



# **KABARAK UNIVERSITY BACHELOR OF PHARMACY CURRICULUM COURSE CATALOGUE**

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**A) PRECLINICALS****I) YEAR ONE – TRIMESTER 1****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	COMP 100	Introduction to Computer Applications	30	45	3
2	COMS 100	Communication Skills	45	0	3
3	BIBL 110	The Redemptive Story	45	0	3
4	SCPH 1111	Mathematics for Pharmacy I (Basic mathematics)	45	0	3
5	SCPH 1131	Biochemistry I (Introduction to Cell Biology)	30	45	3
6	SCPH 1122	Physical Chemistry I	30	45	3
7	SCPH 1123	Inorganic Chemistry I	30	45	3
8	SCPH 1151	Human Anatomy I (Gross Anatomy)	30	45	3
9	SCPH 1141	Medical Physiology I (Introduction to Medical Physiology)	30	45	3
<b>TOTAL</b>			<b>315</b>	<b>270</b>	<b>27</b>

**II) YEAR ONE – TRIMESTER 2****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	SCPH 1212	Mathematics for Pharmacy II (Calculus I)	45	0	3
2	SCPH 1232	Biochemistry II (Introduction to Biomolecules)	30	45	3
3	SCPH 1233	Biochemistry III (Metabolism)	30	45	3
4	SCPH 1224	Organic Chemistry I	30	45	3

5	SCPH 1225	Physical Chemistry II	30	45	3
6	SCPH 1226	Inorganic Chemistry II	30	45	3
7	SCPH 1252	Human Anatomy II (Embryology)	30	45	3
8	SCPH 1242	Medical Physiology II (Membrane Potential)	30	45	3
9	SCPH 1243	Medical Physiology III (Muscle)	30	45	3
10	SCPH 1244	Medical Physiology IV (CNS)	30	45	3
<b>TOTAL</b>			<b>315</b>	<b>405</b>	<b>30</b>

### III) YEAR ONE – TRIMESTER 3

#### SCHEDULE OF UNITS

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	SCPH 1313	Mathematics for Pharmacy III (Calculus II)	45	0	3
2	SCPH 1334	Biochemistry IV (Metabolism II)	30	45	3
3	SCPH 1335	Biochemistry V (Specialized tissues)	30	45	3
4	SCPH 1327	Organic Chemistry II	30	45	3
5	SCPH 1328	Physical Chemistry III (Liquid thermodynamics)	30	45	3
6	SCPH 1353	Human Anatomy III (Histology)	30	45	3
7	SCPH 1345	Medical Physiology V (CVS)	30	45	3
8	SCPH 1346	Medical Physiology VI (Sensory systems)	30	45	3
9	SCPH 1351	Medical Microbiology I (General microbiology&bacteriology)	30	45	3
10	SCPH 1329	Inorganic Chemistry III	30	45	3
<b>TOTAL</b>			<b>315</b>	<b>405</b>	<b>30</b>

**IV) YEAR TWO – TRIMESTER 1****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	SCPH 2136	Biochemistry VI (Molecular biology)	30	45	3
2	SCPH 2137	Biochemistry VII (Hormones & Vitamins)	30	45	3
3	SCPH 2121	Organic Chemistry III	30	45	3
4	SCPH 2122	Organic Chemistry IV	30	45	3
5	SCPH 2123	Physical Chemistry IV (Thermo & Electrochemistry)	30	45	3
6	SCPH 2141	Medical Physiology VII (Respiratory System)	30	45	3
7	SCPH 2142	Medical Physiology VIII (Renal system)	30	45	3
8	SCPH 2151	Medical Microbiology II (Mycology)	30	45	3
9	SCPH 2161	Human Pathology I (General Pathology)	30	45	3
10	SCPH 2111	Biostatistics	45	0	3
<b>TOTAL</b>			<b>315</b>	<b>405</b>	<b>30</b>

**V) YEAR TWO – TRIMESTER 2****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	SCPH 2231	Biochemistry VIII (Clinical Biochemistry)	30	45	3
2	SCPH 2232	Biochemistry IX (Genetics)	30	45	3
3	SCPH 2221	Organic Chemistry V (Heterocyclic compounds))	30	45	3
4	SCPH 2241	Medical Physiology IX (GI System)	30	45	3
5	SCPH 2242	Medical Physiology X (Endocrine & Reproductive)	30	45	3
6	SCPH 2251	Medical Microbiology III (Immunology)	30	45	3

7	SCPH 2261	Human Pathology II (Immunopathology)	30	45	3
8	SCPH 2262	Human Pathology III (Hematology)	30	45	3
9	SCPH 2271	First Aid and Basic life support	45	0	3
10	PHAM 2252	Pharmaceutical Chemistry I (Analytical Methods I)	30	45	3
<b>TOTAL</b>			<b>315</b>	<b>405</b>	<b>30</b>

## VI) YEAR TWO – TRIMESTER 3

### SCHEDULE OF UNITS

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	SCPH 2321	Organic Chemistry VI (Spectroscopy II)	30	45	3
2	SCPH 2341	Medical Physiology XI (Metabolism & Exercise)	30	45	3
3	SCPH 2342	Medical Physiology XII (Blood and hemostasis)	30	45	3
4	SCPH 2351	Medical Microbiology IV (Virology)	30	45	3
5	SCPH 2352	Medical Microbiology V (Parasitology and Entomology)	30	45	3
6	SCPH 2361	Human Pathology IV (Clinical Chemistry)	30	45	3
7	PHAM 2353	Pharmaceutical Chemistry II (Analytical Methods II)	30	45	3
8	PHAM 2340	Social and Behavioral Pharmacy I	45	0	3
9	PHAM 2364	Pharmacognosy I (Introduction to Pharmacognosy & Botany)	30	45	3
<b>TOTAL</b>			<b>285</b>	<b>360</b>	<b>27</b>

**B) CLINICALS****I) YEAR THREE – TRIMESTER 1****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 3141	Social and Behavioral Pharmacy II	45	0	3
2	PHAM 3165	Pharmacognosy II (Production & Quality control of crude drugs)	30	45	3
3	PHAM 3166	Pharmacognosy III (Phytochemistry I-carbs, fats, essential oils, AA & proteins)	30	45	3
4	PHAM 3154	Pharmaceutical Chemistry III	30	45	3
5	PHAM 3101	Pharmacology I ( Introduction to Pharmacology)	30	45	3
6	PHAM 3102	Pharmacology II ( Autonomic Pharmacology)	30	45	3
7	PHAM 3126	Pharmaceutics I (Introduction to Pharmacy & GMPs)	30	45	3
8	PHAM 3127	Pharmaceutics II (Pharmaceutical calculations)	30	45	3
9	PHAM 3171	Technical Writing	45	0	3
		<b>TOTAL</b>	<b>300</b>	<b>315</b>	<b>27</b>

**II) YEAR THREE TRIMESTER 2****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 3242	Social and Behavioral Pharmacy III	45	0	3
2	PHAM 3267	Pharmacognosy IV (Phytochemistry II-Alkaloids, Phenolic compounds and Glycosides)	30	45	3
3	PHAM 3215	Clinical Pharmacy I (Introduction to Clinical Pharmacy)	30	45	3
4	PHAM 3255	Pharmaceutical Chemistry IV	30	45	3

5	PHAM 3256	Pharmaceutical Chemistry V	30	45	3
6	PHAM 3203	Pharmacology III ( Autocoids and Inflammation)	30	45	3
7	PHAM 3204	Pharmacology IV ( CNS Pharmacology)	30	45	3
8	PHAM 3228	Pharmaceutics III (Biopharmaceutics and Kinetics)	30	45	3
9	PHAM 3229	Pharmaceutics IV (Unit operations)	30	45	3
<b>TOTAL</b>			<b>285</b>	<b>360</b>	<b>27</b>

### III) YEAR THREE TRIMESTER 3

#### SCHEDULE OF UNITS

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 3305	Pharmacology V( Hypnotics and Sedatives)	30	45	3
2	PHAM 3306	Pharmacology VI(CVS Pharmacology)	30	45	3
3	PHAM 3307	Pharmacology VII (Respiratory and Renal Pharmacology)	30	45	3
4	PHAM 3316	Clinical Pharmacy II (Respiratory & Renal diseases)	30	45	3
5	PHAM 3330	Pharmaceutics V (Physical Pharmacy)	30	45	3
6	PHAM 3331	Pharmaceutics VI (Sterilization and Disinfection)	30	45	3
7	PHAM 3346	Pharmacy Management I	45	0	3
8	PHAM 3357	Pharmaceutical Chemistry VI (Adrenergic & Cholinergic Agents)	30	45	3
9	PHAM 3358	Pharmaceutical Chemistry VII (Anti-inflammatory & CVS Agents)	30	45	3
10	PHAM 3368	Pharmacognosy V (Phytochemistry III-Steroids, terpenes and micelenious glycosides)	30	45	3
<b>TOTAL</b>			<b>315</b>	<b>405</b>	<b>30</b>

**IV) YEAR FOUR TRIMESTER 1****SCHEDULE OF UNITS**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 4108	Pharmacology VII (GIT Pharmacology)	30	45	3
2	PHAM 4109	Pharmacology IX (Chemotherapy I )	30	45	3
3	PHAM 4117	Clinical Pharmacy III (Principles of Antimicrobial Therapy)	30	45	3
4	PHAM 4118	Clinical Pharmacy IV (CVS Disorders)	30	45	3
5	PHAM 4132	Pharmaceutics VII (Powder Technology)	30	45	3
6	PHAM 4133	Pharmaceutics VIII (Pharmaceutical Microbiology)	30	45	3
7	PHAM 4134	Pharmaceutics IX (Dosage forms)	30	45	3
8	PHAM 4147	Pharmacy Management II (Entrepreneurship)	45	0	3
9	PHAM 4159	Pharmaceutical Chemistry VIII (CNS Drugs)	30	45	3
10	PHAM 4172	Bioinformatics	45	0	3
<b>TOTAL</b>			<b>330</b>	<b>360</b>	<b>30</b>

**V) YEAR FOUR TRIMESTER 2**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 4209	Pharmacology X ( Chemotherapy II)	30	45	3
2	PHAM 4219	Clinical Pharmacy V	30	45	3
3	PHAM 4220	Clinical Pharmacy VI	30	45	3
4	PHAM 4235	Pharmaceutics X (Dispensing)	30	45	3
5	PHAM 4236	Pharmaceutics XI (Pharmaceutical Biotechnology and GMPs)	30	45	3
6	PHAM 4243	Bioethics and Biosafety	45	0	3



7	PHAM 4248	Pharmacy Management III (Drug Supply Management)	45	0	3
8	PHAM 4260	Pharmaceutical Chemistry IX (Electrochemical & Photometric Analysis)	30	45	3
9	PHAM 4269	Pharmacognosy VI (Traditional medicine & Complementary medicine)	30	45	3
10	PHAM 4273	Research Methods	45	0	3
<b>TOTAL</b>			<b>345</b>	<b>315</b>	<b>30</b>

#### VI) YEAR FOUR TRIMESTER 3

<b>PHAM 4300 ATTACHMENT</b>	<b>COMMUNITY &amp; INDUSTRIAL PHARMACY, HOSPITAL SETTING</b>
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#### ATTACHMENT SCHEDULE

ROTATION	DURATION
HOSPITAL ATTACHMENT	6 WEEKS
INDUSTRY ATTACHMENT/SUPPLY CHAIN/QUALITY CONTROL/RESEARCH	4 WEEKS
COMMUNITY PHARMACY/WHOLESALE/ PHARMACEUTICAL DISTRIBUTOR ATTACHMENT	4 WEEKS
PRIMARY HEALTH CARE (LEVEL 1, 2 OR 3)	1 WEEK

#### Assessment:

**Duly Filled Attachment Logbook + Supervisor Field Visit Report –**

**VII) YEAR FIVE TRIMESTER 1**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 5111	Pharmacology XI (Anticancers, dermatologic and Ocular)	30	45	3
2	PHAM 5112	Pharmacology XII (Vitamins and Endocrine)	30	45	3
3	PHAM 5121	Clinical Pharmacy VII	30	45	3
4	PHAM 5122	Clinical Pharmacy VIII	30	45	3
5	PHAM 5137	Pharmaceutics XII (Pharmaceutical Engineering)	30	45	3
6	PHAM 5149	Pharmacy Management IV	45	0	3
7	PHAM 5161	Pharmaceutical Chemistry X	30	45	3
8	PHAM 5170	Pharmacognosy VII (Miscellenious)	30	45	3
9	PHAM 5174	Research Project I	0	0	4
		<b>TOTAL</b>	<b>255</b>	<b>315</b>	<b>28</b>

**VIII) YEAR FIVE TRIMESTER 2**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 5213	Pharmacology XIII (Veterinary Pharmacology )	30	45	3
2	PHAM 5223	Clinical Pharmacy IX	30	45	3
3	PHAM 5224	Clinical Pharmacy X	30	45	3
4	PHAM 5238	Pharmaceutics XIII (Cosmetology)	30	45	3
5	PHAM5244	Pharmacy Law 1	45	0	3
6	PHAM 5262	Pharmaceutical Chemistry XI	30	45	3
7	PHAM 5250	Pharmacy Management V	45	0	3

8	PHAM 5276	Epidemiology	45	0	3
<b>TOTAL</b>			<b>285</b>	<b>225</b>	<b>24</b>

**IX) YEAR FIVE TRIMESTER 3**

#	COURSE CODE	COURSE TITLE	L. Hrs	P. Hrs	CF
1	PHAM 5314	Pharmacology XIV (Toxicology)	30	45	3
2	PHAM 5325	Clinical Pharmacy XI	30	45	3
3	PHAM 5339	Pharmaceutics XIV (Novel Drug Delivery systems)	30	45	3
4	PHAM 5363	Pharmaceutical Chemistry XII	30	45	3
5	PHAM 5345	Environmental and Occupational health	45	0	3
6	PHAM 5351	Pharmacy Management VI	45	0	3
7	PHAM 5377	Pharmacy Law 2	45	0	3
8	PHAM 5374	Research Project III	0	0	6
<b>TOTAL</b>			<b>255</b>	<b>180</b>	<b>27</b>

**ASSESSMENT SCHEDULE:**

- **For Preclinical:**
  - **Two Continuous Assessment Tests (CAT 1 and 2)- 25%**
  - **Practicals (For Practicable Units)– 15%**
  - **End of Semester Examinations: - 60%**
- **For Clinical:**
  - **Two Continuous Assessment Tests (CAT 1 and 2)- 20%**
  - **Practicals (For Practicable Units) and Bedside Exams (For Clinical Pharmacy) – 10%**
  - **Orals – 10%**
  - **End of Semester Examinations: - 60%**