

Department of Civil Engineering  
II B.Tech II SEM, CT, section A 2015-16  
LESSON PLAN G.DURGA RAMA NAIDU

Period	Date	Topic	Unit No	Teaching Methodology	Cumulative Periods
1,3	23-12-2015	Introduction of concrete technology subject, its applications, importance, new phases in concrete technology	1	C.R	2
1,2	25-12-2015	Introduction of 1 <sup>st</sup> unit, Portland cement, its history, importance, raw materials, types of Portland cement	1	C.R	4
1,3	30-12-2015	Chemical composition and manufacturing process of cement	1	C.R	6
1,2	6-1-2016	Hydration and setting of cement	1	C.R	8
1,3	8-1-2016	Structure of hydrate of cement And some physical tests on cement	1	C.R	10
1,2	20-1-2016	Admixtures – types, uses and composition	1	C.R	12
1,3	22-1-2016	Introduction of 2 <sup>nd</sup> unit – importance of aggregate, their origin and properties	2	C.R	14
1,2	27-1-2016	Classification of aggregates and mechanical properties	2	C.R	16
1,3	29-1-2016	Sieve analysis Fineness modulus, grades, curves	2	C.R	18
1,2	10-2-2016	Workability – factors effecting workability, and measurement of workability	2	C.R	20
1,3	12-2-2016	Setting time of concrete and effect of temperature on concrete	2	C.R	22
1,2	17-2-2016	Stages in manufacturing of concrete and quality checking	2	C.R	24
1,3	24-2-2016	Introduction of Harden concrete	3	C.R	26
1,2	26-2-2016	Water cement ratio –Abrams law, gelspace ratio.	3	C.R	28
1,3	2-3-2016	Strength of the harden concrete- gaining of strength at different stages , maturity concept of concrete	3	C.R	30
1,2	4-3-2016	relation of compressive and tensile strength and about curing	3	C.R	32
1,3	9-3-2016	Tests on harden concrete- two tests	3	C.R	34
1,2	11-3-2016	Tests on harden concrete – another – two tests	3	C.R	36
1,3	16-3-2016	NDT tests – code provisions ,	3	C.R	38
1,2	18-3-2016	Introduction of elasticity, creep, shrinkage	4	C.R	40

1,3	23-3-2016	Concept of elasticity of modulus and dynamic modulus of elasticity	4	C.R	42
1,2	30-3-2016	Concept of creep of concrete- factors influencing the creep, relation between creep and time	4	C.R	44
1,3	1-4-2016	Nature of creep , effects of creep, concept of shrinkage , types of shrinkage	4	C.R	46
1,2	6-4-2016	Remedies of to control creep and shrinkage	4	C.R	48
1,3	8-4-2016	Introduction of 5 <sup>th</sup> unit- about mix design, importance, different codes used for mix design	5	C.R	50
1,2	13-4-2016	Calculation of water cement ratio and deciding zones	5	C.R	52
1,3	15-4-2016	Mix design calculation step wise with reference code books	5	C.R	54
1,2	20-4-2016	Mix design calculations of M15	5	C.R	56
1,3	22-4-2016	Mix design calculations of M20	5	C.R	58

NOTE: C.R- Class Room Teaching (Black board, PPT)

  
Signature