

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. Explain the working of Sample and Hold circuit.	Q.2.What is comparator as an operational amplifier? Also explain the working of zero crossing detectors.
2	Microprocessor & Microcontroller	KEC-502	DUSYANT KUMAR	B.TECH-EC	5th	1. Explain the PIN description of 8086 microprocessor.	. Explain the architectural diagram of 8086 microprocessor.
3	Digital Signal Processing	KEC-503	SACHIN	B.TECH-EC	5th	1.What are the different window function used for windowing.	2. Explain the Gibbs phenomenon.
4	VLSI Technology	KEC-053	SACHIN	B.TECH-EC	5th	1.What is a Lithography ?	2.Explain Deposition Processes of Polysilicon?
5	OPTICAL COMMUNICATION	KEC-058	JASBIR SINGH	B.TECH-EC	5th	1.Explain LED structures?	2. Explain Laser single Mode operation?
6	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EC	5th	1. How is law enacted in parliament?	2. What do you mean by term common law?
7	HSMC -1	KHU701	VIPIN	B.TECH-EC	7th	Why is agricultural diversification essential for sustainable livelihoods?	Mention some obstacles that hinder the mechanism of agricultural marketing?
8	MICROWAVE AND RADAR ENGG.	KEC-074	DUSYANT KUMAR	B.TECH-EC	7th	Q1. b. What is Klystron and explain reflex Klystron in detail.	Q2. What are the differences between magnetron and klystron.
9	WIRELESS AND MOBILE COMMUNICATION	KEC-076	SACHIN	B.TECH-EC	7th	1.Explain Multiple for Radio Packet Systems?	2. Explain Packet and Pooling Reservation ?
10	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EC	7th	Q1. DEFINE SOLAR TOWER POWER STATION	2. EXPLAIN VAPOUR DOMINATED POWER PLANT
11	ELECTRONICS ENGINEERING	KOE034	JASBIR SINGH	B.TECH-EE	3rd	Q1.Explain the working of BJT Transistor. .	Q2. Explain MOSFET Transistor.
12	UNIVERSAL HUMAN VALUES & PE	KVE301	SACHIN YADAV	B.TECH-EE	3rd	Q1. WHAT DO YOU MEAN BY TRUST AND HOW IT IS ESTABLISH IN SOCIETY	Q2. WHAT ARE THE FOUNDATIONAL VALUES OF A HUMAN BEING
13	ELECTROMAGNETIC FIELD THEORY	KEE301	PARVEEN	B.TECH-EE	3rd	Q1.Explain the amper's circuit law.	Q2 explain the lorentz's force.
14	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	KEE302	SATISH KUMAR	B.TECH-EE	3rd	1.Draw connection diagram of current transformer in single-phase system.	2. Derive the expression for ratio and phase error in case of current transformer.
15	BASIC SIGNALS & SYSTEMS	KEE303	JASBIR SINGH	B.TECH-EE	3rd	Q1.Write the properties of Laplace transform .	Q2.Write the initial value and final value theorem .
16	CYBER SECURITY	KNC301	VIPUL MALWA	B.TECH-EE	3rd	EXPLAIN PROXY SERVERS AND ANONYMIZERS.	EXPLAIN SQL INJECTION.
17	POWER SYSTEM-I	KEE501	SATISH KUMAR	B.TECH-EE	5th	Q1. Explain corona effect and the factors affecting the. Write its disadvantage.	Q2 What do you mean by self G.M.G and G.M.D
18	CONTROL SYSTEM	KEE502	SATISH KUMAR	B.TECH-EE	5th	1.Explain Routh-Hurwitz criteria?	2. Define Procedure for plotting root locus?
19	ELECTRICAL M/C-II	KEE503	PRAVEEN KUMAR	B.TECH-EE	5th	Q.1 Discuss the rotating magnetic field of three phase induction motor	Q.2 write the principle of operation of induction motor.
20	SENSORS & TRANSDUCERS	KEE052	PRAVEEN KUMAR	B.TECH-EE	5th	1. Explain machine vision.	2. Difference between machine vision and computer vision.

21	ANALOG & DIGITAL COMMUNICATION	KEE058	SACHIN	B.TECH-EE	5th	Q1. Explain the pre-emphasis and e-emphasis.	Q.2 .What is demodulation system? Explain the types of demodulation system.
22	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EE	5th	1. How is law enacted in parliament?	2. What do you mean by term common law?
23	HSMC -1	KHU701	VIPIN	B.TECH-EE	7th	Why is agricultural diversification essential for sustainable livelihoods?	Mention some obstacles that hinder the mechanism of agricultural marketing?
24	HVDC & AC Transmission	KEE072	SATISH KUMAR	B.TECH-EE	7th	Q1. Write the characteristics and generation of impulse voltage.	Q.2 Design EHV line insulation based upon transient over voltage
25	Utilization of Electrical Energy & Electric Traction	KEE079	PARVEEN	B.TECH-EE	7th	Q1. Explain induction heating.	Q2 What are type of induction furnace . Explain any one
26	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EE	7th	Q1. DEFINE SOLAR TOWER POWER STATION	Q2. EXPLAIN VAPOUR DOMINATED POWER PLANT
27	Applied Mathematics-III	NA	ANSHUL	POLYTECHNIC	3rd	<p>). If $u = \log (x^3 + y^3 + z^3 - 3xyz)$, then show that</p> $(\frac{\partial}{\partial x} + \frac{\partial}{\partial y} + \frac{\partial}{\partial z})^2 u = -9/(x+y+z)^2$	<p>If $u = \left(\frac{x^2+y^2}{x+y}\right)$ then show that</p> $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \tan u$
28	Electrical Instrumentation and Measurement	NA	SATISH KUMAR	POLYTECHNIC	3rd	Define Construction and working principle of demand indicator.	Explain construction and working principle of energy meter
29	Electrical and Electronics Engineering Materials	NA	DUSYANT KUMAR	POLYTECHNIC	3rd	Q1. explain the magnetic classification of substances.	Q2 explain comparative study of diamagnetic, paramagnetic and Ferromagnetic substances.
30	Digital Electronics	NA	JASBIR SINGH	POLYTECHNIC	3rd	Q1.Explain SR Flip Flop [SR-Flip Flop को समझाइए].	Q2. Explain JK Flip Flop [JK-Flip Flop को समझाइए]
31	Electrical M/c-I	NA	PRAVEEN KUMAR	POLYTECHNIC	3rd	Q1. Give the characteristics of dc shunt motor.1. डीसी शंट मोटर की विशेषताएँ बताइए	Q2. Give the construction and working of 3 pin starter. प्रश्न 2. 3 पिन स्टार्टर की संरचना एवं कार्यविधि बताइये
32	Environmental Studies	NA	TARUN KHATANA	POLYTECHNIC	3rd	Q1. WHAT IS AIR POLLUTION? WHY AIR POLLUTION IN OUR NATURE. वायु प्रदूषण क्या है? प्रकृति में वायु प्रदूषण क्यों होता है?	Q2. DESCRIBE THE EFFECTS OF WATER POLLUTION जल प्रदूषण के प्रभावों का वर्णन कीजिए
33	Industrial Management and Entrepreneurship Development	NA	TARUN KHATANA	POLYTECHNIC	5th	Q1. Explain marketing survey विपणन सर्वेक्षण की व्याख्या करें	Q2.Explain demand and supply मांग और आपूर्ति की व्याख्या करें
34	Switch Gear & Protection	NA	PRAVEEN KUMAR	POLYTECHNIC	5th	What are alternators and its types.	Explain the types of motor protection
35	PLC, MICROCONTROLLER AND SCADA (T+P)	NA	SACHIN	POLYTECHNIC	5th	1.Explain pin diagram of microcontroller 8051.	2. Explain Architecture of microcontroller 8051.
36	Electrical Machine II	NA	SATISH KUMAR	POLYTECHNIC	5th	Q1Write the principle of three phase induction motor Q1 तीन फेज इंडक्शन मोटर का सिद्धांत लिखिए।	Q2. सिंगल फेज इंडक्शन मोटर के दोहरे परिक्रामी सिद्धांत पर चर्चा करें .Q2. Discuss the double revolving theory of single phase induction motor
37	Renewable Sources of Energy	NA	DUSYANT KUMAR	POLYTECHNIC	5th	Q1. Explain horizontal Axis type wind power plant. क्षैतिज अक्ष प्रकार पवन ऊर्जा संयंत्र की व्याख्या करें	Q2. Explain vertical Axis type wind power plant. ऊर्ध्वाधर अक्ष प्रकार पवन ऊर्जा संयंत्र की व्याख्या करें