MINING ANI NAME OF COURSE-Applied Civil Engineering

	OCBC19			
RGPV(DIPLOMA WING)BHOPAL BRANCH -MINING AND MINE SURVEYING NAME OF COURSE : Applied Civil				
COURSE OUTCOME 1	Able to select the general materials and technology that			
LEARNING OUTCOME-1.1	Able to coduct laboratory tests to check the quality of			
CONTENTS	Type of bricks, good quality of bricks, laboratory test of			
METHOD OF ASSESSMENT	Internal: Mid Semester Exam - Pen paper test/Assignme			
LEARNING OUTCOME-1.2	Able to select the stone aggregates.			
CONTENTS	Requirement of good quality of stone, test for stone, sel aggrements, Fitness modules.			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
LEARNING OUTCOME 1.3	Able to check the quality of cement and steel .			
CONTENTS METHOD OF ASSESSMENT	Composition of cement, Type of cement,Laboratory tes PRODUCT; Composition of steel, change in properties du steel section, test of MS bar. External : End semester Examination-Pen Paper Test			
LEARNING OUTCOME-1.4				
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CONTENTS	Characteristics of good timber, defect in timber, preser			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
COURSE OUTCOME 2 LEARNING OUTCOME 2.1	Able to define the purpose of various parts of construct Detail of foundation.			
CONTENTS	Necessity of foundation , bearing capacity & safe bearir foundation, selection of type of foundation, procedure t plan, checking the accuracy of layout, utility of control p			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
LEARNING OUTCOME 2.2	Able to Summarize the masonry.			
CONTENTS	Type of masonry, necessity bond of bricks, masonry, typ revetment.			

METHOD OF ASSESSMENT	Internal: Mid Semester Exam - Pen paper test/Assignme			
LEARNING OUTCOME 2.3	Able to prepare the concrete.			
CONTENTS	Ingredients in cement concrete properties of ingredien concretes, work ability of concretes, slum test, water ce which affect the quality of concrete, use of reinforceme			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
COURSE OUTCOME-3 LEARNING OUTCOME-3.1	able to demonstrate appropriate surveying alignment f Able to manipulate road alignment.			
CONTENTS	Type of Roads, General detail of Roads Construction. survey control points, Levelling, Detailed Topographical			
	Pavement Design, Drainage.			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
LEARNING OUTCOME-3.2	Able to manipulate rail alignment.			
CONTENTS	Survey for track alignment, Traffic Survey, Reconnaissan survey or final location survey.			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
COURSE OUTCOME-4	Able to comprehend the work of general constructiona			
LEARNING OUTCOME-4.1	Able to comprehend the construction of bridges.			
CONTENTS	SIMPLE CONSTRUCTION DETAIL OF BRIDGES :- Compone of Bridge. Slab Bridge, T-beem and Slab Bridge, Suspens			
METHOD OF ASSESSMENT	Internal: Mid Semester Exam - Pen paper test/Assignme			
LEARNING OUTCOME-4.2	Able to dsecribe the purpose of various types of dams.			
CONTENTS	Purpose of dams. Earthen Dam & Gravity Dam			
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test			
COURSE OUTCOME-5	Able to estimate the economical aspect of construction			
LEARNING OUTCOME 5.1	Able to estimate the Quantities.			
CONTENTS	Introduction – Main items of work-calculation of quantice cement concrete, R.C.C., Doors, Windows, Flooring, Whi			

METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test
LEARNING OUTCOME 5.2	Able to prepare cost analysis.
CONTENTS	Factors affecting rates – importance – Materials for diffe of Rates for cement concrete, R.C.C., brick masonry, Sto block masonry, Plastering, Painting, Flooring, Road work
METHOD OF ASSESSMENT	External : End semester Examination-Pen Paper Test

) MINE SURVEYING

	FORMAT 3	SHEET NO1		
Engineering	SEMESTER -IV		Teaching Hours	Marks
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f bricks.				
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lection of stone for different civi	l works, coarse and f	ïne		
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t & Field test on cement. Je to alloying, impurities in stee	STEEL & S l,steel alloy, defect ir			
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vatives, seasoning of timber				
ion			5	5
ng capacity, type of foundation, s o give layout, different terms, c oint.				
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e of stone masonary, dry stone masonry,

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t, grade & strength of concrete, nominal mix controlled ment ratio, test for compressive strength of concrete, factor nt in concrete, R.C.C.& P.C.C.	S	
or road and rail setup.	10	10
Topographical survey - Establishing survey, Cross-section Surveys. Design criteria - Geometric Design,	5	
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ce survey-instrument.Preliminary survey-instrument, Detail		
I details of bridge & dam.	5	5
ents of Culverts- causeways. Type ion Bridge.	e	
ent.	6	10
work	5	5

ties earth work, stone masonry, brick masonry, plastering, ite washing, Distempering and their units.

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erent items of work – Rates of materials and labour – analysis ne masonry, Hollow

s, Sanitary Works, Water supply works and Electrical works.

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