

B.TECH (CHEMICAL ENGG), 7TH SEM,.

**PROGRAMME: B.TECH (CHEMICAL ENGG),
AIR POLLUTION AND CONTROL EQUIPMENTS , ECHE-473**

ASSIGNMENT NO:2

Due date of submission: 23.10.2017

Instructions

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due dates
3. Write your name, programmed and enrolment No. clearly at top of the page.

Q.1

- a) Explain cyclone separator with proper diagram?
- b) What are the techniques to control air pollution?

Q.2

- a) Explain the methods to control noise pollution?
- b) What are the meteorological aspects of air pollution dispersion?

**PROGRAMME: B.TECH (CHEMICAL ENGG), 7 TH SEM,
PROCESS MODELLING AND SIMULATION, ECHE-472**

ASSIGNMENT NO:2

Due date of submission: 23.10.2017

Instructions

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due dates
3. Write your name, programme and enrolment No. clearly at top of the page.

Q.1

- a. Design a mathematical model of continuous distillation column. Take suitable assumptions.
- b. Explain sequential molecular approach for flow sheet simulation and equation oriented approach for flow sheet simulation.

Q.2

- a. Design a mathematical model for batch reactor.
- b. Explain advantages and limitations of models?

**PROGRAMME: B.TECH (CHEMICAL ENGG), 7TH SEM,
(INDUSTRIAL SAFETY AND HAZARD MANAGEMENT, ECHE-471)**

ASSIGNMENT NO:2

Due date of submission: 23.10.2017

Instructions

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due dates
3. Write your name, programme and enrolment No. clearly at top of the page.

Q.1

- a. What are the responsibilities of government and social organizations for industrial safety?
- b. What are the general measures for prevention and control of diseases due to chemicals?

Q.2

- a. What improvement in working conditions is to be done for industrial safety?
- b. Write the principles of industrial safety management.

PROGRAMME: B.TECH (CHEMICAL ENGG), 7TH, SEM ,
NON CONVENTIONAL ENERGY RESOURCES, ECHE-475

ASSIGNMENT NO:2

Due date of submission: 23.10.2017

Instructions

- 1. Write the response to the assignment in your own handwriting.**
- 2. Submit the response to your HOD within the due dates**
- 3. Write your name, programmed and enrolment No. clearly at top of the page.**

Q.1

- a. What is site selection, its sources and momentum theory of wind power plant?
- b. What is availability conversion theory of biomass?

Q.2

- a. What is working, performance and limitation ocean thermal energy?
- b. What are working, performance and limitation wave and tidal energy?