Overview of MSNE Electives Catalogue (TUMonline)

■ Work [IN2390] Advanced Deep Learning for Computer Vision: Visual Computing ➡ [VK] [CIT4230003] Advanced Machine Learning: Deep Generative Models 🖽 🦊 [VK] [WIB21003] Advanced Seminar Marketing, Strategy, Leadership & Management: Neurophysiological Methods for Organizational Research and Economics ■ ∯ [VK] [MW0892] Applikation von Radioaktivität in Industrie, Forschung und Medizin ■ ∯ [VK] [El7649] Approximate Dynamic Programming and Reinforcement Learning ➡ [VK] [ME0156] Bildgebende Verfahren, Nuklearmedizin ➡ [VK] [WZ2693] Cognitive Neuroscience ■ # [VK] [EI7646] Computational Neuroscience: Eine Ringvorlesung von Modellen bis zu Anwendungen ■

| [VK] [IN2319] Computational Physiology for Medical Image Computing ➡ [VK] [IN2375] Computer Vision III: Detection, Segmentation, and Tracking

- 横 [VK] [WZ1711] Development Policy and Economics: Human Security and Human Development
- | VK] [EI70220] Digital Signal Processing

- | [VK] [MW2373] Einführung in die nichtlineare Dynamik und Chaostheorie
- 🖽 🦊 [VK] [EI7270] Elektromagnetische Felder in der Biomedizin und in medizinischen Anwendungen der Nanotechnik

- ₩ [VK] [IN2379] Fortgeschrittene Datenverarbeitungs- und Visualisierungstechniken
- | [VK] [NAT3002] Fortgeschrittene statistische Physik
- ∯ [VK] [PH1032] Fortgeschrittenenpraktikum Biomedical Engineering and Medical Physics

- [III] ## [VK] [ME702] Grundlegende Einführung in fortgeschrittene MRT und Analysetechniken für Neuro-Anwendungen
- ⊞ 🦊 [VK] [ME701] Grundlegende Einführung in konventionelle MRT und Analysetechniken für Neuro-Anwendungen

- # [VK] [IN2021] Informatikanwendungen in der Medizin

- | [VK] [IN2346] Introduction to Deep Learning
- ₩ [VK] [EI71099] Introduction to Human and Robotic Hand Grasping Control and Manipulation

- ➡ [VK] [IN2330] Konvexe Optimierung f
 ür Computer Vision ■ ₩ [VK] [IN2357] Machine Learning for Computer Vision ■ \(\bigop\) [VK] [IN2323] Machine Learning for Graphs and Sequential Data ➡ [VK] [EI71040] Machine Learning: Methods and Tools ■ ∯ [VK] [EI71059] Mixed Integer Programming and Graph Algorithms for Engineering Problems ■ FVK] [EI7408] Multi-Sensory Based Robot Dynamic Manipulation ■ ★ [VK] [SOT82901] Neural Networks and Deep Learning: From the Neuron to ChatGPT ■

 | [VK] [EI70270] Neuroprosthetics ➡ [VK] [POL70074] Neuro-Technologien f
 ür Gesellschaft gestalten 🗎 🦊 [VK] [WI001238] Never trust statistics unless you fiddled the figure yourself - Creative Data Management and Visualisation for Business &
- ₩ [VK] [SG860023] New Technologies in Neurorehabilitation and Motor Learning
 ₩ [VK] [PH2027] Nichtlineare Dynamik und komplexe Systeme 1
- ➡ [VK] [PH2028] Nichtlineare Dynamik und komplexe Systeme 2

➡ [VK] [CIT431010] Practical Course Advanced Robocup@Home ■ Wearable Robotics: Upper Limb Exoskeletons ■ ₩ [VK] [MW0450] Praktikum Industrielle Softwareentwicklung f
ür Ingenieure / C++ ■ ∯ [VK] [CIT4310004] Projektpraktikum Biosignalverarbeitung und Modellierung ■ ₩ [VK] [EI78046] Projektpraktikum Human-Centered Neuroengineering: Neurorehabilitation 🖽 🦊 [VK] [El04024] Python for Engineering Data Analysis - From Machine Learning to Visualization FIVK] [IN2138] Robot Motion Planning ■ ₩ [VK] [WZ3096] Scientific Computing for Biological Sciences with Matlab. ➡ [VK] [BV400016] Selbständig wissenschaftlich Arbeiten ■

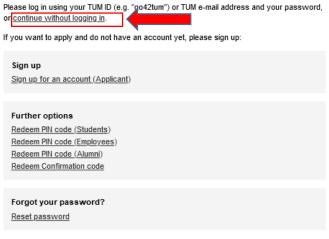
| [VK] [EI7493] Signal Processing for Audio Technology ■ ∯ [VK] [El71036] Software Architecture for Distributed Embedded Systems ■ ₩ [VK] [CLA20563] Was hält eine Gesellschaft zusammen? ➡ [VK] [CLA10450] Wenn aus Ingenieuren Manager werden ➡ [VK] [ED110068] Wissenschaftliches Programmieren und Dynamische Modellierung in Julia 🖽 🦊 [VK] [El7622] Zulassungsverfahren und Qualitätsmanagement in der Medizintechnik

In addition, for REC only:

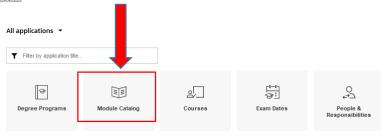
Source: TUM Online - as of August 2024

Kindly use https://campus.tum.de (no login required):

First time visiting? Welcome to TUMonline!

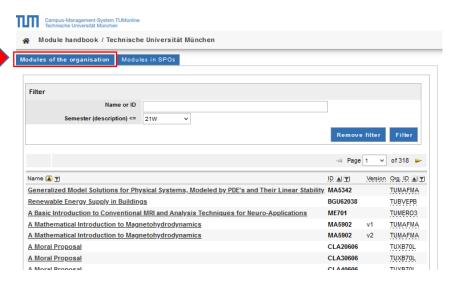


Do you have any questions? Please have a look at our <u>TUMonline Guides</u> or <u>Contact IT-</u> Support

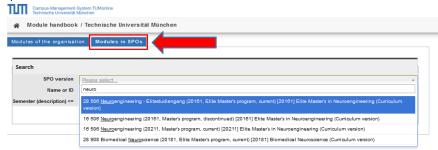




"Modules of the Organisation" (Default Tab) = List and links to all modules existing at TUM



Filtering for MSNE Context (= MSNE Mentors recommended at least once)
Use "Modules in SPOs" tab and edit in field "SPO-version" the keyword "neuro" and press <enter>



Existing modules may be in "paused" or "discontinued" status!

→ do a google search using the ID, e.g. "MA5342", or use TUM Courses Catalogue, or visit webpages of TUM institutes, most have a dedicated "teaching" – section.