

**EE5111 Selected Topics in Industrial Control & Instrumentation/EE5061  
Industrial Control & Programming**

**CA5 Assignment for Academic Year 2021/22, Semester 1**

**Topic: Oil & Gas Industry – Overview and Key Applications**

**Note:**

- a) Submission deadline: November 25, 2021
- b) After completing, e mail it to [elemkt@nus.edu.sg](mailto:elemkt@nus.edu.sg) (Attention: Murali Krishnan T)
- c) Use the following file format: your name-course number (EE5061 or EE5111). It can be in PDF format or MS Word

**Questions:**

- Write an overview of ANY ONE of the following processes in detail
  - Offshore
  - FPSO
  - LNG
  - Refinery
- The details should include
  - Description of the process
  - A typical Process Flow Diagram
  - Some typical process control for that process, for e.g. For refinery, distillation control, Fired heater control APC, for LNG, cryogenic instrumentation or APC
  - Any other latest technology information such as application of wireless, IIoT, AI applications for energy, reliability etc. for that process
  - Some real examples anywhere in the world
- It should be about 3 pages maximum. Content is important.