## COURSE CODE: HEATCHE

COURSE TITLE: Transport Phenomena 2: Heat Transfer

**DEPARTMENT: Chemical Engineering** 

## TEXTBOOK:

Geankoplis, C. J., Hersel, A. A. and Lepek, D. H. (2018). Transport Processes and Separation Processes Principles, 5th Ed. Prentice Hall International.

McCabe, W. L., Smith, J. C., and Harriott, P. (2007). Unit Operations in Chemical Engineering, 7th Ed. Singapore: McGraw-Hill.

## **REFERENCES:**

- Holman, J. (2009). Heat Transfer, 10<sup>th</sup> Ed, McGraw-Hill.
- Green, D. W. (Editor) and Maloney, J. (Assoc. Editor). (2008). Perry's Chemical Engineers' Handbook, 8<sup>th</sup> Ed. NY: McGraw-Hill.
- Bennet and Myers (1982). Momentum, Heat and Mass Transfer. NY: McGraw-Hill Book & Co.
- Griskey, R. G. (2002). Transport Phenomena and Unit Operations: A Combined Approach. NY: Wiley-Interscience.

## READING LIST:

Please refer to the syllabus for specific topics as reading list on:

- Heat Transfer as Fundamental Transport Phenomenon
- Heat Exchangers
- Evaporator

REQUISITE EQUIPMENT/MATERIALS FOR THE COURSE:

- Personal computer with minimum specification for online learning, and computational simulation
- Scientific Calculator