

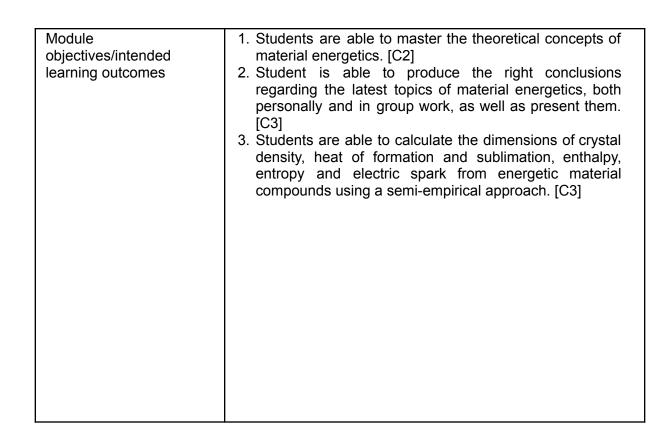
UNIVERSITAS PADJADJARAN FACULTY OF MATHEMATICS AND NATURAL SCIENCES

COURSE CODE: D20B.302

MASTER PROGRAM IN CHEMISTRY

Module designation	Energetics Material
Semester(s) in which the module is taught	2
Lecturers	Juliandri, Ph.D. Dr. rer. nat Yudha Prawira Budiman.
Medium of instruction	English and Indonesian
Relation to curriculum	Mandatory elective courses Functional Material Master of Science in Chemistry
Teaching methods	Lecture and discussion
Workload	Total workload : 53.42 hours
	CLASS
	Lecture and Discussion : 16.69 hours
	Tutorial : 3.35 hours
	Assignment : 2.00 hours
	Test and Examination : 6.68 hours
	Independent Study : 26.70 hours
Credit points	2 (2-0)
	2 Credits = 3.62 ECTS

Required and recommended prerequisites for joining	-
the module	



Contents	Material energetics is a lecture related to materials used to produce or store energy. It also discusses how compounds can produce large amounts of energy and predicts some of the properties of explosive compounds semi-empirically.

Examination forms	Test, Presentation, and Assignment
Study and examination requirements	Minimum attendance at lectures is 80%. Final score is evaluated based on quiz (10%), individual assignment (20%), mid semester exam (35%), and end semester exam (35%).
Reading lists	 Mohammad H. Keshavarz, Thomas M. Klapötke (2018) The Properties of Energetic Materials. De Gruiter. Gurdip Singh, (2015) Recent Advances on Energetic Materials. NovaScience Publishers.