

# Bachelor of Anesthesia Technology (BS AT)

## Curriculum Plan and Model

<b>BBA-H Course Distribution</b>		
UM for University Mandatory	21	48+20
Core courses	6	11+1
Discipline related Courses	18	36+17
<b>Total Credit Hours</b>		<b>95+38</b>

## Semester Plan

### Semester 1

Code	Course title	CrHr	Pre-Requisite
BAN101	Medical Biochemistry-I	3+1	-
BAN 102	Human Physiology-I	3+1	-
BAN103	Human Anatomy-I	3+1	-
BAN111	Functional English	2+0	-
HMT112	Pak Studies	2+0	-
	<b>Total Semester Credit Hours</b>	<b>13+3</b>	

### Semester 2

Code	Course title	CrHr	Pre-Requisite
BAN107	Medical Biochemistry-II	3+1	Medical Biochemistry-I
BAN108	Human Physiology-II	3+1	Human Physiology-I
BAN109	Human Anatomy-II	3+1	Human Anatomy-I
BAN121	Academic and Professional Writing	2+0	Functional English
HMT121	Islamic Studies	2+0	
	<b>Total Semester Credit Hours</b>	<b>13+3</b>	

### Semester 3

Code	Course title	CrHr	Pre-Requisite
BAN208	Anatomy related to Anesthesia	2+1	
BAN201	General Pathology-I	2+1	
BAN202	General Pharmacology-I	2+1	
BAN204	Hematology-I	2+1	
BAN231	Communication Skills	2+0	Academic and Professional Writing

BAN114	Introduction to Computer Science	1+1	
	<b>Total Semester Credit Hours</b>	<b>(11+5)</b>	

#### Semester 4

Code	Course title	CrHr	Pre-Requisite
BAN232	Physiology Related to Anesthesia	2+1	
BAN233	Physics Related to Anesthesia	2+1	
BAN295	Community Medicine	2+0	
BAN226	Hematology-II (For None-MLT, None OT, None 2yrs etc Medical Tech)	2+1	Hematology-I
BAN221	General Pathology-II	2+1	General Pathology-I
BAN220	General Pharmacology-II	2+1	General Pharmacology-I
	<b>Total Semester Credit Hours</b>	<b>(12+5)</b>	

#### Semester 5

Code	Course title	CrHr	Pre-Requisite
BAN324	Pharmacology Related to Anesthesia	2+1	-
BAN325	Anesthesia Equipment	2+1	-
BAN326	Pre-Operative History, Preparation & Post –Op Care	2+1	-
BAN327	Anesthesia and Co-existing Diseases	2+1	-
BAN328	Critical Care	2+1	-
BAN329	Leadership and Management	2+0	-
	<b>Total Semester Credit Hours</b>	<b>(12+5)</b>	-

#### Semester 6

Code	Course title	CrHr	Pre-Requisite
BAN330	Different types of Anesthesia	2+1	-
BAN331	Anesthesia Related Complications and Their management	2+1	-
BAN332	Anesthesia for Cardiothoracic Surgery	2+1	-
BAN335	Anesthesia for Neuro, Emergency and Geriatric Surgery	2+1	-

BAN210	Biostatistics	3+0	-
BUSS362	Research methodology	3+0	-
	<b>Total Semester Credit Hours</b>	<b>(14+4)</b>	

### Semester 7

Code	Course title	CrHr	Pre-Requisite
BAN418	Anesthesia for Orthopedic and Urological Procedures	2+1	-
BAN424	Anesthesia for Orthopedic and Urological Procedures	2+1	-
BAN423	Anesthesia for Ear, Nose and Throat Surgery	2+1	-
BAN421	Anesthesia for Obstetric and Pediatric Surgery	2+1	-
BAN207	Medical Microbiology (For None-MLT, None OT, None 2yrs etc Medical Tech)	2+1	-
BAN404	Epidemiology	2+0	-
	<b>Total Semester Credit Hours</b>	<b>(12+5)</b>	

### Semester 8

Code	Course title	CrHr	Pre-Requisite
BAN425	Anesthesia for Dental, Maxillofacial, Head and Neck Surgery	2+1	-
BAN495	Electrocardiography for Anesthetist	2+1	-
BAN409	Biosafety and Bio-Ethics	3+0	-
BAN490	Seminar	1+0	-
BAN499	Research Project	0+6	-
	<b>Total Semester Credit Hours</b>	<b>(8+8)</b>	

## Compulsory Courses

Code	Course title	Type	CrHr	Pre-Requisite
BAN111	Functional English	core	2+0	-
HMT122	Pak Studies		2+0	-
BAN121	Academic and Professional Writing		2+0	Functional English
HMT121	Islamic Studies		2+0	-
BAN231	Communication Skills		2+0	Academic and Professional Writing
BAN114	Introduction to Computer Science		1+1	-
	<b>Credit Hours</b>		<b>11+1</b>	

## University Mandatory Courses

Code	Course title	Type	CrHr	Pre-Requisite
BAN101	Medical Biochemistry-I		3+1	-
BAN102	Human Physiology-I		3+1	-
BAN103	Human Anatomy-I		3+1	-
BAN107	Medical Biochemistry-II		3+1	Medical Biochemistry-I
BAN108	Human Physiology-II		3+1	Human Physiology-I
BAN109	Human Anatomy-II		3+1	Human Anatomy-I
BAN201	General Pathology-I		2+1	-
BAN202	General Pharmacology-I		2+1	-
BAN204	Hematology-I		2+1	-
BAN295	Community Medicine		2+0	-
BAN226	Hematology-II (For None-MLT, None OT, None 2yrs etc Medical Tech)		2+1	Hematology-I
BAN221	General Pathology-II		2+1	General Pathology-I
BAN220	General Pharmacology-II		2+1	General Pharmacology-I
BAN238	Critical Care		2+1	-
BAN210	Biostatistics		3+0	-
BUS362	Research methodology		3+0	-
BAN409	Biosafety and Bio-Ethics		3+0	-
BAN404	Epidemiology		2+0	
BAN207	Medical Microbiology (For None-MLT, None OT, None 2yrs etc Medical Tech)		2+1	
BAN490	Seminar		1+0	-
BAN499	Research Project		0+6	-
	<b>Total Semester Credit Hours</b>		<b>48+20</b>	

## Discipline Related Courses

Code	Course title	Type	CrHr	Pre-Requisite
BAN208	Anatomy related to Anesthesia		2+1	-
BAN232	Physiology Related to Anesthesia		2+1	-
BAN233	Physics Related to Anesthesia		2+1	-
BAN324	Pharmacology Related to Anesthesia		2+1	-
BAN325	Anesthesia Equipment		2+1	-
BAN326	Pre-Operative History, Preparation & Post –Op Care		2+1	-
BAN327	Anesthesia and Co-existing Diseases		2+1	-
BAN329	Leadership and Management		2+0	-
BAN330	Different types of Anesthesia		2+1	-
BAN331	Anesthesia Related Complications and Their management		2+1	-
BAN332	Anesthesia for Cardiothoracic Surgery		2+1	-
BAN335	Anesthesia for Neuro, Emergency and Geriatric Surgery		2+1	-
BAN418	Anesthesia for Orthopedic and Urological Procedures		2+1	-
BAN424	Anesthesia for Eye Surgical Procedures		2+1	-
BAN423	Anesthesia for Ear, Nose and Throat Surgery		2+1	-
BAN421	Anesthesia for Obstetric and Pediatric Surgery		2+1	-
BAN425	Anesthesia for Dental, Maxillofacial, Head and Neck Surgery		2+1	-
BAN495	Electrocardiography for Anesthetist		2+1	-
	<b>Total Credit Hours</b>		<b>36+17</b>	