

# N12 Reactor Thermal Hydraulics

|       | Mon                                 | Tue                                | Wed                                   | Thu                                | Fri                                |
|-------|-------------------------------------|------------------------------------|---------------------------------------|------------------------------------|------------------------------------|
| 08 00 |                                     |                                    |                                       |                                    |                                    |
| 09 00 | Introduction (Live Session)         | Heat Conduction (Pt 2)             | Introduction to Two Phase Flow (Pt 1) | Critical Heat Flux                 | Flow Instabilities                 |
| 10 00 | Heat Generation (Pt 1)              | Single Phase Convection (Pt 1)     | Introduction to Two Phase Flow (Pt 2) | Single Phase Hydrodynamics         | Thermal Hydraulic Design           |
| 11 00 | Heat Generation (Pt 2)              | Single Phase Convection (Pt 2)     | Two Phase Heat Transfer (Pt 1)        | Two Phase Hydrodynamics            | Power Conversion (Pt 1)            |
| 12 00 |                                     |                                    |                                       |                                    |                                    |
| 13 00 | Fluid Properties and Thermodynamics | Tutorial 1 & 2 (Live Session)      | Two Phase Heat Transfer (Pt 2)        | Two Phase Hydrodynamics (cont.)    | Power Conversion (Pt 2)            |
| 14 00 |                                     |                                    | Tutorial 3 (Live Session)             | Tutorial 4 (Live Session)          | Tutorial 5 (Live Session)          |
| 15 00 | Heat Conduction (Pt 1)              |                                    |                                       |                                    | Day 5 Consolidation (Live Session) |
| 16 00 | Day 1 Consolidation (Live Session)  | Day 2 Consolidation (Live Session) | Day 3 Consolidation (Live Session)    | Day 4 Consolidation (Live Session) |                                    |
| 17 00 |                                     |                                    |                                       |                                    |                                    |

Sessions in green are time allocated to watch the 2017 recorded lectures which can be found under 'course content' on the menu. There is time allocated between the green sessions to grab a tea or coffee, and the lunch break is 1200 - 1300.

Sessions in orange are live sessions that will be conducted through blackboard collaborate. Apart from the introduction, these take place at the end of each day. These will be a Q & A session to help consolidate the material you learn from the videos that day.

The sessions in blue are tutorial sessions. During these sessions you should work through the tutorial problems indicated. I will be online on blackboard collaborate during these sessions to provide help and support. You are expected to pop in and pop out of the tutorial sessions as required.