TEACHING PLAN

Academic Year 2015-16

Class : B. Sc. First Year Semester : I & II

Subject : Industrial Chemistry Paper No. : II & VI

Week	Topic to be covered
1	-Units and Diamentions
2	-Basic Chemical Calculation
3	-Basic Chemical Calculation
4	-Material Balance Without Chemical Reaction
5	-Material Balance Without Chemical Reaction
6	-Material Balance With Chemical Reaction
7	-Material Balance With Chemical Reaction, -Recycle Operation
8	-Recycle Operation
9	-Energy balance,forms of energies,First law of thermodynamics, Energy balance procedure and problems
10	-Heat capacities, Mean molal heat capacities of gases& it's mixture, numerical.
11	-Heat of reaction, Heat of formation and heat of combustion with numerical
12	-Hess's law of constant heat summation and numerical based on the topic
13	-Numerical solving practice
14	-Effect of temperature on heat of reaction, Enthalpy changes reaction with different temperature
15	-Numerical practice

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TEACHING PLAN

Academic Year 2015-16

Class : B. Sc. Second year Semester : III & IV

Subject: Industrial Chemistry Paper No. : X & XIV

Week	Topic to be covered
1	-Introduction to Chemical Reaction Engineering
2	- Kinetics of Homogeneous Reaction
3	- Kinetics of Homogeneous Reaction
4	-Interpretation of Batch Reactor Data
5	-Interpretation of Batch Reactor Data
6	-Interpretation of Batch Reactor Data
7	-Numerical Practice and Review
8	-Introduction to reactor Design
9	-Ideal Reactors for single reaction, Batch Reactor
10	-Mixed Flow Reactor
11	-Plug Flow Reactor
12	-Design For Single Reaction
13	-Design For Single Raction, -Design For Multiple Reaction.
14	-Design For Multiple Reaction
15	-Non Ideal flow Reactors

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