**SKDAV GOVT.POLYTECHNIC, ROURKELA**

**4TH SEM ELECTRICAL ENGINEERING**

**LIST OF YOU TUBE LINK FOR REFERENCE OF THE STUDENTS**

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| **SI.NO** | **SUBJECT** | **TOPIC** | **LINK FOR ONLINE LECTURE VIDEOS** |
| 1 | ENERGY CONVERSION-I | CT AND PT | https://youtu.be/WkFyjsmDWt0 |
| 2 | ENERGY CONVERSION-I | Auto transformer | https://youtu.be/A6KTFaxTs\_k |
| 3 | ENERGY CONVERSION-I | Saving of copper in an autotransformer | https://www.youtube.com/watch?v=hivePSSkhbU |
| 4 | ENERGY CONVERSION-I | single phase transformer- working principle, No-load phasor diagram | https://youtu.be/wFE7J6\_9c6w |
| 5 | ENERGY CONVERSION-I | single phase transformer- On-load phasor diagram | https://youtu.be/i2F2PccTVew |
| 6 | ENERGY CONVERSION-I | Numerical on single phase transformer- On-load, Losses, efficiency, voltage regulation | https://youtu.be/k1OlYAHqdHU |
| 7 | ENERGY CONVERSION-I | Open Circuit Test and Short Circuit Test on Transformer - Single Phase Transformer | https://youtu.be/9hBmgdGjt1Y |
| 8 | ENERGY CONVERSION-I | Time Response of Undamped Second Order System for Step Unit | https://youtu.be/O-ZMhu-aEwI |
| 9 | ENERGY CONVERSION-I | EMF Equation of Transformer - Single Phase Transformer | https://youtu.be/BqetOHEhAGE |
| 10 | ENERGY CONVERSION-I | Construction of Transformer and its Types - Single Phase Transformer | https://youtu.be/-j3W\_RpiWoo |
| 11 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | RTD- Resistance Thermometer | https://youtu.be/Ch-yoilA3xU |
| 12 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Thermistor | https://youtu.be/zFR385M6ag0 |
| 13 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Schering bridge for the measurement of capacitance | https://youtu.be/VBMevfWSLbo |
| 14 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Capacitive Transducers - Construction and Working | https://youtu.be/rrnTdPJpw5A |
| 15 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Linear Variable Differential Transformer (LVDT) - Construction and Working Principle | https://youtu.be/aqTf195SGrU |
| 16 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Cathode Ray Tube | https://youtu.be/nAlwNXSaAR8 |
| 17 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Components of Cathode Ray Oscilloscope (CRO) | https://youtu.be/jJv4\_tcMJqg |
| 18 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | Resistance Strain Gauges | https://youtu.be/MHkcWmbflK8 |
| 19 | GENERATION TRANSMISSION &DISTRIBUTION | Economic Aspects | https://youtu.be/\_HxM6DAYQ4U |
| 20 | GENERATION TRANSMISSION &DISTRIBUTION | Power factor (hindi) and power factor improvement | <https://youtu.be/tON5-bICZog>  https://youtu.be/Dq95iXYeTaw |
| 21 | GENERATION TRANSMISSION &DISTRIBUTION | Murray loop test | https://youtu.be/r6B4jkSJmeM |
| 22 | GENERATION TRANSMISSION &DISTRIBUTION | Varley loop test | https://youtu.be/g-px0IAzyZk |
| 23 | GENERATION TRANSMISSION &DISTRIBUTION | Distribution system | <https://youtu.be/_iz8ZkjD7z8>  https://youtu.be/fx6T4NOQ0U0(hindi) |
| 24 | ANALOG ELECTRONICS & OP-AMP | Operational Amplifiers | <https://youtu.be/clTA0pONnMs>  https://youtu.be/LS8ne40mSTE |
| 25 | ANALOG ELECTRONICS & OP-AMP | Field Effect transistor | <https://youtu.be/4m49vM0Ryt8>  https://youtu.be/g4nBAifUVik |
| 26 | ANALOG ELECTRONICS & OP-AMP | Construction and Working of BJT | https://youtu.be/TJcQ5MovoR4 |

**List of link of video Lectures prepared by the faculties**

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| SI.NO | SUBJECT | TOPIC | LINK FOR ONLINE LECTURE VIDEOS |
| 1 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | WHEASTONE BRIDGE | https://youtu.be/n-7Bc2bls6U |
| 2 | ELECTRICAL MEASUREMENT &INSTRUMENTATION | NUMERICAL ON WHEASTONE BRIDGE | https://youtu.be/RZjqU0Z7XQs |