COURSE TITLE		ISOTOPIC GEOCHRONOLOGY CODE: G						
					<u> </u>			
LEVEL (UG-undergraduate/M-master) AND YEAR OF STUDY (1,2,3,4)		M1 SI	SEMESTER I STATUS (CO-COMPULSORY/OP-0		MPULSORY/OP-OPT	TONAL) OP		
NUMBER OF HOURS/ WEEK	TOTAL HOURS/ SEMESTER Pr.	TOTAL HOURS OF INDIVIDUAL WORK	OF CREDITS (D-DURING THE SEMES C-COLLOQUIUM, E-EXA		THE SEMESTER, UIUM, E-EXAM, M-	LANGUAGE		
1 1	28	152	6		D, E	Engl	ish	
LECTURER	PnD Reader Maricel Raileanu Geology							
PREREQUISITES Petrology; Mineralogy; Global tectonic								
OBJECTIVES  Students' acquisition of the most important isotope systems and equations used in geochronology.  General notions about isotopic geochronology. Principles of geochronology. The K-Ar system. The K-Ar system. The Rb-Sr system. The Sm-Nd system. The Sm-Nd system. The Lu-Hf system. The Lu-Hf system. The U-Th-Pb system. Setting out and interpreting isochrons. Setting out and interpreting Sm-Nd isochrons U-Pb dating and setting out concordia diagrams. Applications of geochronological methods on sedimentary, magmatic and metamorphic rocks.								
TEACHING METHODS	Power point prese	Power point presentations of lectures.						
RECOMMENDED READING  Dickin, A. P. (1995). Radiogenic Isotope Geology. Cambridge University Press. Faure, G. (1986). Principles of Isotope Geology. John Wiley & Sons. Onac, P.B. (2004). Clepsidrele geologiei.Ed. Presa Univ. Clujeană, Cluj-Napoca. Văsaru, Gh., Cosma, C. (1998). Metode de datare prin fenomene nucleare naturale. Ed. Dacia, Cluj-Napoca.								
ASSESSMENT METHODS	Conditions Criteria Way of evaluation Formula of the final m	Criteria Cumulative assessment						