

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

| Subject | Faculty | Title | Web Link |
|-----------------------|-----------------------|---|---|
| Signals and Systems | Dr. H C Sateesh Kumar | Properties of LTI systems | Video: https://www.youtube.com/watch?v=VqnPPToGJ4I&list=PLm0sJpYTKyCe8MN1vw9XRfvrBaTSsW0oi&index=17 |
| | | Z-Transforms | Video: https://www.youtube.com/watch?v=ssHR_RZht3c&list=PLm0sJpYTKyCe8MN1vw9XRfvrBaTSsW0oi&index=13 |
| | | Convolution of discrete time signals in sequence form | Video: https://www.youtube.com/watch?v=Y7lbbqMY1e8&list=PLm0sJpYTKyCe8MN1vw9XRfvrBaTSsW0oi&index=18 |
| | | Inverse Z-Transform by Long division method | Video: https://www.youtube.com/watch?v=uQS1Qcp_rtl |
| Digital Communication | Prof. Suma C | BFSK signal space diagram, generation and detection | Video: https://youtu.be/WvA6_FHQsKs |
| | | Geometrical representation of signals, Gram schmidt orthogonalization procedure | Video: https://youtu.be/LJGP82sNhu4 |

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| | | .Design of bandlimited signal with controlled ISI, probability of error of digital PAM with zero ISI | Video: https://youtu.be/b3bXOyz-ylM |
| | | Symbol by Symbol detection of data with controlled ISI with problems | Video: https://youtu.be/Ap76rOkINLw |
| | | Channel Equalizers : Linear Equalizers | Video: https://youtu.be/KXeUSkepH_0 |
| | | Digital Communication | Notes: https://drive.google.com/drive/folders/1zis7cNh7LZYsVuzMt-cBpqUkC_X147Vu?usp=sharing |
| Digital system design using verilog | Dr. Sudha M S | Design testing | Video: https://drive.google.com/file/d/1m-5J7nrNa0BoZe80oMYp6WOKD9Qm2f15/view |
| | | Digital system design using verilog | Notes: https://drive.google.com/drive/folders/1kyzUZ6E1Cf6EcxjuNCj2teqIqmKhysIx?usp=sharing |
| Computer network lab | Dr. Sudha M S | Bit stuffing | Video: https://drive.google.com/file/d/1GwnV7-u-T0lb21U2OKoVwr0tQu9e3Shw/view |

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| Analog circuits | Prof. Ravishankar | Analog circuits | Notes: https://drive.google.com/drive/folders/1hg5pn3fDcKD5gFs5AqOnvQAY0rvFQraJ?usp=sharing |
| Fibre optics & networks | Prof. Prathibha P | Fibre optics & networks | Notes: https://drive.google.com/drive/folders/1afpLqGSQo-nqrQr7911E0IVTiV5fTJfl?usp=sharing |
| Basic Electronics | Prof. Rashmi B J | Two transistor model | Video: https://drive.google.com/file/d/1O7y0dMZ6WbrdhYJJh7VZtBOjluHFGGzb/vi ew?usp=sharing |
| | | Basic Electronics | Notes: https://drive.google.com/drive/folders/1uKvUJfoqRoxQ2Hygmr4eHqLTLaUf0ngk?usp=sharing |
| Control systems | Prof. Varshini K | Time response analysis of feedback control systems | Video: https://www.youtube.com/watch?v=pN0hTijY1QM |
| | | Introduction to PD, PI and PID controllers | Video: https://www.youtube.com/watch?v=1tD6VCWY2Zc |

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| | | Concepts of stability and RH criterion | Video: https://www.youtube.com/watch?v=s4jtbqgxJxM |
| | | Problems on root locus | Video: https://www.youtube.com/watch?v=Iz0yQ-cKpYY |
| | | Stability Analysis | Notes: https://drive.google.com/file/d/18n2kjdWZShtEDWVn6Gc4HHE2AVkVSiwX/view |
| | | Time response analysis of feedback control systems: | Notes: https://drive.google.com/file/d/1w9esIEvSzSF5BhJgB_M87BYbbtfhPXUh/view |
| Microcontroller Lab | Prof. Varshini K | Software execution steps | Video: https://www.youtube.com/watch?v=qGa4UQz0aPA |
| Microwaves and Antennas | Prof. Kavitha R J | Microwaves and Antennas | Notes: https://drive.google.com/drive/folders/1wex_G2oS150WlrXGF6mrryx1xmWIEBZ2 |
| Communication Lab | Prof. Kavitha R J | Frequency Shift Keying | Video: https://youtu.be/lrCwpteJhVQ |
| Project | Students | Solar based Lawn Mower | Video: https://youtu.be/Ws4sLOLjwoE |



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| Project | Students | Novel electronic voting machine | Video: https://youtu.be/gCv5MBkYong |
| Project | Students | Automatic Room Light and Fan control with bidirectional visitor counter | Video: https://youtu.be/PnaTRKoK5rQ |