

| 5th Sem | | |
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| S. No. | Paper Code | Paper/COs |
| 1 | HS-301 | ECONOMICS FOR ENGINEERS |
| | HS-301.1 | To explain the basic micro and macro economics concepts. |
| | HS-301.2 | To analyze the theories of production, cost, profit and break even analysis. |
| | HS-301.3 | To evaluate the different market structures and their implications for the behavior of the firm. |
| | HS-301.4 | To apply the basics of national income accounting and business cycles to Indian economy. |
| 2 | EEC-303 | POWER SYSTEM-II |
| | EEC-303.1 | To introduce the concepts and constructional features and operation of relays, and protection of generators and transformers |
| | EEC-303.2 | Familiarise students with various protection schemes of transmission lines |
| | EEC-303.3 | Knowledge of fuse and circuit breakers |
| | EEC-303.4 | Explore stability analysis |
| 3 | EEC-305 | ELECTRICAL AND ELECTRONICS MEASURING INSTRUMENTS |
| | EEC-305.1 | Introduce how to measure power and energy |
| | EEC-305.2 | Understand working and applications of potentiometers and bridges |
| | EEC-305.3 | Knowledge to use printers and recorders |
| | EEC-305.4 | Selection of proper type and specification of transducers |
| 4 | EEC-307 | INTRODUCTION TO CONTROL SYSTEMS |
| | EEC-307.1 | Ability to define, understand various terms related to control system and evaluation of transfer function. |
| | EEC-307.2 | Ability to apply knowledge of various types of signals in time response of systems |
| | EEC-307.3 | Ability to analyse frequency response of systems |
| | EEC-307.4 | Ability to design compensators and controllers |
| 5 | EEC-309 | Power Electronics |
| | EEC-309 .1 | To learn the operation characteristics and firing circuits of power electrons devices. |
| | EEC-309 .2 | To acquire knowledge of controlled rectifier and choppers control DC Motors |
| | EEC-309 .3 | To get the exposure of square wave, Quashi square wave PWM and multilevel inverters there use to control AC drives. |
| | EEC-309 .4 | apply AC controllers cycloconverter and matrix converter to control induction motors. |

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| 6 | EEC-313 | MICROPROCESSORS AND MICROCONTROLLERS |
| | EEC-313.1 | To impart knowledge about architecture and instruction set of 8085 microprocessor so that students can implement 8085 assembly language programs. |
| | EEC-313.2 | To impart knowledge about architecture and instruction set of 8086 microprocessor so that students can implement 8086 assembly language programs. |
| | EEC-313.3 | To impart knowledge about interfacing of 8255, 8254/8253, 8251, 8259 and I/O devices with 8086 microprocessor. |
| | EEC-313.4 | To impart knowledge about architecture and operation of 8051 microcontroller and their interfacing with memory and I/O. |
| 7 | EEC-351 | Power System-II Lab |
| | EEC-351.1 | To introduce the concepts and constructional features and operation of relays, and protection of generators and transformers |
| | EEC-351.2 | Familiarise students with various protection schemes of transmission lines |
| | EEC-351.3 | Knowledge of fuse and circuit breakers |
| | EEC-351.4 | Explore stability analysis |
| 8 | EEC-353 | ELECTRICAL AND ELECTRONICS MEASURING INSTRUMENTS LAB |
| | EEC-353 .1 | Introduce how to measure power and energy |
| | EEC-353 .2 | Understand working and applications of potentiometers and bridges |
| | EEC-353 .3 | Knowledge to use printers and recorders |
| | EEC-353 .4 | Selection of proper type and specification of transducers |
| 9 | EEC-355 | INTRODUCTION TO CONTROL SYSTEMS LAB |
| | EEC.355.1 | Ability to define, understand various terms related to control system and evaluation of transfer function. |
| | EEC.355.2 | Ability to apply knowledge of various types of signals in time response of systems |
| | EEC.355.3 | Ability to analyse frequency response of systems |
| | EEC.355.4 | Ability to design compensators and controllers |
| 10 | EEC-357 | POWER ELECTRONICS LAB |
| | EEC-357.1 | To learn the operation characteristics and firing circuits of power electrons devices. |
| | EEC-357 .2 | To acquire knowledge of controlled rectifier and choppers control DC Motors |
| | EEC-357 .3 | To get the exposure of square wave, Quashi square wave PWM and multilevel inverters there use to control AC drives. |
| | EEC-357 .4 | apply AC controllers cycloconverter and matrix converter to control induction motors. |
| 11 | EEC 363 | MICROPROCESSORS AND MICROCONTROLLERS LAB |
| | EEC 363.1 | To impart knowledge about architecture and instruction set of 8085 microprocessor so that students can implement 8085 assembly language programs. |
| | EEC 363.2 | To impart knowledge about architecture and instruction set of 8086 microprocessor so that students can implement 8086 assembly language programs. |
| | EEC 363.3 | To impart knowledge about interfacing of 8255, 8254/8253, 8251, 8259 and I/O devices with 8086 microprocessor. |
| | EEC 363.4 | To impart knowledge about architecture and operation of 8051 microcontroller and their interfacing with memory and I/O. |