

Thematic Learning Area: Materials

To help you make informed choices regarding broadening and deepening electives, within each Thematic Learning Area (TLA) a number of learning paths are offered. A learning path is a selection of TLA electives across departments, grouped around a specific subtheme. The learning paths within a TLA are based on the assumed amount of pre-requisite knowledge, indicating that familiar programs have better access. This means that some learning paths are specifically accessible for students from one department, whereas other learning paths suits best for students from a specific department. If you have met the expected pre-knowledge, the relevant electives become accessible. You can make well-informed choices by either choosing specific electives across the different learning paths, or by choosing a pre-defined learning path.

Always make sure that you check the required pre-requisite knowledge/courses via the Course Catalogue for the elective courses you would like to follow!

TLA Energy

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| Description of the content | The TLA Materials, incorporates bachelor electives around composites and matter, their characteristics, working mechanisms, and to invent and construct solutions for and answers to contemporary technological challenges. |
| Offered by | BME, CE&C, ME, APSE, EE |
| Language | English |
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Learning path 1 – Chemistry of Materials

| Course code | Course name | Link to course catalogue |
|-------------|---|--------------------------|
| 6BER02 | Macro Organic Chemistry | |
| 8TC20 | Basic Tissue Engineering | |
| 6BER10 | Molecular Simulations in CE&C | |
| 6BER05 | Physical Chemistry 2 | |
| 6BER06 | Electrochemical Energy Conversion & Storage | |
| 6BER08 | Polymer Chemistry & Technology 2 | |
| 6BER04 | Topics in Molecules & Materials | |

Learning path 2 – Mechanics of Materials

| Course code | Course name | Link to course catalogue |
|-------------|--------------------------------|--------------------------|
| 4LC00 | Strength & Structure | |
| 4CBL00 | CBL Computer Aided Engineering | |
| 4MB10 | Material Models | |

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Learning path 3 – Nanomaterials

| Course code | Course name | Link to course catalogue |
|-------------|---|--------------------------|
| 5XPB0 | Nanomaterials: Nano Devices & Integration | |
| 34NPC | Nanomaterials: Physics & Characterization | |
| 6BER01 | Nanomaterials: Chemistry & Fabrication | |

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