

**List of English courses offered at the University of Oldenburg in winter semester 2024/2025**  
winter semester 2024/2025

Department	VAK	Title	Type	SWS	Teachers	Degree
Institute of Physics	5.04.612	Mechanics	Lecture	2	Prof. Dr. Martin Kühn Annika Gaiser	Bachelor
Institute of Physics	5.04.420 3	Angewandte Psychophysik: Anwendungen bei Audioqualitätsbewertungen / Applied Psychophysics: Applications in audio quality	Lecture	2	Prof. Dr. Steven van de Par Stephan Töpken	Master
Institute of Physics	5.04.467 3	Hyperloop Engineering	Seminar	-	Prof. Dr. Walter Neu, Dipl.-Phys. Thomas Schüning Lukas Eschment	Master
Institute of Physics	5.04.459 0	Advanced Topics Speech and Audio Processing	Lecture	-	Prof. Dr. Simon Doclo	Promotion Master
Institute of Physics	5.06.M11 7	Energy Meteorology	Lecture	-	Dr. Thomas Schmidt Dr. Bruno Schyska	Master
Institute of Physics	5.04.311 Versuch 05	Fortgeschrittenenpraktikum Physik (FPR-B) Versuch 05 - Spektroskopie am Jod- Molekül	Practical training	-	Katem Mitkong	Erweiterungsfach Bachelor Master of Education
Institute of Physics	5.04.638	Exercises Mathematical	Exercises	2	Siegfried Gündert	Bachelor

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	Ü2	Methods for Physics and Engineering III			Dr.-Ing. Aleksej Chinaev M. Sc. Jiatong Li	
Institute of Physics	5.04.091 a	Seminar to Basic Laboratory (english)	Seminar	2	Priv.-Doz. Dr. Michael Krüger Dipl.-Ing. (TU) Andreas Hermann Schmidt	Bachelor
Institute of Physics	5.04.618 Ü1	Mathematical Methods for Physics and Engineering I, exercise	Exercises	2	PD Dr. Stefan Uppenkamp, Dipl.-Phys. Urantuya Batsuuri	Bachelor
Institute of Physics	5.04.407 0 Ü2	Übung zu Fluid Dynamics I / Fluiddynamik I	Exercises	-	TutorInnen, der Physik Prof. Dr. Kerstin Avila Canellas	Master
Institute of Physics	5.04.612 Ü1	Exercises Mechanics	Exercises	2	Prof. Dr. Martin Kühn Annika Gaiser	Bachelor
Institute of Physics	5.04.638	Mathematical Methods for Physics and Engineering III	Lecture	2	Prof. Dr. Simon Doclo Prof. Dr. Gerald Enzner Prof. Dr. Steven van de Par Dr.-Ing. Aleksej Chinaev	Bachelor

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Institute of Physics	5.04.637	Laboratory Project I	Practical training	-	Dr. rer. nat. Sandra Koch Markus Schellenberg Ulrich Teubner Prof. Dr. Walter Neu, Dipl.-Phys. Thomas Schüning Stefan Wild Lars Jepsen Sabine Tiedeken Volker Braun Prof. Dr. Philipp Huke Prof. Dr. Martin Silies Freerk Schütt	Bachelor
Institute of Physics	5.04.457 9	Modern Optics - Solid-State Optomechanics	Seminar	-	Dr. rer. nat. Martin Esmann	Master
Institute of Physics	5.04.202 Ü1	Exercises to Atomic and Molecular Physics	Exercises	2	Prof. Dr. Martin Silies Dr. rer. nat. Juanmei Duan	Bachelor
Institute of Physics	5.04.302 Ü1	Exercise: Solid State Physics	Exercises	-	Prof. Dr. Niklas Nilius Ghada Missaoui	Bachelor
Institute of Physics	5.04.661 1	Advanced Optical Spectroscopy	Seminar	2	Markus Schellenberg Dr. rer. nat. Sandra Koch Prof. Dr. Walter Neu, Dipl.-Phys.	Master

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Institute of Physics	5.04.618	Mathematical Methods for Physics and Engineering I, lecture	Lecture	8	PD Dr. Stefan Uppenkamp, Dipl.-Phys.	Bachelor
Institute of Physics	5.06.M30 1	Renewable Energy Project	Seminar	-	Dr. rer. nat. Tanja Behrendt	Master
Institute of Physics	5.06.M12 7 Ü	Energy Storage	Exercises	-	Dr. Martin Knipper	Master
Institute of Physics	5.06.M30 8 Ü	Resilient Energy Systems	Exercises	-	Dr.-Ing. Herena Torio	
Institute of Physics	5.04.638 Ü1	Exercises Mathematical Methods for Physics and Engineering III	Exercises	2	M. Sc. Jiatong Li Siegfried Gündert Dr.-Ing. Aleksej Chinaev	Bachelor
Institute of Physics	5.04.457 1 Ü1	Density-functional theory	Exercises	-	Dr. Ana Maria Valencia Garcia	Master
Institute of Physics	5.04.302	Solid State Physics	Lecture	-	Prof. Dr. Niklas Nilius	Bachelor
Institute of Physics	5.04.421 3 Ü2	Machine Learning I - Probabilistic Unsupervised Learning	Exercises	-	Dmytro Velychko Prof. Dr. Jörg Lücke	Master

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Institute of Physics	5.04.776	The Space Environment	Lecture	-	Prof. Dr. Björn Poppe Dr. Gerhard Drolshagen	Master
Institute of Physics	5.04.466 1	Spectrophysics	Lecture	-	Prof. Dr. Walter Neu, Dipl.-Phys.	Master
Institute of Physics	5.04.406 6	Python for data and complex systems scientists (Blockveranstaltung)	Seminar	-	Dr. rer. nat. Jan Friedrich	Master
Institute of Physics	5.04.618 Ü4	Mathematical Methods for Physics and Engineering I, exercise	Exercises	2	PD Dr. Stefan Uppenkamp, Dipl.-Phys. Felipe Bizarro Nini	Bachelor
Institute of Physics	5.06.M31 5	Hidden Champions in RE	Lecture	-	Dr.-Ing. Herena Torio Dr. Alexandra Pehlken	Master
Institute of Physics	5.06.M11 7 Ü	Energy Meteorology	Exercises	-	Dr. Thomas Schmidt	Master
Institute of Physics	5.06.M12 1 Ü	Photovoltaics	Exercises	-	Dr. Martin Knipper	Master
Institute of Physics	5.04.407 0 Ü1	Übung zu Fluid Dynamics I / Fluiddynamik I	Exercises	2	TutorInnen, der Physik Prof. Dr. Kerstin Avila Canellas	Master

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Institute of Physics	5.04.422 6	Aktuelle Probleme des Maschinellen Lernens und -Hörens	Seminar	2	Priv.-Doz. Dr. Jörn Anemüller	Master
Institute of Physics	5.04.421 4	Advanced Models and Algorithms in Machine Learning	Seminar	2	Prof. Dr. Jörg Lücke	Master
Institute of Physics	5.04.311 Versuch 08	Fortgeschrittenenpraktikum Physik (FPR-B) Versuch 08 - Room acoustics in a "shoebox"	Practical training	-	Prof. Dr. Steven van de Par Siegfried Gündert	Erweiterungsfach Bachelor Master of Education
Institute of Physics	5.06.M30 7	Report & Presentation External Training	Seminar	-	Dr.-Ing. Herena Torio	Master
Institute of Physics	5.06.M10 6	Renewable Energy Laboratories	Practical training	-	Dr. Martin Knipper Andreas Günther Dr. rer. nat. Tanja Behrendt	Master
Institute of Physics	5.04.421 3 Ü3	Machine Learning I - Probabilistic Unsupervised Learning	Exercises	-	Prof. Dr. Jörg Lücke Yidi Ke	Master
Institute of Physics	5.04.421 3 Ü1	Machine Learning I - Probabilistic Unsupervised Learning	Exercises	-	Till Kahlke Prof. Dr. Jörg Lücke	Master

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Institute of Physics	5.04.255 Ü1	Programming course C++ (Programmierkurs C++)	Exercises	2	Stefan Harfst Tjard Robben	Bachelor
Institute of Physics	5.04.255	Programming course C++ (Programmierkurs C++)	Lecture	2	Stefan Harfst Finn Biesterfeldt Tjard Robben	Bachelor
Institute of Physics	5.04.457 1	Density-functional theory	Lecture	-	Dr. Ana Maria Valencia Garcia	Master
Institute of Physics	5.04.071 Gruppe 09	Grundpraktikum Physik I / Basic Laboratory I für Engineering Physics	Practical training	-	Christin Warns Annette Berger Udo Große, B. Sc. Sinem Uluocak Dincer Manuel Alejandro Zúñiga Inestroza	Erweiterungsfach Bachelor
Institute of Physics	5.04.408 2	Spectroscopy at the Nanoscale	Seminar	-	Prof. Dr. Niklas Nilius	Master
Institute of Physics	5.04.661 0	Modern Methods in Optical Microscopy	Seminar	-	Markus Schellenberg Prof. Dr. Walter Neu, Dipl.-Phys.	Master
Institute of Physics	5.04.202	Atomic and Molecular	Lecture	2	Prof. Dr. Martin Silies	Bachelor

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		Physics				
Institute of Physics	5.04.624c	Introduction to Renewable Energies	Lecture	2	Prof. Dr. Martin Kühn	Bachelor
Institute of Physics	5.04.612 Ü2	Exercises Mechanics	Exercises	-	Prof. Dr. Martin Kühn TutorInnen, der Physik Annika Gaiser	Bachelor
Institute of Physics	5.06.M30 5	Internship	miscellaneous	-	Dr.-Ing. Herena Torio	Master
Institute of Physics	5.06.M31 5 Ü	Hidden Champions in RE	Exercises	-	Dr.-Ing. Herena Torio Dr. Alexandra Pehlken	Master
Institute of Physics	5.04.618 Ü3	Mathematical Methods for Physics and Engineering I, exercise	Exercises	2	PD Dr. Stefan Uppenkamp, Dipl.-Phys. Rebecca Felsheim	Bachelor
Institute of Physics	5.04.618 Ü2	Mathematical Methods for Physics and Engineering I, exercise	Exercises	2	PD Dr. Stefan Uppenkamp, Dipl.-Phys. Tom Henkel	Bachelor
Institute of Physics	5.04.405 6	Modern Optics - Nonlinear Optics	Seminar	-	Prof. Dr. Martin Silies	Master



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Institute of Physics	5.06.M12 3 Ü	Renewable Energy Heat	Exercises	2	Dr.-Ing. Herena Torio	Master
Institute of Physics	5.06.M11 9	Energy Systems	Lecture	-	Dr. Martin Knipper Dr.-Ing. Herena Torio	Master
Institute of Physics	5.04.466 8	Photonics	Lecture	-	Ulrich Teubner	Master
Institute of Physics	5.04.404 0	Modern Microcontroller- Their Architecture, Interfaces and Programming	Lecture	-	Prof. Dr. Achim Kittel	Master
Institute of Physics	5.06.M30 8	Resilient Energy Systems	Lecture	-	Dr.-Ing. Herena Torio	Master
Institute of Physics	5.06.M12 5	Basics of Wind Energy	Lecture	-	Dr. Michael Hölling	Master
Institute of Physics	5.04.302 Ü2	Exercise: Solid State Physics	Exercises	-	Prof. Dr. Niklas Nilius Ghada Missaoui	Bachelor
Institute of Physics	5.04.645	Control Systems / Control Theory	Lecture	-	Prof. Dr. Philipp Huke	Bachelor
Institute of Physics	5.06.M10 6 Ü	Renewable Energy Laboratories	Exercises	-	Dr. Martin Knipper Dr.-Ing. Herena Torio Andreas Günther	Master

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Institute of Physics	5.04.663	Acoustical Metrology and Virtual Acoustics - Akustische Messtechnik	Lecture	4	Prof. Dr. Matthias Blau Prof. Dr. Jörg Bitzer Prof. Dr. Steven van de Par Prof. Dr. Simon Doclo	Master
Institute of Physics	5.04.652	Hyperloop Technologies	Project	-	Prof. Dr. Walter Neu, Dipl.-Phys. Thomas Schüning Lukas Eschment	Bachelor
Institute of Physics	5.04.256 b	Introduction to Matlab	Lecture	-	Markus Schellenberg	Bachelor
Institute of Physics	5.04.656	Seminar Advanced Topics in Engineering Physics	Seminar	-	Prof. Dr. Walter Neu, Dipl.-Phys. Prof. Dr. Martin Silies	Master
Institute of Physics	5.06.M12 5 Ü	Basics of Wind Energy	Exercises	-	Dr. Michael Hölling	Master
Institute of Physics	5.06.M12 1	Photovoltaics	Lecture	-	Dr. Martin Knipper	Master
Institute of Physics	5.04.638 Ü3	Exercises Mathematical Methods for Physics and	Exercises	2	Dr.-Ing. Aleksej Chinaev Siegfried Gündert	Bachelor

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		Engineering III			M. Sc. Jiatong Li	
Institute of Physics	5.04.992 W	Guidance for independent scientific work	Seminar	-	Prof. Dr. Philipp Huke Prof. Dr. Martin Silies Ulrich Teubner Prof. Dr. Walter Neu, Dipl.-Phys. Markus Schellenberg Dr. rer. nat. Sandra Koch	Bachelor Master
Institute of Physics	5.06.M12 7	Energy Storage	Lecture	-	Dr. Martin Knipper Prof. Dr. Michael Wark, Dipl.-Chem.	Master
Institute of Physics	5.04.466 0	Advanced Metrology	Lecture	2	Prof. Dr. Philipp Huke	Master
Institute of Physics	5.04.624 a	Introduction to Laser & Optics	Lecture	-	Prof. Dr. Martin Silies	Bachelor
Institute of Physics	5.04.646 a	Laboratory Project II - Laser & Optics	Practical training	-	Dr. rer. nat. Sandra Koch Sabine Tiedeken Prof. Dr. Philipp Huke Prof. Dr. Walter Neu, Dipl.-Phys. Ulrich Teubner Markus Schellenberg	Bachelor

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					Lars Jepsen Stefan Wild Volker Braun Prof. Dr. Martin Silies Freerk Schütt	
Institute of Physics	5.04.422 2	Spezialkurs im Strahlenschutz nach Strahlenschutz und Röntgenverordnung (Spezialkurs Strahlenschutzseminar)	Seminar	-	Prof. Dr. Björn Poppe Heiner von Boetticher Karl-Joachim Doerner Antje Ruehmann, Ph.D. Hauke Fischer, M. Sc.	Master
Institute of Physics	5.06.M11 9 Ü	Energy Systems	Exercises	-	Dr. Martin Knipper Dr.-Ing. Herena Torio	Master
Institute of Physics	5.04.256 a	Introduction to Matlab	Lecture	-	Markus Schellenberg	Bachelor
Institute of Physics	5.04.255 Ü2	Programming course C++ (Programmierkurs C++)	Exercises	2	Stefan Harfst Finn Biesterfeldt	Bachelor
Institute of Physics	5.04.423 0	Oberseminar „Journal Club“ Speech Technology and Hearing Aids	Seminar	-	Prof. Dr. Gerald Enzner	Master
Institute of Physics	5.04.641	Production Engineering	Lecture	2	Florian Schmidt Sven Carsten Lange	Bachelor

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Institute of Physics	5.04.657 0	Fundamentals of Optics	Lecture	4	Ulrich Teubner	Master
Institute of Physics	5.04.401 3a	Current trends in Gravitation I	Seminar	-	Prof. Dr. Jutta Kunz- Drolshagen Prof. Dr. Betti Hartmann Priv.-Doz.Dr. Burkhard Kleihaus	Master
Institute of Physics	5.06.M12 3	Renewable Energy Heat	Lecture	2	Dr.-Ing. Herena Torio	Master
Institute of Physics	5.06.M10 1	Introductory Laboratory	Practical training	-	Dr.-Ing. Herena Torio Dr. Martin Knipper Dr. rer. nat. Tanja Behrendt Andreas Günther Paul Ziethe	Master
Institute of Physics	5.04.624 b	Introduction to Medical Radiation Physics	Lecture	-	Prof. Dr. Björn Poppe PD Dr. Hui Khee Looe Dr. Daniela Eulenstein	Bachelor
Institute of Physics	5.06.M31 7	Hydrogen & Fuel Cells	Lecture	-	Prof. Dr. Robert Steinberger- Wilckens Dr. Alexander Dyck	Master

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					Andreas Günther	
Institute of Physics	5.04.706	Einführung und Grundlagen zur Lasermaterialbearbeitung / Introduction to Laser Material Processing	Lecture	2	Thomas Schüning Marcel Stamm Hermann Merkel	Bachelor
Institute of Physics	5.06.M11 3	Python Programming and Modelling	Lecture	-	Dr.-Ing. Herena Torio Andreas Günther Dr. rer. nat. Jan Friedrich Balthazar Arnoldus Maria Sengers Dr. Martin Dörenkämper	Master
Institute of Physics	5.04.421 3	Machine Learning I - Probabilistic Unsupervised Learning	Lecture	2	Prof. Dr. Jörg Lücke	Master
Institute of Physics	5.04.612 Ü3	Extraordinary Exercises Mechanics	Exercises	-	Prof. Dr. Martin Kühn Annika Gaiser Arjun Anantharaman	Bachelor
Institute of Physics	5.04.464 2	High-Energy Radiation Physics / Hochenergie-Strahlenphysik	Lecture	-	PD Dr. Hui Khee Looe Prof. Dr. Björn Poppe	Master
Institute of Physics	5.04.050 Ü4	Math pre-course tutorial in English /Übungen zum	Exercises	-	TutorInnen, der Physik Axel Prüser	

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		Vorkurs Mathematik für Physik				
Institute of Physics	5.04.406 1	Wind Energy Physics (former Windenergy)	Lecture	-	Matthias Wächter	Master
Institute of Physics	5.04.202 Ü2	Excercises to Atomic and Molecular Physics	Exercises	2	Prof. Dr. Martin Silies Somayeh Sourì	Bachelor
Institute of Physics	5.04.692	Laser Safety Instruction	Seminar	-	Prof. Dr. Martin Silies	Bachelor Master
Institute of Physics	5.04.311 Versuch 09	Fortgeschrittenenpraktikum Physik (FPR-B) - Versuch 09 - Praktikum Diodenlaser	Practical training	-	Naby Hadilou	Erweiterungsfach Bachelor Master of Education