

**1<sup>st</sup> Semester (1<sup>st</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT01	Anatomy-I	3	1
2	OT02	Physiology-I	3	1
3	OT03	Pharmacology-I	3	1
4	OT04	Islamic Education	3	0
5	OT05	Biochemistry-I	3	1
6	OT06	Computer Skills-I	3	1
<b>TOTAL</b>			<b>23</b>	

**2<sup>nd</sup> Semester (1<sup>st</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT07	Anatomy-II	3	1
2	OT08	Physiology-II	3	1
3	OT09	Pharmacology-II	3	1
4	OT10	Pak Study	3	0
5	OT11	Biochemistry-II	3	1
6	OT12	Computer Skills-II	3	1
<b>TOTAL</b>			<b>23</b>	

**3<sup>rd</sup> Semester (2<sup>nd</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT13	Anatomy – I and physiology related to	3	1
2	OT14	Pathology I, Surgical procedure and clinical	3	1
3	OT15	Clinical Practice – I	3	1
4	OT16	Basic Epidemiology-I	3	1
5	OT17	Sociology –I	3	0
	OT18	Bio-Statics-I	3	0
<b>TOTAL</b>			<b>22</b>	

**4<sup>th</sup> Semester (2<sup>nd</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT19	Anatomy – II and physiology related to	3	1
2	OT20	Pathology II, Surgical procedure & clinical	3	1
3	OT21	Clinical Practice – II	3	1
4	OT22	Basic Epidemiology-II	3	1
5	OT23	Sociology –II	3	0
	OT24	Bio-Statics-II	3	0
<b>TOTAL</b>			<b>22</b>	

**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**5<sup>th</sup> Semester (3<sup>rd</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT25	Anatomy and physiology related to Surgical – III	3	1
2	OT26	Pathology III, Surgical procedure and clinical practice	3	1
3	OT27	Radiological Cross Sectional Anatomy and clinical Practice	3	1
4	OT28	Emergency an post op complication and management and clinical practice	3	1
5	OT29	Pathology-I	3	1
6	OT30	Basic Communication Skills-I	3	0
<b>TOTAL</b>			<b>23</b>	

**6<sup>th</sup> Semester (3<sup>rd</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT31	Anatomy and physiology related to Surgical – IV	3	1
2	OT32	Pathology IV, Surgical procedure & clinical practice	3	1
3	OT33	Radiological Pathology and clinical	3	1
4	OT34	OT, Sterilization and positioning and clinical practice	3	1
5	OT35	Pathology-II	3	1
6	OT36	Basic Communication Skills-II	3	0
<b>TOTAL</b>			<b>23</b>	

**7<sup>th</sup> Semester (4<sup>th</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT37	Pharmacology and clinical practice	3	1
2	OT38	Surgical incision & introduction to anesthesia & clinical practice	3	1
3	OT39	Public Health-I	3	1
4	OT40	Research Methodology-I	3	0
5	OT41	Ethics & Management-I	3	0
<b>TOTAL</b>			<b>18</b>	

**8<sup>th</sup> Semester (4<sup>th</sup> Year)**

Papers	Course Code	Subject	Credit Hours	
			Theory	Practical
1	OT42	Pathology V, Surgical procedure and clinical practice	3	1
2	OT43	Intensive care & management of OT and clinical practice	3	1
3	OT44	Public Health-II	3	1
4	OT45	Research Methodology-II	3	0
5	OT46	Ethics & Management-II	3	0
<b>TOTAL</b>			<b>18</b>	

**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**1<sup>st</sup> SEMESTER****PAPER-I: ANATOMY-I (1<sup>st</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****OBJECTIVE:**

To introduce the students the significance of the subject of anatomy in medical science regarding its knowledge its applications and day-to-day developments in the subject

**COURSE CONTENT:**

- I. **General Anatomy**  
Anatomical terms and positions  
Description of tissue
- II. **Systemic Anatomy**  
Systemic Anatomy includes
  - a. Muscular skeletal system
  - b. Gastrointestinal system
  - c. Respiratory system
  - d. Cardiovascular system

**RECOMMENDED BOOKS:**

Snell's clinical Anatomy (Text Book) by Snell 7thg Edition 2000 published by Churchill Living Stone

Gray's anatomy (Reference Book) by Roger Warwick Petter L. Williams 1973 published by Langman group limited.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-2: PHYSIOLOGY -I (1<sup>st</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****OBJECTIVE:**

To introduce the students the significance of the subject of Physiology in medical science regarding its knowledge in making the other subjects of medical sciences understandable. Its applications and day to day developments in the subject of Physiology.

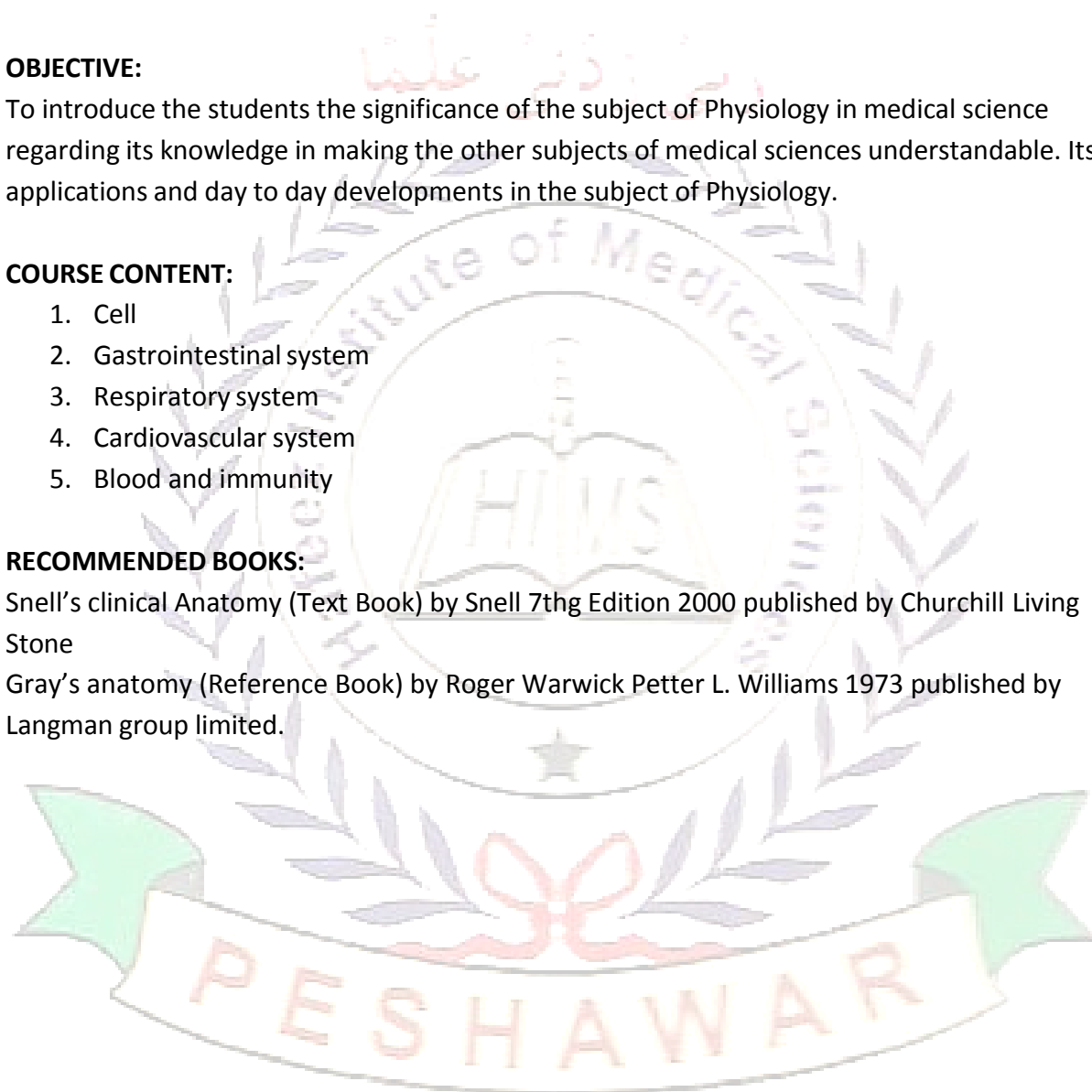
**COURSE CONTENT:**

1. Cell
2. Gastrointestinal system
3. Respiratory system
4. Cardiovascular system
5. Blood and immunity

**RECOMMENDED BOOKS:**

Snell's clinical Anatomy (Text Book) by Snell 7thg Edition 2000 published by Churchill Living Stone

Gray's anatomy (Reference Book) by Roger Warwick Petter L. Williams 1973 published by Langman group limited.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-3: PHARMACOLOGY -I (1<sup>st</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****OBJECTIVE:**

To introduce the students the knowledge of the subject of pharmacology with regards to its importance in understanding the other disciplines of medical sciences regarding the application of the subject and to learn about the new developments in the field of pharmacology.

**COURSE CONTENT:**

1. Introduction to Pharmacology
2. Pharmacokinetics
3. Pharmacodynamics

**RECOMMENDED BOOKS:**

Lippincott's pharmacology (Text Book) by Mycek 2<sup>nd</sup> edition 2000 published by Lippincott Raven

Katzung textbook of pharmacology (Reference Book) by Bertram Katzung 8<sup>th</sup> Edition published by Appleton.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-4: ISLAMIC EDUCATION (1<sup>st</sup> SEMESTER)**

**CREDIT HOURS: 3**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**OBJECTIVE:**

- To educate students regarding basic concept of Islam
- To educate students regarding Islamic influence in the world
- To educate the students regarding Islamic Medical Ethics & Contribution of the Muslims in Medicine, Science & Technologies.

**COURSE CONTENT:**

**Holy Quran and Sunnah**

**1.1 Holy Quran**

- Introduction
- Importance and characteristics
- Sura-e-Hujarat with translation
- Sura-e-Al-Furqan: Verses 63-77 with translation and explanation

**1.2 Sunnah**

- Importance of Sunnah
- Twenty selected Hadith with translation  
(Mention in Islamiyat Compulsory for degree classes,  
Published by:  
(Allama Iqbal Open University)

**Fundamental Doctrine of Islam**

- a. Islam with reference to Holy Quran & Hadith
- b. Tawheed (Oneness of Allah)
- c. Prophethood
- d. The day of judgment (Akhirat)
- e. Salat & nimaz (Abadaat)
- f. Saum (Fasting)
- g. Zakat
- h. Hajj
- i. Jihad

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

### **Life of Holy Prophet**

- 3.1 study of the life of the Holy Prophet & Seerat
- 3.2 life of the Holy Prophet at Maka from birth to Hijra (Migration to Madina)
- 3.3 Method of Preaching & difficulties
- 3.4 Life of Holy Prophet at Madina
- 3.5 Amicable Accords (Mowkhat)
- 3.6 Treaty of Madina (Misaq-e-Mukarama)
- 3.7 Conquest of (Maka Al-Mukarama)
- 3.8 Hajat-ul-wida

### **The Ethical View of Islam & Characteristics Islamic Cultural**

- 4.1 Character Building
- 4.2 The Concept of Ethics
- 4.3 The Moral Values: Truthfulness, Tawakal, Taqwa, Fulfillment of Promises, Simplicity, the steam of Parents and Guardians, Behaviorism Y & Broadness,
- 4.4 Islamic Society: Kisab-e-Halal, Human Dignity, Social Justice Adle-e- Shoora

### **Influence of the Islamic Civilization**

- 4.4 Panacea of our Problems  
Our Future, Unity, Political Stability

### **Islamic Medical Ethics**

Contribution of the Muslims in Medicine, Science and Technology

**NOTE:** While keeping the Islamic values and basic Characteristics of Islamic Society the Proper guideline may be provided in such a way that should be applicable in business and trade.

### **RECOMMENDED BOOKS:**

Islamiyat Compulsory, Islamabad, Allama Iqbal Open University, Islamabad  
M.D Zaffar, Islamic Education (Compulsory) Lahore Aziz Book Dept. Urdu Bazaar.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**



**PAPER-5: BIOCHEMISTRY -I (1<sup>st</sup> SEMESTER)**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**OBJECTIVE:**

The introduction of knowledge subject of biochemistry to student regarding its importance in understanding the other domains of medical science and regarding the applications of the subject and to know about the recent developments in the field of biochemistry.

**COURSE CONTENT:**

1. Introduction
2. Carbohydrate
3. Proteins
4. Lipids
5. Enzyme
6. Vitamins

**RECOMMENDED BOOKS:**

Harper's text book of Biochemistry (Text Book) by Bertram Katzung 1992 published by Appleton Lange.

Biochemistry for Paramedics by Dr. Khalid Mehmood 2005 published by UB agency Peshawar.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6: COMPUTER SKILLS-I (1<sup>st</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****OBJECTIVE:**

To introduce the students the significance of the subject of computer definitions, history, types and component, hardware and software application.

**COURSE CONTENT:****Introduction:**

1. Definition of computer
2. History of computer
3. Classification of computer
4. Components of computer

**Hardware and Software**

1. Physical components of computer
2. Logical component of computer
3. System software
4. Application software

**Storage devices**

1. Magnetic storage devices
2. Optical storage devices
3. Memories

**RECOMMENDED BOOKS:**

Fundamental of I.T concept by Nayyar Kanwal by CECOSE University Teacher's notes

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**2<sup>nd</sup> SEMESTER****PAPER-I: ANATOMY-II (2<sup>nd</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE CONTENT:**

- a. Lymphatic system
- b. Head and Neck
- c. Nervous System
- d. Urinary System
- e. Reproductive System
- f. Endocrine System
- g. Special Senses

**RECOMMENDED BOOKS:**

Snell's clinical Anatomy (Text Book) by Snell 7thg Edition 2000 published by Churchill Living Stone

Gray's anatomy (Reference Book) by Roger Warwick Petter L. Williams 1973 published by Langman group limited.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

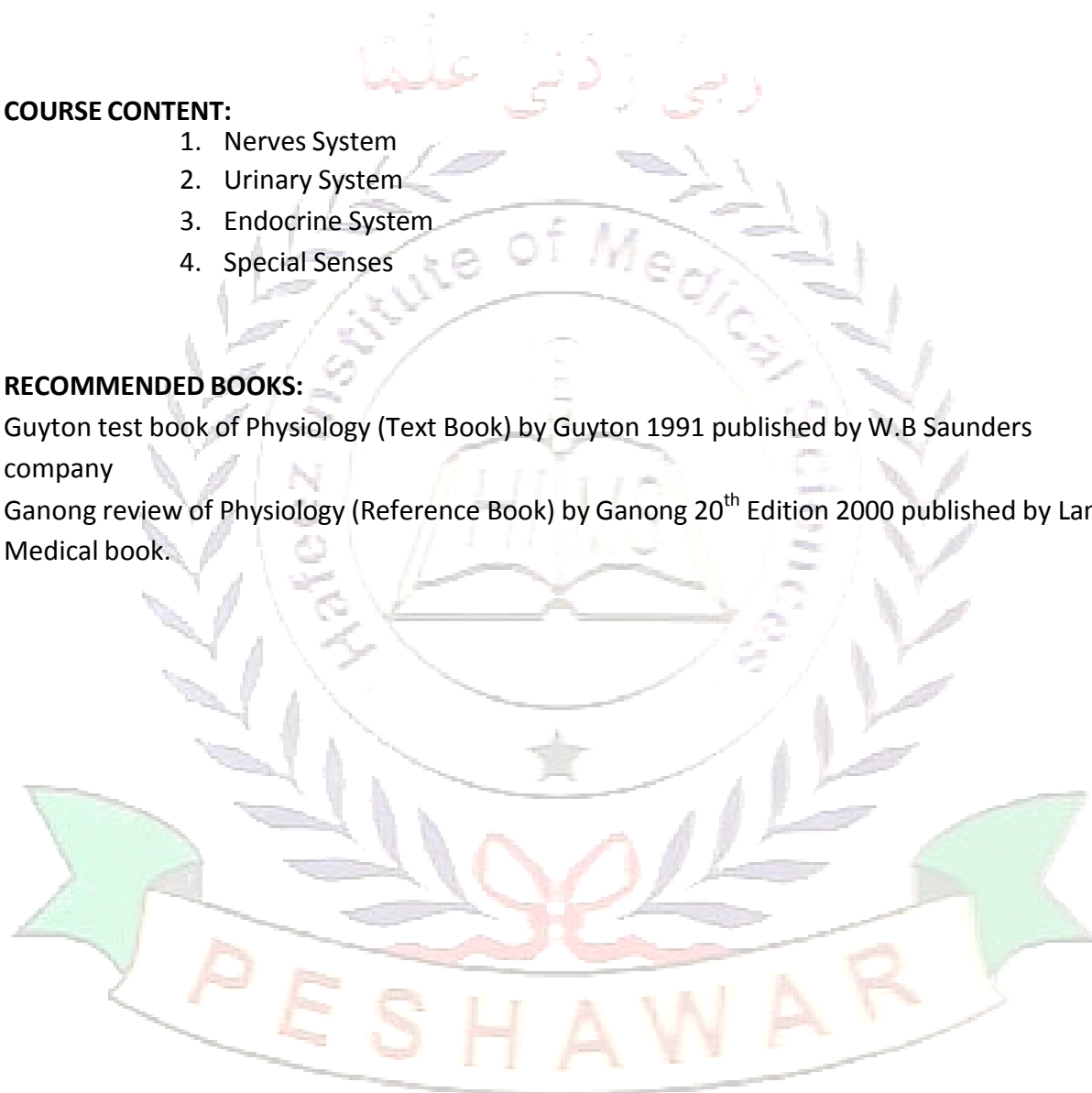
**PAPER-2: PHYSIOLOGY-II (2<sup>nd</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE CONTENT:**

1. Nerves System
2. Urinary System
3. Endocrine System
4. Special Senses

**RECOMMENDED BOOKS:**

Guyton text book of Physiology (Text Book) by Guyton 1991 published by W.B Saunders company

Ganong review of Physiology (Reference Book) by Ganong 20<sup>th</sup> Edition 2000 published by Land Medical book.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-3: PHARMACOLOGY -II (2<sup>nd</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****OBJECTIVE:**

To introduce the students the knowledge of the subject of pharmacology with regards to its importance in understanding the other disciplines of medical sciences regarding the application of the subject and to learn about the new developments in the field of pharmacology.

**COURSE CONTENT:**

1. Adverse effects of drugs
2. Classification of drugs

**RECOMMENDED BOOKS:**

Lippincott's pharmacology (Text Book) by Mycek 2<sup>nd</sup> edition 2000 published by Lippincott Raven

Katzung textbook of pharmacology (Reference Book) by Bertram Katzung 8<sup>th</sup> Edition published by Appleton.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-4: PAKSTUDY (2<sup>nd</sup> SEMESTER)**

<b>CREDIT HOURS:</b>	<b>3</b>	<b>MARKS</b>	<b>100</b>
<b>INTERNAL MARKS:</b>	<b>40</b>	<b>EXTERNAL MARKS:</b>	<b>60</b>
		<b>TIME:</b>	<b>3 HRS</b>

**OBJECTIVE:**

To introduce to the student the significant of Pak Study B.Sc level course

**COURSE CONTENT:**

- I. **Chapter One**  
Ideology of Pakistan
- II. **Chapter Two**  
Background of ideology of Pakistan
  - a. Reformation movement
  - b. Educational movement
  - c. Political movement
- III. **Chapter Three**  
Movement of Pakistan (Since Allama Iqbal Address at Ala Bad 1930 till 4<sup>th</sup> August 1947)
- IV. **Chapter Four**  
Establishment of Pakistan (Political, Social Financial Problems)
- V. **Chapter Five**  
Constitutional and Political Developments in Pakistan
- VI. **Chapter Five**  
Geographical condition of Pakistan
- VII. **Chapter Seven**  
Pakistan and Muslim world

**RECOMMENDED BOOKS:**

Pakistan Studies Compulsory for Degree Courses by Dr. Noshaad Khan

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5: BIOCHEMISTRY -II (2<sup>nd</sup> SEMESTER)**

**CREDIT HOURS: 3+1 MARKS 100**  
**INTERNAL MARKS: 40 EXTERNAL MARKS: 60 TIME: 3 HRS**

**OBJECTIVE:**

The introduction of knowledge subject of biochemistry to student regarding its importance in understanding the other domains of medical science and regarding the applications of the subject and to know about the recent developments in the field of biochemistry.

**COURSE CONTENT:**

1. Nutrition food and dietetics
2. Metabolism
3. Body fluids
4. Acid base balance
5. Minerals

**RECOMMENDED BOOKS:**

Harper's text book of Biochemistry (Text Book) by Bertram Katzung 1992 published by Appleton Lange.

Biochemistry for Paramedics by Dr. Khalid Mehmood 2005 published by UB agency Peshawar.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6: COMPUTER SKILLS-II (2<sup>nd</sup> SEMESTER)**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**OBJECTIVE:**

To introduce the students the significance of the subject of computer definitions, history, types and component, hardware and software application.

**COURSE CONTENT:**

**Application software**

Microsoft word

Microsoft power point

Microsoft excel

Microsoft Definition of computer

5. History of computer
6. Classification of computer
7. Components of computer

**Hardware and Software**

5. Physical components of computer
6. Logical component of computer
7. System software
8. Application software

**Storage devices**

4. Magnetic storage devices
5. Optical storage devices
6. Memories

**RECOMMENDED BOOKS:**

Fundamental of I.T concept by Nayyar Kanwal by CECOSE University Teacher's notes

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**



**3<sup>rd</sup> SEMESTER****COURSE TITEL: ANATOMY AND PHYSIOLOGY –I****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVES:**

To introduce to the students the significance of abdominal anatomy & Physiology related to General surgery

**COURSE CONTENTS:**

Digestive system

Liver

Spleen

Skin

**RECOMMENDED BOOKS:**

Gray,s Anatomy by rogerwar Vick peter L Williams in 1973 group LTD.

Medical physiology by Guyton in1991 published by W.B. saunder Company

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER – 2 :-** **PATHOLOGY –I AND SURGICAL PROCEDURES**  
**CREDIT HOURS: 3+1** **MARKS 100**  
**INTERNAL MARKS 40** **EXTERNAL MARKS 60** **TIME: 3 HRS**

**COURSE OBJECTIVES:**

To introduce the students the significance of Abdominal pathology and Surgical procedures

**COURSE CONTENTS:**

Abdominal peritonitis, Appendicitis, Peptic Ulcer  
 Intestinal obstruction  
 Intra abdominal obstruction  
 Gastritis  
 Carcinoma  
 Hernia, types  
 Hepatitis  
 Cirrhosis  
 Liver Abscess  
 Cholecystitis  
 Gallstones

**RECOMMENDED BOOKS:**

Robbins pathology 6<sup>th</sup> Edition 1998 by I.E Sounder. Short text book of pathology by Inam Danish by Johar Publishers Karachi



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER – 3 :-****CLINICAL PRACTICE-I IN SURGICAL WARD AND OPD****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVES:**

To discuss the organizational structure of surgical Department, including the management of Daily working in surgical ward.

**COURSE OBJECTIVES:**

To discuss the organizational structure of surgical Department, including the management of Daily working in surgical ward.

**COURSE CONTENTS:**

Dept of surgery & surgical ward  
 Organization and structure  
 Ward management  
 Maintenance of different record/register.  
 Preparation for admission and discharge of surgical patient.  
 History taking of surgical patient  
 Examination of patient  
 Observation  
 Physical examination, palpation  
 Percussion, auscultation.  
 Use of stethoscope, vital signs  
 Maintaining I/V line, NG tube  
 Catheterization, CVP line  
 Stoma care, Blood transfusion and complications.  
 Nursing care of patient in surgical wards  
 Importance of investigations  
 Blood, Urine R/E  
 CSF, Stool, U/S CT Scan  
 MRI, X-Rays, knowledge about X-ray examination.  
 Records of investigations

**RECOMMENDED BOOK:**

Morosney, Surgery by MALCOMER COLMER, 1986, 16<sup>th</sup> edition by EL.BS

**REFERENTIAL BOOK:**

Text Book of Surgery (4<sup>th</sup> Edition) (Indian Association of Surgeons) by Dr. Ahmad Haji, Rabindra B. Shrivastava, and Publishers. TATA, Mc GRAL. HILL, Publishing Company Ltd. (Newdelhi)

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-4: BASIC EPIDEMIOLOGY -I (3<sup>rd</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

To introduce to the students the know-how of the subject of epidemiology in order to apply the knowledge of the subject regarding the community and community related disease.

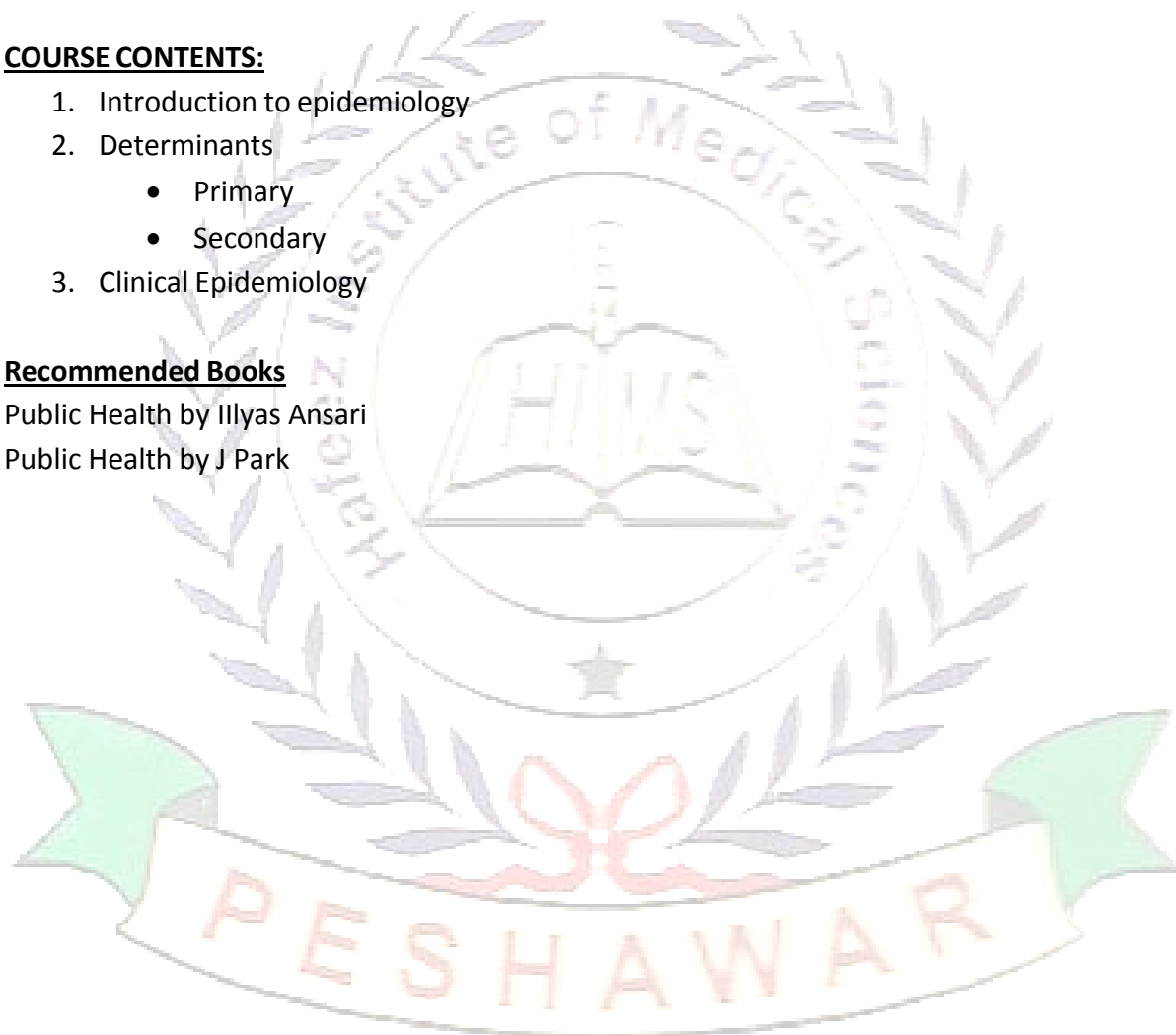
**COURSE CONTENTS:**

1. Introduction to epidemiology
2. Determinants
  - Primary
  - Secondary
3. Clinical Epidemiology

**Recommended Books**

Public Health by Ilyas Ansari

Public Health by J Park

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5: SOCIOLOGY -I (3<sup>rd</sup> SEMESTER)****CREDIT HOURS: 3****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****COURSE OBJECTIVE:**

To produce to the students the significance of definition and scope of sociology as a science, their relation with other sciences.

**COURSE CONTENTS:**

1. **General**  
Definition and scope of sociology, sociology is a science, Islamic Sociology
2. **Medical Sociology**  
Introduction contribution of sociology to medicine
3. **Health and Disease**  
Social definition of illness, social and emotional component of illness
4. **Patient and paramedic**  
Paramedics view of disease and patient, psychology of patient/paramedic relationship
5. **Mental illness sociological perspective**  
Definitions, social implication of mental illness
6. **Rehabilitation**  
Definition, physical, mental handicap  
Method in rehabilitation: Guidance counseling and vocational training

**Recommended Books**

Medical sociology by William C Cuckerham in 1978 printed by USA Health education by Lurna Robinson Wesley F Alles in 1994 by Times Mirror/Mosby College Publishing ST Liois Turonto

**Reference Book:**

Social psychology of health by Shirlynn Spacapan Stuart Oskanp Edition by SAGE publication New Delhi, New York, in 1987

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6: BIostatISTICS -I (3<sup>rd</sup> SEMESTER)****CREDIT HOURS: 3****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****COURSE OBJECTIVE:**

To introduce to the students the significance of bio-statistics their topic in univariate statistics means basic concept, describing and exploring data, normal distribution, sampling distribution and hypothesis testing, basic concept of probability and categorical data CH and application of statistics and social research.

**COURSE CONTENTS:**

Topics in univariate statistics

**A. Basic**

1. Introduction
2. Important terms
3. Senses
4. Method uses for taking senses, information collection during senses, method of estimating the population of any year
5. Measurement scale

**B. Describing and Exploring Data**

1. Measures of central tendency and variability
2. Health Statistics (Preparation, ration, rate)
3. Percentiles, quartiles and deciles

**RECOMMENDED BOOKS**

Statistical methods for psychology by Howell DC in 1992 publisher by Belmont CA Duxby press USA

A guide to research methodology, biostatistics and medical writing by college of physicians and surgeons Pakistan by WHO collaboration center

Reading understanding multivanant statistics giimm LG Yard AD PR, in 1995 publisher American Psychological association

Ilyas Ansari's community medicine (Text Book) by Ilyas and Ansari 2003 published by Medical division Urdu Bazaar Karachi.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**4<sup>th</sup> SEMESTER PAPER-****I: (4<sup>th</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS 40****EXTERNAL MARKS 60****TIME: 3 HRS****COURSE OBJECTIVES:**

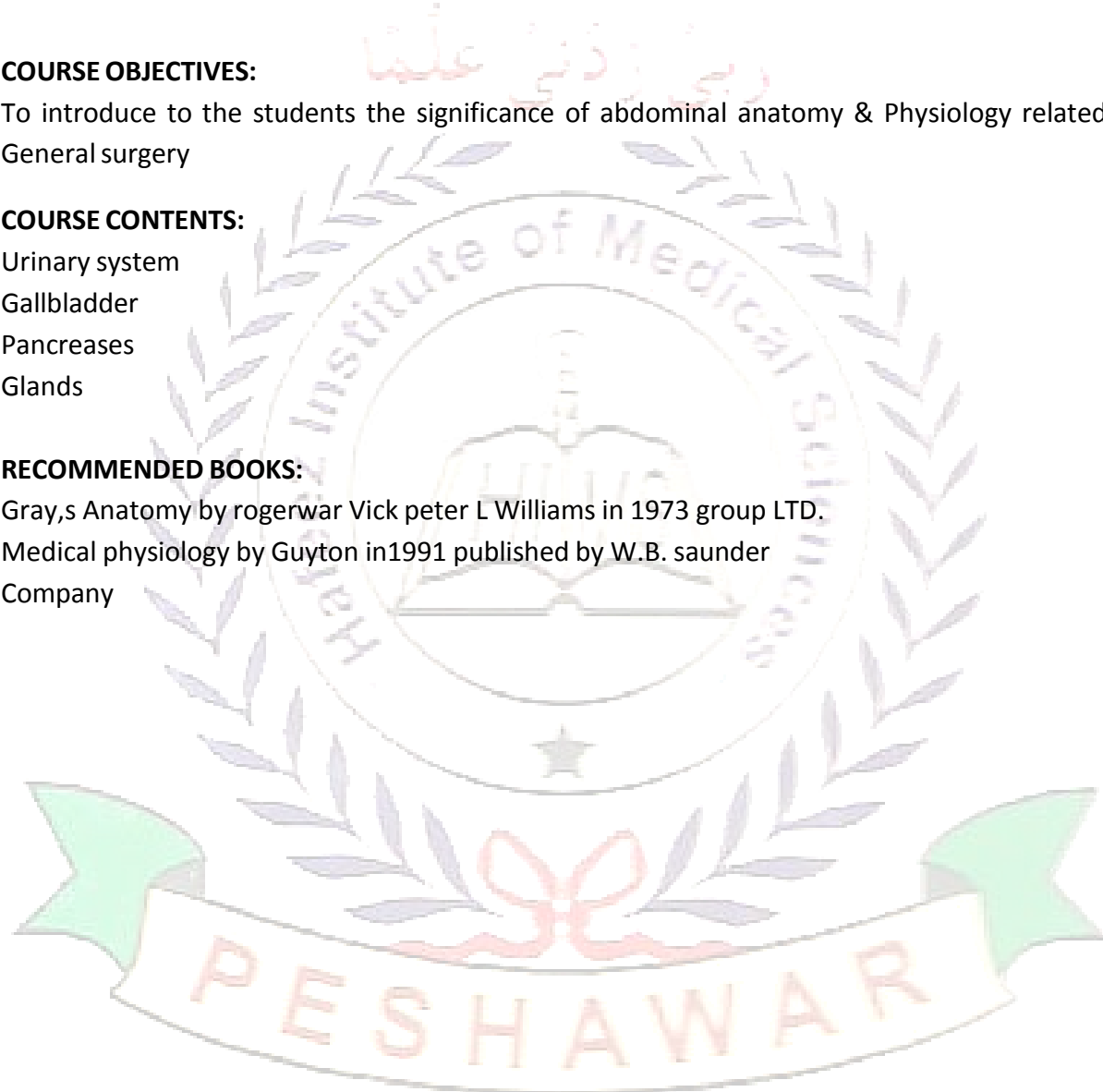
To introduce to the students the significance of abdominal anatomy & Physiology related to General surgery

**COURSE CONTENTS:**

Urinary system  
Gallbladder  
Pancreases  
Glands

**RECOMMENDED BOOKS:**

Gray,s Anatomy by rogerwar Vick peter L Williams in 1973 group LTD.  
Medical physiology by Guyton in1991 published by W.B. saunder  
Company



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER :-**

**PATHOLOGY –I AND SURGICAL PROCEDURES**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVES:**

To introduce the students the significance of Abdominal pathology and Surgical procedures

**COURSE CONTENTS:**

Pancreatitis

Carcinoma

Uremia, nephritic Disorder, Renal stone, Kidney Cyst, U.T Obstruction,

Kidney T.B.

Prostate

Burns, Types, Degrees

Thromboses

Fistula

Colitis

Hemorrhoids etc.

**RECOMMENDED BOOKS:**

Robbins pathology 6<sup>th</sup> Edition 1998 by I.E Sounder. Short text book of pathology by Inam Danish by Johar Publishers Karachi



**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**



**PAPER :-**

**CLINICAL PRACTICE-II INSURGICAL WARD**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40 EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVE:**

To introduce to the student the significance of patient preparation of surgery investigation, surgical procedures, practical and handling of patient in surgical ward

**COURSE CONTENTS:**

Predation of patient for surgery.

Consent, pre-op bath, shaving of concerned area, weight

Preparation for gut surgery

Preparation of diabetic and Hypertensive patient for surgery.

Fluid

Electrolytes balance

Surgical nutrition.

Care of MLC in wards and OT.

Resuscitation of patient in surgical ward.

Practical procedure

Prevention of PVT.

**RECOMMENDED BOOK:**

Moroney,s surgery by MALCOMER COLMER, 1986, 16<sup>th</sup> edition, printed by EL.BS



**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-4: BASIC EPIDEMIOLOGY -II (4<sup>th</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

To introduce to the students the know-how of the subject of epidemiology in order to apply the knowledge of the subject regarding the community and community related disease.

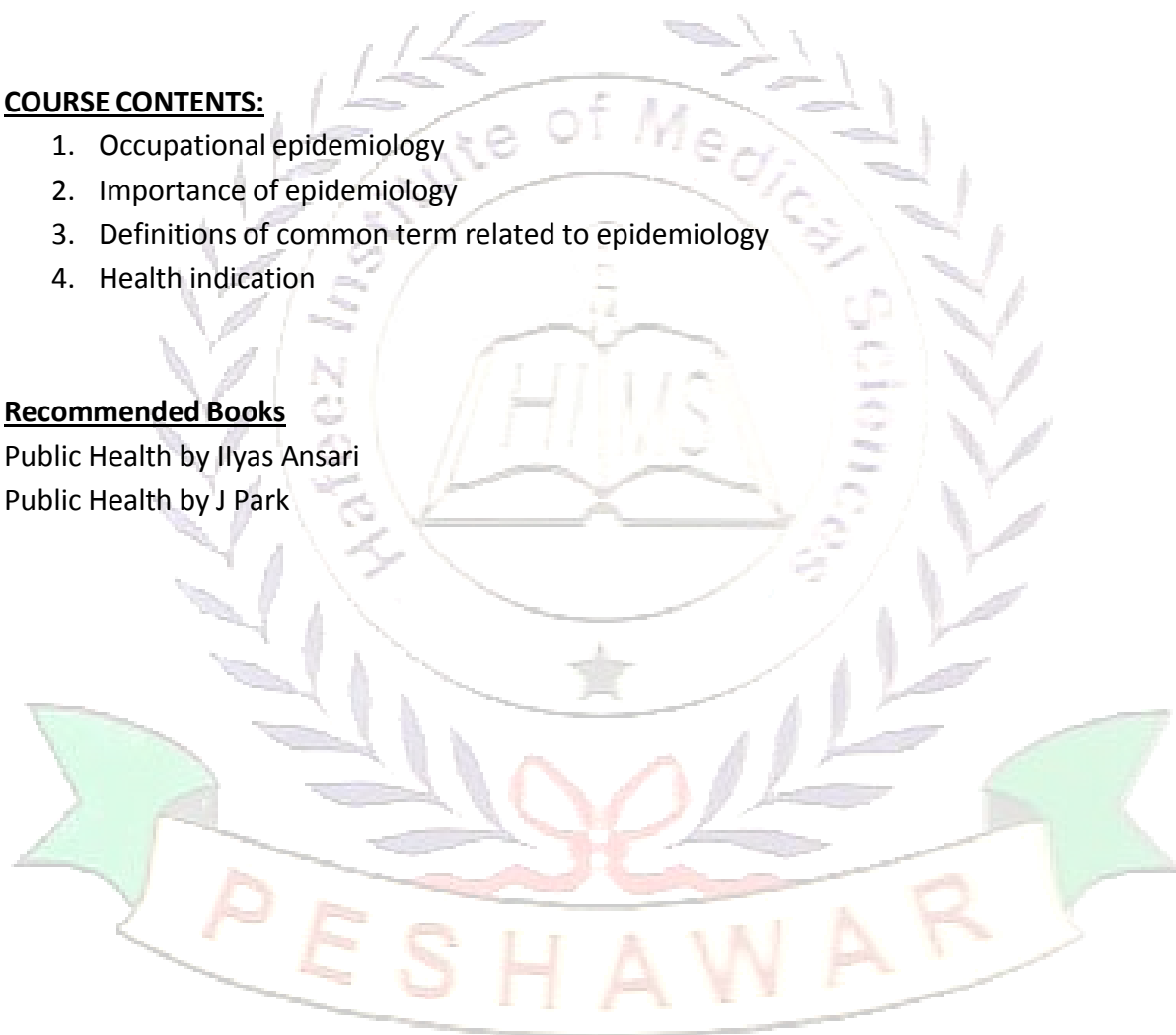
**COURSE CONTENTS:**

1. Occupational epidemiology
2. Importance of epidemiology
3. Definitions of common terms related to epidemiology
4. Health indicators

**Recommended Books**

Public Health by Ilyas Ansari

Public Health by J Park



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5: SOCIOLOGY -II (4<sup>th</sup> SEMESTER)****CREDIT HOURS: 3****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****COURSE OBJECTIVE:**

To produce to the students the significance of definition and scope of sociology as a science, their relation with other sciences.

**COURSE CONTENTS:**

1. **Social disorganization**  
The concept and factor of social organization, family, group and community disorganization
2. **Problem of community**  
Problem of crime, method of treatment and preventative measure
3. **Education Problems**  
Deterioration of education standard in school, college and university
4. **Health Problems**  
Illness behavior, delivery and utilization of health services
5. **Introduction to applied sociology**  
Definition of applied sociology, nature and causative analysis of social problem and the role of sociologist in solving social problems
6. **Application of social research in social problems**  
Social servu and social research, nature purpose and function

**Recommended Books**

Medical sociology by William C Cuckerham in 1978 printed by USA Health education by Lurna Robinson Wesley F Alles in 1994 by Times Mirror/Mosby College Publishing ST Liois Turonto

**Reference Book:**

Social psychology of health by Shirlynn Spacapan Stuart Oskanp Edition by SAGE publication New Delhi, New York, in 1987

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6: BIOSTATISTICS -II (4<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3 MARKS 100**  
**INTERNAL MARKS: 40 EXTERNAL MARKS: 60**

**COURSE OBJECTIVE:**

To introduce to the students the significance of bio-statistics their topic in univariate statistics means basic concept, describing and exploring data, normal distribution, sampling distribution and hypothesis testing, basic concept of probability and categorical data CH and application of statistics and social research.

**COURSE CONTENTS:**

Topics in univariate statistics

- A. Sampling distribution and hypothesis testing
- B. Basic concepts of probability
- C. Data collection (purpose and technique)
- D. Categorical data and numerical data
  - Application of statistics in social research
  - Percentages, measure of central tendencies
- A. Means, Median and Mode
- B. Quartile, decile and percentile

**RECOMMENDED BOOKS**

Statistical methods for psychology by Howell DC in 1992 publisher by Belmont CA Duxby press USA

A guide to research methodology, biostatistics and medical writing by college of physicians and surgeons Pakistan by WHO collaboration center

Reading understanding multivariate statistics Giimm LG Yard AD PR, in 1995 publisher American Psychological association

Ilyas Ansari's community medicine (Text Book) by Ilyas and Ansari 2003 published by Medical division Urdu Bazaar Karachi.

**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**5<sup>th</sup> SEMESTER****PAPER :- ANATOMY AND PHYSIOLOGY OF THORAX AND SKULL****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS 40****EXTERNAL MARKS 60****TIME: 3 HRS****COURSE OBJECTIVES:**

To introduce to the students the significance of anatomy & Physiology of Thorax and Skull related to Cardiothoracic and Neurosurgery

**COURSE CONTENTS:**

Structure of Thorax and Skull  
Cardiovascular system  
Respiratory system  
Nervous system (brain)

**RECOMMENDED BOOKS:**

Gray,s Anatomy by rogerwar Vick peter L Williams in 1973 large group LTD  
Medical Physiology by Guyton in 1991 published by W.B saunder Company



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER :- PATHOLOGY-II AND SURGICAL PROCEDURES  
AND CLINICAL PRACTICE**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS 40**

**EXTERNAL MARKS 60**

**TIME: 3 HRS**

**COURSE OBJECTIVES:**

Pneumothorax

Carcinoma

T.B. Empyema, Lungs abscess, Breast Tumor

Cardiac Catheterization

Cardio pulmonary bypass

Transposition of great vessels

Aneurysms

Angiography

Angioplasty

Valvuloplasty

Brain Hemorrhage

Thrombosis embolism

**RECOMMENDED BOOKS:**

Robbins pathology 6<sup>th</sup> edition 1998 by I.E. Snodgrass

Short textbook of pathology by Inam Danish by Johar Publishers Karachi



**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**COURS TITLE: EMERGENCY AND POST OP COMPLICATIONS  
AND MANGEMENT AND CLINICAL PRACTICE**

**CREDIT HOURS: 3+1 MARKS 100**  
**INTERNAL MARKS: 40 EXTERNAL MARKS: 60 TIME: 3 HRS**

**COURSE OBJECTIVES:**

To enable the students for preparation and management of patients in Emergency, and to educate about trauma and first aid techniques and post operation management

**COURSE CONTENTS:**

Trauma  
Major disaster  
Surgical triage,  
Blood volume  
Trauma t airway, chest injury  
Fractures, Types, management  
Abdominal injuries, head injuries  
The crush syndrome  
Burns and scalds: Definition, types, degrees, percentage and management.  
Post operative pain, vomiting  
Postoperative hemorrhage, types, and management  
Shock, types, management  
Wound, ulcer, gangrene, Definition, types, Management  
Dressing, types and techniques

**RECOMMENDED BOOKS:**

Moroney,s Suger by MALCOMER COLMER, 1986, 16<sup>TH</sup> edition, by EL.BS

**REFERRAL BOOK:**

Text Book of Surgery (4<sup>th</sup> edition) (Indian Association of Surgeons) by Dr. Ahmad Haji. Rabindra B.Shrivastave, Publishers: TATA. MC GRALI HILL, Publishing Company Ltd (New Delhi)

**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5 PATHOLOGY -I (5<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVE:-**

To introduce to the students the knowledge of the subject of Pathology regarding its needs in understanding the different domains of medical sciences and regarding the other applications of the subject and to come to know the recent advancements in the field of pathology.

**COURSE CONTENT:**

1. Introduction to Pathology
2. Cell Injury
3. Inflammation
4. Repair

**Recommended Books**

- Robin's textbook of Pathology (Text Book) by Robin Cottran Kumar 6<sup>th</sup> Edition 1998,
- Published by I.E. Saunders.
- Pathology illustrated (Reference Book) by AD. T Gocan 1991 published by Churchill Livingstone.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**



**PAPER-6 BASIC COMMUNICATION SKILLS -I (5<sup>th</sup> SEMESTER)****CREDIT HOURS: 3 MARKS 100****INTERNAL MARKS: 40 EXTERNAL MARKS: 60 TIME: 3 HRS****COURSE OBJECTIVE:-**

To introduce to the students about the basic communication skill

**COURSE CONTENT:**

1. Definition of communication
2. Communication module
3. 7C, s of Communication
4. Social marketing
5. Mode of communication

**Recommended Books**

- Effective Business Communication
- Module or Ensure Public Participation by Dr. Muhammad Ilyas

**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**6<sup>th</sup> SEMESTER**

**PAPER :- ANATOMY AND PHYSIOLOGY OF PELVIS, LIMBS,  
SPINE AND EYE, EAR, NOSE AND THROAT**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVES:**

To educate the students about Gynecology and Orthopedic Anatomy and Physiology

**COURSE CONTENTS:**

Pelvis structure

Bones of upper & lower limbs, spine

Reproductive system

Structure of Eye

Structure of Ear

Structure of Nose

Structure of Throat and Neck

**RECOMMENDED BOOKS:**

Gray,s Anatomy by rogerear Vick peter L Williams in 1973 large group LTD

Medical Physiology by Guyton in 1991 published by W.B Saunder Company



**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER :-** **PATHOLOGY –II RELATED TO GYNEA,  
ORTHOPEDIC AND SURGICAL PROCEDRUE,  
CLINICAL PRACTICE**

**CREDIT HOURS: 3+1** **MARKS 100**  
**INTERNAL MARKS: 40** **EXTERNAL MARKS: 60** **TIME: 3 HRS**

**COURSE OBJECTIVES:**

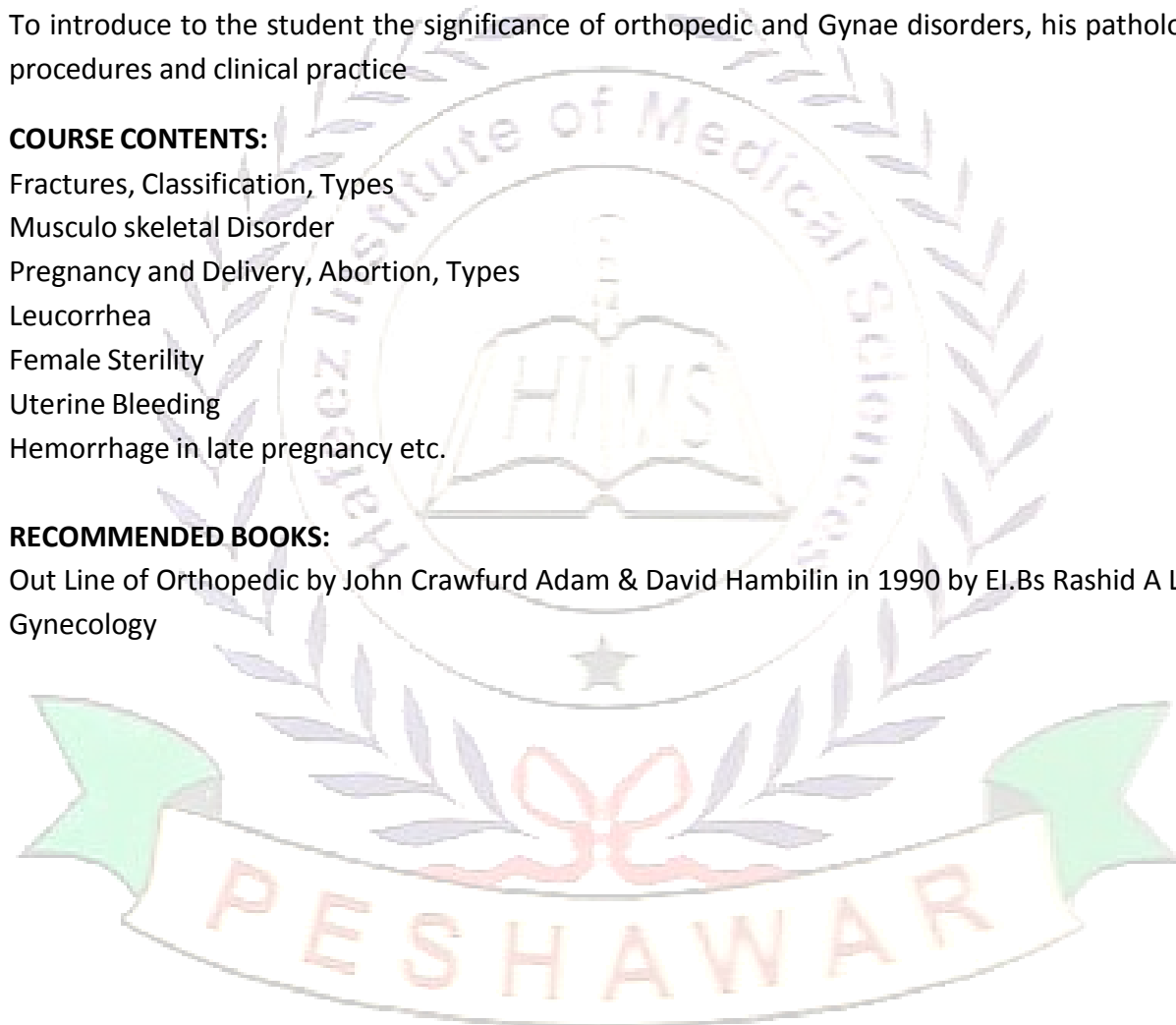
To introduce to the student the significance of orthopedic and Gynae disorders, his pathology, procedures and clinical practice

**COURSE CONTENTS:**

Fractures, Classification, Types  
Musculo skeletal Disorder  
Pregnancy and Delivery, Abortion, Types  
Leucorrhoea  
Female Sterility  
Uterine Bleeding  
Hemorrhage in late pregnancy etc.

**RECOMMENDED BOOKS:**

Out Line of Orthopedic by John Crawford Adam & David Hambilin in 1990 by El.Bs Rashid A Latif  
Gynecology



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER :-**                                      **OPERATION THEATRE, STERILIZATION,  
POSITIONING AND CLINICAL PRACTICE**

**CREDIT HOURS:**     **3+1**

**MARKS 100**

**INTERNAL MARKS:**    **40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVES:**

To educate the students about environment discipline and management in OT enable the student to operate different equipment in OT and sterilization

**COURSE CONTENTS:**

Operating theatre  
Designs and different areas  
Environment, light, tem, airflow  
Movement in OT Restricted.  
Semi-restricted and Non-restricted areas  
Surgical instruments and their uses  
Cleaning, Washing, decontamination, disinfections, fumigation.  
Sterilization, Definition, types, methods  
Equipments and their uses, ESU, Diathermy, Laser, Laparoscope's, Microscope, endoscopes, airpower equipments.  
Count of sponges, sharps instruments and legal aspects of counting  
OT attire, scrubbing, gowning, gloving.  
Procedure and importance.  
The sterile field and its maintenance  
Surgical skin preparation  
Use of different Anti-septics.  
Patient as an individual, Criteria for positioning.  
OT table and common positioning devices.  
Moving and lifting the patient.  
Different surgical positions and related physiologic effects.  
Common injuries related to medical instruments and procedures.

**RECOMMENDED BOOKS:**

Synopses of medical instruments and procedures. Published in 1<sup>st</sup> June 1992 by 1 –V ARORA 2. ARUN YADAN.

Publishers Jaypee Brothers Medical Publishers Pvt Ltd. (New Delhi)

Reference book: bailey & love's Short practice of surgery (24<sup>th</sup> edition)

By R.C.G Russell, Norman S. Williams, and Christopher J.K Bulstode

Published in 2004 by Hodder education, a member of hodder headline group London NW/ 3BH

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5 PATHOLOGY -II (6<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVE:-**

To introduce to the students the knowledge of the subject of Pathology regarding its needs in understanding the different domains of medical sciences and regarding the other applications of the subject and to come to know the recent advancements in the field of pathology.

**COURSE CONTENT:**

1. Homodynamic Disorders
2. Disorders of Immunity
3. Neoplasia
4. Microbiology

**Recommended Books**

- Robin's textbook of Pathology (Text Book) by Robin Cottrian Kumar 6<sup>th</sup> Edition 1998,
- Published by I.E. Saunders.
- Pathology illustrated (Reference Book) by AD. T Gocan 1991 published by Churchill Livingstone.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6 BASIC COMMUNICATION SKILLS -II (6<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVE:**

To introduce the student about the basic communication skill

**COURSE CONTENTS:**

1. Media & communication & Counseling
2. Health Education & Motivation
3. Participation involvement
4. Obstacle communication
5. Interpersonal communication & counseling

**Recommended Books**

- Effective Business Communication
- Module or Ensure Public Participation by Dr. Muhammad Ilyas



**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**7<sup>th</sup> SEMESTER****PAPER – 1 :-****PHARMACOLOGY RELATED TO SURGERY AND CLINICAL PRACTICE****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVES:**

To enable the students to learn about the drugs related to surgery

**COURSE CONTENTS:**

Antibiotics, Analgesics, Muscle Relaxations

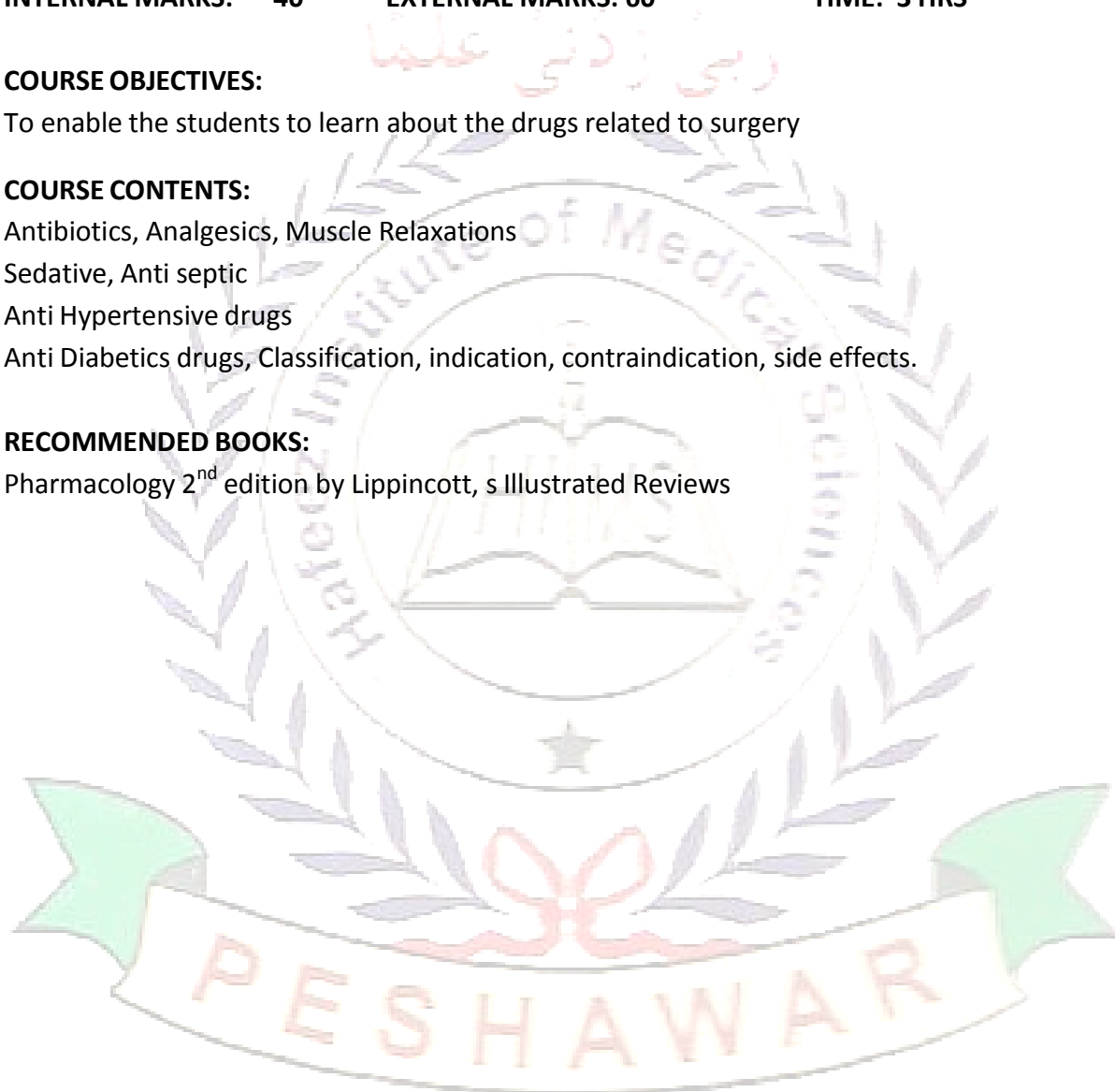
Sedative, Anti septic

Anti Hypertensive drugs

Anti Diabetics drugs, Classification, indication, contraindication, side effects.

**RECOMMENDED BOOKS:**

Pharmacology 2<sup>nd</sup> edition by Lippincott, s Illustrated Reviews

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER – 2 :- SURGICAL INCISION & INTRODUCTION TO ANESTHESIA & CLINICAL PRACTICE****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

To introduce to the student the significance of different type of incision and introduction to anesthesia in surgery and clinical practice

**COURSE CONTENTS:**

Surgical incisions, types

Suturing material, absorbable, Non-absorbable types.

Suturing techniques

Definition, Types, Local, Spinal Epidural, General Anesthesia

Endotracheal intubation and anatomical review.

Knowledge about different anesthetic drugs.

Complication of anesthesia and management

Resuscitation of neo-nate in OT.

Temp, cleaning, early cry, Oxygenation

Detection of congenital defects, suctioning of me conium.

**RECOMMENDED BOOK:**

Synopses of medical instruments and procedures

Published in 1<sup>st</sup> June 1992 by I-V.S ARORA 2. ARUN YADAN

Publishers Jaypee Brothers medical Publishers Pvt Ltd New Delhi,

India. Rashid A Latif Gynecology

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**



**PAPER-4: PUBLIC HEALTH -I (7<sup>th</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

To introduce to the student the significance of the discipline of public health in medical and applied social sciences regarding its history applications and development.

**COURSE CONTENTS:**

1. Basic definition
2. Primary health care
3. Nutrition
4. Water supply
5. Sanitation
6. Mother and child health (MCH)
7. Family planning

**Recommended Books**

- Ilyas Ansari's community medicine (Text Book) by Ilyas and Ansari 2003 published by Medical division Urdu Bazaar Karachi
- K Park's community medicine (Reference Book) by K Park 2003 Published by Banarside Bhanot Jaipur India.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5: RESEARCH METHODOLOGY -I (7<sup>th</sup> SEMESTER)****CREDIT HOURS: 3****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

Introduction the students a significance of research methodology to the students foundation, concept of measurement, design clinical research and health system research.

**COURSE CONTENTS:****PART – 1 FOUNDATION**

Introduction to research (in simple term and a scientific term), concept of research, why do need research, advantage of research, identification of research need and its qualities, component of research, ethical and legal aspect of research and objective of research (definition, purpose, structure)

**PART 2****(A) SELECTION OF TOPIC****The criteria points of prioritization of topic**

1. Relevance      ii. Avoidance of duplication      iii. Physibility      IV. Political acceptability
  - v. applicability      VI. Cost efficiencies      vii. Ethical consideration and scales
- for rating research topic mentioned above

**WORK PLAN**

Its contents, how to developed a work plan, what factor should be kept in mind while preparing research work plan

**© BUDGET REQUIRED FOR RESEARCH WORK**

Why it is needed, wok should be taken into consideration, literature searching, statistical help, material, type of manuscript, printing of manuscript for submission and postage

**Recommended Books**

- Foundation of Clinical Research by Portney LG Walkais MP in 1993, Publisher by Appleton and lauge USA
- A guide to Research Methodology, Biostatistics and Medical writing by college of physicians and surgeons Pakistan by WHO collaboration center
- Health system research project by Corlien M Varkerisser, Indra Pathmanathan, Ann Brownlee in 1993 by International Development Research Center in New Delhi, Singapore.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-6: ETHICS & MANAGEMENT -I (7<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3 MARKS 100**  
**INTERNAL MARKS: 40 EXTERNAL MARKS: 60**

**COURSE OBJECTIVE:**

To introduce to the student of medical ethics their behavior with patients and medical staff and management of different wards, departments includes the equipments records and their duties.

**COURSE CONTENTS:****Ethics:-**

Ethical conduct, relationship with patient, surgeon, physician, nurse, social workers and co-workers, preparation and uses of records, report, physical plant, equipments.

The implementation of and confirmation to the rules of professional context and understanding, the paramedic liability and obligations in the case of medico legal action, a wider knowledge of ethics relating to current social and medical policy in the paramedic society as a professional association, the role of international health agencies such as world health organization.

**Recommended Books**

Management A modern hospital by AV Srinivasa response book sage publication New Delhi London and 2005

Hand book of hospital personal management by RC Goyal prentice Hall of India New Delhi in 1994

Medical ethic by Dr. Mehmood Alam in 2006 by Health Department KPK

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**8<sup>th</sup> SEMESTER**

**PAPER: - PATHOLOGY-IV RELATED TO EYE, ENT AND SURGICAL PROCEDURE, AND CLINICALPRACTICE**

**CREDIT HOURS: 3+1**

**MARKS 100**

**INTERNAL MARKS: 40**

**EXTERNAL MARKS: 60**

**TIME: 3 HRS**

**COURSE OBJECTIVES:**

To introduce to the student the significance of EYE, ENT Pathology his surgical procedures and clinical practice in Eye and ENT

**CORUSE CONTENTS:**

Otitis  
Tumors  
Cholesteatoma  
Otoscleroses  
Deafness  
Nasal Leason  
Rehnitis  
Adeneoid  
Sinusitis  
Conjektivitis  
Tumor of Eye, new growth  
Keratitis  
Iritis  
Retina Disorder  
Orbital disorder

**RECOMMENDED BOOK:**

Robbin's pathology 6<sup>th</sup> edition 1998 by I.E sounder.

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**

**PAPER – 2 :- INTENSIVE CARE AND MANAGEMENT OF OT AND CLINICAL PRACTICE****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40      EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVES:**

To enable the student to have a look at the management, organization, smooth running of OT and ICU Care

**COURSE CONTENTS:**

Different records and register maintenance on OT  
Accountability regarding OT protocol, equipments and instruments  
Co-ordination of OT staff  
Team work in OT  
Hazards in OT and their prevention  
Handling the unconscious patient  
Clinical practices in ICU  
Resuscitation

**RECOMMENDED BOOK:**

Moroney, s surgery for nurses. Edited by Malcolm R. Colmer, Sixteenth Edition, and Published in 1986 by Longman Group (Female) Ltd in Hong Kong.



**Prepared By:**  
**Hafeez Institute of Medical Sciences Peshawar**

**PAPER-3: PUBLIC HEALTH -II (8<sup>th</sup> SEMESTER)****CREDIT HOURS: 3+1****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

To introduce to the student the significance of the discipline of public health in medical and applied social sciences regarding its history applications and development.

**COURSE CONTENTS:**

1. Immunization
2. Mental health
3. Drug abuse
4. Health education
5. Health management information system
6. Health system research
7. Biomedical ethics

**Recommended Books**

- Ilyas Ansari's community medicine (Text Book) by Ilyas and Ansari 2003 published by Medical division Urdu Bazaar Karachi
- K Park's community medicine (Reference Book) by K Park 2003 Published by Banarside Bhanot Jaipur India.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-4: RESEARCH METHODOLOGY -II (8<sup>th</sup> SEMESTER)****CREDIT HOURS: 3****MARKS 100****INTERNAL MARKS: 40****EXTERNAL MARKS: 60****TIME: 3 HRS****COURSE OBJECTIVE:**

Introduction the students a significance of research methodology to the students foundation, concept of measurement, design clinical research and health system research.

**COURSE CONTENTS:****PART – 3****CONCEPTS OF MEASUREMENT**

Principals and reliability of measurement, errors and sources of measurement, types of measurement, measure of disease frequency and screening, (introduction, validity and screening test)

**DESIGNING CLINICAL RESEARCH**

Studies design (introduction, selection of design), research questionnaire, validity and reliability of research finding, confounding factors, strategies to deal with threats to validity.

**Recommended Books**

Foundation of Clinical Research by Portney LG Walkais MP in 1993, Publisher by Appleton and lauge USA

A guide to Research Methodology, Biostatistics and Medical writing by college of physicians and surgeons Pakistan by WHO collaboration center

Health system research project by Corlien M Varkerisser, Indra Pathmanathan, Ann

Brownlee in 1993 by International Development Research Center in New Delhi, Singapore.

**Prepared By:****Hafeez Institute of Medical Sciences Peshawar**

**PAPER-5: ETHICS & MANAGEMENT -II (8<sup>th</sup> SEMESTER)**

**CREDIT HOURS: 3 MARKS 100**  
**INTERNAL MARKS: 40 EXTERNAL MARKS: 60**

**COURSE OBJECTIVE:**

To introduce to the student of medical ethics their behavior with patients and medical staff and management of different wards, departments includes the equipments records and their duties.

**COURSE CONTENTS:****Management:-**

Identify the features of a health care system and desirable role and function of paramedical within the system, the inter relationship of all levels of health care identify function, organization and inter relationship of departments in a health care facility, the rules and functions of paramedic in community, provincial and federal, resources available to the patient, chronically ill and elderly citizens, professional institutional and government measures to safe guard patients and control of quality care, the roles and functions of professional associations.

**Principles of Management**

Eliminatory features of hospital ward, unit and factors (budgetary, architectural and personnel) quality control total quality control, control, continuous quality control.

**Recommended Books**

Management A modern hospital by AV Srinivasa response book sage publication New Delhi London and 2005

Hand book of hospital personal management by RC Goyal prentice Hall of India New Delhi in 1994

Medical ethic by Dr. Mehmood Alam in 2006 by Health Department KPK

**Prepared By:**

**Hafeez Institute of Medical Sciences Peshawar**