Module 14 : Pharmacology of Renal and Cardiovascular Drugs (3.4 ECTS/2 CSU)

Pharmacology of Renal and Cardiovascular Drugs		
Code/ Status	:	MFK 641/Elective
Module level	:	Master
Semester	:	2
Module Coordinators/ Lecturers	:	Fita Rahmawati, Agung Endro Nugroho
Language	:	Indonesian
The format/class hours per week during the semester	:	Classroom Lecture, Case-based lecture, Small Group Discussion and Presentation; 2 hours/weekly and 14 weeks during the semester.
workload	:	100 minutes of in-class lectures, 120 minutes of structured activities, 120 minutes of weekly self-study
Credit points	:	3.4 ECTS/2 CSU
Requirements	:	No
Learning goals/ Course Outcomes	:	Students are able to search for and review drug information sources to provide Evidence-based Medicine, and apply knowledge regarding pharmacological profiles of hypertension drugs, heart failure drugs, arrhythmias, hypotensive drugs, stroke drugs, ischemic heart disease (IHD) drugs, acute myocardial infarction drugs (antiplatelet, anticoagulants, fibrinolytic) , heart failure drugs, antiarrhythmic drugs, antidyslipidemia drugs, shock, acute and chronic kidney failure drugs (anti-anaemia, electrolyte disorders and acid-base equilibrium), including pharmacokinetics (absorption, distribution, metabolism and excretion), pharmacodynamics (mechanism of action, and target drug action in the body) as the basis for selecting the appropriate drug for patient.
Content	:	This course deals with the profiles pharmacology of cardiovascular and renal drugs include pharmacokinetics (absorption, distribution, and metabolism, excretion), pharmacodynamics (mechanism of action, and target of drug action in the body), and evidence-based medicine in cardiovascular and renal disease, including: antihypertensives, antiarrhythmic drugs, ischemic heart disease (IHD) drugs, myocardial infarction drugs, heart failure drugs, antiarrhythmic drugs, anti-dyslipidemia drugs, acute and chronic kidney failure drugs (anti-anaemia, electrolyte disorders and acid-base equilibrium).
Study/exam achievements	:	A-E, 30% Assignment, 30% Midterm and 40% final exam
Forms of media	:	Face to face instructions, Slides, Board, Internet
Literature	:	1.) DiPiro, J.T., Talbert, R.L., Yee, G.C., Matzke, G.R., Wells, A.G., Posey, L.M. (Eds), 2008, Pharmacotherapy a Pathophysiological Approach, 4rd ed, Appleton & Lange, Stamford 2.) Koda-Kimble, MA., and Young, LY, 2001, Applied Therapeutics : The Clinical Use of Drugs, Lippincott Williams and Wilkins, New York. 3.) Nugroho, AE., 2011, Farmakologi : Obat-obat penting dalam pembelajaran Ilmu Farmasi dan Kesehatan, Pustaka Pelajar Yogyakarta Indonesia.

4.) Nugroho, AE., 2011, Prinsip Aksi dan Nasib Obat dalam Tubuh, Pustaka Pelajar Yogyakarta Indonesia.
5.) Rang, H.P., Dale, M.M., and Ritter, J.M., 1999, Pharmacology, 4th Ed., 1-44, 94-156, Churchill Livingstone, Melbourne