

Dev Bhoomi Group of Institutions, Saharanpur

Department of ELECTRICAL AND ELECTRONICS Engineering

| Sr. No | Subject | Subject Code | FACULTY NAME | Course | Semester | Question1 | Question2 |
|--------|---|--------------|---------------|-----------|----------|---|---|
| 1 | Integrated Circuits | KEC-501 | DUSYANT KUMAR | B.TECH-EC | 5th | Q.1 Explain the working of voltage to current and current to voltage converter using Operational amplifier. | Q.2.What are the active analog filters? And also explain the working of Butterworth filter using operational amplifier. |
| 2 | Microprocessor & Microcontroller | KEC-502 | DUSYANT KUMAR | B.TECH-EC | 5th | 1. Explain the flow chart of assembly language programming | 2. What is timing and control in 8085 microprocessor. |
| 3 | Digital Signal Processing | KEC-503 | SACHIN | B.TECH-EC | 5th | 1.Classification of filters. | 2. Explain Butterworth filter. |
| 4 | VLSI Technology | KEC-053 | SACHIN | B.TECH-EC | 5th | 1.What is a growth kinetics in oxidations? | 2.define Epitaxy Evaluation? |
| 5 | OPTICAL COMMUNICATION | KEC-058 | JASBIR SINGH | B.TECH-EC | 5th | 1. Explain Intramodal and intermodal Dispersion? | 2. xplain alltypes of losses? |
| 6 | CONSTITUTION OF INDIA | KNC501 | AMRISH TYAGI | B.TECH-EC | 5th | 1 Explain function of RajyaSabha. | 2 Differentiate between president of India and US. |
| 7 | HSMC -1 | KHU701 | VIPIN | B.TECH-EC | 7th | Discuss the importance of credit in rural development? | Define the process of agricultural marketing? |
| 8 | MICROWAVE AND RADAR ENGG. | KEC-074 | DUSYANT KUMAR | B.TECH-EC | 7th | Q1.Explain the microwave Hybrid circuits in detail. | Q2. What are the passive microwave devices in detail. |
| 9 | WIRELESS AND MOBILE COMMUNICATION | KEC-076 | SACHIN | B.TECH-EC | 7th | 1.Explain Maximum Ratio Combining? | 2. Explain Multiplexing in MIMO systems? |
| 10 | RENEWABLE ENERGY RESOURCES | KOE074 | SANJAY | B.TECH-EC | 7th | Q1. DEFINE FLATE PLATE COLLECTOR | Q2. EVACUATED TUBE COLLECTOR |
| 11 | ELECTRONICS ENGINEERING | KOE034 | JASBIR SINGH | B.TECH-EE | 3rd | Q1.Explain the working of Bridge rectifier with neat diagram. Also find average DC voltage.. | Q2. Explain the Tunnel diode with its V-I graph and advantages. |
| 12 | UNIVERSAL HUMAN VALUES & PE | KVE301 | SACHIN YADAV | B.TECH-EE | 3rd | Q1. EXPLAIN THE CO-EXISTENCE SELF AND BODY | Q2. THE NEED OF THE BODY IS DIFFER FROM THE NEED OF SELF EXPLAIN |
| 13 | ELECTROMAGNETIC FIELD THEORY | KEE301 | PARVEEN | B.TECH-EE | 3rd | Q1.Explain the properties of magnetic material. | Q2 Explain the electro static force. |
| 14 | ELECTRICAL MEASUREMENTS & INSTRUMENTATION | KEE302 | SATISH KUMAR | B.TECH-EE | 3rd | 1.Derive the condition for balance with suitable circuit diagram of Kelvin's double bridge | .2.Explain Wheatstone bridge method for calculation of medium resistance. |
| 15 | BASIC SIGNALS & SYSTEMS | KEE303 | JASBIR SINGH | B.TECH-EE | 3rd | Q1. What are the properties of Fourier series | Q2. Give the definition of DTFS and DTFT |
| 16 | CYBER SECURITY | KNC301 | VIPUL MALWA | B.TECH-EE | 3rd | XPLAIN SECURITY CHALLENGES POSED BY MOBILE DEVICE | WHAT IS AUTHENTICATION SERVICE SECURITY? |
| 17 | POWER SYSTEM-I | KEE501 | SATISH KUMAR | B.TECH-EE | 5th | Q1.Explain thermal power power plant with diagram. | Q2 Explain hydro power plant with diagram. |
| 18 | CONTROL SYSTEM | KEE502 | SATISH KUMAR | B.TECH-EE | 5th | 1.Explain PID controllers? | 2.Explain Derivative and Integral in feedback control? |
| 19 | ELECTRICAL M/C-II | KEE503 | PRAVEEN KUMAR | B.TECH-EE | 5th | Q.1. Define two revolving theory of synchronous machine | Q.2 Discuss armature reaction. |

| | | | | | | | |
|----|--|--------|---------------|-------------|-----|---|--|
| 20 | SENSORS & TRANSDUCERS | KEE052 | PRAVEEN KUMAR | B.TECH-EE | 5th | 1.Explain working principle of thermocouple. | 2. Explain Hall effect sensor. |
| 21 | ANALOG & DIGITAL COMMUNICATION | KEE058 | SACHIN | B.TECH-EE | 5th | Q1. Draw the block diagram of AM super heterodyne radio receiver and state the function of each block and also explain the applications of super heterodyne receiver. | Q2. Write the differences between NBFM and WBFM. |
| 22 | CONSTITUTION OF INDIA | KNC501 | AMRISH TYAGI | B.TECH-EE | 5th | 1 Explain function of RajyaSabha. | 2 Differentiate between president of India and US. |
| 23 | HSMC -1 | KHU701 | VIPIN | B.TECH-EE | 7th | Discuss the importance of credit in rural development? | Define the process of agricultural marketing? |
| 24 | HVDC & AC Transmission | KEE072 | SATISH KUMAR | B.TECH-EE | 7th | Q.1 Write the corona formulas . Define corona current. | Q.2 Discuss over voltage due to switching |
| 25 | Utilization of Electrical Energy & Electric Traction | KEE079 | PARVEEN | B.TECH-EE | 7th | Q1. Explain indirect arc furnace. | Q2. Describe indirect core type induction furnace. |
| 26 | RENEWABLE ENERGY RESOURCES | KOE074 | SANJAY | B.TECH-EE | 7th | Q1. DEFINE FLATE PLATE COLLECTOR | Q2. EVACUATED TUBE COLLECTOR |
| 27 | Applied Mathematics-III | NA | ANSHUL | POLYTECHNIC | 3rd | Prove that $J_{\frac{1}{2}}^2 = 1$ | If $u = \log (x^3 + y^3 + z^3 - 3xyz)$, |
| 28 | Electrical Instrumentation and Measurement | NA | SATISH KUMAR | POLYTECHNIC | 3rd | Define term accuracy and precisim, | explain the dynamometer type wattmeter. |
| 29 | Electrical and Electronics Engineering Materials | NA | DUSYANT KUMAR | POLYTECHNIC | 3rd | Q1. explain the electrical properties of insulating materials | Q2. explain dielectric properties of dielectrics . |
| 30 | Digital Electronics | NA | JASBIR SINGH | POLYTECHNIC | 3rd | Q1.Explain full adder circuit and draw its logic diagram. [Full Adder सर्किट को समझाइए तथा इसका लॉजिक डायग्राम प्राप्त कीजिए.] . | Q2. Using the K-map solve it. [K- मैप की सहायता से निम्न को हल कीजिए] $Y = \sum m (1,3,7,11,15) + \sum d (0,2,5)$ |
| 31 | Electrical M/c-I | NA | PRAVEEN KUMAR | POLYTECHNIC | 3rd | Q.1 Write the working principle of dc motor.Q.1 dc मोटर का कार्य सिद्धांत लिखिए | Q. What are the types of dc motorsQ. डीसी मोटर कितने प्रकार की होती है |
| 32 | Environmental Studies | NA | TARUN KHATANA | POLYTECHNIC | 3rd | Q1. DESCRIBE THE TYPES OF POLLUTION प्रदूषण के प्रकार पर टिप्पणी करें | Q2. WHAT ARE THE EFFECTS OF POLLUTION ON LIVING ENVIRONMENT.प्रदूषण का जैव पर्यावरण पर प्रभाव बताइए? |
| 33 | Industrial Management and Entrepreneurship Development | NA | TARUN KHATANA | POLYTECHNIC | 5th | Q1. Explain project report preparation प्रोजेक्ट रिपोर्ट तैयार करने की व्याख्या करें | Q2. Explain elements of project report परियोजना रिपोर्ट के तत्वों की व्याख्या करें |
| 34 | Switch Gear & Protection | NA | PRAVEEN KUMAR | POLYTECHNIC | 5th | Explain classification of Fuses | What is circuit breakers. |
| 35 | PLC, MICROCONTROLLER AND SCADA (T+P) | NA | SACHIN | POLYTECHNIC | 5th | 1.Explain ladder diagram programming. | 2.difference between UP counter and DOWN counter. |
| 36 | Electrical Machine II | NA | SATISH KUMAR | POLYTECHNIC | 5th | Q.1Discuss the production of magnetic field in3 phase induction motor | Q.2 What is slip and percentage slip.Q.1 3 फेज इंडक्शन मोटर में चुंबकीय क्षेत्र के उत्पादन पर चर्चा करें Q.2 स्लिप और प्रतिशत स्लिप क्या है। |
| 37 | Renewable Sources of Energy | NA | DUSYANT KUMAR | POLYTECHNIC | 5th | Q1. Explain floating drum type biogas plant. फ्लोटिंग ड्रम टाइप बायोगैस प्लांट की व्याख्या करें | Q2. Explain dinbandhu biogas plant. दीनबंधु बायोगैस संयंत्र की व्याख्या करें |