

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

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
Contact person	Rob van der Heijden, r.v.der.heijden@tue.nl

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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