



SYNERGY SCHOOL OF ENGINEERING, DHENKANAL
LAB LESSON PLAN & PROGRESS
SESSION 2026-2027 (WINTER)
DEPARTMENT OF CIVIL ENGINEERING

Discipline: Civil Engineering	Semester: 3rd/Winter 2026	Name of the Faculty: Kuhudi Biswal Email: kuhudibiswal789@gmail.com
Subject: Transportation Engineering Lab	No. of Days/week class: 04	Start Date: 01/11/26 End Date: 05/11/26

No. of Week	No. of Lab Classes	Topics to be Taught	Date of Delivery	
			G1	G2
1st	1st	Flakiness and Elongation Index of aggregates.		
	2nd	Flakiness and Elongation Index of aggregates.		
2nd	1st	Determination of Crushing strength, of Aggregates		
	2nd	Determination of Crushing strength, of Aggregates		
3rd	1st	Determination of Impact of Aggregates		
	2nd	Determination of Impact of Aggregates		
4th	1st	Determination of Abrasion value of Aggregates		
	2nd	Determination of Abrasion value of Aggregates		
5th	1st	Angularity Number of aggregates.		
	2nd	Angularity Number of aggregates.		
6th	1st	Softening point test of bitumen.		
	2nd	Softening point test of bitumen.		
7th	1st	Penetration test of bitumen.		
	2nd	Penetration test of bitumen.		
8th	1st	Flash and Fire Point test of bitumen.		
	2nd	Flash and Fire Point test of bitumen.		
9th	1st	Ductility test of Bitumen.		
	2nd	Ductility test of Bitumen.		
10th	1st	Determination of Viscosity of bitumen		
	2nd	Determination of Viscosity of bitumen		
11th	1st	Determination of bitumen content using centrifuging extractor.		
	2nd	Determination of bitumen content using centrifuging extractor.		
12th	1st	Determination of stability and flow of bitumen using Marshal stability apparatus		
	2nd	Determination of stability and flow of bitumen using Marshal stability apparatus		

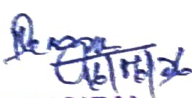
Kuhudi Biswal
11/11/26



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13th	1st	Visit the constructed road for visual inspection to identify defects and suggest remedial measures.		
	2nd	Visit the constructed road for visual inspection to identify defects and suggest remedial measures.		
14th	1st	Visit the road of any one type (flexible or rigid) to know the drainage condition.		
	2nd	Visit the road of any one type (flexible or rigid) to know the drainage condition.		
15th	1st	CBR Test of aggregates		
	2nd	CBR Test of aggregates		


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