

TOTAL COURSE-PROGRAMME OUTCOMES RELATIONSHIP

COURSE INFORMATION						PROGRAMME OUTCOMES									
Code	Course Name	T	P	Credit	ECTS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
FALL SEMESTER															
MUH8001	Scientific Research Techniques and Publication Ethics	3	0	3	8	4	2	3	1	5	4	4	3		
MAD8001	Mineral Processing Design of Experiments	3	0	3	8	5	5	4	2	5	3	3	3		
MAD8003	Environmental Impact Assesment in Mines	3	0	3	8	3	3	0	3	2	4	3	4		
MAD6001	Special Topics	5	0	0	2	5	5	5	5	5	5	5	5		
MAD6003	Thesis Research (Thesis Proposal)	0	1	0	2	5	5	5	5	5	5	5	5		
MAD6005	Thesis Research	0	1	0	30	5	5	5	5	5	5	5	5		
MAD6007	Seminar	0	2	0	6	5	5	5	5	5	5	5	5		
MAD6101	Index Tests in Rock Mechanics	3	0	3	8	4	4	3	4	5	2	4	2		
MAD6103	Mining Business Economy	3	0	3	8	5	4	4	4	5	4	5	5		
MAD6105	Mechanical Activation in Minerals Engineering	3	0	3	8	4	3	5	2	2	4	5	1		
MAD6107	Calculations and Grinding Process Control	3	0	3	8	5	5	5	4	5	2	3	3		
MAD6109	Drilling and Blasting Applications	3	0	3	8	4	3	2	5	3	4	4	5		
MAD6113	Recultivation in Surface Mining	3	0	3	8	4	4	4	5	5	4	5	5		
MAD6115	Rock Slope Stability and Applications	3	0	3	8	4	5	4	4	2	3	2	4		
MAD6117	Geostatistics Methods in Mining	3	0	3	8	4	4	3	4	2	2	3	3		
MAD6119	Micronized Grinding	3	0	3	8	4	4	5	4	2	2	5	2		
MAD6123	Mechanical Rock Excavation Techniques	3	0	3	8	4	4	3	5	4	5	4	4		
SPRING SEMESTER															
MAD5112	Statistical Methods	3	0	3	8	4	4	2	2	4	3	2	0		

MAD5114	Pre-treatment in Mineral Processing	3	0	3	8	3	2	4	4	2	2	5	2		
MAD5004	Special Topics	5	0	0	2	5	5	5	5	5	5	5	5		
MAD5006	Thesis Research (Thesis Proposal)	0	1	0	2	5	5	5	5	5	5	5	5		
MAD5006	Thesis Research	0	1	0	30	5	5	5	5	5	5	5	5		
MAD5008	Seminar	0	2	0	6	5	5	5	5	5	5	5	5		
MAD5102	Tunneling in Difficult Ground	3	0	3	8	4	3	4	5	4	5	4	4		
MAD5104	Quality and Vocational Standarts	3	0	3	8	5	4	5	4	4	5	4	5		
MAD5106	Separation in Mineral Industry	3	0	3	8	4	4	5	4	3	2	5	2		
MAD5108	Planning of Blasting in Open Pits	3	0	3	8	4	4	3	4	3	5	4	5		
MAD5110	Rock Mechanics Applications	3	0	3	8	5	5	4	4	3	3	2	3		
MAD5116	Side Mineral Operations Processes	3	0	3	8	3	5	5	3	2	3	2	4		
MAD5118	Industrial Noise Control	3	0	3	8	4	4	5	4	4	5	4	4		
MAD5120	Fine Particle Measurement Techniques	3	0	3	8	3	4	5	5	2	2	3	4		
MAD6102	Energy Resources	3	0	3	8	4	4	5	4	5	4	4	5		
MAD6104	Beneficiation Methods of Fine Particles	3	0	3	8	4	3	5	4	2	2	5	2		
MAD6106	Mineral Processing Surface Chemistry	3	0	3	8	3	4	3	5	3	2	2	3		
MAD6108	Mechanized Tunneling Methods	3	0	3	8	4	3	4	4	3	4	4	3		