

# GURU NANAK DEV ENGINEERING COLLEGE, BIDAR

DEPARTMENT OF ELECTRICAL AND ELECTRONICS DEPARTMENT

## E learning

Faculty Name:- Dr. Neelshetty K

| Sl.No | Semester | Course                             | Topic                                     | Youtube links   |
|-------|----------|------------------------------------|---|---|
| 1     | IV       | Transformer<br>s and<br>Generators | Transformer working                       | <a href="https://www.youtube.com/watch?v=tiKH48EMgKE">https://www.youtube.com/watch?v=tiKH48EMgKE</a> |
|       |          |                                    | Voltage regulation by EMF and MMf methods | <a href="https://www.youtube.com/watch?v=JsD0RUJXIY0">https://www.youtube.com/watch?v=JsD0RUJXIY0</a> |
|       |          |                                    | Voltage regulation by ZPF method          | <a href="https://www.youtube.com/watch?v=uRey9ZFvFRQ">https://www.youtube.com/watch?v=uRey9ZFvFRQ</a> |

Faculty Name: - Shubha.S

| Sl.No | Semester | Course                             | Topic                                  | YouTube links   |
|-------|----------|------------------------------------|--|---|
| 1     | III      | Digital System Design.<br>(18EE35) | Problems on 3 variable K Map.          | <a href="https://www.youtube.com/watch?v=EznCqZ1eh5Q">https://www.youtube.com/watch?v=EznCqZ1eh5Q</a>                       |
|       |          |                                    | Introduction to Encoders and Decoders. | <a href="https://www.youtube.com/watch?v=feBvhLFQEDk">https://www.youtube.com/watch?v=feBvhLFQEDk</a>                       |
|       |          |                                    | Latches and flipflops.                 | <a href="https://www.youtube.com/watch?v=1uiURW5FdD8">https://www.youtube.com/watch?v=1uiURW5FdD8</a>                       |
|       |          |                                    | Mealy and Moore Circuits.              | <a href="https://www.youtube.com/watch?v=O3If0Nr9to0">https://www.youtube.com/watch?v=O3If0Nr9to0</a>                       |
| 2     | V        | Signals and Systems.<br>(18EE54)   | Classification of signals.             | <a href="https://www.youtube.com/watch?v=M3DLpradBNE">https://www.youtube.com/watch?v=M3DLpradBNE</a>                       |
|       |          |                                    | Basic Operations on Signals.           | <a href="https://www.youtube.com/watch?v=hFWWh0qk5Ik&amp;t=138s">https://www.youtube.com/watch?v=hFWWh0qk5Ik&amp;t=138s</a> |
|       |          |                                    | Fourier transforms.                    | <a href="https://www.youtube.com/watch?v=lkAvgVUvYyY">https://www.youtube.com/watch?v=lkAvgVUvYyY</a>                       |
|       |          |                                    | ROC Properties.                        | <a href="https://www.youtube.com/watch?v=a05UJmw5wak&amp;t=43s">https://www.youtube.com/watch?v=a05UJmw5wak&amp;t=43s</a>   |

Faculty Name:- MEGHA

| Sl. No. | Semester | Course                       | Topic                                 | You tube links  |
|---------|----------|------------------------------|---------------------------------------|---|
| 1       | I        | Basic Electrical Engineering | Generation of single phase AC voltage | <a href="https://www.youtube.com/watch?v=JacIpaN73A">https://www.youtube.com/watch?v=JacIpaN73A</a> |

|   |    |                                |  |   |
|---|----|--------------------------------|--|---|
|   |    |                                | Generation of three phase AC voltage       | <a href="https://youtu.be/55ONS6Brgzw">https://youtu.be/55ONS6Brgzw</a>   |
|   |    |                                |  |   |
|   |    |                                |  |   |
| 2 | IV | Power Generation and Economics | Water turbines                             | <a href="https://youtu.be/rf9megw2SQA">https://youtu.be/rf9megw2SQA</a><br><a href="https://youtu.be/0p03UTgpnDU">https://youtu.be/0p03UTgpnDU</a><br><a href="https://youtu.be/3BCiFeykRzo">https://youtu.be/3BCiFeykRzo</a> |
|   |    |                                | Working of steam turbine                   | <a href="https://youtu.be/IdPTuwKEfma">https://youtu.be/IdPTuwKEfma</a>   |
|   |    |                                | Elements of diesel power plants            | <a href="https://youtu.be/eAX_fK_c8Mc">https://youtu.be/eAX_fK_c8Mc</a>   |
|   |    |                                | Elements of simple gas turbine power plant | <a href="https://youtu.be/zcWkEKNvqCA">https://youtu.be/zcWkEKNvqCA</a>   |

**Faculty Name:- Durga Prasad**

| Sl.No | Semester | Course                       | Topic  | Youtube links   |
|-------|----------|------------------------------|--|---|
| 1     | IV       | Electric Motors              | RMF in Induction Motor   | <a href="https://www.youtube.com/watch?v=55ONS6Brgzw">https://www.youtube.com/watch?v=55ONS6Brgzw</a> |
|       |          |                              | Construction Circle Diagram of IM                              | <a href="https://www.youtube.com/watch?v=8epo5lw9ntI">https://www.youtube.com/watch?v=8epo5lw9ntI</a> |
|       |          |                              | Construction Circle Diagram of IM                              | <a href="https://www.youtube.com/watch?v=146esHnGnn4">https://www.youtube.com/watch?v=146esHnGnn4</a> |
|       |          |                              | DC Motors construction   | <a href="https://www.youtube.com/watch?v=RYrKgCqzsVk">https://www.youtube.com/watch?v=RYrKgCqzsVk</a> |
| 2     | I/II     | Basic Electrical Engineering | 3 phase power measurement using two wattmeter method practical | <a href="https://www.youtube.com/watch?v=5cfafCeejBk">https://www.youtube.com/watch?v=5cfafCeejBk</a> |
|       |          |                              | Line & Phase quantities of 3 phase star connected load         | <a href="https://www.youtube.com/watch?v=43bXSt-Y_PM">https://www.youtube.com/watch?v=43bXSt-Y_PM</a> |
|       |          |                              | DC Motors construction   | <a href="https://www.youtube.com/watch?v=RYrKgCqzsVk">https://www.youtube.com/watch?v=RYrKgCqzsVk</a> |

**Faculty Name: Rohini D**

| Sl.No | Semester | Course                       | Topic                                | Youtube links   |
|-------|----------|------------------------------|--------------------------------------|---|
| 1.    | IV       | Electromagnetic field theory | Uniqueness Theorem                   | <a href="https://youtu.be/wCWPwdhnaRY">https://youtu.be/wCWPwdhnaRY</a>   |
|       |          |                              | Electrostatic Field and Coulombs law | <a href="https://youtu.be/Eb28LmfmoAo?list=PLxldU21bDqMaZghkk1OxO62MKSHkzPU7&amp;t=12">https://youtu.be/Eb28LmfmoAo?list=PLxldU21bDqMaZghkk1OxO62MKSHkzPU7&amp;t=12</a> |

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| 2. | V   | Power Electronics       | Introduction to power electronics       | <a href="https://nptel.ac.in/courses/108/101/108101038/">https://nptel.ac.in/courses/108/101/108101038/</a>                               |
|    |     |                         | IGBT                                    | <a href="https://youtu.be/l4oER1j5arU">https://youtu.be/l4oER1j5arU</a>   |
| 3. | VII | Power System Protection | Introduction to Power System Protection | <a href="https://youtu.be/MYto_YK1SIU?list=RDCMU9UvUCxhf8v0TO5yd9tqgFA">https://youtu.be/MYto_YK1SIU?list=RDCMU9UvUCxhf8v0TO5yd9tqgFA</a> |

**Faculty Name: - T. Vinay Kumar**

| Sl. No | Semester | Course                             | Topic  | Youtube links   |
|--------|----------|------------------------------------|--|---|
| 1      | V        | Microcontroller                    | Interfacing Keyboard with 8051 Microcontroller         | <a href="https://www.youtube.com/watch?v=AvUTg_pVmXE">https://www.youtube.com/watch?v=AvUTg_pVmXE</a>             |
|        |          |                                    | Interfacing 8051 with LCD                              | <a href="https://www.youtube.com/watch?v=z8WpkEdNsq0">https://www.youtube.com/watch?v=z8WpkEdNsq0</a>             |
|        |          |                                    | Interfacing DAC and ADC with 8051 Microcontroller      | <a href="https://www.youtube.com/watch?v=yFliJ6bJUNE">https://www.youtube.com/watch?v=yFliJ6bJUNE</a>             |
|        |          |                                    | Interfacing of Stepper Motor with 8051 Microcontroller | <a href="https://www.youtube.com/watch?v=Xj8QoHL2IPE">https://www.youtube.com/watch?v=Xj8QoHL2IPE</a>             |
| 2      | VI       | Control systems                    | Time response analysis                                 | <a href="https://www.youtube.com/watch?v=ziu1OTwUrbw">https://www.youtube.com/watch?v=ziu1OTwUrbw</a>             |
|        |          |                                    | Analysis of Steady State Error                         | <a href="https://www.youtube.com/watch?v=unMbe40eFdl">https://www.youtube.com/watch?v=unMbe40eFdl</a>             |
|        |          |                                    | Time domain specifications                             | <a href="https://www.youtube.com/watch?v=AttR4ZWVTcs">https://www.youtube.com/watch?v=AttR4ZWVTcs</a>             |
|        |          |                                    | Routh Stability Criterion                              | <a href="https://studio.youtube.com/video/3VD3XKy3wqs/edit">https://studio.youtube.com/video/3VD3XKy3wqs/edit</a> |
|        |          |                                    | Construction of root locus                             | <a href="https://studio.youtube.com/video/fwp_J6eshCk/edit">https://studio.youtube.com/video/fwp_J6eshCk/edit</a> |
| 3      | VII      | Industrial drives and applications | Dynamics of Electrical drives                          | <a href="https://studio.youtube.com/video/erxoX2FyDEU/edit">https://studio.youtube.com/video/erxoX2FyDEU/edit</a> |
|        |          |                                    | Steady state stability                                 | <a href="https://studio.youtube.com/video/Zz_hHmxxpuk/edit">https://studio.youtube.com/video/Zz_hHmxxpuk/edit</a> |