**SCPM522 Systemic Pharmacology II**

**(SS1-3 + GS1 + GS3 + K1-5 (M)) + (GS1 + GS3 + GS8) + (GS1 + GS2 + GS6)**

Course description:

Drugs in endocrine system, gastrointestinal system, immunologic system; chemotherapeutic drugs; free radicals and antioxidants; herbal medication; human toxicology and poison management

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| **CLO1** | Explain the drugs used in endocrine system, gastrointestinal system, immunologic system; chemotherapeutic drugs; free radicals and antioxidants; herbal medication; human toxicology and poison management | **ELO1** |
| **CLO2** | Analyze and apply principle of drug action in endocrine system, gastrointestinal system, immunologic system; chemotherapeutic drugs; free radicals and antioxidants; herbal medication; human toxicology and poison management | **ELO1** |
| **CLO3** | Demonstrate the ability to present and discuss the knowledge from the reliable sources with appropriate citations | **ELO3,4** |
| **CLO4** | Demonstrate the ability to work with others | **ELO4** |

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| **Specific skill** | **Generic skill** | **Knowledge** |
| **SS1** Explain basic concept in pharmacology and integrate knowledge to related fields | **GS1** Language and communication skills (listening, speaking,  reading, writing) | **K1** Pharmacokinetics/  pharmacodynamics |
| **K2** Molecular and cellular science |
| **SS2** Compare normal physiology and pathophysiology of disease and apply knowledge to identify the targets of drug action | **GS2** Working with others | **K3** Physiology and pathology |
| **GS3** Information technology skills | **K4** Systemic pharmacology |
| **GS6** Leadership and management  skills | **K5** Molecular pharmacology |
| **GS8** Moral and integrity |
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| **SS3** Apply the knowledge of mechanism of drug action and principle in using drugs |
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**COURSE MAPPING**

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| **Week** | **Content** | **CLO**  **No.** | **Teaching approach** | **Assessment** |
| **1** | Introduction to respiratory pharmacology | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Antiasthmatic agents & Drugs for COPD | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Allergic rhinitis & common cold | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **2** | Drugs for peptic ulcer | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Anti-emetic & prokinetic | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Drugs for Diarrhea and constipation | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **3** | Conference 1: Drugs for GI disorders | CLO1-4 | Small group discussion | Presentation  Participate in discussion  Pre/post test |
|  | General anesthetic agents | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Antimigraine drugs | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **4** | Conference 2: drug abuse and dependence | CLO1-4 | Small group discussion | Presentation  Participate in discussion  Pre/post test |
| **5** | Diabetes mellitus and drug treatment | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Drugs for thyroid disorders | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Drugs used in osteoporosis | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **6** | Anorexigenic | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Conference 3: Obesity as health problem and possible treatment | CLO1-4 | Small group discussion | Presentation  Participate in discussion  Pre/post test |
| **7** | Antineoplastic drugs (targeted therapy) | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Drug for skin disorders | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Drugs for blood disorders | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **8** | Conference 4: Herbal medication | CLO1-4 | Small group discussion | Presentation  Participate in discussion  Pre/post test |
| **9** | Thalassemia: drug therapy | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Free radicals & antioxidants | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
| **10** | Human toxicology | CLO1-2 | Lecture | Written exam  Q&A in class  Pre/post test |
|  | Conference 5: Poison management | CLO1-4 | Small group discussion | Presentation  Participate in discussion  Pre/post test |
|  | **Class and Course feed back** | CLO1-4 |  |  |