

ASSIGNMENT NO:1

COURSE: M.TECH (CHEMICAL ENGG), 1ST SEM

COURSE: M.TECH (CHEMICAL ENGG), 1ST SEM, ADVANCED SEPARATION TECHNIQUE, MT-CHE-111

ASSIGNMENT NO:1

Due date of submission: 10.11.2016

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.

Q1)

- a) Explain Reactive distillation.
- b) Explain dialysis process?

Q.2)

- a) Explain counter current flow model for gas separation?
- b) Define reverse osmosis and Define dew point.

COURSE: M.TECH (CHEMICAL ENGG), 1ST SEM,

MODELLING AND SIMULATION OF CHEMICAL ENGG SYSTEM MT-CHE-113

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Q1)

- a) Differentiate between steady and unsteady model.
- b) Design a mathematical model of continuous distillation column. Take suitable assumptions.

Q.2)

- a) Define modelling and Define simulation.
- b) Define mean residence time and control volume.

COURSE: M.TECH (CHEMICAL ENGG), 1ST SEM, ADVANCED POLLUTION CONTROL, MT-CHE-115

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Q1)

- a) What are the sources of solid waste?
- b) Define noise pollution and its resources.

Q.2)

- A) What are different industrial sources for waste water?
- B) Discuss in detail bag filter and electrostatic precipitator.

COURSE: M.TECH (CHEMICAL ENGG), 1ST SEM, **SAFETY HAZARDS AND RISK ANALYSIS, MT-CHE-112**

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Q1)

- (a) What are the contents of safety program?
- (b) What the health Hazards due to radiation.

Q.2)

- (a)What is the government policy on safety hazard identification?
- (b) What are toxic substances? What are the effects of toxic substances on human system?