## I – Btech – II – Semester

## **Subject: Electronic Devices and Circuits**

## Assignment - II

- 1. Explain about the construction and working of enhancement MOSFET.
- 2. Draw and explain voltage divider bias and derive its stability factor S, S', S".
- 3. Draw the h-parameter model for a CE amplifier and derive expression for A<sub>I</sub>, Z<sub>I</sub>, A<sub>V</sub>, A<sub>VS</sub>, A<sub>IS</sub> & Z<sub>0</sub>.
- 4. Find various gains, input and output impedance of CE amplifier with R  $_L$  3 k  $\!\Omega$  and R  $_S$  1 k  $\!\Omega$  .
- 5. Find the voltage gain of common drain amplifier.
- 6. What is thermal resistance? Derive the condition for thermal stability.