

LESSON PLAN OF CEPC211 PR:1 Transportation Engineering Lab FOR THE SEMESTER 2024-25
 26(WINTER-2025) BATCH-2024-27, GOVT. POLYTECHNIC, KANDHAMAL



Discipline: civil engineering	Semester: 3rd	Name of the Teaching Faculty: Gouranga Charan Pradhan, Sr. Lect. in Civil Engg.
Subject: CEPC211 PR:1 Transportation Engineering Lab	No. of days/ per week class allotted: 4	Semester From Date : 14/07/2025 to Date: 15/11/2025 No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics (as per Blooms Taxonomy)
1st	1st	1. Flakiness and Elongation Index of aggregates.
	2nd	1. Flakiness and Elongation Index of aggregates.
	3rd	1. Flakiness and Elongation Index of aggregates.
	4th	1. Flakiness and Elongation Index of aggregates.
2nd	1st	2. Determination of Crushing strength, of Aggregates
	2nd	2. Determination of Crushing strength, of Aggregates
	3rd	2. Determination of Crushing strength, of Aggregates
	4th	2. Determination of Crushing strength, of Aggregates
3rd	1st	3. Determination of Impact of Aggregates
	2nd	3. Determination of Impact of Aggregates
	3rd	3. Determination of Impact of Aggregates
	4th	3. Determination of Impact of Aggregates
4th	1st	4. Determination of Abrasion value of Aggregates
	2nd	4. Determination of Abrasion value of Aggregates
	3rd	4. Determination of Abrasion value of Aggregates
	4th	4. Determination of Abrasion value of Aggregates
5th	1st	5. Angularity Number of aggregates.
	2nd	5. Angularity Number of aggregates.
	3rd	5. Angularity Number of aggregates.
	4th	5. Angularity Number of aggregates.
6th	1st	6. Softening point test of bitumen.
	2nd	6. Softening point test of bitumen.
	3rd	6. Softening point test of bitumen.
	4th	6. Softening point test of bitumen.
7th	1st	7. Penetration test of bitumen.
	2nd	7. Penetration test of bitumen.
	3rd	7. Penetration test of bitumen.
	4th	7. Penetration test of bitumen.
8th	1st	8. Flash and Fire Point test of bitumen.
	2nd	8. Flash and Fire Point test of bitumen.
	3rd	8. Flash and Fire Point test of bitumen.
	4th	8. Flash and Fire Point test of bitumen.
9th	1st	9. Ductility test of Bitumen.
	2nd	9. Ductility test of Bitumen.
	3rd	9. Ductility test of Bitumen.
	4th	9. Ductility test of Bitumen.
10th	1st	10. Determination of Viscosity of bitumen
	2nd	10. Determination of Viscosity of bitumen

	3rd	10. Determination of Viscosity of bitumen
	4th	10. Determination of Viscosity of bitumen
11th	1st	11. Determination of bitumen content using centrifuging extractor
	2nd	11. Determination of bitumen content using centrifuging extractor
	3rd	11. Determination of bitumen content using centrifuging extractor
	4th	11. Determination of bitumen content using centrifuging extractor
12th	1st	12. Determination of stability and flow of bitumen using Marshal stability apparatus
	2nd	12. Determination of stability and flow of bitumen using Marshal stability apparatus
	3rd	12. Determination of stability and flow of bitumen using Marshal stability apparatus
	4th	12. Determination of stability and flow of bitumen using Marshal stability apparatus
13th	1st	13. Visit the constructed road for visual inspection to identify defects and suggest remedial measures.
	2nd	13. Visit the constructed road for visual inspection to identify defects and suggest remedial measures.
	3rd	13. Visit the constructed road for visual inspection to identify defects and suggest remedial measures.
	4th	13. Visit the constructed road for visual inspection to identify defects and suggest remedial measures.
14th	1st	14. Visit the road of any one type (flexible or rigid) to know the drainage condition.
	2nd	14. Visit the road of any one type (flexible or rigid) to know the drainage condition.
	3rd	14. Visit the road of any one type (flexible or rigid) to know the drainage condition.
	4th	14. Visit the road of any one type (flexible or rigid) to know the drainage condition.
15th	1st	15. CBR Test of aggregates
	2nd	15. CBR Test of aggregates
	3rd	15. CBR Test of aggregates
	4th	15. CBR Test of aggregates

R. Pradeep
14/12/2025

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