

# LIST OF RECOMMENDED BOOKS

## ENGLISH

### Functional English

#### Grammar:

1. Thomson AJ, Martinet AV. **Practical english grammar**. 3<sup>rd</sup> Ed. Oxford University Press; 1986.

#### Writing:

2. Kirsznner LG, Mandell SR. **Patterns of College Writing: A Rhetorical Reader and Guide**. 10<sup>th</sup> Ed. Stephen Martin's Press; 2006.
3. Maley A. **Oxford supplementary skills**: 1<sup>st</sup> Ed. Writing Intermediate. Cornelsen & Oxford University Press; 1998.

#### Reading/Comprehension:

4. Langan J. **Reading and Study Skills**. 9<sup>th</sup> Ed. McGraw Hill Humanities; 2009.

#### Speaking:

5. Nolasco R. **Speaking: Elementary**: Oxford Supplementary Skills. 4<sup>th</sup> Ed. Oxford University Press; 1987.

### Communication Skills:

#### Reading/Comprehension:

6. Tomlinson B, Ellis R. **Reading Advanced**. Oxford Supplementary Skills. 3<sup>rd</sup> Ed. Oxford University Press; 1992.

#### Technical Writing and Presentation Skills:

##### **Essay Writing and Academic Writing;**

7. Langan J. **College Writing Skills with Readings**. 8<sup>th</sup> Ed. McGraw Hill; 2010.

##### **Presentation Skills;**

8. Gilbert MD. **English for Pharmacy writing and oral communication**. 1<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2008.

##### **Reading;**

9. Neulib J, Cain KS, Ruffus S, Scharton M. **The Mercury Reader**: A custom publication. 4<sup>th</sup> Ed. Pearson; 2011.
10. White R. **Advanced**: Oxford Supplementary Skills. 3<sup>rd</sup> Ed. Oxford University Press; 1992.
11. Wong L. **Essential Study Skills**. 7<sup>th</sup> Ed. Wadsworth Publishing; 2011.

## PHYSICAL PHARMACY

1. Allen LV, Popovich NG. **Ansel's pharmaceutical dosage forms and drug delivery systems**. 8<sup>th</sup> Ed. Lippincott Williams & Wilkins New York; 2005.
2. Attwood D, Florence AT. **Surfactant Systems: Their Chemistry, Pharmacy and Biology**. 1<sup>st</sup> Ed. London: Chapman and Hall Ltd; 1982.
3. Aulton ME. **Aulton's pharmaceuticals: the design and manufacture of medicines**. Churchill Livingstone; 2007.
4. Britain MD. **British national formulary**. 54<sup>th</sup> Ed. British Medical Association; 2001.
5. Carstensen JT. **Pharmaceutics of solids and solid dosage forms**. 1<sup>st</sup> Ed. Wiley; 1977.
6. Connors KA, Mecozzi S. **Thermodynamics of pharmaceutical systems: An introduction to Theory and Applications**. 2<sup>nd</sup> Ed. Wiley & Sons; 2010.
7. Cooper JW, Gunn C, Carter SJ. **Cooper and Gunn's Tutorial Pharmacy**. 6<sup>th</sup> Ed. New Delhi: CBS Publishers & Distributors; 2004.
8. Davis H. **Bentley's Text Book of Pharmaceutics**. 2<sup>nd</sup> Ed. Tindall and Cox Publishers; 1961.
9. Finlay WH. **The mechanics of Inhaled pharmaceutical aerosols: An introduction**. 1<sup>st</sup> Ed. Academic Press; 2001.
10. Florence AT, Attwood D. **Physicochemical Principles of Pharmacy**. 5<sup>th</sup> Ed. Pharmaceutical Press; 2011.
11. Florence AT, Siepmann J. **Moderen Pharmaceutics: Basic Principles and Systems: (Drugs and the Pharmaceutical Sciences)**. 5<sup>th</sup> Ed. Taylor & Francis; 2008.
12. Ganderton D, Jones T, McGinity J. **Advances in Pharmaceutical Sciences**. 1<sup>st</sup> Ed. Academic Press; 1995.
13. Ghosh TK, Jasti BR. **Theory and practice of contemporary pharmaceutics**. 1<sup>st</sup> Ed. CRC Press; 2005.
14. Kleemann A, Engel J, Kutscher B, Reichert D. **Pharmaceutical substances: Syntheses, Patents, Applications of the most relevant APIs**. 5<sup>th</sup> Ed. Thieme; 2008.
15. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical experimental design: (Drugs & the Pharmaceutical Sciences)**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
16. Lund W. **The pharmaceutical Codex: Principles and practice of pharmaceutics**. 16<sup>th</sup> Ed. Co CBS Publishers; 2009.
17. Rienger M, Scott-Blair GW. **Rheology**. 3<sup>rd</sup> Ed. Academic Press; 1990.
18. Rowe RC, Sheskey PJ, Quinn ME. **Handbook of pharmaceutical excipients**. 6<sup>th</sup> Ed. Pharmaceutical Press; 2009.
19. Sinko PJ, Martin AN. **Martin's physical pharmacy and pharmaceutical sciences: physical chemical and biopharmaceutical principles in the pharmaceutical sciences**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2006.
20. Sinko PJ. **Martin's Physical Pharmacy and Pharmaceutical Sciences**. 6<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
21. Winfield AJ, Richards RME. **Pharmaceutical practice**. Elsevier Health Sciences; 2004.
22. Zinc G. **Remington: The Science and Practice of Pharmacy**. Philadelphia College of Pharmacy and Science; 2005.

## PHARMACEUTICAL CHEMISTRY (ORGANIC)

1. Bansel RK. **Organic Reaction Mechanism**. 3<sup>rd</sup> Ed. Tata McGraw Hill; 1992.
2. Bhal BS. **Textbook of Organic Chemistry**. 16<sup>th</sup> Ed. S. Chand & Co; 2007.
3. Block JH, Beale JM. **Wilson and Gisvold's textbook of organic medicinal and pharmaceutical chemistry**. 20<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
4. Eliel EL, Wilen SH. **Stereochemistry of Carbon Compounds**. 1<sup>st</sup> Ed. Tata McGraw Hill; 1994.
5. Finar IL. **Organic Chemistry**. 6<sup>th</sup> Ed. Person Education Asia; 2001.
6. Roberts JD, Caserio MC. **Basic Principles of organic Chemistry**. 3<sup>rd</sup> Ed. Addison Wesley; 1990.
7. Sykes P. **Guide Book to Mechanism in Organic Chemistry**. 6<sup>th</sup> Ed. Longman Co; 1991. Vogel AI, Tatchell AR, Furnis BS, Hannaford AJ, Smith PWG. **Vogel's Textbook of Practical Organic Chemistry**. 5<sup>th</sup> Ed. Pearson Education Limited; 1996.
8. Wade LG. **Organic Chemistry**. 7<sup>th</sup> Ed. Prentice Hall; 2010.

## PHARMACEUTICAL CHEMISTRY (BIOCHEMISTRY)

1. Berg JM, Tymoczko JL, Stryer L. **Biochemistry**. 7<sup>th</sup> Ed. WH Freeman and Company; 2010.
2. Bishop ML, Fody EP, Schoeff LE. **Clinical Chemistry: Techniques, Principles and Correlations**. 6<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2009.
3. Champe PC, Harvey RA. **Illustrated Biochemistry**. 4<sup>th</sup> Ed. Lippincott Company; 2007.
4. Chatterjee MN. **Medical Biochemistry**. 7<sup>th</sup> Ed. Jaypee Brothers Medical Publishers; 2007.
5. Conn EE, Stumpf PK. **Outlines of Biochemistry**. 5<sup>th</sup> Ed. John Willey & Sons; 1999.
6. Lehninger AL. **Principles of Biochemistry**. 4<sup>th</sup> Ed. CBS Publisher; 2004.
7. Murray R, Rodwell V, Bender D, Kathleen M, Botham P, Weil A et al. **Harper's Illustrated Biochemistry**. 28<sup>th</sup> Ed. Print-Hall; 2009.
8. West ES, Todd RW, Van BTJ. **Text Book of Biochemistry**. The MacMillan Co; 1996.

## PHYSIOLOGY

1. Chatterjee CC. **Human Physiology**. 9<sup>th</sup> Ed. Medical Allied Agency; 1994.
2. Cyril A, Neil E, Joels N. **Samson Wright's Applied Physiology**. 13<sup>th</sup> Ed. Oxford University Press; 1992.
3. Guyton AC. **Text Books of Medical Physiology**. 9<sup>th</sup> Ed. W B Saunders Company; 2011.
4. Kuntzman AJ, Tortora GJ. **Anatomy and physiology for the manual therapies**. 1<sup>st</sup> Ed. John Wiley & Sons; 2009.
5. Martini F. **Fundamentals of anatomy and physiology**. 8<sup>th</sup> Ed. Prentice Hall; 2010.
6. Saladin KS, Miller L. **Anatomy & physiology: The Unity of Form and Function**. 6<sup>th</sup> Ed. McGraw-Hill; 1998.
7. Snell RS. **Clinical Anatomy for Medical Students**. 1<sup>st</sup> Ed. Litle Brown & CoInc; 1992.
8. Spence AP, Elliot B, Mason EB. **Human Anatomy and Physiology**. 3<sup>rd</sup> Ed. West Publishing Company; 1992.
9. Stuart Ira. **Human Physiology**. 11<sup>th</sup> Ed. Fox; 2008.
10. Tortora GJ, Derrickson B. **Principles of anatomy and physiology**. 13<sup>th</sup> Ed. Wiley; 2010.
11. Widmaier E, Raff H, Strang K. **Vander's Human Physiology**. 12<sup>th</sup> Ed. McGraw Hill; 2010.
12. William F, Ganong WF. **Review of Medical physiology**. 22<sup>nd</sup> Ed. Prentice Hall International Inc; 2005.

## ANATOMY & HISTOLOGY

### Anatomy

1. Drake RL, Vogl WA, Mitchell AWM. **Gray's Anatomy: Descriptive and Applied**. 2<sup>nd</sup> Ed. Churchill Living Stone; 2009.
2. Grant B. **A Method of Anatomy**. 9<sup>th</sup> Ed. Bailliere Tinal and Co Ltd; 1975.
3. Hamilton WJ. **A Textbook of Anatomy**. 2<sup>nd</sup> Ed. Macmillan and Co; 1976.
4. Kuntzman AJ, Tortora GJ. **Anatomy and physiology for the manual therapies**. 1<sup>st</sup> Ed. John Wiley & Sons; 2009.
5. Last RJ. **Anatomy: Regional and Applied**. 11<sup>th</sup> Ed. J and A Churchill Ltd; 2001.
6. Martini F, Ober WC, Garrison CW, Welch K, Hutchings RT. **Fundamentals of Anatomy and Physiology**. 5<sup>th</sup> Ed. Prentice Hall; 2001.
7. Moore KL, Dalley AF, Agur AMR. **Clinically Oriented Anatomy**. 6<sup>th</sup> Ed. Lipponcott Williams and Wilkin; 2009.
8. Romanes GJ. **Cunningham's Manual of Practical Anatomy**. 15<sup>th</sup> Ed. Oxford University Press; 1986.
9. Saladin KS, Miller L. **Anatomy & physiology: The Unity of Form and Function**. 6<sup>th</sup> Ed. McGraw Hill; 1998.
10. Snell RS. **Clinical Anatomy**. 7<sup>th</sup> Ed. Boston Little Brown and Company; 2003.
11. Standring S. **Gray's anatomy: The Anatomical Basis of Clinical Practice**. 40<sup>th</sup> Ed. Churchill Livingstone; 2008.
12. **Tissues of the body by Legros Clerks**. Publisher Oxford at the Clarendon Press, London.
13. Tortora GJ, Derrickson B. **Principles of anatomy and physiology**. 13<sup>th</sup> Ed. Wiley; 2010.

### Histology

1. Cormack HD. **Essentials of Histology**. 2<sup>nd</sup> Ed. JB Lippincott Co; 1993.
2. Hammersen F. **Histology: Color atlas of microscopic anatomy**. 3<sup>rd</sup> Ed. Lee & Febijer Co; 1985.
3. Hewer EE, Bradbury S. **Textbook of Histology for Medical Students**. 9<sup>th</sup> Ed. William Heinemann Medical Books Ltd; 1973.

## ISLAMIC STUDIES

1. Bhatia HS. **Studies in Islamic Law: Religion and Society**. Deep & Deep Publications New Delhi; 1989.
2. Hasan A. **Principles of Islamic Jurisprudence**. Islamic Research Institute, International Islamic University, Islamabad; 1993.
3. Hassan HH. **An Introduction to the Study of Islamic Law**. Leaf Publication Islamabad, Pakistan.
4. Muhammad HU. **Emergence of Islam**. IRI, Islamabad.
5. Muhammad HU. **Introduction to Islam**. Maulana Muhammad Yousaf Islahi.
6. Muhammad HU. **Muslim Conduct of State**.
7. Waliullah M. **Muslim Jrisprudence and the Quranic Law of Crimes**. Islamic Book Service; 1982.
8. Zia-ul-Haq M. **Introduction to Al-Sharia Al-Islamia**. Allama Iqbal Open University, Islamabad; 2001.

## **PHARMACEUTICS (DOSAGE FORMS SCIENCE)**

1. Allen LV, Popovich NG, Ansel HC. **Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems**. 9<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
2. Armstrong NA, James KC. **Understanding Experimental Design and Interpretation in Pharmaceutics**. 1<sup>st</sup> Ed. Taylor & Francis Ltd; 1990.
3. Aulton ME. **Aulton's Pharmaceutics: The Design and Manufacture of Medicines**. 3<sup>rd</sup> Ed. Churchill Livingstone; 2007.
4. Bentley AO. **Text book of Pharmaceutics**. 8<sup>th</sup> Ed. Macmillan Publishing Co Inc; 1977.
5. Carstensen JT. **Pharmaceutics of Solids and Solid Dosage Forms**. 1<sup>st</sup> Ed. John Wiley & Sons Inc; 1977.
6. Davis H. **Bentley's Text book of Pharmaceutics**. 2<sup>nd</sup> Ed. Tindall and Cox Publishers; 1961.
7. Dittert LW. **Sprowl's American Pharmacy**. 7<sup>th</sup> Ed. JB Lippincott Co; 1990.
8. Finlay WH. **The Mechanics of Inhaled Pharmaceutical Aerosols: An Introduction**. 1<sup>st</sup> Ed. Academic Press; 2001.
9. Florence AT, Siepmann J. **Moderen Pharmaceutics: Basic Principles and Systems**. 5<sup>th</sup> Ed. Taylor & Francis; 2009.
10. Ghosh T, Jasti B. **Theory and Practice of Contemporary Pharmaceutics**. 1<sup>st</sup> Ed. CRC Press; 2005.
11. Kleemann A, Engel J, Kutscher B, Reichert D. **Pharmaceutical Substances: Synthesis, Patents, Applications of the most relevant APIs**. 5<sup>th</sup> Ed. Thieme; 2008.
12. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical Experimental Design**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
13. Lund W. **The Pharmaceutical Codex: Principles and Practice of Pharmaceutics**. 12<sup>th</sup> Ed. The Pharmaceutical Press; 1994.
14. Mehta D. **British National Formulary (BNF)**. 54<sup>th</sup> Ed. Pharmaceutical Press; 2007.
15. Rowe RC. **Handbook of Pharmaceutical Excipients**. 6<sup>th</sup> Ed. Pharmaceutical Press; 2009.
16. Sinko PJ, Martin AN. **Martin's physical pharmacy and pharmaceutical sciences: physical chemical and biopharmaceutical principles in the pharmaceutical sciences**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2006.
17. Winfield AJ, Richards RME. **Pharmaceutical practice**. 3<sup>rd</sup> Ed. Elsevier Health Sciences; 2004.
18. Zinc G. **Remington: The Science and Practice of Pharmacy**. 21<sup>st</sup> Ed. Philadelphia College of Pharmacy and Science; 2005.

## **PHARMACEUTICS (PHARM. MICROBIOLOGY & IMMUNOLOGY)**

1. Brooks G, Carroll KC, Butel J, Morse S, Mietzner T. **Jawetz, Melnick & Adelberg's Medical Microbiology and Immunology**. 24<sup>th</sup> Ed. Churchill Livingstone; 2010.
2. Collins CH, Lynes PM, Grange JM, Falkinham JO. **Collins & Lyne's Microbiological Methods**. 8<sup>th</sup> Ed. Vutterworth Heineman; 2004.
3. Fraise A, Lambert PA, Maillard JY. **Russell, Hugo & Ayliffe's Principles and Practice of Disinfection, Preservation & Sterilization**. 4<sup>th</sup> Ed. Wiley Blackwell; 2004.
4. Harvey RA, Champe PC, Fisher BD. **Microbiology: Lippincott's Illustrated Reviews Series**. 4<sup>th</sup> Ed. William & Willkins; 2004.
5. Hugo WB, Russell AD. **Pharmaceutical Microbiology**. 7<sup>th</sup> Ed. Black Well Science Ltd; 1998.

6. Hugo WB, Denyer SP, Hodges NA, Gorman SP. **Hugo and Russell's pharmaceutical microbiology**. 7<sup>th</sup> Ed. Wiley Blackwell; 2004.
7. McKane L, Kandel J. **Microbiology: Essentials and Application**. 2<sup>nd</sup> Ed. McGraw Hill Inc; 1995.
8. Pelczar MJ. **Microbiology**. 7<sup>th</sup> Ed. McGraw Hill Inc; 2007.
9. Pommerville JC. **Alcama's Funtamentals of Microbiology**. 9<sup>th</sup> Ed. John Bartlett Publishers; 2010.
10. Singleton P, Sainsbury D. **Dictionary of Microbiology and Molecular Biology**. 3<sup>rd</sup> Ed. John Willey & Sons; 2006.
11. Willey J, Sherwood L, Woolverton C. **Prescott's Microbiology**. 8<sup>th</sup> Ed. C Brown Publishers; 2010.

### **PHARMACOLOGY & THERAPEUTICS**

1. Brunton L, Lazo J, Parker K. **Goodman & Gilman's Pharmacological Basis of Therapeutics**. 11<sup>th</sup> Ed. McGraw Hill Book Company; 2005.
2. Chang HM, But PPH, Yao SC, Wang LL, Yeung SCS. **Pharmacology and applications of Chinese Materia Medica**. 3<sup>rd</sup> Ed. World Scientific Pub Co Inc; 2000.
3. Ebadi M. **Pharmacology**. 3<sup>rd</sup> Ed. Little Brown & Company; 1996.
4. Harvey RA, Champe PC. **Lippincott's Illustrated Reviews: Pharmacology**. 4<sup>th</sup> Ed. Lippincott William & Wilkins; 2008.
5. Humphrey P. **Rang & Dale's Pharmacology**. 6<sup>th</sup> Ed. Churchil Livingstone; 2007.
6. Katzung BG, Masters SB, Trevor AJ. **Basic & Clinical Pharmacology**. 11<sup>th</sup> Ed. McGraw Hill; 2009.
7. Koda KMA, Young LY, Kradjan WA, Guglielmo BJ, Alldredge BK, Corelli RL. **Applied therapeutics: the clinical use of drugs**. 9<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2008.
8. Laurence DR. **Clinical Pharmacology**. 8<sup>th</sup> Ed. ELBS Publishers; 1998.
9. Ritter JM, Levis LD. **A Text Book of Clinical Pharmacology**. 5<sup>th</sup> Ed. Oxford University Press; 2008.
10. Satorkar RS, Bhandarkar SD. **Pharmacology and Pharmacotherapeutics**. 19<sup>th</sup> Ed. Bomby: Popular Prakashan; 1998.
11. Tripathi JD. **Essentials of Medical Pharmacology**. 6<sup>th</sup> Ed. Jaypee Brothers; 2008.
12. Wecker L, Crespo L, Dunaway G, Faingold C, Watts S. **Brody's Human Pharmacology**. 5<sup>th</sup> Ed. Mosby Inc; 2009.

### **PHARMACOGNOSY**

1. Anonymous. **Monographs of Unani Medicine**. Hamdard Foundation Pakistan; 2003.
2. Baker BM, Bender DA. **Vitamins in Medicine**. 12<sup>th</sup> Ed. Academic Press; 1982.
3. Brain KR, Turner TD. **The Practical Evaluation of Phytopharmaceuticals**. 1<sup>st</sup> Ed. Scientehnica Publishers; 1975.
4. Braun L, Cohen M. **Herbs and Natural Supplements: An Evidence Based Guide**. 3<sup>rd</sup> Ed. London: Elsevier Mosby; 2010.
5. Chauhan P. **Ayurvedic Pharmacognosy**. 1<sup>st</sup> Ed. Sonali Publications; 2007.
6. Cutler SJ, Cutler HG. **Biologically Active Natural Products: Pharmaceuticals**. 1<sup>st</sup> Ed. CRC Press Publisher; 1999.

7. Dewick PM. **Medicinal Natural Products: A Biosynthetic Approach**. 1<sup>st</sup> Ed. John Wiley & Sons; 1997.
8. Evans WC, Trease GE, Evans D. **Trease and Evan's Pharmacognosy**. 16<sup>th</sup> Ed. Elsevier Health Sciences Publisher; 2009.
9. Forhne D, Pfander HJ. **Poisonous Plants: A Hand Book for Doctors, Pharmacists, Toxicologists, Biologists and Veterinarians**. 2<sup>nd</sup> Ed. Timber Press; 2005.
10. Harborne JB, Baxter H. **The Hand Book of Natural Flavonoids**. 2<sup>nd</sup> Ed. John Willey & Son; 1999.
11. Jackson BP. **Atlas of Microscopy of Medicinal Plants, Culinary Herbs and Spices**. 2<sup>nd</sup> Ed. CBS Publishers; 2005.
12. Khandelwal K. **Practical Pharmacognosy**. 8<sup>th</sup> Ed. Nirali Prakashan Publishers; 2008.
13. Lesley Braun and Marc Cohen. **Herbs and Natural Supplements: An evidence Based guide**. 3<sup>rd</sup> Ed. London: Elsevier Mosby; 2010.
14. Lockwood B. **Nutraceuticals: A Guide for Healthcare Professionals**. 2<sup>nd</sup> Ed. Pharmaceutical Press; 2007.
15. Mannito P. **Biosynthesis of Natural Products**. John Wiley & Sons; 1981.
16. Manske RHF. **Alkaloids: Chemistry and Physiology**. Academic Press; 1970.
17. Partab Chauhan. **Ayurvedic Pharmacognosy**. 1<sup>st</sup> Ed. Sonali Publications; 2007.
18. Ross IA. **Medicinal Plants of the World**. 2<sup>nd</sup> Ed. Humana Press; 2003.
19. Smith AB. **Poisonous Plants of All Countries**. 2<sup>nd</sup> Ed. Periodical Expert Book; 1988.
20. Smith AB. **Poisonous Plants of all Countries: With the Active, Chemical Principles Which They Contain; and the Toxic Symptoms Produced by Each Group**. 4<sup>th</sup> Ed. General Books LLC; 2010.
21. Tyler VE, Brady LR, Robbers JE. **Pharmacognosy**. 10<sup>th</sup> Ed. Lea and Febiger; 2001.
22. Wichtl M. **Herbal Drugs and Phytopharmaceuticals**. 3<sup>rd</sup> Ed. Medpharm Publishers; 2004.

### **PHARMACY PRACTICE (PHARMACEUTICAL MATHEMATICS)**

1. Bali N, Gupta P, Gandhi C. **A Textbook of Pharmaceutical Mathematics**. 2<sup>nd</sup> Ed. Laxmi Publications; 2008.
2. Edvards CH, Penney DE. **Calculus and Analytic Geometry**. 5<sup>th</sup> Ed. Prentice Hall Inc; 1999.
3. Hoel PG, Port SC, Stone CJ. **Introduction to Statistical Theory**. 1<sup>st</sup> Ed. Brooks Cole; 1972.

### **PAKISTAN STUDIES**

1. Ansar Z. **History & Culture of Sindh**. Royal Book Company; 1980.
2. Aziz KK. **Party Politics in Pakistan**. Sang-e-Meel Publications; 2007.
3. Bin SK. **The Political System of Pakistan**. Houghton Mifflin; 1967.
4. Burke SM, Ziring L. **Pakistan's Foreign Policy: A Historical Analysis**. Oxford University Press; 1993.
5. Haq NU. **Making of Pakistan: The Military Perspective**. National Commission on Historical and Cultural Research; 1993.
6. Javed BS. **State & Society in Pakistan**. The Macmillan Press Ltd; 1980.
7. Lawrence Z. **Pakistan: Enigma of Political Development**. Dawson Publishing; 1980.
8. Rafique AM. **Political Parties in Pakistan**. 2<sup>nd</sup> Ed. National Institute of Historical and Cultural Research; 1986.

9. Safdar M. **Pakistan Kayyoon Toota**. Idara-e-Saqafat-e-Islamia;
10. Safdar M. **Pakistan Political Roots & Development**. 1<sup>st</sup> Ed. Oxford University Press; 2003.
11. Tahir A. **Ethno National Movement in Pakistan: Domestic and International Factors**. 1<sup>st</sup> Ed. Institute of Policy Studies; 1988.
12. Waseem M. **Pakistan under Martial Law**. 1<sup>st</sup> Ed. Vanguard Books Ltd; 1987.
13. Wayne W. **The Emergence of Banglades**. American Enterprise; 1972.
14. Zaidi AS. **Issue in Pakistan's Economy**. 2<sup>nd</sup> Ed. Oxford University Press; 2006.

### **PHARMACY PRACTICE (BIO-STATISTICS)**

1. Daniel WW. **Bio-Statistics: Foundation for Analysis in Health Science**. 9<sup>th</sup> Ed. Wiley Publishers; 2009.
2. Nilton JS. **Statistical Methods in Biological and health Sciences**. 3<sup>rd</sup> Ed. McGrew Hill; 1998.
3. Hoel PG, Port SC, Stone CJ. **Introduction to Statistical Theory**. 1<sup>st</sup> Ed. Brooks Cole; 1972.
4. Samuels M. **Statistics for the life sciences**. 3<sup>rd</sup> Ed. Dellen Publishers co; 2002.
5. Zar JH. **Biostatistical analysis**. 4<sup>th</sup> Ed. Francis Hall; 1999.

### **PHARMACY PRACTICE (DISPENSING PHARMACY)**

1. Armstrong NA, James KC. **Understanding experimental design and interpretation in pharmaceuticals**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
2. Gennaro AR. **Remington: The science and practice of pharmacy**. 21<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2011.
3. Marriott JF, Wilson KA, Langley CA, Belcher D. **Pharmaceutical compounding and dispensing**. 2<sup>nd</sup> Ed. Pharmaceutical Press; 2010.
4. Cooper JW, Gunn C, Carter SJ. **Cooper and Gun's Dispensing for Pharmaceutical Students**. 12<sup>th</sup> Ed. CBS Publishers & Distributors; 2008.
5. Lund W. **The Pharmaceutical Codex: Principles and practice of pharmaceuticals**. 16<sup>th</sup> Ed. Co CBS Publishers; 2009.
6. Mehta DK. **British national formulary (BNF)**. 54<sup>th</sup> Ed. Pharmaceutical Press; 2007.
7. Rowe RC. **Handbook of pharmaceutical excipients**. 6<sup>th</sup> Ed. Pharmaceutical press; 2009.
8. Winfield AJ, Rees J, Smith I. **Pharmaceutical Practice**. 4<sup>th</sup> Ed. Churchill Livingstone; 2009.

### **PHARMACEUTICAL CHEMISTRY (PHARMACEUTICAL ANALYSIS)**

1. Ahuja S, Scypinski S. **Handbook of modern pharmaceutical analysis**. 2<sup>nd</sup> Ed. Academic Press; 2010.
2. Armstrong NA, James KC. **Understanding experimental design and interpretation in pharmaceuticals**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
3. Beckett AH, Stennlake JB. **Practical Pharmaceutical Chemistry**. 4<sup>th</sup> Ed. The Aulton Press; 2001.
4. Braithwaite A, Smith FJ. **Chromatographic Methods**. 5<sup>th</sup> Ed. Chapman and Hall; 1995.
5. Brittain HG. **Spectroscopy of pharmaceutical solids**. 1<sup>st</sup> Ed. Taylor & Francis; 2006.
6. Hamilton R, Sewell PA. **Introduction to HPLC**. 1<sup>st</sup> Ed. Chapman & Hall; 1982.
7. Heftmann E. **Chromatography**. 6<sup>th</sup> Ed. Von Nostrand Reinhold Co; 2004.

8. Kazakevich Y, LoBrutto R. **HPLC for pharmaceutical scientists**. 1<sup>st</sup> Ed. John Wiley and Sons; 2007.
9. Kemp W. **Organic Spectroscopy**. 3<sup>rd</sup> Ed. Ellsi Horwood; 2008.
10. Knevel AM, Digangi FE. **Jenkin's quantitative Pharmaceutical Chemistry**. 7<sup>th</sup> Ed. McGraw Hill; 1977.
11. Lough WJ, Wainer WI. **High Performance Liquid Chromatography**. 1<sup>st</sup> Ed. Blacki Academic Press; 1995.
12. Moffat AC, Osselton DM, Widdop B. **Clarke's Analysis of Drugs and Poisons**. 4<sup>th</sup> Ed. Pharmaceutical Press; 2011.
13. Pryde A, Gilbert MJ. **Applications of High Performance Liquid Chromatography**. 1<sup>st</sup> Ed. Chapman & Hall; 1979.
14. Snyder LR, Kirkland JJ, Dolan JW. **Introduction to modern liquid chromatography**. 3<sup>rd</sup> Ed. John Wiley & Sons Inc; 2009.
15. Stahl E. **Thin Layer Chromatography**. 2<sup>nd</sup> Ed. Berlin: Springer Verlag; 1969.
16. Williams DH, Fleming I. **Spectroscopic methods in organic chemistry**. 6<sup>th</sup> Ed. McGraw Hill; 2007.

### PATHOLOGY

1. Dipiro J, Talbert RL, Yee G, Matzke G, Wells B, Michael PL. **Pharmacotherapy: A Pathophysiologic Approach**. 8<sup>th</sup> Ed. McGraw Hill; 2011.
2. Greene RJ, Harris ND. **Pathology and therapeutics for pharmacists**. 3<sup>rd</sup> Ed. Pharmaceutical press; 2008.
3. Kumar V, Cotran RS, Robbins SL. **Robbin's Basic Pathology**. 8<sup>th</sup> Ed. W. B. Saunders Publishers; 2007.
4. Macfarlane PS, Reid R, Collander R. **Pathology Illustrated**. 5<sup>th</sup> Ed. Churchill Livingstone; 2000.
5. Walter GB. **Walters and Israel General Pathology**. 7<sup>th</sup> Ed. Churchill Livingstone; 1996.

### PHARMACY PRACTICE (COMMUNITY, SOCIAL & ADMINISTRATIVE PHARMACY)

1. Allen LV, Popovich NG, Ansel HC. **Ansel's Pharmaceutical Dosage Forms and Drug Delivery Systems**. 9<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
2. Armstrong NA, James KC. **Understanding Experimental Design and Interpretation in Pharmaceutics**. 1<sup>st</sup> Ed. Taylor & Francis publishers; 1990.
3. Cooper JW, Gunn C, Carter SJ. **Cooper and Gun's Dispensing for Pharmaceutical Students**. 12<sup>th</sup> Ed. CBS Publishers & Distributors; 2008.
4. Desselle SP, Zgarrick DP. **Pharmacy Management: Essentials for all Practice Settings**. 2<sup>nd</sup> Ed. McGraw Hill; 2008.
5. Gennaro AR. **Remington: The science and Practice of Pharmacy**. 21<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2011.
6. Lund W. **The pharmaceutical Codex: Principles and Practice of Pharmaceutics**. 16<sup>th</sup> Ed. Co. CBS Publishers; 2009.
7. Marriott JF, Wilson KA, Langley CA, Belcher D. **Pharmaceutical Compounding and Dispensing**. 2<sup>nd</sup> Ed. Pharmaceutical Press; 2010.

8. Martindale W, Westcoot W. **Martindale: The Complete Drug Reference.** 1<sup>st</sup> Ed. Pharmaceutical Press; 2008.
9. Mehta DK. **British National Formulary (BNF).** 54<sup>th</sup> Ed. Pharmaceutical Press; 2007.
10. O'Donohue WT, Levensky ER. **Promoting Treatment Adherence: A practical handbook for health care providers.** 1<sup>st</sup> Ed. Sage Publications; 2006.
11. Osol A. **Remington's Pharmaceutical Sciences.** 17<sup>th</sup> Ed. Mack Publishing Company; 2001.
12. Spivey RN, Wertheimer AI, Donald RT. **International pharmaceutical services: The Drug Industry and Pharmacy Practice in Twenty Three Major Countries of the World.** 1<sup>st</sup> Ed. Informa Healthcare; 1996.
13. Robertson R. **Management of Drug Users in the Community: A practical Handbook.** 1<sup>st</sup> Ed. Hodder Arnold Publishers; 1998.
14. Rowe RC. **Handbook of Pharmaceutical Excipients.** 6<sup>th</sup> Ed. Pharmaceutical Press; 2009.
15. Saha GB. **Fundamentals of Nuclear Pharmacy.** 6<sup>th</sup> Ed. Springer Verlag; 2010.
16. Desselle SP, Zgarrick DP. **Pharmacy management: Essentials for all practice settings.** 2<sup>nd</sup> Ed. McGraw Hill; 2008.
17. Spivey RN, Wertheimer AI, Donald RT. **International Pharmaceutical Services: The Drug Industry and Pharmacy Practice in Twenty Three Major Countries of the World.** 1<sup>st</sup> Ed. Informa Healthcare; 1996.
18. Martindale W, Westcoot W. **Martindale: The Extra Pharmacopeia.** 31<sup>st</sup> Ed. Pharmaceutical Press; 2008.
19. O'Donohue WT , Levensky ER. **Promoting treatment adherence: A practical handbook for health care providers.** 1<sup>st</sup> Ed. Sage Publications; 2006.
20. Winfield AJ, Rees J, Smith I. **Pharmaceutical Practice.** 4<sup>th</sup> Ed. Churchill Livingstone; 2009.

### **PHARMACY PRACTICE** **(COMPUTER AND ITS APPLICATIONS IN PHARMACY)**

1. Dennis N. **Programmer's Guide to MS-DOS.** 2<sup>nd</sup> Ed. BradyGames; 1987.
2. Elias M. **System Analysis and design.** 2<sup>nd</sup> Ed. Award Galgotia Publications; 1985.
3. Norton P, Clark S. **Peter Norton's Complete Guide to DOS 6.22.** 1<sup>st</sup> Ed. Sams Publishers; 1994.
4. Norton P, Clark S. **Peter Norton's New Inside the PC.** 1<sup>st</sup> Ed. Sams Publishers; 2002.

### **PHARMACY PRACTICE (HOSPITAL PHARMACY)**

1. Bukhari NI. **Hospital Pharmacy.** 1<sup>st</sup> Ed. Aziz Book Depot; 2000.
2. Hassan W. **Hospital Pharmacy.** 5<sup>th</sup> Ed. Lee & Febiger; 1986.
3. Stephen M. **Hospital Pharmacy.** 2<sup>nd</sup> Ed. Pharmaceutical Press; 2001.

### **PHARMACY PRACTICE (CLINICAL PHARMACY)**

1. DiPiro JT. **Encyclopedia of Clinical Pharmacy.** 1<sup>st</sup> Ed. Informa Healthcare; 2002.
2. DiPiro JT. **Pharmacotherapy, A Pathophysiologic Approach.** McGraw Hill Companies, South Carolina; 2008.

3. Gennaro AR. **Remington: The science and practice of pharmacy**. 21<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2011.
4. Gourley H. **Clinical Pharmacy & Therapeutics**. 4<sup>th</sup> Ed. William & Wilkins; 1992.
5. Greene RJ, Harris ND. **Pathology and therapeutics for pharmacists**. Pharmaceutical Press; 2008.
6. Hansen K, Parthasarathi G. **Text Book of Clinical Pharmacy**. 2<sup>nd</sup> Ed. Orient Blackswan; 2008.
7. Hansten P, Horn J. **Drug interactions Analysis and Management**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
8. Koda-Kimble MA, Young LY, Kradjan WA, Guglielmo BJ, Alldredge BK, Corelli RL. **Applied therapeutics: the clinical use of drugs**. Lippincott Williams & Wilkins Baltimore; 2005.
9. Paul G. **A Behavioral Approach to Pharmacy Practice**. 1<sup>st</sup> Ed. Black Well; 2000.
10. Rantucci MJ. **Pharmacist Talking with Patients: A Guide to Patient Counseling**. 2<sup>nd</sup> Ed. Lippincott Williams & Wilkins; 2006.
11. Ritschel WA, Kearns GL. **Handbook of Basic Pharmacokinetics: Including Clinical applications**. 7<sup>th</sup> Ed. American Pharmacists Association; 2009.
12. Robinson M, Cook S. **Clinical Trials: Risk Management**. 3<sup>rd</sup> Ed. Churchill Livingstone; 2009.
13. Rosenbaun D. **Clinical Research Coordinator Hand Book**. 4<sup>th</sup> Ed. Sarrison, Inc; 2001.
14. Smith GDG, Aronson JK. **Oxford Text Book of Clinical Pharmacology and Drug Therapy**. 3<sup>rd</sup> Ed. Oxford University Press; 2002.
15. Sweetman S. **Martindale: The complete drug reference**. 37<sup>th</sup> Ed. Pharmaceutical Press. 2011.
16. Taylor K, Harding G. **Pharmacy Practice**. 1<sup>st</sup> Ed. CRC Press; 2001.
17. Unschuld PU. **Medicine in China: a history of ideas**. 2<sup>nd</sup> Ed. Univ of California Press; 2010.
18. Walker R. **Clinical Pharmacy & Therapeutics**. 4<sup>th</sup> Ed. Churchill Livingstone; 2003.
19. Winfield AJ, Rees J, Smith I. **Pharmaceutical practice**. 4<sup>th</sup> Ed. Churchill Livingstone; 2009.
20. Winter ME. **Basic Clinical Pharmacokinetics**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2009.
21. Zinc G. **Remington: The Science and Practice of Pharmacy**. Philadelphia College of Pharmacy and Science: New York 1157; 2005.

### PHARMACEUTICS (INDUSTRIAL PHARMACY)

1. Allen LV, Popovich NG. **Ansel's pharmaceutical dosage forms and drug delivery systems**. 8<sup>th</sup> Ed. Lippincott Williams & Wilkins New York; 2005.
2. Armstrong NA, James KC. **Understanding experimental design and interpretation in pharmaceuticals**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
3. Osol A. **Remington's Pharmaceutical Sciences**. 21<sup>st</sup> Ed. Mack Publishing Company; 2005.
4. Aulton ME. **Aulton's pharmaceuticals: the design and manufacture of medicines**. 3<sup>rd</sup> Ed. Churchill Livingstone; 2007.
5. Cooper JW, Gunn C, Carter SJ. **Cooper and Gunn's Tutorial Pharmacy**. 6<sup>th</sup> Ed. CBS Publishers & Distributors; 2004.
6. Davis H. **Bentley's Text Book of Pharmaceutics**. 2<sup>nd</sup> Ed. Tindall and Cox Publishers; 1961.
7. Dukes MNG. **The Law and Ethics of the Pharmaceutical Industry**. 1<sup>st</sup> Ed. Elsevier Science; 2005.
8. Gambardella A. **Science and innovation: The US pharmaceutical industry during the 1980**. 1<sup>st</sup> Ed. Cambridge Univ Press; 2008.

9. Gennaro AR. **Remington: The Science and Practice of Pharmacy**. 21<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2011.
10. Ghosh TK, Jasti BR. **Theory and practice of contemporary pharmaceutics**. 1<sup>st</sup> Ed. CRC Press; 2005.
11. Lachman L, Lieberman HA, Kanig JL. **Theory and Practice of Industrial Pharmacy**. 3<sup>rd</sup> Ed. Verghese Publishing House; 2009.
12. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical Experimental Design**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
13. Martindale W, Westcoot W. **Martindale's Extra Pharmacopoeia**. 1<sup>st</sup> Ed. Pharmaceutical Press; 2008.
14. Sharp J. **Good Pharmaceutical Manufacturing Practice**. 6<sup>th</sup> Ed. Rational and Compliance; 2009.
15. Sinko PJ, Martin AN. **Martin's physical pharmacy and pharmaceutical sciences: physical chemical and biopharmaceutical principles in the pharmaceutical sciences**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2006.
16. Watt PR. **Tablet Machine Instrumentation in Pharmaceutics: principles and practice**. 2<sup>nd</sup> Ed. Ellis Horwood Ltd; 1988.
17. Winfield AJ, Richards RME. **Pharmaceutical practice**. 3<sup>rd</sup> Ed. Elsevier Health Sciences; 2004.

## **PHARMACEUTICS (BIOPHARMACEUTICS & PHARMACOKINETICS)**

1. Armstrong NA, James KC. **Understanding experimental design and interpretation in pharmaceutics**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
2. Augustijns P, Brewster M. **Solvent systems and their selection in pharmaceutics and biopharmaceutics**. 1<sup>st</sup> Ed. Springer; 2007.
3. Curry SH, Whelpton R. **Drug disposition and pharmacokinetics**. Wiley Publishers; 2010.
4. Gibaldi M. **Biopharmaceutics and Clinical Pharmacokinetics**. 4<sup>th</sup> Ed. Marcel & Dekker Inc; 2008.
5. Gibbson and Skett. **Introduction to Drug Metabolism**. 3<sup>rd</sup> Ed. Champ & Hall; 2001.
6. Krishna R, Yu L. **Biopharmaceutics applications in drug development**. 2<sup>nd</sup> Ed. Springer Publishers; 2010.
7. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical Experimental Design**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
8. Li AP. **In vitro approaches for evaluation of drug efficacy and toxicity**. 2<sup>nd</sup> Ed. CRC Press; 2006.
9. Macheras P, Iliadis A. **Modeling in biopharmaceutics, pharmacokinetics, and pharmacodynamics: homogeneous and heterogeneous approaches**. 2<sup>nd</sup> Ed. Springer Verlag; 2006.
10. Macheras P, Reppas C, Dressman JB. **Biopharmaceutics of Orally Administered Drugs**. 1<sup>st</sup> Ed. CRC Publishers; 1995.
11. Niazi S. **Text Book of Biopharmaceutics & Clinical Pharmacokinetics**. 2<sup>nd</sup> Ed. Appleton & Lange; 1985.
12. Notari RE. **Biopharmaceutics and Clinical Pharmacokinetics**. 4<sup>th</sup> Ed. Marcel & Dekker Inc; 1988.
13. Rouland M, Tozer TN. **Clinical Pharmacokinetics**. 1<sup>st</sup> Ed. William & Willkins; 1995.
14. Schoenwald RD. **Pharmacokinetics in drug discovery and Development**. 1<sup>st</sup> Ed. CRC Press; 2002.

15. Shargel L. **Applied Pharmacokinetics and Biopharmaceutics**. 5<sup>th</sup> Ed. Appleton & Lange; 2008.
16. Sinko P. **Martin's Physical Pharmacy & Pharmaceutical Sciences: Physical chemical and biopharmaceutical principles in the pharmaceutical sciences**. 5<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2005.
17. Wilson CG, Washington N. **Physiological Pharmaceutics: Biological Barriers to Drug absorption**. 1<sup>st</sup> Ed. Ellis Horwood; 1989.
18. Yacobi A, Skelly JP. **Toxicokinetics and New Drug Development**. 1<sup>st</sup> Ed. Paramount Press; 1989.

## **PHARMACEUTICS (PHARMCEUTICAL QUALITY MANAGEMENT)**

1. Ahuja S, Scypinski S. **Handbook of modern pharmaceutical analysis**. 2<sup>nd</sup> Ed. Academic Press; 2010.
2. Armstrong NA, James KC. **Understanding experimental design and interpretation in Pharmaceutics**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
3. Baertschi SW, Alsante KM, Reed RA. **Pharmaceutical stress testing: predicting drug degradation**. 2<sup>nd</sup> Ed. Informa Healthcare; 2011.
4. Beckett AH, Stenlake JB. **Practical Pharmaceutical Chemistry**. 4<sup>th</sup> Ed. The Alton Press; 2001.
5. Bismuth G, Neumann S. **Cleaning Validation: A practical Approach**. 1<sup>st</sup> Ed. CRC Press; 2000.
6. Braithwaite A, Smith FJ. **Chromatographic Methods**. 2<sup>nd</sup> Ed. Co CBS; 2009.
7. Braun RD. **Introduction to Instrumental Analysis**. 1<sup>st</sup> Ed. McGraw Hill; 1987.
8. Bryant R. **The pharmaceutical Quality Control Hand Book**. 2<sup>nd</sup> Ed. Aster Publishing Corporation; 1989.
9. Carstensen JT, Rhodes CT. **Drug Stability: Principles and Practices**. 3<sup>rd</sup> Ed. Marcel Dekker; 2000.
10. Christian GD. **Analytical Chemistry**. 6<sup>th</sup> Ed. John Wiley and Sons; 2003.
11. Connors KA. **A Text Book of Pharmaceutical Analysis**. 3<sup>rd</sup> Ed. John-Wiley and Sons; 1999.
12. Javaid KA. **Pharmaceutical Quality Assurance in Class, Industry and Market**. 1<sup>st</sup> Ed. Aziz Publishers; 1993.
13. Knevel AM, Digangi FE, Bryn SR. **Quantitative Pharmaceutical Chemistry**. 1<sup>st</sup> Ed. Waveland Pr Inc; 1982.
14. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical Experimental Design**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
15. Lund W. **The Pharmaceutical Codex: Principles and practice of pharmaceutics**. 16<sup>th</sup> Ed. Co CBS Publishers; 2009.
16. Mehta DK. **British National Formulary (BNF)**. 54<sup>th</sup> Ed. Pharmaceutical Press; 2007.
17. Willig SH. **Good Manufacturing Practices for Pharmaceuticals**. 5<sup>th</sup> Ed. Marcel Dekker Publishing; 2000.

## **PHARMACEUTICS (PHARMACEUTICAL TECHNOLOGY)**

1. Allen LV, Popovich NG, Ansel HC. **Ansel's pharmaceutical dosage forms and drug delivery systems**. 9<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
2. Hellery AM. **Drug delivery and targeting**. 13<sup>th</sup> Ed. Taylor & Francis; 2001.
3. Armstrong NA, James KC. **Understanding experimental design and interpretation in pharmaceuticals**. 1<sup>st</sup> Ed. Taylor & Francis Publishers; 1990.
4. Rahman AU, Iqbal CM. **Bioassay techniques for drug development**. 1<sup>st</sup> Ed. Informa Healthcare; 2001.
5. Aulton ME. **Pharmaceutics: Science of Dosage Forms Design**. 2<sup>nd</sup> Ed. Churchill Livingstone; 2001.
6. Banker GS, Rhodes C. **Modern Pharmaceutics**. 4<sup>th</sup> Ed. Informa Healthcare; 2002.
7. Jain NK. **Controlled and Novel Drug Delivery**. 2<sup>nd</sup> Ed. CBS Publishers & Distributors; 2008.
8. Bontempo JA. **Development of Biopharmaceutical Parenteral Dosage Forms**. 1<sup>st</sup> Ed. Informa Healthcare; 1997.
9. Joseph R. **Robinson Controlled Drug Delivery**. 2<sup>nd</sup> Ed. Marcel & Dekker Inc; 1992.
10. Lewis GA, Mathieu D, Phan RTL. **Pharmaceutical experimental design**. 1<sup>st</sup> Ed. Informa HealthCare; 1998.
11. Lund W. **The pharmaceutical Codex: principles and practice of pharmaceuticals**. 16<sup>th</sup> Ed. Co CBS Publishers; 2009.
12. Mehta DK. **British National Formulary (BNF)**. 54<sup>th</sup> Ed. Pharmaceutical Press; 2007.
13. Rathbone MJ, Hadgraft J, Roberts MS, Lane ME. **Modified Release Drug Delivery Technology**. 2<sup>nd</sup> Ed. Informa Health Care; 2008.
14. Ramabhadran TV. **Pharmaceutical design and development: A molecular Biology Approach**. 1<sup>st</sup> Ed. Taylor & Francis; 1994.

## **PHARMACY PRACTICE (FORENSIC PHARMACY)**

1. Control of Narcotics Substances Act; 1997.
2. Hussain RZ. **The Manual of Drug Laws in Pakistan**. Irfan Law Book House; 2003.
3. Kokate CK, Gokhale SB. **Textbook of Forensic Pharmacy**. 5<sup>th</sup> Ed. Edward Arnold; 1959.
4. Shop and Establishment Ordinance; 1969.
5. The Factory Law; 1934.
6. The Pharmacy Act; 1967.
7. The Poisons Act; 1919.

## **PHARMACY PRACTICE (PHARMACEUTICAL MANAGEMENT & MARKETING)**

1. Ahmad M, Bukhari NI. **Pharmaceutical Management and Marketing**. 1<sup>st</sup> Ed. Tariq Academy; 2002.
2. Harry SA. **Principles & Methods of Pharmacy Management**. 3<sup>rd</sup> Ed. Lea & Febiger; 1986.
3. Herta MA, Herbert HW, Jeans TP. **Effective Business Communication**. 8<sup>th</sup> Ed. 2009.

4. Lidstone J, MacLennan J. **Marketing planning for the pharmaceutical industry**. 2<sup>nd</sup> Ed. Gower Pub Co; 1999.
5. Patrick TC, Pedro LJ. **Pharmacy Management** for students and practitioners. 2<sup>nd</sup> Ed. Mosby Publishers; 1979.

### **PHARMACEUTICAL CHEMISTRY (MEDICINAL CHEMISTRY)**

1. Burger A. **Medicinal Chemistry**. 6<sup>th</sup> Ed. Jhon Willey & Sons; 2003.
2. Block GH, Roche EB, Soine TO, Wilson. **Inorganic and Medicinal Pharmaceutical Chemistry**. 2<sup>nd</sup> Ed. Verghese Publishing House; 1986.
3. Block JH, Beale JM. **Wilson and Gisvold's textbook of organic medicinal and Pharmaceutical Chemistry**. 12<sup>th</sup> Ed. Lippincott Williams & Wilkins; 2010.
4. Burger A. **Medicinal Chemistry**. 6<sup>th</sup> Ed. Jhon Willey & Sons; 2003.
5. Foye WO. **Principles of Medicinal Chemistry**. 6<sup>th</sup> Ed. Verghese Publishing House; 2008.
6. Gennaro AR. **Remington: The science and practice of pharmacy**. 21<sup>st</sup> Ed. Lippincott Williams & Wilkins; 2011.
7. Tyagi OD, Yadav M. **Textbook of Synthetic Drugs**. 3<sup>rd</sup> Ed. Anmol Publications; 2004.

### **RECOMMENDATIONS:**

1. The up-dated curriculum of Doctor of Pharmacy program after the approval from Pharmacy Council of Pakistan (PCP) and Higher Education Commission (HEC) shall be binding on every Pharmacy Institution/ University (Public and Private) to adopt revised curricula.
2. The revised curricula shall be adopted from the 2012 session.
3. Violation in adoption of the approved curriculum shall be liable to penalty under section 17 & 19 of Pharmacy Act, 1967 and rules framed there-under, which may lead to revoking of affiliation/ accreditation by the PCP.
4. No omission and changes are allowed in the said curriculum approved by PCP and HEC, by any institution.
5. Doctor of Pharmacy degree holders will be allowed for direct admission in M.S. /M. Phil leading to PhD program.