

# Recommended Courses at DTU

General Competence (30 Credits)		
Module	Title	Credits
<u>42002</u>	Modelling and Analysis of Sustainable Energy Systems used Operations Research	5
<u>42015</u>	Energy Economics	5
<u>28870</u>	Energy and Sustainability	5
<u>46205</u>	Feasibility studies of energy projects	5
<u>47330</u>	Energy Conversion and Storage	5
<u>42014</u>	Environmental and resource economics	5
<u>46230</u>	Power system balancing with large scale wind power	5
<u>42500/42504 or 42502/42505</u>	Innovation in Engineering or Facilitating innovation into multidisciplinary teams	5

Technological specialization (30 Credits)		
Module	Title	Credits
<u>47319</u>	Functional Materials	5
<u>10318</u>	Many body methods in condensed matter physics	5
<u>26231</u>	Physical Chemistry 3	5
<u>10333</u>	Physics of Sustainable Energy	5
<u>47310</u>	Battery materials and chemistries: from fundamental mechanisms to battery cells	5
<u>47301</u>	Hydrogen Energy and Fuel cells	5
<u>47305</u>	Electrochemistry	5
<u>47335</u>	Computational modelling of materials for energy applications	5
<u>41418</u>	Green Fuels and Power-to-X	5
<u>26510</u>	Catalysis and Sustainable Chemistry	10
<u>10304</u>	Experimental Surface Physics	10
<u>26290</u>	Chemistry at the Nanoscale	5
<u>47313</u>	Solid-state Electrochemical Devices for a Cleaner Society	5
<u>47317</u>	Exergy Analysis	5

Elective courses (30 credits)
<p>Courses from the above list are recommended but not required for the 30 ECTS credits of elective courses. Special courses can also be arranged and will count as elective course ECTS credits. Special courses are also called “project course” – see further info and specifications here:  <a href="https://www.inside.dtu.dk/en/undervisning/regler/regler-for-undervisning/specialkurser?fs=1">https://www.inside.dtu.dk/en/undervisning/regler/regler-for-undervisning/specialkurser?fs=1</a></p>