

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	1. Design a CMOS logic circuit using SR flip-flop.	2. Design a D flips flop circuit.
2	Microprocessor & Microcontroller	KEC-502	DUSYANT KUMAR	B.TECH-EC	5th	1. What is microcontroller? Explain the working of 8051 microcontroller.	2. Explain the memory organization in 8051 microcontroller.
3	Digital Signal Processing	KEC-503	SACHIN	B.TECH-EC	5th	1. What is the relation between DTFT and DFT. Explain the properties of DFT with example.	2. Calculate the DFT of $x(n) = \cos an$ .
4	VLSI Technology	KEC-053	SACHIN	B.TECH-EC	5th	1. Explain Ficks Dimensional diffusion equation?	2. Explain Ion Implantation Equipment?
5	OPTICAL COMMUNICATION	KEC-058	JASBIR SINGH	B.TECH-EC	5th	1. Explain Photo Detector Noise and Noise Sources?	2. Explain Fundamental Receiver operation with DST? 2. Define Temperature Effects on Avalanche Gain?
6	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EC	5th	1. Explain the advantage and disadvantage of partnership.	2. Explain the articles of Association of a company.
7	HSMC -1	KHU701	VIPIN	B.TECH-EC	7th	Define sustainable development?	Do you think various measures taken by the government to improve agricultural marketing are sufficient? Discuss.
8	MICROWAVE AND RADAR ENGG.	KEC-074	DUSYANT KUMAR	B.TECH-EC	7th	Q1. explain the High power measurement in microwave.	Q2. explain microwave amplifiers
9	WIRELESS AND MOBILE COMMUNICATION	KEC-076	SACHIN	B.TECH-EC	7th	1. Explain GSM system for mobile communication?	2. Define Mobile Satellite communication?
10	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EC	7th	Q1. EXPLAIN THE WORKING PRINCIPLE OF FUEL CELLS	Q2. WHAT IS THERMO ELECTRICAL AND THERMO IONIC CONVERSIONS.
11	ELECTRONICS ENGINEERING	KOE034	JASBIR SINGH	B.TECH-EE	3rd	Q1. Explain Ideal Op-amp properties.	Q2. Explain Summer and Integrator Op-amp circuit.
12	UNIVERSAL HUMAN VALUES & PE	KVE301	SACHIN YADAV	B.TECH-EE	3rd	Q1. EXPLAIN THE RECYCLABILITY AND SELF REGULATION IN NATURE	Q2. ANALYZE THE IMPORTANCE OF HOLISTIC TECHNOLOGY IN CURRENT SCENARIO WITH DIFFERENT EXAMPLE
13	ELECTROMAGNETIC FIELD THEORY	KEE301	PARVEEN	B.TECH-EE	3rd	Q1. Write the different form of Maxwell's equation	.Q2 Define tangent loss.
14	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	KEE302	SATISH KUMAR	B.TECH-EE	3rd	1. Explain the energy meter.	2. Explain with the help of block diagram about the various parts of an electronic multimeter.
15	BASIC SIGNALS & SYSTEMS	KEE303	JASBIR SINGH	B.TECH-EE	3rd	Q1. Write the state space representation of linear system	Q2. What is the state transition matrix.
16	CYBER SECURITY	KNC301	VIPUL MALWA	B.TECH-EE	3rd	DESCRIBE THE FORENSIC ANALYSIS OF E-MAIL.	WHAT IS SECURITY / PRIVACY THREATS.
17	POWER SYSTEM-I	KEE501	SATISH KUMAR	B.TECH-EE	5th	Q1. Derive an expression for the capacitance of single phase overhead transmission line.	Q2 Define the grading of cable.
18	CONTROL SYSTEM	KEE502	SATISH KUMAR	B.TECH-EE	5th	1. Explain Nyquist stability criterion?	2. Explain correlation between time and frequency responses?
19	ELECTRICAL M/C-II	KEE503	PRAVEEN KUMAR	B.TECH-EE	5th	Q1 Draw the phasor diagram of three phase induction motor	Q2 Define deep bar and double cage rotors

20	SENSORS & TRANSDUCERS	KEE052	PRAVEEN KUMAR	B.TECH-EE	5th	1.Explain function of signal conditioning equipment.	2. Explain counters and Timers.
21	ANALOG & DIGITAL COMMUNICATION	KEE058	SACHIN	B.TECH-EE	5th	Q1. WHAT ARE THE DIGITAL MODULATION TECHNIQUES	Q.2. EXPLAIN COHERENT AND NON COHRENT MODULATION METHODS.
22	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EE	5th	1. Explain the advantage and disadvantage of partnership.	2. Explain the articles of Association of a company.
23	HSMC -1	KHU701	VIPIN	B.TECH-EE	7th	Define sustainable development?	Do you think various measures taken by the government to improve agriculturalmarketing are sufficient? Discuss.
24	HVDC & AC Transmission	KEE072	SATISH KUMAR	B.TECH-EE	7th	Q.1Write the types of dc linksQ.	2 What is the principle of dc links
25	Utilization of Electrical Energy & Electric Traction	KEE079	PARVEEN	B.TECH-EE	7th	Q1. Explain high frequency eddy current heating.	Q2 Differential the function of Ajax Wyatt furnace and TAMA furnace.
26	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EE	7th	Q1. EXPLAIN THE WORKIND PRINCIPLE OF FULE CELLS	Q2. WHAT IS THERMO ELECTRICAL AND THERMO IONIC CONVERSIONS.
27	Applied Mathematics-III	NA	ANSHUL	POLYTECHNIC	3rd	Find the Rank of the matrix [ 1 2 3 1 4 2 2 6 5 ]	Prove that vectors $X_1=(1,2,4)$ and $X_2=(3,6,12)$ are linearly dependent .
28	Electrical Instrumentation and Measurement	NA	SATISH KUMAR	POLYTECHNIC	3rd	Explain the CRO in detail.	Explain the LCR meter
29	Electrical and Electronics Engineering Materials	NA	DUSYANT KUMAR	POLYTECHNIC	3rd	Q1. write the difference between intrinsic semiconductor and extrinsic semiconductor.	Q2. Explain n type and p type semiconductor materials
30	Digital Electronics	NA	JASBIR SINGH	POLYTECHNIC	3rd	Q1. Explain all type of shift registers [ विभिन्न प्रकार के Shift Registers को समझाइए ]	Q2. Explain Counter circuit [ काउंटर सर्किट को समझाइए ]
31	Electrical M/c-I	NA	PRAVEEN KUMAR	POLYTECHNIC	3rd	Q1. What is the working principle of single phase transformerQ1. सिंगल फेज ट्रांसफार्मर का कार्य सिद्धांत क्या है	प्रश्न 2. सिंगल फेज ट्रांसफार्मर का निर्माण क्या हैQ2. What is the construction of single phase transformer
32	Environmental Studies	NA	TARUN KHATANA	POLYTECHNIC	3rd	Q1. WHAT IS THE DIFFERENCE BETWEEN IN BOD AND COD.बीओडी और सीओडी में अंतर स्पष्ट कीजिए	Q2. WHAT IS SOLID WASTE? DESCRIBE THE EFFECT OF SOLID WASTE ठोस अपशिष्ट क्या है? इसके प्रभावों का वर्णन कीजिए
33	Industrial Management and Entrepreneurship Development	NA	TARUN KHATANA	POLYTECHNIC	5th	Q1. Explain functions of Management प्रबंधन के कार्यों की व्याख्या करें	Q2. Define line Organisation and function organisation लाइन संगठन और कार्य संगठन को परिभाषित करें
34	Switch Gear & Protection	NA	PRAVEEN KUMAR	POLYTECHNIC	5th	Explain the protection against over voltage.	What are lighting arrestors.
35	PLC, MICROCONTROLLER AND SCADA (T+P)	NA	SACHIN	POLYTECHNIC	5th	1.Explain Assemblers and Compilers.	2. Explain 7- segment interface.
36	Electrical Machine II	NA	SATISH KUMAR	POLYTECHNIC	5th	Q1.Write the main construction of 3 phase synchronous generator Q1.3 चरण तुल्यकालिक जनरेटर	Q2. Write the concept of distribution factorQ2 का मुख्य निर्माण लिखें। distribution factor की अवधारणा लिखें
37	Renewable Sources of Energy	NA	DUSYANT KUMAR	POLYTECHNIC	5th	Q1. Explain geothermal energy with neat sketch. स्वच्छ चित्र के साथ भूतापीय ऊर्जा की व्याख्या करें	Q2. Explain Ocean Thermal Energy conversion plant. महासागर तापीय ऊर्जा रूपांतरण संयंत्र की व्याख्या करें