

Classes in English at the Faculty of Physics, Astronomy and Informatics planned for 2019/20 academic year

| USOS code 0800- | Subject | Class form | Semester | Number of classes | Lecturer | ECTS |
|--------------------------|--|--------------|-------------------|-------------------|----------------------|------|
| TEWZGL | Teoria względności (Theory of Relativity) | lect. + lab | summer | 60 | Prof. B. Roukema | 5 |
| KOSMO | Kosmologia (Cosmology) | Lect. | summer | 30 | Prof. B. Roukema | 3 |
| OG-EN-STB1 OG-EN-STB2 | Seminar in theoretical biophysics for PhD students | sem. | Winter/ summer | 30/30 | Prof. W. Nowak | 2/2 |
| MMC | Methods for materials characterization | lect. + lab | summer | 60 | Dr A. Zawadzka | 5 |
| PROSMGR | Master proseminar | sem | winter | 20 | | 2 |
| WMK1 | Selected topics of quantum mechanics 1 | Lect. | winter | 30 | Prof. R. Ciuryło | 3 |
| WMK2 | Selected topics of quantum mechanics 2 | Lect. | summer | 30 | Prof. W. Nowak | 3 |
| QCOMM | Quantum communication in practice | Lect. | winter | 30 | Dr Lasota | 3 |
| COMPSPEC1 | An introduction to computational spectroscopy | Lect.+ lab. | winter | 60 | group | 6 |
| COMPSPEC2 | State-of-the-art computational electronic spectroscopy | Lect. + lab. | summer | 60 | group | 6 |
| ASTROBIO | Introduction to astrobiology | Lect. | summer | 30 | Prof. G. Maciejewski | 3 |
| HITRA | High Time Resolution Astrophysics | Lect. | summer | 30 | Dr A. Słowikowska | 3 |

Modules for Erasmus students at the Faculty of Physics, Astronomy and Informatics planned for 2019/20 academic year

Module 1 (Optoelectronics) (29 ECTS)

| USOS code 0800- | Subject | Class form | Semester | Number of classes | Lecturer | ECTS |
|-----------------|--|--------------|----------|-------------------|------------------|------|
| PROSMGR | Proseminarium Magisterskie (Master proseminar) | sem | winter | 20 | | 2 |
| OPTEL | Optoelektronika (Optoelectronics) | Lect.+ lab. | summer | 75 | Prof. C. Koepke | 6 |
| POPTO | Pracownia optoelektroniki (Optoelectronics Lab.) | Lab. | winter | 90 | Dr K. Wiśniewski | 6 |
| FZLAS | Fizyka i zastosowanie laserów (Physics and Applications of Lasers) | Lect. + lab. | summer | 60 | Prof. D. Lisak | 5 |
| PMIKRO | Pracownia mikroelektroniki (Microelectronics Lab.) | Lab. | summer | 90 | Dr A. Zawadzka | 5 |
| MMC | Methods for materials characterization | lect. + lab | summer | 60 | Dr A. Zawadzka | 5 |

Module 2 (Physics) (33 ECTS)

| USOS code 0800- | Subject | Class form | Semester | Number of classes | Lecturer | ECTS |
|----------------------|--|--------------|-------------------|-------------------|--|------|
| PROSMGR | Proseminarium magisterskie (Master proseminar) | sem | winter | 20 | | 2 |
| ELDKLAS | Elektrodynamika (Electrodynamics) | Lect. + lab. | winter | 60 | Prof. D. Chruściński | 5 |
| MMF | Metody matematyczne fizyki (Mathematical Methods in Physics) | Lect. + lab. | summer | 60 | Prof. D. Chruściński | 5 |
| OPTKW1 OPTKW2 | Optyka kwantowa 1 lub 2 (Quantum Optics 1 or 2) | Lect. + lab | Winter/ summer | 60 | Prof. J. Zaremba/ Dr P. Kolenderski | 5 |
| PRFIZ2-1 PRFIZ2-2 | Pracownia fizyczna 1 lub 2 (Physics Lab. 1 or 2) | lab | Winter/ summer | 90 | | 5 |
| TEWZGL | Teoria względności (Theory of Relativity) | lect. + lab | summer | 60 | Prof. B. Roukema | 5 |
| KOSMO | Kosmologia (Cosmology) | Lect. | summer | 30 | Prof. B. Roukema | 3 |
| QCOMM | Quantum communication in practice | Lect. | winter | 30 | Dr Lasota | 3 |

Module 3 (Astronomy) (41 ECTS)

| USOS code 0800- | Subject | Class form | Semester | Number of classes | Lecturer | ECTS |
|-----------------|--|-------------|----------|-------------------|----------------------|------|
| PROSMGR | Proseminarium magisterskie (Master proseminar) | sem | winter | 20 | | 2 |
| MECHNB | Mechanika nieba (Celestial Dynamics) | lect + lab | winter | 60 | Prof. K. Goździewski | 5 |
| BEGAL | Budowa i ewolucja galaktyk (Galaxy formation and evolution) | Lect. + lab | summer | 60 | Prof. M. Hanasz | 5 |
| FUPL | Fizyka układów planetarnych (Physics of Planetary Systems) | Lect + lab | summer | 60 | Prof. A. Niedzielski | 5 |
| PARAD | Pracownia astrofizyki radiowej (Radio Astrophysics Laboratory) | lab | winter | 60 | Prof. M. Szymczak | 4 |
| ASCHEM | Astrochemia (Astrochemistry) | Lect. | winter | 30 | Dr A. Bartkiewicz | 3 |
| ASPOGAL | Astronomia pozagalaktyczna (Extragalactic astronomy) | lect | winter | 30 | Prof. A. Marecki | 3 |
| TEWZGL | Teoria względności (Theory of Relativity) | lect. + lab | winter | 60 | Prof. B. Roukema | 5 |
| KOSMO | Kosmologia (Cosmology) | Lect. | winter | 30 | Prof. B. Roukema | 3 |
| ASTROBIO | Introduction to astrobiology | Lect. | summer | 30 | Prof. G. Maciejewski | 3 |
| HITRA | High Time Resolution Astrophysics | Lect. | summer | 30 | Dr A. Słowikowska | 3 |