

# IES COLLEGE OF TECHNOLOGY, BHOPAL

M. TECH. (<sup>3RD</sup> SEM) Assignment -1

Otto-Electronics Integrated Circuits

MEVD – 301(A) (UNIT 1 TO 2.5)

**Not: 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	Obtain the transcendental equations for two dimensional waveguides ? Explain wave guide modes? What are mode cutoff conditions? (2012)
Q.2	Explain the Waveguide fabrication by vacuum-deposition method and solution-deposition method? (2010)
Q.3	Discuss the radiation and bending losses in waveguides ? (2010)
Q.4	What is epitaxial growth of III-V compound semiconductor materials? (2011)
Q.5	Write short notes on (i) directional couplers (ii) Fiber to waveguide couplers (ii) ion-exchange and ion-implanted waveguides (2011)

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Communication RF IC Design

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Q.1	Discuss S-Parameter Models? (2010)
Q.2	Explain the trans-receiver Architecture for Wireless Communication Standards? (2011)
Q.3	Explain IMD & Inter-symbol Interface? (2011)
Q.4	Write the application of Smith chart with SWR calculation steps . (2012)
Q.5	Write short notes on (i) Non-Linearity (iii) Cross Modulation (ii) Desensitization (2011)