**Portfolio Schedule**

**CHEN3010/ CHEN5040 - Chemical Reaction Engineering  
S1 2024**

The portfolio assignments aim to assess your grasp of important principles. They consist of both classroom exercises and homework. The in-class assignments will usually take up a 30-minute segment of a lecture. These activities cover reactor design at different levels of complexity and will provide practical insights for designing real-world reactors. Portfolio tasks will not be conducted every week but will be dispersed throughout the semester. There will be total 8 portfolio tasks.

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| **Week** | **Date and Time** | **Portfolio task** |
| Orientation |  |  |
| 1. | Released on 1 March 2024  Take home, Due: 8 March 2024 | Portfolio - Introduction |
| 2. |  |  |
| 3. | 15 March 2024  In class, Friday: 5 pm – 6 pm | Portfolio - Reactor sizing |
| 4. |  |  |
| 5. | Released on 28 March 2024  Take home, Due date: 8 April 2024 | Portfolio – Isothermal reactor design |
| 6. |  |  |
| 7. | 12 April 2024  In class, Friday: 5 pm – 6 pm | Portfolio - Analysis of rate data |
| 8. | 19 April 2024  In class, Friday: 5 pm – 6 pm | Portfolio- Multiple reactions |
| 9. |  |  |
| 10. | 3 May 2024  In class, Friday: 5 pm – 6 pm | Portfolio- Heat effects |
| 11. | Released on 10 May 2024  Take home, Due date: 17 May 2024 | Portfolio - Heterogeneous reactors |
| 12. |  |  |
| 13. | 24 May 2024  In class, Friday: 5 pm – 6 pm | Portfolio - Distribution of residence times |