



Information Technology Department

Name of Programme:IF

Name of Course:BEE(312302)Summer-2026

ASSIGNMENT NO:4

1)Explain the Construction of PNP transistor and explain how it can be used as amplifier.

2)Explain the working principle of NPN transistor.

3)write down specification of BJT.

4)Advantage Disadvantages and application of transistor.

5)Draw and explain the input output characteristics of CB,CE,CC configuration.

6)Comparison between CE,CB,CC

7)Draw and describe the region of transistor.

A)Active region

B)Saturation region

C)cut-off region

8)why FET called as unipolar device.

9)Explain the working principle of N channel JFET.

10)Comparison between BJT and FET.

Last Date of submission:-9/03/2026

Name of course coordinator:-Mrs Darshana sadafule.



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ASSIGNMENT NO:3

- 1) write down the working principle of zener diode.**
- 2)Comparison between Avalanche breakdown and zener breakdown.**
- 3)write down the working principle of LED.**
- 4)Explain the types of filter.**
- 5)write down issue with the power line system.**
- 6)working principle of on-line ups and off line ups.**
- 7)Comparison between online ups and offline ups.**

Last Date of submission:-16/02/2025

Name of course coordinator:-Mrs Darshana sadafule.



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ASSIGNMENT NO:2

- 1) Explain the working principle of transformer.**
- 2) write down application of transformer.**
- 3) Explain the types of DC motor.**
- 5) Application of DC motor.**
- 6) write down the advantage s of universal motor.**
- 7) write the short note on compensated and uncompensated of universal motor.**
- 8) Define emf ratio,Voltage ratio,and current ratio.**
- 9) Explain the hysteresis loss and how to reduce hysteresis losses.**

Last Date of submission:-07/01/2026

Name of course coordinator:-Mrs Darshana sadafule.



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ASSIGNMENT NO:1

- 1) Explain the magnetic circuit and Electric circuit.**
- 2) Comparison between magnetic circuit and electric circuit.**
- 2) Explain the series magnetic circuit and parallel magnetic circuit.**
- 3) Explain the Faraday's first law,second law and Len's law.**
- 4) List and explain the two types of induced emf.**
- 5) Comparison between AC and DC.**
- 6) Define the terms of waveform, cycle,period, amplitude, frequency and peak value.**
- 7) Comparison three phase system and single phase system.**
- 8) Define and explain balance load and unbalanced load.**
- 9) Explain the Star connection.**
- 10) Explain the delta connection.**

Last Date of submission:-05/01/2026

Name of course coordinator:-Mrs Darshana sadafule.

