

## FIRST YEAR (Preparatory Year)

FIRST SEMESTER					SECON	
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE
PENG 001	Prep English 1	3	20	0	PENG 003	Prep English 3
PENG 002	Prep English 2	3	20	0	PENG 008	Prep English 4
PBIO 121	Preparatory Biology	3	2	2	PCHM 121	Preparatory Chemistry
PCOS 001	Prep Computer Skills	2	2	0	PMDC 101	Medical Foundations
PCSK 001	Communication Skills	2	2	0	ARAB 101	Arabic Language
PHYS 121	Medical Physics	3	2	2	IC 101	Intro. to Islamic Culture
<b>TOTAL (CREDIT)</b>		<b>16</b>			<b>TOTAL (CREDIT)</b>	

## SECOND YEAR

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
ANA201	Anatomy	2	1	1		
BCH205	Biochemistry	4	3	1		
CLN 205	Vocational Health	2	2	0		
PHY208	Physiology	3	2	1		
CLN 201	Principles of Food Science & Nutrition	3	2	1		
IC102	Community Building in Islam	2	2	0		
ENGL-110	Writing Skills.	3	3	0		
<b>TOTAL ( CREDIT)</b>		<b>19</b>				
SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
BST211	Biostatistics	2	2	0		
CLN 202	Nutritional Biochemistry	3	2	1	BCH204	
CLN 204	Nutrition During Life Cycle	4	3	1	CLN201	
CLN 221	Nutritional Status Assessment	3	2	1	CLN201	
CLN 203	Health Psychology	2	2	0		
PTH205	General Pathology	2	2	0		
ARAB 102	Arabic writing	2	2	0		
<b>TOTAL ( CREDIT)</b>		<b>19</b>				

## THIRD YEAR

<b>FIRST SEMESTER</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CRED</b>	<b>LECT</b>	<b>LAB</b>	<b>PRE-REQUISITE</b>	<b>CO-REQUISITE</b>
CLN 311	Food Microbiology	4	3	1	CLN 201	
CLN 331	Nutrition & Immunology	2	2	0	-	
CLN 322	Nutrient Estimation	3	2	1	CLN 221	
CLN 313	Food & Drug	2	2	0	CLN 201	
CLN 326	Management of Nutrition Services & Dietetics	3	2	1	CLN 201	
IC103	Economic System in Islam	2	2	0	IC102	
<b>TOTAL ( CREDIT)</b>		<b>16</b>				
<b>SECOND SEMESTER</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CRED</b>	<b>LECT</b>	<b>LAB</b>	<b>PRE-REQUISITE</b>	<b>CO-REQUISITE</b>
CLN 312	Food Safety & Hygiene	4	3	1	CLN 311	
CLN 411	Food Analysis	3	2	1	CLN 201	
CLN 321	Nutrition & Economy	2	2	0	CLN 201	
CLN 332	Medical Nutrition Therapy (1)	4	3	1	CLN 201, PTH 205	
CLN 335	Nutrition for Health & Fitness	2	1	1	CLN 202	
CLN 323	Nutritional Epidemiology	2	2	0	CLN 201	
IC 104	Political System in Islam	2	2	0	IC103	
<b>TOTAL ( CREDIT)</b>		<b>19</b>				

## FOURTH YEAR

<b>FIRST SEMESTER</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CRED</b>	<b>LECT</b>	<b>LAB</b>	<b>PRE-REQUISITE</b>	<b>CO-REQUISITE</b>
CLN 431	Medical Nutrition Therapy (2)	4	3	1	CLN 332	
CLN 432	Professional Skills in Dietetics	3	2	1	CLN 332	
CLN 433	Research Methods in Health Sciences	3	2	1	CLN 322	
CLN436	Clinical Rotation in Medical Nutrition Therapy (1)	6	-	6	CLN 332	
CLN435	Student Research Project	2	0	2	CLN 201	

<b>TOTAL ( CREDIT)</b>		<b>18</b>				
<b>SECOND SEMESTER</b>						
<b>CODE</b>	<b>COURSE TITLE</b>	<b>CRED</b>	<b>LECT</b>	<b>LAB</b>	<b>PRE-REQUISITE</b>	<b>CO-REQUISITE</b>
<b>CLN421</b>	Community Nutrition	3	2	1	<b>CLN221</b>	
<b>CLN334</b>	Enteral & Parenteral Nutrition	3	2	1	<b>CLN332</b>	
<b>CLN415</b>	Advanced Topics in Food Science & Nutrition	2	2	0	<b>CLN332</b>	
<b>CLN437</b>	Metabolic & Genetic Nutritional Disorders	3	2	1	<b>CLN202</b>	
<b>CLN422</b>	Food Habits & Social Concept	2	2	0	<b>CLN201</b>	
<b>CLN438</b>	Clinical Rotation in Medical Nutrition Therapy (2)	6	0	6	<b>CLN431</b>	
<b>TOTAL ( CREDIT)</b>		<b>19</b>				

<b>D SEMESTER</b>		
<b>CRED</b>	<b>LECT</b>	<b>LAB</b>
3	20	0
3	20	0
3	2	2
2	2	0
3	3	0
2	2	0
<b>16</b>		

**Study Plan for the Bachelor Degree In**  
**DIAGNOSTIC RADIOLOGY**  
**(FACULTY OF APPLIED MEDICAL SCIENCES)**

**FIRST YEAR (Preparatory Year)**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PENG 001	Prep English 1	3	20	0	PENG 003	Prep English 3	3	20	0
PENG 002	Prep English 2	3	20	0	PENG 008	Prep English 4	3	20	0
PBIO 121	Preparatory Biology	3	2	2	PCHM 121	Preparatory Chemistry	3	2	2
PCOS 001	Prep Computer Skills	2	2	0	PMDC 101	Medical Foundations	2	2	0
PCSK 001	Communication Skills	2	2	0	ARAB 101	Arabic Language	3	3	0
PHYS 121	Medical Physics	3	2	2	IC 101	Intro. to Islamic Culture	2	2	0
<b>TOTAL (CREDIT)</b>		<b>16</b>			<b>TOTAL (CREDIT)</b>		<b>16</b>		

**SECOND YEAR**

FIRST SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	PRE-REQUISITE	CO-REQUISITE
ANA205	Anatomy	3	2	1		
BCH205	Biochemistry	3	3	0		
IC 102	الإسلام وبناء المجتمع	2	2	0		
PHY208	Physiology	3	2	1		
RAD220	X-ray Physics & Equipment	3	3	0		
RAD221	Computers & Imaging Modalities	3	2	1		
RAD222	Radiobiology & Radiation Prot.	3	3	0		
<b>TOTAL ( CREDIT)</b>		<b>20</b>				
SECOND SEMESTER						
CODE	COURSE TITLE	CRED	LECT	LAB	REQUISITE	REQUISITE
BST211	Biostatistics	2	2	0		
RAD210	Radiographic Anatomy	3	2	1	ANA 205	
RAD223	Nuclear Medicine physics & equipment	3	2	1		
RAD224	Image Recording, QA & PACS	3	2	1	RAD 221	
RAD230	Radiographic Technique I	3	2	1		
RAD231	Radiographic Technique II	3	2	1		
RAD290	Medical Ethics & Patient care	2	2	0		
ARAB102	التحرير العربي	2	2	0		
<b>TOTAL ( CREDIT)</b>		<b>21</b>				

**THIRD YEAR****FIRST SEMESTER**

CODE	COURSE TITLE	CRED	LECT	LAB	REQUISITE	REQUISITE
IC 103	النظام الاقتصادي في الاسلام	2	2	0	IAS 202	
RAD310	Sectional anatomy	3	2	1	RAD 210	
RAD325	Ultrasound Physics & Equipment	3	2	1	RAD 220	
RAD332	Radiographic Technique III	3	2	1	RAD 231	
RAD340	Radiography Clinical Practice I	3	0	3	RAD 231	
RAD350	Nuclear Medicine Technique I	3	2	1	RAD 223	
<b>TOTAL ( CREDIT)</b>		<b>17</b>				

**SECOND SEMESTER**

CODE	COURSE TITLE	CRED	LECT	LAB	REQUISITE	REQUISITE
RAD316	Radiographic Pathology	3	3	0	RAD 310	
RAD333	Radiographic Technique IV	3	2	1	RAD 332	
RAD341	Radiography Clinical Practice II	3	0	3	RAD 340	
RAD351	Nuclear Medicine Technique II	3	2	1	RAD 350	
RAD360	Computed Tomography I	3	2	1	RAD 221	
RAD370	Ultrasonography I	3	2	1	RAD 325	
<b>TOTAL ( CREDIT)</b>		<b>18</b>				

**FOURTH YEAR****FIRST SEMESTER**

CODE	COURSE TITLE	CRED	LECT	LAB	REQUISITE	REQUISITE
IC 104	النظام السياسي في الاسلام	2	2	0	IAS 302	
RAD434	Radiographic Technique V	3	2	1	RAD 333	
RAD442	Radiography Clinical Practice III	3	0	3	RAD 341	
RAD461	Computed Tomography (II)	3	2	1	RAD 360	
RAD480	Magnetic Resonance Imaging (I)	3	2	1	RAD 221	
RAD491	Student Project	2	2	0	BST 211	
<b>TOTAL ( CREDIT)</b>		<b>16</b>				

**SECOND SEMESTER**

CODE	COURSE TITLE	CRED	LECT	LAB	REQUISITE	REQUISITE
RAD426	Radiotherapy Physics and Equipment	3	2	1	RAD 222	
RAD435	Radiographic Technique VI	3	2	1	RAD 434	
RAD443	Radiography Clinical Practice IV	3	0	3	RAD 442	
RAD471	Ultrasonography (II)	3	2	1	RAD 370	
RAD481	Magnetic Resonance Imaging (II)	3	2	1	RAD 480	
RAD492	Radiology Administration	2	2	0	RAD 290	
RAD413	Image Interpretation	3	2	1	RAD 316	
<b>TOTAL ( CREDIT)</b>		<b>20</b>				

الخطة الدراسية  
قسم المختبرات السريرية

**FIRST YEAR (Preparatory Year)**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PENG 001	Prep English 1	3	20	0	PENG 003	Prep English 3	3	20	0
PENG 002	Prep English 2	3	20	0	PENG 008	Prep English 4	3	20	0
PBIO 121	Preparatory Biology	3	2	2	PCHM 121	Preparatory Chemistry	3	2	2
PCOS 001	Prep Computer Skills	2	2	0	PMDC 101	Medical Foundations	2	2	0
PCSK 001	Communication Skills	2	2	0	ARAB 101	Arabic Language	3	3	0
PHYS 121	Medical Physics	3	2	2	IC 101	Intro. to Islamic Culture	2	2	0
<b>TOTAL (CREDIT)</b>		<b>16</b>			<b>TOTAL (CREDIT)</b>		<b>16</b>		

YEAR 2  
1ST SEMESTER

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 294	Clinical Laboratory Skills	2	1	3	-
PHY 208	Physiology	2	--	2	-
BCH 204	Biochemistry	3	1	4	-
CLS 296	Medical Instrumentation	1	1	2	-
ANA 208	Human Anatomy	1	1	2	-
IC 102	Islamic Culture	2	--	2	-
<b>TOTAL</b>		<b>11</b>	<b>4</b>	<b>15</b>	

YEAR 2  
2ND SEMESTER

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 204	Hematology (1)	2	1	3	-
CLS 205	Histocytotechnology	1	1	2	ANA 280, PHY 208
CLS 202	Genetics and Molecular Biology	2	1	3	BCH 204
ARAB 102	Arabic Language	2	--	2	ARAB 101
BST 211	Biostatistics	2	--	2	-
CLS 203	Basis of Immunology	2	1	3	-
<b>TOTAL</b>		<b>11</b>	<b>4</b>	<b>15</b>	

**YEAR 3  
1ST SEMESTER**

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 307	Hematology (2)	3	2	5	CLS 204
CLS 301	Diagnostic Clinical Chemistry (1)	2	2	4	BCH 204
CLS 308	Diagnostic Immunology	1	1	2	CLS 203
CLS 303	Diagnostic Microbiology (1)	3	2	5	-
CLS 305	Diagnostic Parasitology (1)	2	1	3	-
IC 103	Islamic Culture	2	--	2	IC 102
<b>TOTAL</b>		<b>13</b>	<b>8</b>	<b>21</b>	-

**YEAR 3  
2ND SEMESTER**

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 309	Blood Bank	2	2	4	CLS 307
CLS 302	Diagnostic Clinical Chemistry (2)	2	2	4	CLS 301
CLS 310	Urinalysis and Body Fluids	2	1	3	CLS 301
CLS 304	Diagnostic Microbiology (2)	2	2	4	CLS 303
CLS 306	Diagnostic Parasitology (2)	1	1	2	CLS 305
IC 104	Islamic Culture	2	--	2	IC 103
<b>TOTAL</b>		<b>11</b>	<b>8</b>	<b>19</b>	

**YEAR 4  
CLINICAL ROTATIONS  
1ST SEMESTER**

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 401	Clinical Rotation-Hematology	--	5	5	CLS 307
CLS 409	Lab Admin & Quality Control	2	-	2	-
CLS 402	Clinical Rotation-Clinical Chemistry	--	5	5	CLS 302
CLS 403	Clinical Rotation- Immunology	--	3	3	CLS 308
CLS 410	Student's Project	--	2	2	BST 211
<b>TOTAL</b>		<b>2</b>	<b>15</b>	<b>17</b>	

**YEAR 4  
CLINICAL ROTATIONS  
2ND SEMESTER**

CODE	COURSE TITLE	STUDY UNITS			Prerequisite
		Theory	Practical	Credit Hrs	
CLS 404	Clinical Rotation-Microbiology	--	6	6	CLS 304
CLS 412	Clinical Technology Seminar	--	1	1	-
CLS 405	Clinical Rotation-Blood Bank	--	4	4	CLS 309
CLS 406	Clinical Rotation- Parasitology and Urinalysis	--	3	3	CLS 306, CLS 310
CLS 407	Clinical Rotation-Histocytotechnology	--	2	2	CLS 311
CLS 408	Clinical Rotation- Molecular Diagnostics	--	1	1	CLS 202
<b>TOTAL</b>		<b>--</b>	<b>17</b>	<b>17</b>	



**PHYSICAL THERAPY**

**FIRST YEAR**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PENG 001	Prep English 1	3	20	0	PENG 003	Prep English 3	3	20	0
PENG 002	Prep English 2	3	20	0	PENG 008	Prep English 4	3	20	0
PBIO 121	Preparatory Biology	3	2	2	PCHM 121	Preparatory Chemistry	3	2	2
PCOS 001	Prep Computer Skills	2	2	0	PMDC 101	Medical Foundations	2	2	0
PCSK 001	Communication Skills	2	2	0	ARAB101	Arabic Language	3	3	0
PHYS 121	Medical Physics	3	2	2	IC 101	Intro. to Islamic Culture	2	2	0
<b>TOTAL (CREDIT)</b>		<b>16</b>			<b>TOTAL (CREDIT)</b>		<b>16</b>		

**SECOND YEAR**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PHT 229	Introduction to physical therapy	2	2	0	ANA 206	Human Anatomy 2	3	2	1
ANA 205	Human Anatomy 1	3	2	1	PHY 209	Physiology 2	3	2	1
PHY 208	Physiology 1	3	2	1	PHT 222	Therapeutic Exercises 2	3	2	1
BCH 205	Biochemistry	3	2	1	ARAB 102	Arabic Language	2	2	0
PHT 221	Therapeutic Exercises1	3	2	1	PHT 224	Tests & Measurements 2	3	2	1
PHT 223	Tests & Measurements1	3	2	1	PHT 226	Electrotherapy 2	3	2	1
PHT 225	Electrotherapy1	3	2	1	PHT 227	Hydrotherapy	2	1	1
					IC 102	Islamic culture (102)	2	2	0
<b>TOTAL (CREDIT)</b>		<b>20</b>			<b>TOTAL (CREDIT)</b>		<b>21</b>		

**THIRD YEAR**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PTH 301	Pathology	2	2	0	PSY 303	Psychology	2	2	0
PHT 311	Cardiopulmonary Disorders	2	2	0	PHT 315	Orthopedics & Traumatology	2	2	0
PHT 312	Applied Exercise Physiology	3	2	1	PHT 341	Orthopedics Physiotherapy	3	2	1
PHT 331	Physiotherapy of Cardiopulmonary Disorders	3	2	1	PHT304	P.T. for Special Cases	3	2	1
PHT 333	Geriatric physiotherapy	2	1	1	PHT 342	Physiotherapy for Sports Injuries	2	1	1
PHT 328	Biomechanics	3	2	1	PHT 343	Clinical Training of Orthopedics	4	0	8
PHT 332	Clinical Training of Cardiopulmonary Disorders	3	0	6	PHT 381	Prosthetics & Orthotics	2	1	1
IC 103	Islamic Culture (103)	2	2	0	RAD 316	Radiographic Pathology	3	3	0
<b>TOTAL (CREDIT)</b>		<b>20</b>			<b>TOTAL (CREDIT)</b>		<b>21</b>		

**FOURTH YEAR**

FIRST SEMESTER					SECOND SEMESTER				
CODE	COURSE TITLE	CRED	LECT	LAB	CODE	COURSE TITLE	CRED	LECT	LAB
PHT416	Pediatrics	2	2	0	PHT417	Neurology	2	2	0
PHT451	Pediatric Physiotherapy	3	2	1	PHT471	Neuro- Physiotherapy	3	2	1
PHT452	Human Growth& Development	3	2	1	PHT482	Administration in Physiotherapy	2	2	0
PHT461	Physiotherapy of Obstetrics & Gynecology	2	1	1	PHRM 401	Pharmacology	2	2	0
PHT453	Clinical Training Pediatric	3	0	6	PHT472	Clinical Training for Neurology	3	0	6
PHT483	Student Research Project	2	1	1	PHT484	Student Seminars	2	2	0
BST 211	Biostatistics	2	2	0	PHT418	Neurosurgery	2	2	0
IC 104	Islamic Culture (104)	2	2	0	PHT478	P.T. for Neurosurgery	3	2	1
<b>TOTAL (CREDIT)</b>		<b>19</b>			<b>TOTAL (CREDIT)</b>		<b>19</b>		