

M.SC Semester III

Core Course XII

Environmental Chemistry

**TOPIC:-Unit IV, APPLICATIONS OF GREEN
CHEMISTRY, GREEN CATALYST**

Department of Chemistry

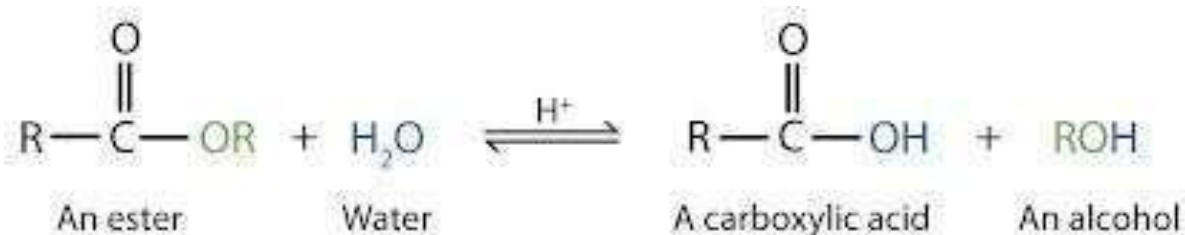
L.S COLLEGE MUZAFFARPUR

B. R. A. BIHAR UNIVERSITY

Dr. Priyanka

WHAT IS A CATALYST ?

- ⦿ They speed up chemical reactions
- ⦿ Used a lot in chemical industry
- ⦿ Increases productivity
- ⦿ Lowers capital use



WHAT IS WASTE ?

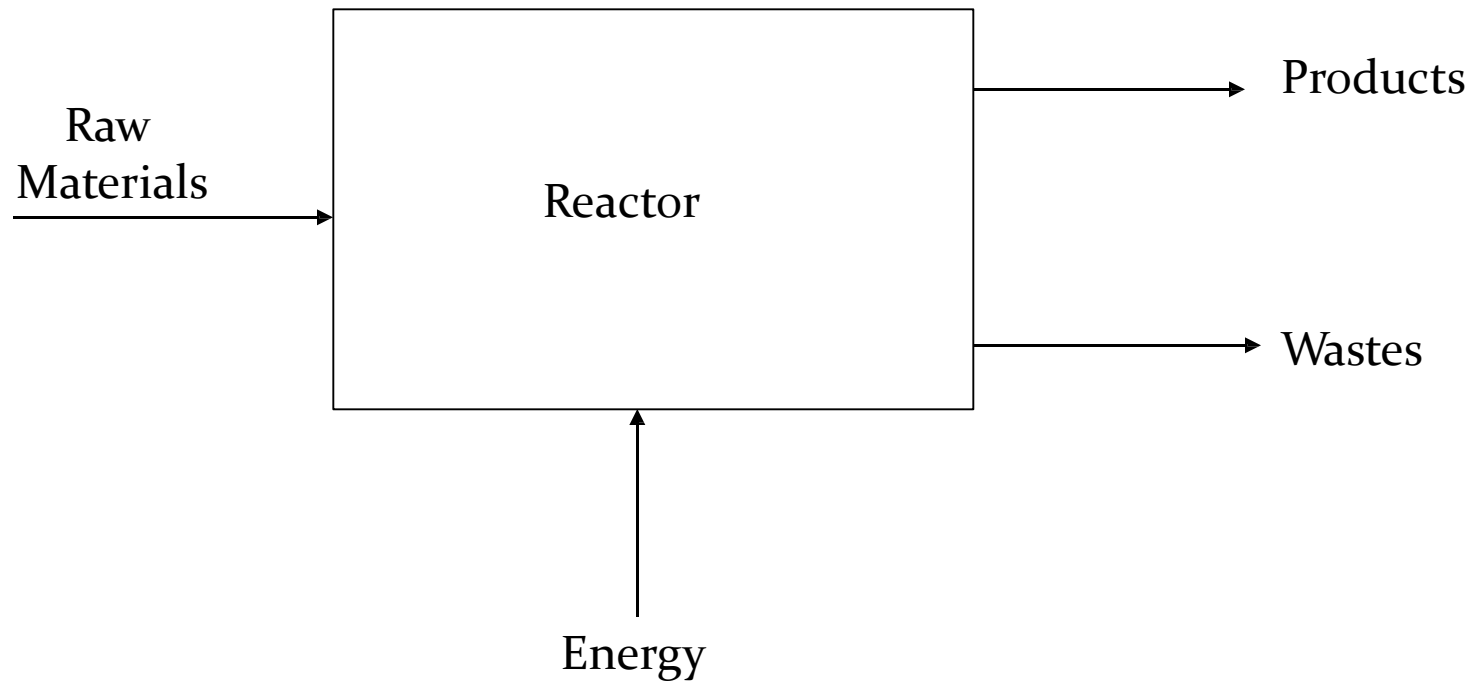
- ⦿ Wastes are materials that we can't make use of them
- ⦿ They are produced undesirably while we are trying to get our product
- ⦿ They pollute our environment

APPLICATION 1

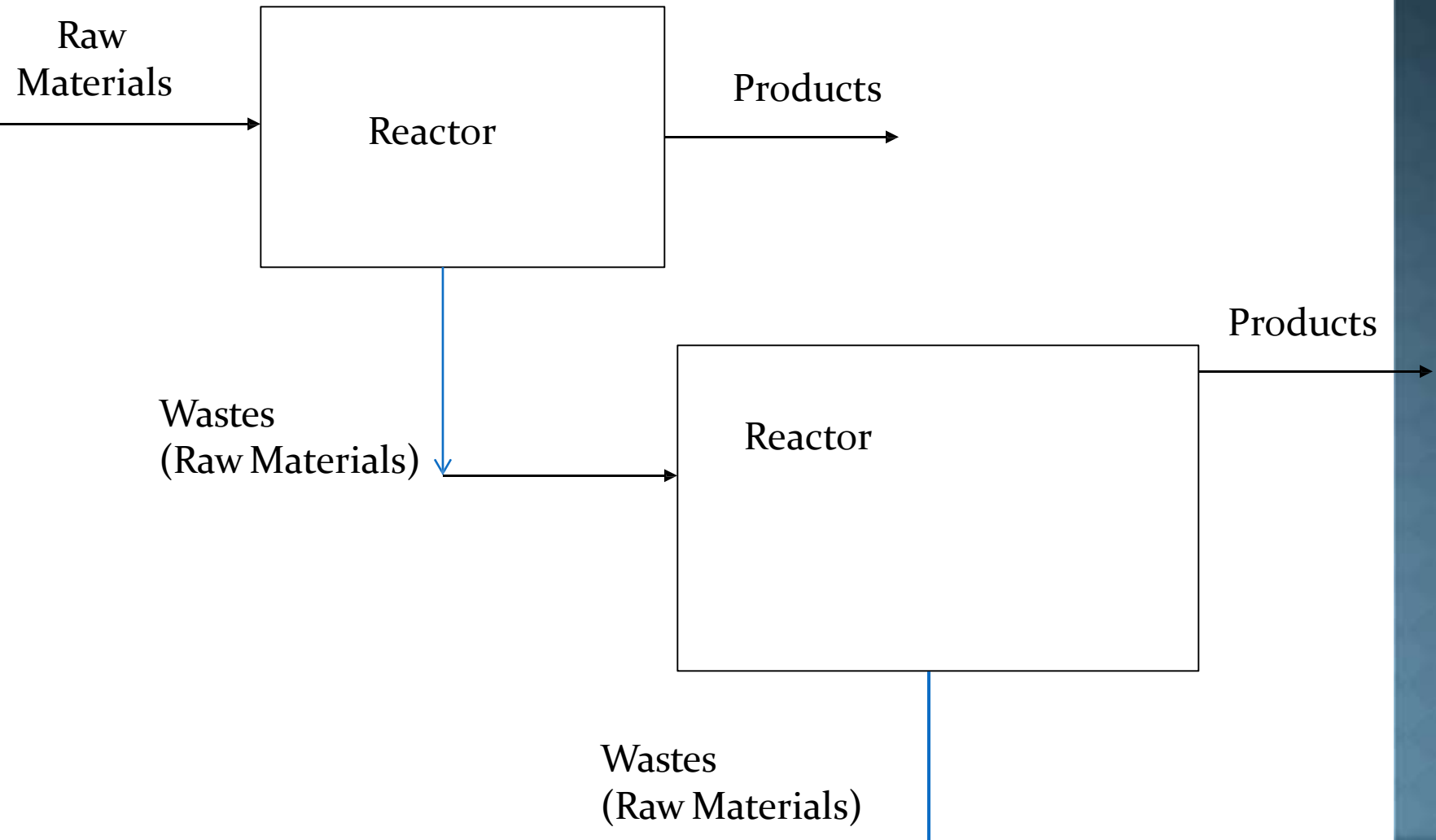
INTEGRATED PLANTS



PRODUCTION PLANT



INTEGRATED PLANTS



PLANT INTEGRATION

- ⦿ “One plant’s waste is other plant’s raw material” approach
- ⦿ Eliminates the waste
- ⦿ Reduces the operating costs