

**MANGALORE UNIVERSITY**  
**Department of Physics**  
**MSc Physics**

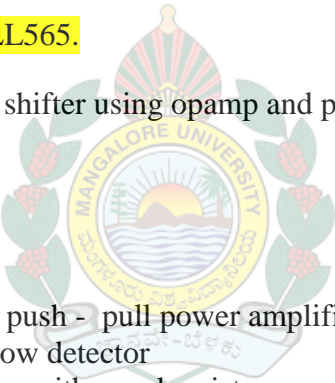
**PHP 511 : ELECTRONICS –PRACTICALS I**

**Course outcome**

CO1 Will be able to design and study the performance of various electronic amplifier circuits.

CO2 Student will have the experimental expertise in IC 311 comparator – window detector, frequency multiplication using PLL565.

CO3 Will be able to design phase shifter using opamp and precision voltage reference.

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1. Two stage CS amplifier
  2. Cascode amplifier
  3. Complimentary symmetry push - pull power amplifier
  4. IC 311 comparator – window detector
  5. Full wave precision rectifier with equal resistors
  6. Frequency multiplication using PLL565
  7. Phase shifter using opamp
  8. Precision voltage reference