

Sai Nath University

Assignment For Electronics and Telecommunication Engineering 5st **Sem.**

The Assignment will consist of two parts, A and B. Part A will have 5 short answer questions(40-60 words) of 4 marks each. Part B will have 2 long answer questions of 10 marks each

All questions are compulsory.

These Assignments should be completed and submitted in written form by the student to his/her respective Faculty/Examiner . Assignment Submission Dates are:

➤ Nov-17

List Of Suggested Questions

The list of suggested questions are for students to practice. Although optional, we recommend that students solve these questions, as they will help them in preparing for exams as well as in clearing the important concepts of the subject.

List of Practicals and suggested practicals

The list of practical's should be done by the students in their Lab Sessions. These are the basic practical's, which each student should be able to do himself independently. While the list of suggested practicals are optional, but it is recommended that students should perform those practical so as to have a thorough knowledge of the subject

Education Delivery Schedule (EDS)

As per University Semester scheme, the minimum contact hours of each paper has been Divided into two hours theory and practical class.

The faculty will maintain this attendance paper wise for his/her batch.

Subject Code

Subject Name

DEECE -501

**Industrial Organization &
Supervision Mgmt.**

DEECE -502

**Microprocessor Based
Systems**

DEECE -503

Instrumentation & Control

DEECE -504

Industrial Electronics

DEECE -505

**Advanced Communication
Systems**



SAI NATH UNIVERSITY

Cover page of Assignment

ID NUMBER

NAME

COURSE

STREAM

SEMESTER

SUBJECT CODE

SUBJECT NAME

Assignments will be completed by the Student in his/her own handwriting.

DEECE-501

Industrial Organization & Supervision Mgmt.

Part A

1. Explain the Indian industry and its stages ?
2. Explain the fundamental and growth of the Indian manufacturing industry ?
3. Explain the stages of scientific technological revolution in india ?
4. Define major area of Indian industry ?
5. Explain GATT ?

Part B

1. What is partnership , explain its features ?
2. What do you understand by factory act , explain industrial act ?

DEECE -502

Microprocessor Based Systems

Part A

1. List the various registers of 8085 and explain their function
2. What will be the contents of H and L registers after execution of instruction LXI H, 3000H and LHL 3050H.
3. Compare memory mapped IO and IO mapped IO schema.
4. Explain the function of QSO and QS1 pins of 8086 microprocessor.

Part B

1. Explain the pin diagram of 8085 with incoming and outgoing pin in detail?
2. What is system Bus? Draw and explain the time multiplexing of ADO-AD7?

DEECE -503
Instrumentation & Control

Part A

1. Describe the construction and working of dual trace CRO with suitable block diagram.
2. Draw and explain the circuit of a ramp type digital voltmeter.
3. Explain the functioning of a time-base generator in a CRO.
4. Explain briefly with the help of neat diagrams the use of electronic multimeter.
5. Describe the construction and working of a co-ordinate type ac potentiometer. How is it standardized ?

Part B

6. Write down the methods of protection of transformer
7. Write down the methods of protection of motor

DEECE -504
Industrial Electronics

Part A

1. Explain different type of diode based their operating quadrants of V-1 characteristics
2. State & prove De Morgan's theorem using truth table.
3. What is linear actuator motor? Give two applications.
4. What is the necessity of inner current loop control circuit.
5. What is the function of encoder & decoder circuit.

Part B

1. What is a servomotor? What are the requirement of a good servomotor?
2. Select motors for medium power pump & convertor application

DEECE -505
Advanced Communication Systems

Part A

1. Calculate the required length of a half wave dipole antenna for 90MHz
2. What is the role of FR amplifier in radio receiver?
3. Explain construction and working of klystron amplifier.
4. Explain the working principle of TDM . what are its advantage & disadvantage
5. “DPCM reduces the bandwidth requirement of channel”. Comment.

Part B

1. Write the Maxwell's equation in differential form and give their physical significance
2. Write two advantage of PCM. What is non-resonant antenna?