



Fraunhofer IKTS-ECU short course on ceramic technologies for industry

This 2-day program aims to provide participants with comprehensive knowledge about the fundamentals of inorganic membranes, membrane processes and membrane plants. Selected applications will be discussed and results of case studies presented.

Industries addressed: Mining, oil and gas; Nutrients, dairy, beverages; Power companies; Plant engineers and Project developers; Water industry

What you will gain:

Working knowledge, case-study insights, a close look at the membrane demonstrator and module designs and optional one-to-one collaboration meeting with Fraunhofer IKTS and ECU.

Day 1 (13 November 2025 - Optional)

One-to-one meetings for discussion on cooperation models with Fraunhofer IKTS and joint projects at the joint lab.

Day 2 (14 November 2025)

- Fundamentals of membrane technology – basic principles, terminology, benefits
- Membrane materials and construction principles, mass transfer and separation mechanism and advantages and disadvantages
- Fundamentals of inorganic membranes – preparation and characteristics
- Mixed-matrix-membranes
- Membrane processes, application and case studies with inorganic and mixed-matrix-membranes in
- Liquid filtration (micro, ultra and nano filtration)
- Pervaporation/vapor permeation
- Membrane distillation and extraction
- Gas separation
- Introduction of IKTS technologies and the joint lab @ECU campus

A membrane demonstrator will be available to show the installation of ceramic membranes in process plants and the spectrum of ceramic membrane shapes.

Details

DATE
13-14 November 2025

TIME
10:00 am – 4:00 pm
(lunch and tea provided)

LOCATION
ECU Joondalup Campus
Building 27

COST
\$200

Fee waiver available for industry professionals. Please contact p.roach@ecu.edu.au

Register now

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