IES COLLEGE OF TECHNOLOGY, BHOPAL M. TECH. (^{3RD} SEM) Assignment -1

Fatigue Fracture Analysis

MMMD – 301 (A) (UNIT 1 TO 2.5)

Note: 1.Question should be written in plain A-4 Size Paper.

2. Minimum 300 Word Limit for each Question.

3. Assignment will submit in stick file.

DATE OF ASSIGN: 17/10/2014

DATE OF SUBMISSION: 7/11/2014

Q.1	Define Concepts of fatigue faliure, statistical methods. Endurance limit, S.N.diagram. (RGPV2009,10)
Q.2	Effect of frequency of the cyclic stress, effect of temperature, size, form, surface condition, surface protection, residual stresses environment(corrosion fatigue) (RGPV2008,10)
Q.3	Explain Mechanisms of creep, Transient creep? (RGPV2012)
Q.4	Define viscous creep. creep fractures, Anaysis of creep curves, stress relaxation, creep tests. (RGPV2010)
Q.5	Exlain effect of temperature, size, form, surface condition, surface protection, residual stresses environment on fatigue? (RGPV2012,13)

IES COLLEGE OF TECHNOLOGY, BHOPAL M. TECH. (^{3RD} SEM) Assignment -1

Fluid Film Lubrication

MMMD - 302 (UNIT 1 TO 2.5)

Note: 1.Question should be written in plain A-4 Size Paper.

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DATE OF ASSIGN: 17/10/2014

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Q.1	Classification or Bearings along with figures. (RGPV2009,10)
Q.2	Explain theory of hydrodynamic lubrication. Derivation of generalized Reynolds equations from continuity and momentum equation. (RGPV2008,10)
Q.3	Drive Infinitely long full journal bearin boundary conditions-Full Sommerfeld conditions (RGPV2012)
Q.4	Thermal Equilibrium Extent of fluid film. (RGPV2010)
Q.5	Write Theoretical Analysis, Boundary conditions, Static performance characteristics Load of hydostatic Journal Bearings (RGPV2012,13)