>
<p>تدريب الطالب على اجراء عمليات على التوافذ خلفيات سطح المكتب</p>	<p>اجراء عمليات على التوافذ خلفيات سطح المكتب</p>	<p>الثاني عشر</p>
<p>تدريب الطالب على استخدام لوحة التحكم</p>	<p>لوحة التحكم لوحة تحكم ويندوز "Panel Control" مجموعات (Category)</p>	<p>الثالث عشر</p>
<p>تدريب الطالب على حذف برنامج معين وتنصيبه مرة اخرى.</p>	<p>من لوحة التحكم Defragment تنظيم الملفات داخل الحاسوب , تنصيب البرامج وحذفها</p>	<p>الرابع عشر</p>
<p>تدريب الطالب على العدادات الشائعة في الحاسوب تنصيب الطبعة وكيفية التعامل معها , ضبط الوقت والتاريخ , صيانة القرص الاولية Partitions C,D,E,F</p>	<p>مض الحالات والعدادات الشائعة في الحاسوب , ادارة الطباعة ضبط الوقت والتاريخ , صيانة القرص الاولية</p>	<p>الخامس عشر</p>

الملاحظات: تكون لغة

التدريس باللغة العربية و تكون اسماء المصطلحات والمسارات والقوائم ومربعات

الحوار باللغة الانكليزية.

المصادر:

1- اساسيات الحاسوب وتطبيقاته المكتبية ( الجزء الاول ) أ.م. د. زياد لمحم عبود، أ. د. غسان

حميد عبدالمجيد، أ.م. د. أمير حسين مراد، م. بال كمال احمد

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Subject	Teaching Language	Year of the study	Hours in week		
		First Year	Theory	Practice	Total
حقوق الإنسان والديمقراطية	اللغة العربية	Course 1	2	-	2

**الاهداف العامة :-** تهدف حقوق

الإنسان إلى تحقيق التقدم الإقفاقي لقدماء نفاء الشعب والقي تحقيق الرفا بقة الجماعية والى حماة الحرية الأساسية للفرد صورة عامة من خقال احتقارم حقوققال الأساسية

في الحرية والعدالة والمساواة .

**الاهداف الخاصة :-** تهدف حقوق

الإنسان إلى ضمان التعاون والنسجام معا بين النظام السياسي الققال كالحكومة والشعب وعلبال فأنها تسعى في فدنها إلى تحقيق ققدر كبير من العالقة المتوافقة فين الشعب

و بينها و عكسال فأنها تفشل عن تحقي تطلعاتها .

المفردات النظرية	
الاسبوع	تفاصيل المفردات
الاول	حقوق الإنسان - تعريفها - ء دافها . جنور حقوق الإنسان وتطور ا في التاريخ البشري - حقوق الإنسان في العصور القديمة والوسيطه
الثاني	حقوق الإنسان في الحضارات القديمة وخصوصاً حضارة وادي الرافدين . حقوق الإنسان في الشرااع السماوية مع التركيز على حقوق الإنسان في السلام .
الثالث	حقوق الإنسان في العصور الوسطى - حقوق الإنسان في المذاب والمدارس والنظريات السياسية - حقوق الإنسان في الشركات وإعلاناتها والأورات والساتير كالوثا التكلزبية - الاورة الأمريكية - الاورة الفرنسية - الاورة الروسية ( حقوق الإنسان في التاريخ المعاصر والحديث - الاعتراف الدولي حقوق الإنسان منذ الحرب العالمية الاولى وعصبة الأمم المتحدة
الرابع	ف القليمي حقوق الإنسان - التفاقية الأورية لحقوق الإنسان 0551 - التفاقية الأمريكية لحقوق الإنسان 0595 - الميااق البريقي لحقوق الإنسان 0590 - الميااق الحكومية وحقوق الإنسان كاللجنة الدولية للصليب الأحمر - منظمة العفو الدولية - منظمة مراقبة حقوق الإنسان ) .
الخامس	المنظمات الوطنية لحقوق الإنسان . حقوق الإنسان في الساتير العراقية بين النظرية والواقع .

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السادس	العلاقة بين حقوق الإنسان والحريات العامة :- 0- في الإعلان العالمي لحقوق الإنسان .2- في المواثيق الإقليمية والساتير الوطنية .ض
السابع	حقوق الإنسان الضرورية وحقوق الإنسان الجماعية . حقوق الإنسان الاقتصادية والاجتماعية والاقافية وحقوق الإنسان المدنية والسياسية
الثامن	حقوق الإنسان الحديثة - الحفا في التنمية - الح في البيئة النظيفة - الح في التضامن - الح في الدين . ضمانات
التاسع	احترام وحماية حقوق الإنسان على الصعيد الوطني - الضمانات في الدستور والقوانين - الضمانات في مبدء سيادة القانون . الضمانات في الرقابة الدستورية - الضمانات في حرية الصحافة والرأي العام - دور المنظمات غير الحكومية في احترام وحماية حقوق الإنسان . ضمانات واحترام وحماية حقوق الإنسان على الصعيد الدولي - دور العمل المنظمات ووكالاتها المتخصصة في توفير الضمانات .
العاشر	- دور المنظمات الإقليمية كجامعة العربية - التحاد الأوري - التحاد الأفريقي - منظمة الدول الأمريكية - منظمة أميان ) . - النظريات العامة للحريات - اصل الحقوق والحريات - موقف المشروع من الحقوق والحريات المعلنة - استخدام مصطلح الحريات العامة . الطبيعة الوظيفية لمفهوم الحريات العامة - العتبارات الفلسفية للح الوظيفي - العتبارات البنوية للح الوضعي - العتبارات الاقتصادية والحريات العامة . القاعدة الشرعية لدولة القانون .
الحادي عشر	تنظيم الحريات العامة من قبل السلطات العامة . التقاضي عو النظام غير القضائي . القانون المدني كحقوق وواجبات الموظف)
الثاني عشر	الطعن القضائي - تحديد مسؤولية الدولة عن عمالها الشرعية . - اثر ازدواجية القضاء على الحريات العامة . - الحريات العامة مقتضى النقال الإداري .
الثالث عشر	التطور التاريخي لمفهوم المساواة . التطور الحديث لفكرة المساواة .
الرابع عشر	- المساواة بين الجنسين . المساواة بين الأفراد حسب معتقداتهم وعنصر ل .

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Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
English language اللغة الانكليزية	English	First Year			
		Course 1	2	-	2

**General Objective:**

Students should be able to:

1. Develop their intellectual, personal and professional abilities.
2. Acquire basic language skills (listening, speaking, reading and writing) in order to communication with speakers of English language.
3. Acquire the linguistic competence necessarily required in various life situations.
4. Acquire the linguistic competence required in different professions.
5. Develop positive attitudes towards learning English.
6. Develop the linguistic competence that enables them, in the future, to present the culture and civilization of their nation.
7. Acquire the linguistic bases that enable them to participate in transferring the scientific and technological advances of other nations to their nation.

**Special Objective:**

With the change of the position of English in the new set up of Iraq, the aims and objectives of teaching English has naturally undergone a change. We have accepted English as a foreign language. English is , therefore, taught now as a skill, So the objectives of teaching English in this course will be the acquisition of linguistic or communicative skills. Again, to enable the student to read in English the subjects related to his specialization and to provide the opportunity to communicate with the books and magazines and foreign research.



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<b>The Lesson Plan – Level 2</b>	
<b>Week</b>	In this course of teaching English language, the students will develop their intellectual, personal and professional abilities, acquire basic language skills (listening, speaking, reading and writing) in order to communication with speakers of English language, also acquire the linguistic competence necessarily required in various life situations. And develop their awareness of the importance of English as a means of international communication.
<b>First</b>	Grammar ( There is/are, preposition ). Pronunciation . Translation. Everyday English ( Directions )
<b>Second</b>	Grammar (was/ were, past tense , irregular verbs ). Writing( Famous people ). Vocabulary ( Words groups) .
<b>Third</b>	Past tense ( We had a good time ). Grammar ( past simple, regular verbs, irregular verbs ) . Listening ( Mike's day), Writing ( Last Saturday).
<b>Forth</b>	Questions ( Where, What, Who, etc.). Everyday English ( Fill in forms ) Exercises .
<b>Fifth</b>	Activities ( We can do it ). Listening ( Can I be in your Pop group ? ). Pronunciation ( can / can't ). Requests and offers .
<b>Sixth</b>	Everyday English ( What is the problem?) . Vocabulary ( odd one out )
	Exercises.
<b>Seventh</b>	Asking politely ( I want , would like ). Speaking in the restaurant ( food and drink ) Translation . Reading ( You are what you eat ).

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<b>Eighth</b>	Grammar (present continuous). Translation . Reading ( Summer in Portugal).
	Vocabulary ( Cloths ).
<b>Ninth</b>	Everyday English ( What is the matter ? ) . Exercises .
	Holidays ( Time to go ) .
<b>Tenth</b>	Grammar ( present continuous for the future ) . Listening ( Hannah's diary ).
	Pronunciation (Shifting sentence stress ) .
<b>Eleventh</b>	Translation . Vocabulary ( Transport and travel ).
<b>Twelfth</b>	Reading and Speaking . Everyday English ( going Sightseeing)
	Rooms and Furniture
<b>Thirteenth</b>	Speaking ( How to have good time in Sydney ) . Exercises .
	Traveling
<b>Fourteenth</b>	Vocabulary ( Months , sports ) . Pronunciation ( Who were they ?).
	Question Words Translation
<b>Fifteenth</b>	Vocabulary ( Adverbs ) Everyday English ( May I?) Exercises

Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Health Assessment التقييم الصحي	English	First Year			
		Course 2	2	4	6

**Course Objectives:**

At the end of this course the students will be able to:

- 1- Describe the components of the health history
- 2- Apply interviewing skills and techniques to conduct a successful interview.
- 3- Evaluate the persons' general health status .
- 4- Utilize various tools and techniques to measure and collect information (interview, observing, listening, physical examination, reviewing records and results of diagnostic test.
- 5- Explain the sequence of systematic approach of physical examination of body system.
- 6- Demonstrate the basic techniques of physical examination.
- 7- Describe the physical examination techniques of inspection, palpation, percussion, and auscultation
- 8- Identify common instruments used during physical examination

weeks	Theoretical topics
1 <sup>st</sup> & 2 <sup>nd</sup>	<b>Introduction and Overview to Health Assessment:</b> - General appearance Personal hygiene, Grooming , Dressing , Posture and gesture , Speech pattern , Orientation
3 <sup>rd</sup> & 4 <sup>th</sup>	<b>Integumentary System (skin, hair, nails)</b>
5 <sup>th</sup>	<b>Head and neck</b>
6 <sup>th</sup>	<b>Respiratory assessment</b>
7 <sup>th</sup>	<b>Cardiovascular System</b>
7 <sup>th</sup> & 8 <sup>th</sup>	<b>Peripheral Assessment</b>
9 <sup>th</sup>	<b>Abdominal Assessment</b>
10 <sup>th</sup> & 11 <sup>th</sup>	<b>Neurological System</b>
12 <sup>th</sup> & 13 <sup>th</sup>	<b>Musculoskeletal System</b>
14 <sup>th</sup>	<b>Reproductive System</b>
15 <sup>th</sup>	<b>laboratory Test</b>

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weeks	Practical topics
1 <sup>st</sup>	<b>Introduction to Health Assessment :</b> (subjective and objective ) Collecting data. Assessment, interview and health history. Functional health patterns.(Katz Index of Independence) Gordon's.
2 <sup>nd</sup>	Role of the Nurse , Self- Preparation- Patient preparation- Equipment preparation- Environment preparation-
3 <sup>rd</sup>	Physical Examination Techniques: -Inspection. -Palpation. -Percussion.-Auscultation.
4 <sup>th</sup>	<b>Integumentary System Assessment</b> -Skin assessment -Hair & nail assessment
5 <sup>th</sup> & 6 <sup>th</sup>	<b>Head &amp; Neck Assessment</b> -Eyes –Ears -Nose & sinuses -Mouth -Thyroid glands
7 <sup>th</sup>	-Lymph nodes, -blood vessels -muscles - cervical vertebra of the head & neck
8 <sup>th</sup>	Thoracic & lung assessment
9 <sup>th</sup>	Cardiovascular assessment
10 <sup>th</sup>	Peripheral vascular assessment
11 <sup>th</sup>	Abdominal assessment
12 <sup>th</sup>	Musculoskeletal assessment
13 <sup>th</sup>	Neurologic assessment
14 <sup>th</sup>	Reproductive system assessment -Female -Male
15 <sup>th</sup>	Laboratory test

Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Surgical Nursing تدريب جراحي	English	First Year			
		Course 2	2	4	6

**General objectives:**

The student can be able to know the general information about surgical diseases and how can provide nursing care for patient.

**Specific objective:**

- 1-learn about the surgical nursing responsibility, complications and how to reduce and control of complication.
- 2- Responsibilities for patients before and after surgery
- 3- Providing health advice and education to patients

Weeks	Theoretical topics
1 <sup>st</sup>	common of surgery abbreviation ,Hospital orientation,surgical terminology
2 <sup>nd</sup>	Perioperative nursing intervention for patient
3 <sup>rd</sup>	Surgical management of cardiovascular diseases/coronary an angioplasty/indication complication.
4 <sup>th</sup>	Diagnostic procedures: cystoscopy, biopsy, renal angiography, define/ purpose/ intervention and responsibility before and after procedure.
5 <sup>th</sup>	Gastrointestinal system/ physical assessment and diagnostic tests /appendicitis/causes path physiology sign and symptom/ treatment/ prepare for appendectomy .

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<b>6<sup>th</sup></b>	<b>Intestinal obstruction sign and symptom/ treatment/ nursing care</b>
<b>7<sup>th</sup></b>	<b>Kidney dialysis : hemodialysis / indication /complication / nursing care and education.</b>
<b>8<sup>th</sup></b>	<b>Peritoneal dialysis/ indication /complication nursing care and education.</b>
<b>9<sup>th</sup></b>	<b>Kidney transplantation: definition preoperative nursing intervention complication post-operative nursing care</b>
<b>10<sup>th</sup></b>	<b>Hernia/types/ sign and symptom/ treatment/ nursing care and education.</b>
<b>11<sup>th</sup></b>	<b>Fractures / types/ causes/ treatment and nursing intervention.</b>
<b>12<sup>th</sup></b>	<b>Amputation/ types/ causes/ treatment and nursing intervention.</b>
<b>13<sup>th</sup></b>	<b>Diabetic foot / causes /sign and symptom/ treatment/ nursing care and education.</b>
<b>14<sup>th</sup></b>	<b>Para thyroidectomy: definition/ typy/ preoperative nursing intervention/ complication post-operative nursing care</b>
<b>15<sup>th</sup></b>	<b>Definition of chemotherapy /side effects /method administration of chemotherapy / /patient education / nursing roles for patient injection.</b>

<b>Weeks</b>	<b>Practical Topics</b>
<b>1<sup>st</sup></b>	<b>Training in cases of operations - training on hand-washing and wearing bra and gloves - training to deal with surgical instruments.</b>
<b>2<sup>nd</sup></b>	<b>Training to create a patient for surgery - Training to withdraw secretions - give intravenous fluids - give blood.</b>

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<b>3<sup>rd</sup></b>	<b>Coronary an angioplasty / nursing Management.</b>
<b>4<sup>th</sup></b>	<b>Training in lobbies to identify: diagnostic procedures: (cystoscopy, biopsy, and renal angiography).</b>
<b>5<sup>th</sup></b>	<b>Nursing intervention and how to prepare for appendectomy.</b>
<b>6<sup>th</sup></b>	<b>I.v Fluid administration.</b>
<b>7<sup>th</sup></b>	<b>Training in the kidney dialysis lobbies for patient who receives peritoneal dialysis.</b>
<b>8<sup>th</sup></b>	<b>Training in the hemodialysis lobbies.</b>
<b>9<sup>th</sup></b>	<b>Training in the lobbies of kidney transplantation - nursing care before the kidney transplant - for the donor to the College before kidney transplantation - for the patient after the kidney transplant - for the donor after a kidney transplant - monitoring the patient's condition at the time of any complications after transplant college.</b>
<b>10<sup>th</sup></b>	<b>Nursing intervention and education for hernia.</b>
<b>11<sup>th</sup></b>	<b>Training in the lobbies of fractures - nursing care of joints and bones disease</b>
<b>12<sup>th</sup></b>	<b>Training in lobbies of fractures to heal amputation and nursing education.</b>
<b>13<sup>th</sup></b>	<b>Nursing intervention for diabetic foot patient.</b>
<b>14<sup>th</sup></b>	<b>Para thyroidectomy/ preoperative nursing intervention/ complication post-operative nursing care</b>
<b>15<sup>th</sup></b>	<b>Nursing care before and after chemotherapy administration for patient.</b>

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Subject	Teaching Language	Year of the study	Hours in week		
		First Year	Theory	Practice	Total
Medical Virology and Parasitology فَيْرُوسَات طِبِيَّةٌ وَطَفِيلِيَّات	English	Course 2	2	2	4

**Objectives :-**

At the end of the course student will be able to know

- 1- Parasitology and Mycology.
- 2- Medical Parasitology (Protozoa and Worms).
- 3- Factor helps transmission of diseases.
- 4- Pathogenic Parasites.
- 5- Life cycle of the parasite.
- 6- Treatment of parasitic infections & Diagnosis of parasites.
- 7- Prevention and Control.
- 8- Fungal infection types, Clinical diagnosis, treatment.

Weeks	Theoretical Topics
1 <sup>st</sup>	parasite definition , parasitology , host , commensalisms parasitism , parasite and pathogenicity
2 <sup>nd</sup>	intestinal protozoa ,amoebic dysentery , shape life cycle symptoms , diagnosis, treatment. E.histolytica life cycle symptoms, diagnosis, treatment.
3 <sup>rd</sup>	E. gingivalis life cycle symptoms, diagnosis , treatment. Acanthameoba life cycle symptoms , diagnosis , treatment.
4 <sup>th</sup>	Intestinal flagella , giardia lamblia , shape , diagnosis , treatment . intestinal cilia: blantidium coli- shape- life cycle disease diagnosis, treatment.
5 <sup>th</sup>	N. fowleri life cycle symptoms , diagnosis , treatment. T. vaginalis life cycle symptoms, diagnosis, treatment.
6 <sup>th</sup>	Blood unicellular parasite plasmodium: Life cycle – Laboratory Diagnosis – Disease Treatment.
7 <sup>th</sup>	Leishmania donovani shape: Life cycle, Disease, diagnosis, Treatment. Leishmania tropica : Shape – disease, treatment.



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8 <sup>th</sup>	Toxoplasmosis: shape- life cycle disease diagnosis , treatment .
9 <sup>th</sup>	Intestinal worms : pin worme , enterobius , shape , male , femal , egg , life cycle , disease , treatment
10 <sup>th</sup>	Ascaris : shape , ( male , femal , egg ) life cycle , disease , diagnosis , treatment .
11 <sup>th</sup>	Tap worms: Taenia solium & Taenia saginata:- shape, life cycle, diagnosis , treatment
12 <sup>th</sup>	Schistosoma hacmatobium : Shape , male , femal , egg , life cycle , disease, diagnosis , treatment .
13 <sup>th</sup>	Hydatid cyst: shape, life cycle, diagnosis, treatment.
14 <sup>th</sup>	Mycology : Introduction general, classification of fungi.
15 <sup>th</sup>	Fungal infection types, Clinical diagnosis, treatment

Week	Practical Topics
1st	Stool Examination: collection, preparation, culture and diagnosis.
2nd	Amoebic dysentery, examination, and diagnosis of Trophozoite and Cyst stages.
3rd	Giardia lamblia: examination of the sample, and diagnosis of trophozoite and cyst stages.
4 <sup>th</sup>	Balantidium coli: slid preparation and diagnosis of trophozoit and cyst stages.
5 <sup>th</sup>	Examination of sputum and saliva: collection, preparation, culture and diagnosis.
6 <sup>th</sup>	E. gingivalis: examination of the sample, and diagnosis of trophozoite and stage.
7 <sup>th</sup>	Examination of urine: collection, preparation, culture and diagnosis.
8 <sup>th</sup>	T. vaginalis: examination of the sample, and diagnosis of trophozoite and stage.
9 <sup>th</sup>	Examination of blood: collection, preparation of thick and thin smears and diagnosis.

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10 <sup>th</sup>	Leishmania spp and Toxoplasma gondii: examination of the sample, and diagnosis.
11 <sup>th</sup>	Enterobius vermicular, Ascaris and Ancylostoma: examination of the sample, and diagnosis.
12 <sup>th</sup>	Taenia spp. and Schistosoma spp.
13 <sup>th</sup>	Culture media of fungi: preparation of media
14 <sup>th</sup>	Cutaneous fungal diseases: examination of the sample, culture and diagnosis.
15 <sup>th</sup>	Genital fungal diseases: examination of the sample, culture and diagnosis.

Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Physiology وظائف الأعضاء	English	First Year			
		Course 2	2	2	4

**General objectives: -**

The student can be able to see the benefit of physiological processes in the human Nursing.

**Specific Objectives: -**

The student should be able to find out:

1. The various organs of the body.
2. Various body functions and physiological processes that take place inside the human body.
3. Devices used to measure and physiology.
4. How to use in measuring devices and physiology.

Theoretical Topics	
Weeks	Topics Details
1 <sup>st</sup>	Introduction to physiology: The cell and general physiology
2 <sup>nd</sup>	Membrane physiology: Transport of substances through the cell membrane, membrane potentials and action potentials
3 <sup>rd</sup>	Contraction of skeletal muscle, excitation of skeletal muscle
4 <sup>th</sup>	Contraction and excitation of smooth muscle
5 <sup>th</sup>	Heart muscle; the heart as a pump and function of the heart valves
6 <sup>th</sup>	The Normal Electrocardiogram
7 <sup>th</sup>	Blood cells, immunity, and blood clotting
8 <sup>th</sup>	The body fluid compartments: extracellular and intracellular fluids; interstitial fluid and edema
9 <sup>th</sup>	Urine formation by the kidneys: Glomerular filtration, renal blood flow, tubular processing of the glomerular filtrate and their control

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10 <sup>th</sup>	Regulation of acid-base balance
11 <sup>th</sup>	Respiration
12 <sup>th</sup>	The nervous system: General principles and sensory physiology
13 <sup>th</sup>	Gastrointestinal physiology
14 <sup>th</sup>	Metabolism and temperature regulation
15 <sup>th</sup>	Endocrinology and reproduction

<b>Practical Topics</b>	
<b>Weeks</b>	<b>Topics Details</b>
1 <sup>st</sup>	The compound microscope
2 <sup>nd</sup>	Collection of blood samples (venous and capillary blood)
3 <sup>rd</sup>	Hemocytometry (red cell count)
4 <sup>th</sup>	Hemocytometry (white cell count)
5 <sup>th</sup>	Examination of fresh blood: drop preparation and preparing a peripheral blood film
6 <sup>th</sup>	Estimation of hemoglobin
7 <sup>th</sup>	Determination of hematocrit (packed cell volume)
8 <sup>th</sup>	Staining a peripheral blood film and the differential leukocyte count
9 <sup>th</sup>	Erythrocyte sedimentation rate
10 <sup>th</sup>	Blood grouping (syn: blood typing)
11 <sup>th</sup>	Tests for hemostasis (bleeding time, coagulation time, platelet count)
12 <sup>th</sup>	Pulmonary function tests
13 <sup>th</sup>	Recording of systemic arterial blood pressure
14 <sup>th</sup>	Semen analysis
15 <sup>th</sup>	Urine examination

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Name Of course	Teaching Language	Lesson Year	Weekly Hours			
			Theory	Practical	All	NO. Of Units
Clinical chemistry الكيمياء السريرية	English	First	2	2	4	4
		Course 2				

Course objectives
<b>General Aims</b>
This course aims to give basic knowledge in Clinical Chemistry through theoretical and practical studies.
<b>Specific Aims</b>
<p>Upon completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• Describe protein, glucose, lipid, hormones, vitamins and electrolytes abnormalities.</li> <li>• Discuss the basic disorders of the different organs and define which laboratory tests may be performed to diagnose them.</li> <li>• Determine the enzymatic activity.</li> <li>• Know metabolic processes in cells.</li> <li>• Know hormones estimation methods.</li> <li>• Determine energy requirements</li> </ul>

Weeks	Theoretical Topics
1st	<p><b>Introduction to clinical chemistry</b></p> <ul style="list-style-type: none"> <li>- laboratory supplies</li> <li>- separation techniques</li> <li>- types of specimen</li> <li>- disposal of hazardous materials</li> </ul>
2 <sup>nd</sup> & 3 <sup>rd</sup>	<p><b>Body fluids</b></p> <p><b>I. Blood</b></p> <ul style="list-style-type: none"> <li>- composition &amp; functions</li> <li>- blood clotting &amp; hemoglobin degradation</li> <li>- anticoagulation - hemolysis</li> </ul> <p><b>II. Urine</b></p> <ul style="list-style-type: none"> <li>- formation- excretion</li> <li>-normal &amp; abnormal amount of urine</li> <li>- urine analysis (physical &amp; chemical characteristic)</li> </ul>

4 <sup>th</sup>	<p><b>Disorder of Electrolyte (sodium, potassium, iron, calcium&amp; chloride)</b></p> <ul style="list-style-type: none"> <li>◆ <b>Kidney function test</b> <ul style="list-style-type: none"> <li>• function of kidney</li> <li>• assessment of renal functions tests</li> <li>• component of KFTs</li> <li>• routine kidney function tests</li> </ul> </li> </ul>
5 <sup>th</sup> & 6 <sup>th</sup>	<p><b>Plasma proteins</b></p> <ul style="list-style-type: none"> <li>• Types of protein abnormalities</li> <li>• Protein in other body fluids</li> <li>• Methods of measure protein</li> <li>• Non protein nitrogen compounds ( urea, creatinine, uric acid, ammonia)</li> <li>• disorder of urea cycle</li> </ul>
7 <sup>th</sup> & 8 <sup>th</sup>	<p><b>Enzymes</b></p> <ul style="list-style-type: none"> <li>□ <b>Clinical enzymology</b> <ul style="list-style-type: none"> <li>▪ ( ALT, AST, GGT, ALP,ACP)</li> <li>▪ Enzyme profile in liver disease</li> <li>▪ Enzyme markers of cardiac disease</li> <li>▪ Amylase &amp; lipase</li> </ul> </li> <li>□ <b>Liver function test</b></li> <li>◆ <b>Major function of liver</b></li> <li>◆ <b>Classified of liver function test</b></li> <li>◆ <b>markers of hepatic dysfunction</b> <ul style="list-style-type: none"> <li>- test based on synthetic function of liver - test based on serum enzyme</li> <li>- test of obstructive liver disease</li> </ul> </li> </ul>
9 <sup>th</sup> & 10 <sup>th</sup>	<p><b>Carbohydrate</b></p> <ul style="list-style-type: none"> <li>• Types of carbohydrate and method of measures in blood</li> <li>• Hyperglycemia &amp; Hypoglycemia</li> <li>• Hormonal regulation of carbohydrate level in the body</li> <li>• Normal plasma glucose level &amp; clinical significance <ul style="list-style-type: none"> <li>- diabetes mellitus &amp; metabolic syndrome</li> <li>- laboratory investigation of diabetes</li> </ul> </li> </ul>
11 <sup>th</sup>	<p><b>Lipids</b></p> <ul style="list-style-type: none"> <li>◆ <b>General lipoprotein</b></li> <li>◆ <b>Lipid associated disease</b></li> <li>◆ <b>Plasma lipoprotein (types and their significance)</b></li> <li>◆ <b>Lipid profile</b></li> </ul>
12 <sup>st</sup> & 13 <sup>nd</sup>	<p><b>Hormone</b></p> <ul style="list-style-type: none"> <li>□ <b>disorders of:</b> <ul style="list-style-type: none"> <li>- hypothalamic and pituitary hormones</li> <li>- steroid hormones - thyroid hormones</li> <li>- pancreas &amp; gastro intestinal tract</li> <li>- pregnancy hormone</li> </ul> </li> </ul>

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<b>14<sup>th</sup></b>	<b>Nucleotides</b> <ul style="list-style-type: none"> <li>▪ Cancer- cellular differentiation, carcinogens and cancer therapy</li> <li>▪ Tumor markers</li> <li>▪ free radicals</li> <li>- clinical significance (lipid peroxidation)</li> </ul>
<b>15<sup>th</sup></b>	<b>Vitamins &amp; minerals</b> <ul style="list-style-type: none"> <li>▪ energy requirements</li> <li>▪ malnutrition risk</li> <li>▪ obesity</li> <li>▪ glycemic index</li> <li>▪ toxic substance in foodstuffs</li> </ul>

<b>Weeks</b>	<b>Practical Experience</b>
<b>1st</b>	<input type="checkbox"/> <b>Clinical laboratory supplies</b> <input type="checkbox"/> <b>Basic separation techniques</b> <input type="checkbox"/> <b>Units of measure.</b>
<b>2<sup>nd</sup></b>	<b>Collection techniques for blood samples</b>
<b>3<sup>rd</sup></b>	<b>Normal &amp; Abnormal constituent of urine</b>
<b>4<sup>th</sup></b>	<b>Estimation of creatinine</b>
<b>5<sup>th</sup></b>	<b>Estimation of total protein &amp; albumin level</b>
<b>6<sup>th</sup></b>	<b>Estimation of urea</b>
<b>7<sup>th</sup></b>	<b>Estimation activity of AST(GOT) or ALT(GPT) &amp; ALP or ACP</b>
<b>8<sup>th</sup></b>	<b>Estimation of hepatic dysfunction</b>
<b>9<sup>th</sup></b>	<b>Estimation of glucose level</b>
<b>10<sup>th</sup></b>	<b>Estimation of Glycosylated hemoglobin</b>
<b>11<sup>th</sup></b>	<b>Estimation of serum lipid profile</b>
<b>12<sup>th</sup></b>	<b>Estimation of thyroid hormone</b>
<b>13<sup>th</sup></b>	<b>Estimation of pregnancy hormone</b>
<b>14<sup>th</sup></b>	<b>Estimation of lipid peroxidation</b>
<b>15<sup>th</sup></b>	<b>Calculate body mass index (BMI)</b>

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Subject	Teaching Language	Year of the study	Hours in week		
			Theory	Practice	Total
Biostatistics الإحصاء الحيائي	العربية	First Year			
		Course 2	2	2	4

الاهداف العامة :-

سيكون الطالب قادرا في نهاية السنة الدراسية علي معالجة البيانات الاحصائية وتحليلها والتوصل الى الاستنتاجات الصحيحة ، وإعداد الاستمارات الاحصائية

الاهداف الخاصة :-

يتعرف الطالب على :-

التعامل مع البيانات الاحصائية. التعامل ومعرفة المقاييس الاحصائية الحياتية والصحية. تنظيم الاستمارة الاحصائية والاستمارة الصحية المتعلقة بالحوادث اليومية كالولادات و الوفيات والامراض

الاسبوع	تفاصيل المفردات
الاول	تعريف علم الاحصاء . طرائق جمع البيانات - عرض البيانات الاحصائية ووصفها
الثاني - الخامس	" تمثيل التوزيعات التكرارية "البيانات المبوبة " لعرض الجدولي "جداول التوزيعات التكرارية العرض البياني -المرج التكراري ، المنحني التكراري ، المضلع التكراري .
السادس والسابع	مقياس النزعة المركزية -لوسط الحسابي . الوسيط . المنوال .
الثامن	الاحصاء ات الحياتية ، النسبة والمعدل
التاسع	احصاءات الخصوبة .
العاشر والحادي عشر	احصاءات الأمراض - جداول الحياة .
الثاني عشر	تعريف الاحصاء الصحي ومصادره .
الثالث عشر	الحقول التي يعالجها الاحصاء الصحي .
الرابع عشر	احصاء اسباب الوفيات الشهادة الطبية ، السبب، الوفاة ، شهادة الوفاة .
الخامس عشر	احصاء المؤسسات الصحية .



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المساعات الأسبوعية		السنة الدراسية		اسم المادة باللغة الإنجليزية	اسم المادة باللغة العربية
المجموع	ع	ن	الأولى	Computer Application (2)	تطبيقات الحاسوب 2
3	2	1	العربية	اللغة	

الفصل الثاني		
الاسبوع	عناوين المفردات النظرية	عناوين المفردات العملية
الأول	مايكروسوفت وورد 2212 تشغيل برنامج مايكروسوفت وورد 2212	-كتابة نصوص كثيرة وتدريب الطالب على إجراء تلك الفعاليات.
الثاني	واجهة برنامج مايكروسوفت وورد 2212	- تدريب الطالب على عمل نصوص بتنسيقات مختلفة وسحبها على الطبيعة.
الثالث	تبويب ملف، تبويب الصفحة الرئيسية	تدريبات عملية على نصوص ضمن المستند. -إعطاء اسماء لشركات او طالب وتدريب الطالب على البحث عن اسم معين واستبداله.
الرابع	تبويب تخطيط الصفحة، تبويب عرض	تدريب الطالب على تخطيط الصفحة، تبويب عرض الترتيب على كتابة نصوص
الخامس	الارج للكتات في مايكروسوفت وورد 2212	اعطاء امثلة عملية حول الارج للكتات الترتيب على كتابة نصوص بطريقة أكثر احترافية
السادس	تبويب الارج Insert Tab مجموعة صفحات Pages	اعطاء امثلة عملية حول مجموعة صفحات تبويب الارج
السابع	مجموعة الجداول Tables	اعطاء امثلة عملية مجموعة الجداول Tables
الثامن	مجموعة الجداول Tables	اعطاء امثلة عملية اخرى مجموعة الجداول Tables
التاسع	مجموعة رسومات توضيحية	تدريب الطالب على مجموعة رسومات توضيحية
العاشر	مجموعة ارتباطات، مجموعة رأس وتذييل Header & Footer	-الارج صورة معينة وتكليف الطالب بأجراء تلك الفعاليات.
الحادي عشر	مجموعة نص Text، مجموعة رموز Symbols	-تدريب الطالب على كتابة نصوص تضم رموز العملة و الحروف الخاصة ورموز علمية وغيرها.
الثاني عشر	مهمل إضافية لميكروسوفت وورد 2212	-تدريب الطالب على كتابة معادلات تضم صيغ الجمع والضرب والرفع للأس والمصفوفات بأشكال مختلفة. -تدريب الطالب على انشاء جداول مع ادخال البيانات
الثالث عشر	مايكروسوفت بوربوينت 2212 فتح ملف جديد وخرنه على سطح المكتب. -إضافة وتحرير شرائح (محتوى، عنوان فرعي، محتويين، مقارنة، عنوان فقط شريحة فارغة، محتوى مع تعليق، صورة مع تعليق إضافة وتحرير النواع شريحة المحتوى)	-تدريب على فتح ملف جديد وخرنه على سطح المكتب. -إضافة وتحرير شرائح (محتوى، عنوان فرعي، محتويين، مقارنة، عنوان فقط شريحة فارغة، محتوى مع تعليق، صورة مع تعليق إضافة وتحرير النواع شريحة المحتوى)
الرابع عشر	إضافة نسق theme -مجموعة العرض الرئيسية views Master -إضافة حركات وضبط الوقت والتكرار لكل الشرائح وبشكل مختلف لكل شريحة.	-تدريب على حذف الشرائح ونقلها واعداد ترتيبها-إضافة نسق theme-تطبيق فعالية Master slide-إضافة حركات وضبط الوقت والتكرار لكامل الشرائح وبشكل مختلف لكل شريحة.
الخامس عشر	إضافة الحركات للشرائح	-إضافة حركية دخول واستقرار وخروج وحركات اخرى مع ضبط التكرار والوقت. وحفظ ملف العرض بصيغة PDF

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