

212010 – ORGANIC SYNTHESIS

CREDITS: 04 (four) – 60 hours/class

CONTENT:

Total synthesis of complex bioactive molecules.

SYLLABUS:

1. Prostaglandins.
2. Strychnine.
3. Asteltoxin.
4. Vimblastine.
5. Quinine.
6. Epothilones.
7. Erythronolide B.
8. Other Molecules.

BIBLIOGRAPHY:

1. MACKIE, Raymond Keith; SMITH, D.M.; AITKEN, Robert Alan. Guidebook to organic synthesis. 2.ed. Longman, 1990.
2. CARRUTHERS, W. Some modern methods of organic synthesis. Cambridge University Press, Cambridge, 1978.
3. NICOLAOU, K. C.; SORENSEN, E. J. Classics in total synthesis: targets, strategies, methods. VCH, Weinheim, USA, 1996.
4. NICOLAOU, K. C.; SNYDER, S. A. Classics in total synthesis II: more targets, strategies, methods. Wiley-VCH, Weinheim, USA, 2003.