GALGOTIAS COLLEGE OF ENGINEERING AND TECHNOLOGY

1, Knowledge Park-II, Greater Noida, U.P.
Department of Electrical Engineering

Innovation in Teaching

Subject: Electric Drives (NEE-701)

Odd Sem: 2018-19 (7th Sem/IVth Year -EE)

Surprise Test 1

Fundamentals of Electric Drives

1.With the help of block diagram explain the working of an electric drive.

2.Explaing the meaning of group drive and individual drive with examples. Also give their advantages and drawbacks.

3.Exlain different speed-torque conventions.

4.Explain Multiquadrant operation of an electric drive.

5.Discuss different types of load torques along with their speed-torque characteristics. Also give examples of each type.

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Surprise Test 2

Dynamics of Electric Drives and Selection of Motor Power Rating

1.Derive the condition of transient stability of electric drive.

2.Derive the Thermal model of motor for heating.

3.Derive the Thermal model of motor for cooling.

4.Discuss different classes of motor duty.

5.Discuss the requirement of load equalization.

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Surprise Test 3

Electric Braking

1. Discuss advantages of electric braking.

2.Discuss dynamic braking of dc motor.

3.Discuss plugging of dc motor.

4.Discuss plugging of induction motor.

5.Discuss regenerative braking of dc motor.