GOVERNMENT POLYTECHNIC, SAMBALPUR (RENGALI) NAME OF THE FACULTY: Miss. Pinky Sahu (PTGF), Civil Enginee ing

LESSION PLAN OF HIGHWAY ENGG.(TH-4) 4TH SEM, CIVIL ENGG FOR SUMMER 2022 W.E.F. 10.03.2022

DATE	WI		PERIOD ASSIGNE PER TOP	D AVAILABL
10.03.2 TO 12.03.2	W	Introduction 1.1 Importance of Highway transportation: importance organizations like Indian roads congress, Ministry of Surface Transport, Central Road Research Institute. 1.2 Functions of Indian Roads Congress 1.3 IRC classification of roads 1.4 Organisation of	nistry of Surface 1.2 Functions of Indian	.5
14.03.22 TO W- 17.03.22		2.0-Road Geometrics. 2.1- Glossary of term used in geometriec and right of way formation width, road margin,		5
21.03.22 TO 26.03.22	W	2.2 Design and average running speed, stopp distance elevation, Methods o f providing su		5
28.03.22 To 02.04.22	W-	2.3 Necessity of curves, horizontal and vertice transition curves and super	cal curves including 8	5
11.04.22 TO 16.04.22	W-!	3 Road Materials 3.1 Difference types of roa aggregates, and binders 3.2 Function of soil a		5
18.04.22 TO 23.04.22	W-6	3.3 California Bearing Ratio: methods of findi laboratory and at site and their significance 3.4 Testing aggregates: Abrasion	ng CBR valued in the	5
25.04.22 TO 30.04.22	W-7	Road Pavements 4.1 Road Pavement: Flexible and rigid pavement demerits, typical cross-sections, functions of various cor Flexible pavements:	4	5
02.05.22 TO 07.05.22	W-8	4.2 Sub-grade preparation: Setting out alignment of road, setting out ben for embankment and cutting, borrow pits, making	5	5
09.05.22 TO .4.05.22	W-9	1.3 Sub base Course: Necessity of sub base, staburpose of stabilization (no designs) Types of sub dechanical stabilization It ime stabilization It is as tabilization 4.4 Base Course: Preparati	stabilization 2 Cement stabilization 2 4	5

17.05.22 TO 21.05.22	W-10	4.5 Surfacing: 2 Surface dressing (i) Premix carpet and (ii) Semi dense carpet 2 Bituminous concrete 2 Grouting 4.6 Rigid Pavements: Concept of concrete roads as per IRC specifications	4	4
23.05.22 TO 28.05.23	W-11	Hill Roads: 5.1 Introduction: Typical cross-sections showing all details of a typical hill road in cut, partly in cutting and partly in filling 5.2 Breast Walls, Retaining walls, different types of bends	3	5
31.05.22 TO 04.06.22	W-12 Location, spacing and typical details of side drains, side ditches for		3	5
06.06.22 TO 11.06.22	W-13	Road Maintenance: 7.1 Common types of road failures – their causes and remedies 7.2 Maintenance of bituminous road such as patch work and resurfacing		5
13.06.22 TO 18.06.22	W-14 maintenance of shoulders (berm), maintenance of traffic control		3	5
20.06.22 TO 25.06.22	10 W-15 dumpers shovels graders roller dragling.		4	5
27.06.22 TO 30.06.22	W-16	8.3 Asphalt mixer and tar boilers 8.4 Road pavers 8.5 Modern construction equipments for roads.	3	5

Signature of Concerned Faculty

C/S Signature of Senior Lect./ HOD