

**Ankara University**  
**Library and Documentation**  
**Center Open Courseware**  
**Syllabus**

<b>Course Title and code</b>	Pharmaceutical Chemistry III-PHA485
<b>Course Coordinator</b>	Prof. Dr. Ali Hakan GÖKER
<b>Instructors</b>	Prof. Dr. Ali Hakan GÖKER Prof. Dr. İlkay YILDIZ Doç. Dr. Meltem CEYLAN ÜNLÜSOY
<b>Course Level</b>	Undergraduate
<b>Course Type</b>	Compulsory
<b>Course Content</b>	In this course formula, nomenclature, general physicochemical properties, general synthetic pathways, metabolism, stability, general chemical analysis, structure-activity relationships of pharmaceutical active ingredients used in diagnosis and treatment of some diseases are given. Within this general topic introduction to medicinal chemistry, metabolism, structure-activity relationships, transport systems, chemical bonding of parasympathomimetic, parasympatholitic, ganglion blockers, sympathomimetic, sympatholitic and cardiovascular system drugs are taught.
<b>Goals</b>	Aim of this course is to teach, design and synthesis of natural and synthetic origin pharmaceutical active ingredients used in diagnosis and treatment of central autonomic nervous system disorders, and generally have an educational concept of to teach the basic concepts of medicinal chemistry and drug groups.
<b>Learning Outcomes</b>	1) Recognizes the basic sciences about the drug. 2) Knows information about design, synthesis, analysis and pharmacokinetics of pharmaceutical products 3) Gives consulting about pharmaceutical teamwork, research and development 4) Follows developments in the field of information and technology in order to increase the effectiveness of pharmacy services.
<b>Course Duration</b>	One Term (two hours/week)
<b>Language of Instruction</b>	English
<b>Prerequisites</b>	None
<b>Recommended Sources</b>	Farmasötik Kimya Hacettepe Üniversitesi Yayınları ISBN: 978-975-491-171-8 3. Baskı, Aralık 2013 Foye's Principles of Medicinal Chemistry Publication Date: March 8, 2012 ISBN-10: 1609133455 ISBN-13: 978-1609133450 Edition: Seventh, North American Edition Burger's Medicinal Chemistry, Drug Discovery and Development 7th Edition, 8 Volume Set ISBN: 978-0-470-27815-4 September 2010 Pharmaceutical Chemistry, David G. Watson (Author) Publication Date: February 18, 2011 ISBN-10: 0443072329 ISBN-13: 978-0443072321 Edition: 1 Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry Publication Date: March 2, 2010 ISBN-10: 0781779294 ISBN-13: 978-0781779296 Edition: Twelfth, North American Edition
<b>ECTS Credits</b>	-
<b>Practise</b>	None
<b>Other-1</b>	None