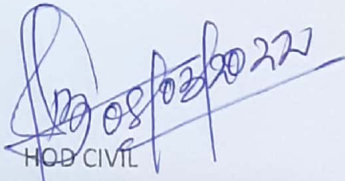


LESSON PLAN (SUMMER-2022)		
SUBJECT - <u>CONCRETE TECHNOLOGY-Th-4(a),</u> SEMESTER- <u>6TH SEM CIVIL</u>		
FACULTY- <u>ER.SASHIDHAR BEHERA (HOD)</u>		
DATE	NO OF CLASS ES	TOPIC TO BE COVER
<u>CHAPTER-1-Concrte as a construction material.</u>		
10.03.2022	1	Grades of concrete, Advantages & disadvantages of concrete.
11.03.2022	1	Question answer discussion.
<u>CHAPTER-2-Cement</u>		
15.03.2022	1	Composition,hydration of cement,water cement ratio.
16.03.2022	1	Compressive strength,fineness of cement,soundness,setting time.
17.03.2022	1	Types of cement,Question answer discussion.
22.03.2022	1	Monthly test.-MARCH
<u>CHAPTER-3- Aggregate,Water and Admixtures</u>		
23.03.2022	1	Classification and characteristic of aggregate,fineness modulus.
24.03.2022	1	Quality of water for mixing and curing ,Grading of aggregate IS-383 .
25.03.2022	1	Important functions and classification of admixtures-IS-9103
29.03.2022	1	Accelerating admixtures, Retarding admixtures.
30.03.2022	1	Water reducing admixtures, Air containing admixtures.
31.03.2022	1	Question answer discussion.
<u>CHAPTER-4-Properties of fresh concrete</u>		
05.04.2022	1	Concept of fresh concrete, workability.
06.04.2022	1	Slump cone test,compaction factor test.
07.04.2022	1	V-bee consistency test,Flow table test.
08.04.2022	1	Requirement of workability IS-1199
12.04.2022	1	Question answer discussion.
<u>CHAPTER-5-Properties of hardened concrete</u>		
13.04.2022	1	Cube and cylinder compressive strength , Flexural strength of concrete
19.04.2022	1	Stress strain, elasticity ,Pheonomena of creep and shrinkage.
20.04.2022	1	Permeability,durability of concrete.
21.04.2022	1	Sulphate,chloride,acid attack on concrete and efflorescence.
22.04.2022	1	Question answer discussion.
26.04.2022	1	Monthly test.-APRIL
<u>CHAPTER-6-Concrete mix Design</u>		
27.04.2022	1	Introduction,data or input required for mix design.
28.04.2022	1	Nominal mix concrete and design mix concrete.
29.04.2022	1	Basic consideration of concrete mix design.
04.05.2022	1	Methods of proportioning concrete mix-IS code method -IS 10262
05.05.2022	1	Question answer discussion.
<u>CHAPTER-7-Production of Concrete</u>		
06.05.2022	1	Batching of materials,mixing of raw materials ,transportation.
10.05.2022	1	Placing of concrete, compaction of concrete,Curing of concrete.

11.05.2022	1	Formwork-Requirements and types.
12.05.2022	1	Stripping of forms (Concepts only), Question answer discussion.
CHAPTER-8-Inspection and Quality Control of Concrete		
13.05.2022	1	Quality control of concrete,Factors causing the variations in the quality.
17.05.2022	1	Mixing,Transporting,placing & curing requirement as per 456-2000
18.05.2022	1	Inspection and Testing and durability as per Clause 17 of IS 456-2000
19.05.2022	1	Question answer discussion.
CHAPTER-9-Special Concrete		
20.05.2022	1	Introduction of redy mix concrete, High performance concrete
24.05.2022	1	Sillica fume concrete , shot-crete concrete or gunnitting.
25.05.2022	1	Question answer discussion.
26.05.2022	1	Monthly test-MAY
CHAPTER-10-Deterioration of Concrete and its prevention.		
27.05.2022	1	Types of deterioration, Prevention of concrete deterioration
31.05.2022	1	corrosion of reinforcement, corrosion effects.
01.06.2022	1	Corrosion prevention.
02.06.2022	1	Question answer discussion.
CHAPTER-11-Repair technology for concrete structures.		
03.06.2022	1	Symptom,cause and prevention and remedy of defects during construction
07.06.2022	1	Cracking of concrete due to different reasons
08.06.2022	1	Repair of cracks for different purpose,selection of techniques.
09.06.2022	1	Polymer based repairs,common types of repairs
10.06.2022	1	Monthly test-JUNE
TOTAL	49	
<div style="text-align: right;">  HOD CIVIL OSME KEONJHAR </div>		