**Course Outline**

**Name of the semester:** Spring 2020

**Course Title:** BPH 315 **Course Name:** Hospital and community pharmacy

**Batch No.:** 19th **Section:** A+B **Credit:** 3

**Name of the course teacher:** Tahmina Afroz **Designation:** Lecturer

 [ **Marks distribution:** Classs attendance: 5; Quiz: 10; Assignment: 5; Presentation: 5;

Midterm: 25, Semister final: 50; Total: 100]

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| **Lecture No.** | **Topic** | **Lecture topics (sub-topic)** | **Credit hours** |
| L-1 | **Introduction** |  | 1hr 20 mins |
| L-2 | **Hospital pharmacy introduction** | Definition, functions and objectives of hospital pharmacy, location, layout and flow chart of personnel, men and material  | 1hr 20 mins |
| L-3 | And facilities required including equipment, role of hospitals in the health delivery systems | 1hr 20 mins |
| L-4 | Types of hospitals, different departments and services, role of a pharmacist in the hospital | 1hr 20 mins |
| L-5 | Pharmacy education and job descriptions in Bangladesh | 1hr 20 mins |
|  |  |  **Quiz-1, Marks: 10** |  |
| L-6 | **Drug distribution system in hospitals**  | Out patients details  | 1hr 20 mins |
| L-7 | In patients: Detailed discussion of 1. Unit dose dispensing
 | 1hr 20 mins |
| L-8 | 1. Floor ward stock system and satellite pharmacy services
2. Central sterile services, bed side pharmacy
 | 1hr 20 mins |
| L-9 | **Pharmacy and therapeutic committee** | Constitution of pharmacy and therapeutic committee | 1hr 20 mins |
| L-10 | And functions of pharmacy and therapeutic committee | 1hr 20 mins |
| L-11 | Hospital formulary system and its organization | 1hr 20 mins |
| L-12 | Hospital formulary system- functions and composition | 1hr 20 mins |
| **Quiz-2, Marks: 10** |
| **Midterm Exam** |
| L-13 | **Purchasing and inventory control** | Purchasing agents, purchasing procedure | 1hr 20 mins |
| L-14 | Control on purchase, storage | 1hr 20 mins |
| L-15 | Types of inventories: perishable inventory, physical inventory, perpetual inventory | 1hr 20 mins |
| L-16 | **Community pharmacy** | Concept of community health care, health needs of community, different level of health care, elements of primary health care, principles of primary health care: equitable distribution, | 1hr 20 mins |
| L-17 | Community participation, intersectoral coordination, appropriate technology, health manpower, health care delivery at different levels, community pharmacy in dealing with communicable diseases problem | 1hr 20 mins |
| L-18 | Nutritional problems, environmental sanitation problems and indigenous systems of medicine, development of community pharmacy infrastructure, participation of non-governmental voluntary health agencies. | 1hr 20 mins |
| **Quiz-3, Marks: 10** |
| L-19 | **Manufacturing of pharmaceuticals in hospitals** | Sterile manufacturing: Large and small volume parenterals, facilities, requirements | 1hr 20 mins |
| L-20 | Layout, production planning, manpower requirements | 1hr 20 mins |
| L-21 | Non-sterile manufacturing: Liquid orals, external bulk concentrates | 1hr 20 mins |
| L-22 | **Rational use of drugs** | Background of rational use of drugs, Definition, factors underlying irrational use of drugs: patients, prescribers, drug supply system; Drug regulation and drug promotion | 1hr 20 mins |
| L-23 | Impact of irrational use drugs with examples, disease-specific indicators, drug use patterns in developing countries, changing drug use patterns, strategies to improve prescribing, experiences with interventions to change drug use in developing countries,  | 1hr 20 mins |
| L-24 | strengths and weaknesses of different interventions to change drug use patterns, international network for rational use of drugs | 1hr 20 mins |
| **Quiz-4, Marks: 10** |
| L-25 | **Forensic pharmacy** | Definition, epidemiology of poisoning, influential factors, substances most frequently involved in accidental ingestions among children, | 1hr 20 mins |
| L-26 | first-aid treatment for poisoning, treatment, antidotes: Locally acting and systemic, prevention of poisoning, poison control, poison control act, schedules, poison treatment centres, | 1hr 20 mins |
| L-27 | poison prevention packaging, national and community awareness, centralization of poison information, role of pharmacist in different levels | 1hr 20 mins |

**Recommended Books:**

1. Hospital Pharmacy- William E. Hasan, 5th edition, Lea & Febiger, Philadelphia.

2. Textbook of Hospital Pharmacy- M. C. Allwood, J. T. Fell, 1st edition, 1980, Blackwell Scientific Publications, Oxford.