

DEPARTMENT: MECHANICAL SEMESTER: 5

SUBJECT NAME: Heat Transfer SUBJECT CODE: 2151909

FACULTY NAME: PROF. KEVAL SUTHAR

Assignment: 5 HEAT EXCHANGER

1. How are the heat exchangers classified? Sketch the temperature variations in (i) parallel flow heat exchanger (ii) counter flow heat exchangers (iii) Boiler (iv) Condenser

- 2. What are fouling factors? Explain their effect in heat exchanger design.
- 3. Derive an expression for log mean temperature difference of parallel and counter flow heat exchanger.
- 4. Derive the expression for effectiveness of parallel and counter flow heat exchanger.

