

TOTAL COURSE-PROGRAMME OUTCOMES RELATIONSHIP

COURSE INFORMATION						PROGRAMME OUTCOMES							
Code	Course Name	T	P	Credit	ECTS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
FALL SEMESTER													
MUH8001	Scientific Research Techniques and Publication Ethics	3	0	3	8	4	3	4	3	5	5	5	5
MAD7001	Seminar	0	2	0	8	5	5	5	5	5	5	5	5
MAD7003	Doctoral Qualification	0	0	0	30	5	5	5	5	5	5	5	5
MAD7005	Specialized Field Course	5	0	0	2	5	5	5	5	5	5	5	5
MAD7007	Thesis Proposal	0	0	0	30	5	5	5	5	5	5	5	5
MAD7009	Thesis Research	0	1	0	30	5	5	5	5	5	5	5	5
MAD8001	Design of Experiments in Mineral Processing	3	0	3	8	5	5	4	2	3	3	3	2
MAD8003	Environmental Impact Assessment in Mines	3	0	3	8	3	3	3	4	4	2	2	4
MAD7101	Rock Mass Analysis in Mining	3	0	3	8	5	5	5	5	4	5	5	4
MAD7103	Water Disposal and Management in Mines	3	0	3	8	5	5	4	4	5	4	4	5
MAD7105	Performance Prediction of Mechanical Excavators	3	0	3	8	4	4	3	5	4	2	2	3
MAD7107	Measurement and Applications in Underground	3	0	3	8	4	4	3	3	3	2	2	3
MAD7109	Design in Underground Coal Mining	3	0	3	8	4	4	4	3	3	2	2	2
MAD7111	Clean Coal Technologies*	3	0	3	8	4	4	3	4	4	3	3	5
MAD7113	Mineral Based Additives	3	0	3	8	5	5	5	5	5	5	5	5
MAD7115	Evaluation Of Process Wastes	3	0	3	8	5	5	5	4	4	3	4	3
MAD7117	Grinding Kinetics	3	0	3	8	5	5	5	2	3	3	3	2
SPRING SEMESTER													

MAD7002	Seminar	3	0	3	8	5	5	5	5	5	5	5	5
MAD7004	Doctoral Qualification	3	0	3	8	5	5	5	5	5	5	5	5
MAD7006	Specialized Field Course	5	0	0	2	5	5	5	5	5	5	5	5
MAD7008	Thesis Proposal	0	1	0	2	5	5	5	5	5	5	5	5
MAD7010	Thesis Research	0	1	0	30	5	5	5	5	5	5	5	5
MAD8002	Statistical Methods	0	2	0	6	5	3	4	3	4	2	3	2
MAD8004	Pre-treatment in Mineral Processing	3	0	3	8	4	4	3	5	4	4	3	5
MAD7102	Basic Engineering Structures	3	0	3	8	5	4	5	3	5	4	5	5
MAD7104	Logistic Systems in Mines	3	0	3	8	5	5	4	4	5	4	4	5
MAD7106	Rock Cutting Mechanics	3	0	3	8	5	4	5	5	4	2	2	3
MAD7108	Natural Stone Production and Processing Technologies	3	0	3	8	3	4	3	4	4	2	3	4
MAD7110	Mine Valuation	3	0	3	8	3	5	5	3	4	3	4	4
MAD7112	Advanced Flotation Techniques	3	0	3	8	5	4	3	4	4	4	3	5
MAD7114	Characterization Of Powder Material	3	0	3	8	5	5	5	5	5	5	5	5
MAD7116	Extractive Metallurgy of Precious Metals	3	0	3	8	5	5	5	4	4	3	4	3
MAD7118	Simulation in Mineral Processing	3	0	3	8	5	5	5	2	3	3	3	2