

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. What is 555 timer IC. Also explain the block diagram of 555 timer.	2. Explain the working of phase lock loop.
2	Microprocessor & Microcontroller	KEC-502	DUSYANT KUMAR	B.TECH-EC	5th	1. Explain ADC and DAC interfacing. .	2. What is interfacing. Explain the microcontroller interfacing with LCD and Keyboard.
3	Digital Signal Processing	KEC-503	SACHIN	B.TECH-EC	5th	1.Explain multirate digital signal processing.	2. Write a short note on decimation.
4	VLSI Technology	KEC-053	SACHIN	B.TECH-EC	5th	1.Explain package types?	2. Explain CMOS fabrication Technologies?
5	OPTICAL COMMUNICATION	KEC-058	JASBIR SINGH	B.TECH-EC	5th	1.Explain Multiplexing Transmission Techniques?	2.Define FSO?
6	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EC	5th	1. Explain Companies act 2013.	2. Explain E governance.
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. Draw and explain the block diagram RADAR system	Q2. Explain MTI and CW RADAR system.
9	WIRELESS AND MOBILE COMMUNICATION	KEC-076	SACHIN	B.TECH-EC	7th	1. Define 4G & 5G?	2. Explain Mobile data networks?
10	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EC	7th	Q1. DEFINE OTEC	Q2. DEFINE BIOMASS RESOURCES.
11	ELECTRONICS ENGINEERING	KOE034	JASBIR SINGH	B.TECH-EE	3rd	Q1.Explain Digital Voltmeter with diagram .	Q2. Explain CRT with suitable diagram.
12	UNIVERSAL HUMAN VALUES & PE	KVE301	SACHIN YADAV	B.TECH-EE	3rd	Q1. GIVE A CRITICAL REVIEW OF THE CURRENT MANAGEMENT MODELS IN PROFESSION	Q2. EXPLAIN ANY FIVE VALUES WHICH ARE NECESSARY FOR ETHICAL HUMAN CONDUCT
13	ELECTROMAGNETIC FIELD THEORY	KEE301	PARVEEN	B.TECH-EE	3rd	Q1. Drive poisson and laplace equation.	Q2 Drive the gauss divergence theorem
14	ELECTRICAL MEASUREMENTS & INSTRUMENTATION	KEE302	SATISH KUMAR	B.TECH-EE	3rd	1.Explain the working principle of thermocouple.	2. Explain LVDT.
15	BASIC SIGNALS & SYSTEMS	KEE303	JASBIR SINGH	B.TECH-EE	3rd	Q1.What is the concept of z transform and ROC	Q2. Write the final value and initial value theorem of z transform.
16	CYBER SECURITY	KNC301	VIPUL MALWA	B.TECH-EE	3rd	WRITE SHORT NOTES ON INDIAN CYBER LOW.	DEFINE INTELLECTUAL PROPERTY ISSUES.
17	POWER SYSTEM-I	KEE501	SATISH KUMAR	B.TECH-EE	5th	Q1. What are advantage of HVDC transmission. Discuss various various type.	Q2 Define the term sag
18	CONTROL SYSTEM	KEE502	SATISH KUMAR	B.TECH-EE	5th	1.Explain Design of closed loop systems?	2.Define State transition matrix?
19	ELECTRICAL M/C-II	KEE503	PRAVEEN KUMAR	B.TECH-EE	5th	Q.1 Discuss the double revolving theory of single phase induction motor	.Q.2 What is universal motor.

20	SENSORS & TRANSDUCERS	KEE052	PRAVEEN KUMAR	B.TECH-EE	5th	1.Explain smart sensor and its component.	2. Write application of smart sensor.
21	ANALOG & DIGITAL COMMUNICATION	KEE058	SACHIN	B.TECH-EE	5th	Q.1. Explain the time division multiplexing in detail.	Q,2. explain the information theory in detail.
22	CONSTITUTION OF INDIA	KNC501	AMRISH TYAGI	B.TECH-EE	5th	1. Explain Companies act 2013.	2. Explain E governance.
23	HSMC -1	KHU701	VIPIN	B.TECH-EE	7th	Define sustainable development?	Do you think various measures taken by the government to improve agricultural marketing are sufficient? Discuss.
24	HVDC & AC Transmission	KEE072	SATISH KUMAR	B.TECH-EE	7th	Q.1 Write the types of dc links	Q.2 What is the principle of dc links
25	Utilization of Electrical Energy & Electric Traction	KEE079	PARVEEN	B.TECH-EE	7th	Q1. Explain metallic arc welding.	Q2 Explain the hydrogen arc welding.
26	RENEWABLE ENERGY RESOURCES	KOE074	SANJAY	B.TECH-EE	7th	Q1. DEFINE OTEC	Q2. DEFINE BIOMASS RESOURCES.
27	Applied Mathematics-III	NA	ANSHUL	POLYTECHNIC	3rd	Using Cayley Hamilton Theorem find A^{-1} . $A = \begin{bmatrix} 6 & 4 \\ \dots & \dots \end{bmatrix}$	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 transducer and its types.	Explain AMI and AMR.
29	Electrical and Electronics Engineering Materials	NA	DUSYANT KUMAR	POLYTECHNIC	3rd	Q1. explain energy band theory in conductor, semiconductor and insulator.	Q2. what are the special purpose materials.
30	Digital Electronics	NA	JASBIR SINGH	POLYTECHNIC	3rd	Q1.Explain R-2R Ladder converter [R-2R Ladder कन्वर्टर को समझाइए] .	Q2.Explain RAM and ROM Memory [RAM तथा ROM मेमोरी को समझाइए]
31	Electrical M/c-I	NA	PRAVEEN KUMAR	POLYTECHNIC	3rd	Q1. Give the construction of three phase transformer. Q1. श्री फेज ट्रांसफॉर्मर का निर्माण बताइए	Q2.तीन चरण ट्रांसफार्मर में कनेक्शन प्रक्रिया क्या है। Q2.What is the connection process in three phase transformer.
32	Environmental Studies	NA	TARUN KHATANA	POLYTECHNIC	3rd	Q1. WRITE A SHORT NOTE ON ENVIRONMENT PROTECTION ACT 1986 पर्यावरण संरक्षण अधिनियम 1986 पर टिप्पणी करें	Q2. DESCRIBE THE NATURAL AND MANMADE DIASTER. प्राकृतिक तथा मानव जनित आपदाओं का संक्षिप्त वर्णन करें।
33	Industrial Management and Entrepreneurship Development	NA	TARUN KHATANA	POLYTECHNIC	5th	Q1. Explain quality of leadership नेतृत्व की गुणवत्ता की व्याख्या करें	Q2. Explain importance of self motivation आत्म प्रेरणा के महत्व की व्याख्या करें
34	Switch Gear & Protection	NA	PRAVEEN KUMAR	POLYTECHNIC	5th	Explain types of Sub- stations.	What is concept of G.I.S.,
35	PLC, MICROCONTROLLER AND SCADA (T+P)	NA	SACHIN	POLYTECHNIC	5th	1. Write short note on SCADA.	2. Explain types of communication channels in SCADA system.
36	Electrical Machine II	NA	SATISH KUMAR	POLYTECHNIC	5th	Q.2 What is universal motor. Q2. What is AC servomotor. Q.2 यूनिवर्सल मोटर क्या है।	Q2। एसी सर्वोमोटर क्या है
37	Renewable Sources of Energy	NA	DUSYANT KUMAR	POLYTECHNIC	5th	Q1. Explain Magneto hydrodynamic power generation plant. मैग्नेटो हाइड्रोडायनामिक बिजली उत्पादन संयंत्र की व्याख्या करें	Q2. Explain all types of fuel cells. सभी प्रकार के ईंधन सेल की व्याख्या करें