

| | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Course Title/Code: | Current Therapeutic Strategies for Metabolic Diseases (MMPH6205) |
| Department: | Medicine |
| Objective: | Due to sedentary lifestyle and over-nutrition, obesity is reaching epidemic proportions worldwide and has become a major public healthcare burden. Obesity is a major risk factor for a cluster of chronic diseases, including type 2 diabetes, dyslipidemia, hypertension, cardiovascular disease, neurodegenerative diseases and cancers. This course provides a comprehensive and in-depth overview on the links between metabolic abnormalities and major chronic diseases, and discusses the current and future therapeutic strategies, and challenges and opportunities in drug discovery for major metabolic diseases. |
| Content: | <p>Topics include:</p> <p>(1) Current drugs for obesity, diabetes, diabetic complications and lipid disorders;</p> <p>(2) Functional food, nutraceuticals and traditional herbals for treatment of metabolic disorders;</p> <p>(3) Life style modifications (calorie restriction and exercise) in the prevention of metabolic disorders;</p> <p>(4) Drug discovery for metabolic disease: from bench to bed.</p> |
| Learning Outcomes: | <p>On completion of the module, the students are expected to:</p> <ul style="list-style-type: none"> • Explain how altered energy homeostasis causes obesity, diabetes and diabetic complication • Appreciate the molecular links between obesity and major human diseases • Recognize the importance of life style modifications in the prevention of metabolic diseases • Develop skills and critical thinking for metabolic-related basic and clinical research |
| Prerequisite: | None |
| Duration: | 2 hours/week; 24 contact hours |
| Continuous assessment/ examination ratio: | 60% / 40% |
| Examination method/ duration: | Written examination / 2 hours |