









#### Lesson Plan & Work-done Diary for AY: 2024-25, ODD Semester

Course with Code: Engineering Geology – BCV303			Faculty: NAMITHA .A.P		Semester & Section: 3 <sup>rd</sup> A			
Module	Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
	1		Introduction, the scope of earth science in Engineering. Earths internal dynamics			Introduction, the scope of earth science in Engineering. Earths internal dynamics		
	2		Plate tectonics,			Plate tectonics,		
MODULE-1	3	Earth quakes types, causes isoseismal line				Earth quakes types, causes isoseismal line		
	4		seismic zonation map, seismic proof structures			seismic zonation map, seismic proof structures		
	5		Numerical problems on location of epicenter			Numerical problems on location of epicenter		
	6		Volcanic eruption, types, causes			Volcanic eruption, types, causes		
	7		landslides, causes types, preventive measures;			landslides, causes types, preventive measures;		
	8		Tsunamis causes consequences, mitigation			Tsunamis causes consequences, mitigation		
MC	9		cyclones, causes management			cyclones, causes management		
	10		Earth Materials in Construction Minerals -Industrial, rock forming			Earth Materials in Construction Minerals -Industrial, rock forming		











		and ore minerals.	and ore minerals.
LE-2	11	Minerals -Industrial, rock forming and ore minerals.	Minerals -Industrial, rock forming and ore minerals.
	12	Minerals -Industrial, rock forming and ore minerals.	Minerals -Industrial, rock forming and ore minerals.
	13	Physical properties, composition and uses Rocks as a construction materials	Physical properties, composition and uses Rocks as a construction materials
MODULE-2	14	physical properties, texture, composition, applications for aggregate, decorative	physical properties, texture, composition, applications for aggregate, decorative
	15	railway ballast, rocks for masonry work, monumental/architecture, rocks as aquifers,	railway ballast, rocks for masonry work, monumental/architecture, rocks as aquifers,
	16	water bearing properties igneous, sedimentary	water bearing properties igneous, sedimentary
MODULE-3	17	Earth Surface process and Resources Weathering type, causes, soil insitu, drifted soil	Earth Surface process and Resources Weathering type, causes, soil insitu, drifted soil
	18	Soil profile, soil mineralogy	Soil profile, soil mineralogy
	19	structure, types of soil, Black cotton soil v/s Lateritic soil	structure, types of soil, Black cotton soil v/s Lateritic soil
	20	Effects of weathering on monumental rocks	Effects of weathering on monumental rocks











Course with Code:					Faculty:		Semester & Section:4	
Module	Class No.	Date planned (DD/MM)	Topics to be covered	TLP Planned	Date of Conduction (DD/MM)	Topics Covered	TLP Executed	Remarks if any deviation
	21		River morphology			River morphology		
	22		River morphology and basin investigation for engineering Projects like earthen dam, gravity dam, arch dam.			River morphology and basin investigation for engineering Projects like earthen dam, gravity dam, arch dam.		
	23		Features of river erosion, deposition and their influences on river valley projects.			Features of river erosion, deposition and their influences on river valley projects.		
	24		morphometric analysis of river basin, selection of site for artificial recharge			morphometric analysis of river basin, selection of site for artificial recharge		
	25		Interlinking of river basins, coastal process and landforms, sedimentation/siltation, erosion.			Interlinking of river basins, coastal process and landforms, sedimentation/siltation, erosion.		
	26		Surface and Subsurface investigation for deep foundation			Surface and Subsurface investigation for deep foundation		
MODULE-4	27		Borehole data(and problems)			Borehole data(and problems)		
	28		Dip and strike,			Dip and strike,		
	29		outcrop problems(numerical problem geometrical/ simple trigonometry based)			outcrop problems(numerical problem geometrical/ simple trigonometry based)		









	30	Electrical Resistivity meter, depth of water table, (numerical problems).	Electrical Resistivity meter, depth of water table, (numerical problems).	
	seismic studies, faults, folds, unconformity, joints types		seismic studies, faults, folds, unconformity, joints types	
	32	faults, folds, unconformity, joints types, recognition and their significance in Civil engineering projects like tunnel project, dam project	faults, folds, unconformity, joints types, recognition and their significance in Civil engineering projects like tunnel project, dam project	
	33	Ground improvements like rock bolting, rock jointing, grouting.	Ground improvements like rock bolting, rock jointing, grouting.	
	34	Modern Tools and geophysical methods	Modern Tools and geophysical methods	
	35	Rocks as aquifers,	Rocks as aquifers,	
	36	water-bearing properties igneous rocks	water-bearing properties igneous rocks	
MODULE-5	37	water-bearing properties sedimentary and metamorphic rocks	water-bearing properties sedimentary and metamorphic rocks	
M	38	coefficient of permeability, factors affecting permeability	coefficient of permeability, factors affecting permeability	
	39	Electrical Resistivity meter	Electrical Resistivity meter	
	40	depth of water table, (numerical problems),	depth of water table, (numerical problems),	
	41	Revision	Revision	
	42	Unit Test		
	43	Revision		









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	Activity	Planned	Actual	Remarks	
1	Theory Classes	45	40		
2	Assignments/Quizzes/ Self study	3/4	3		
3	Tutorials/ Extra classes	-	5		
4	Internal Assessments	3	3		
5	ICT based Teaching (% of usage in Curriculum)	80%	80%		
	Planning		Execution		
Faculty Signature:			Faculty Signature:		
HoD Sigr	nature:		HoD Signature:		











