

## Subject card

|                                             |                                                                                                                                                                                                                                                                                                                                                         |                                                          |                                         |                                     |                        |            |     |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------|------------------------|------------|-----|
| Subject name and code                       | Seminar III - LEWKOWICZ Aneta, PG_00148251                                                                                                                                                                                                                                                                                                              |                                                          |                                         |                                     |                        |            |     |
| Field of study                              | Criminology                                                                                                                                                                                                                                                                                                                                             |                                                          |                                         |                                     |                        |            |     |
| Date of commencement of studies             | October 2026                                                                                                                                                                                                                                                                                                                                            |                                                          | Academic year of realisation of subject |                                     | 2027/2028              |            |     |
| Education level                             | Master's studies                                                                                                                                                                                                                                                                                                                                        |                                                          | Subject group                           |                                     | Optional subject group |            |     |
| Mode of study                               | part-time studies                                                                                                                                                                                                                                                                                                                                       |                                                          | Mode of delivery                        |                                     | at the university      |            |     |
| Year of study                               | 2                                                                                                                                                                                                                                                                                                                                                       |                                                          | Language of instruction                 |                                     | Polish                 |            |     |
| Semester of study                           | 4                                                                                                                                                                                                                                                                                                                                                       |                                                          | ECTS credits                            |                                     | 4.0                    |            |     |
| Learning profile                            | academic                                                                                                                                                                                                                                                                                                                                                |                                                          | Assessment form                         |                                     | credit                 |            |     |
| Conducting unit                             | Faculty of Law and Administration -> Rector                                                                                                                                                                                                                                                                                                             |                                                          |                                         |                                     |                        |            |     |
| Name and surname of lecturer (lecturers)    | Subject supervisor                                                                                                                                                                                                                                                                                                                                      |                                                          | dr hab. inż. Aneta Lewkowicz, prof. UG  |                                     |                        |            |     |
|                                             | Teachers                                                                                                                                                                                                                                                                                                                                                |                                                          |                                         |                                     |                        |            |     |
| Lesson types                                | Lesson type                                                                                                                                                                                                                                                                                                                                             | Lecture                                                  | Tutorial                                | Laboratory                          | Project                | Seminar    | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                   | 0.0                                                      | 0.0                                     | 0.0                                 | 0.0                    | 20.0       | 20  |
|                                             | E-learning hours included: 0.0                                                                                                                                                                                                                                                                                                                          |                                                          |                                         |                                     |                        |            |     |
| Learning activity and number of study hours | Learning activity                                                                                                                                                                                                                                                                                                                                       | Participation in didactic classes included in study plan |                                         | Participation in consultation hours |                        | Self-study | SUM |
|                                             | Number of study hours                                                                                                                                                                                                                                                                                                                                   | 20                                                       |                                         | 0.0                                 |                        | 80.0       | 100 |
| Subject objectives                          | 1. introduction of the student to the methodology of the thesis.<br><br>2. discussing the topic of work, work plan.<br><br>3. introduction of the student to the principles of work in the scientific laboratory (research laboratory).<br><br>4. preparation of the thesis by the student.<br><br>5. preparation of the student for the master's exam. |                                                          |                                         |                                     |                        |            |     |

| Learning outcomes | Course outcome                                                                                                                                                                                                                                                                                                 | Subject outcome | Method of verification |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|
|                   | [KRYMMU2_K03] Is convinced of the necessity of ethical and professional conduct, acts in accordance with ethical principles, identifies and formulates moral problems and ethical dilemmas related to their own and others' work, and seeks optimal solutions.                                                 |                 |                        |
|                   | [KRYMMU2_K01] Is aware of the level of their knowledge and skills, critically evaluates them, understands the need for lifelong learning, and recognizes the importance of knowledge in solving cognitive and practical problems; when unable to solve a problem independently, seeks the opinions of experts. |                 |                        |
|                   | [KRYMMU2_U05] Is able to independently propose solutions to problems, carry out decision-making processes in this area, organise and coordinate team work, and act in an entrepreneurial manner.                                                                                                               |                 |                        |
|                   | [KRYMMU2_U02] Is able to independently acquire knowledge and develop professional competences using various sources (in native and foreign languages) and modern technologies.                                                                                                                                 |                 |                        |
|                   | [KRYMMU2_U01] Is able to apply theoretical knowledge of criminology and related disciplines to analyse, synthesise and interpret complex and non-routine problems, as well as to formulate solutions in changing and unpredictable conditions.                                                                 |                 |                        |

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Subject contents                | <p>To introduce the basic methodology used by an expert in physical and chemical testing.</p> <p>To provide the student with information on how to interpret test results, giving standards for common testing methods used in a forensic laboratory.</p> <p>Forensic Expertise.</p> <p>To present the issues related to evidence- sample to be tested as environmental material (contaminated and difficult to isolate from the substrate).</p> <p>Basic methods used in structural-spectroscopic analysis of samples (evidence):</p> <p>SEM - Scanning Electron Microscope</p> <p>UV/VIS spectrophotometry</p> <p>Spectrofluorimetry.</p> <p>Stereoscopic microscope with fluorescence</p> <p>Raman spectroscopy</p> <p>Application of the above research methods to the analysis of evidence.</p> |
| Prerequisites and co-requisites |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| Assessment methods and criteria | Subject passing criteria                        | Passing threshold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Percentage of the final grade |
|---------------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
|                                 | Report, Laboratory work and/or Theoretical work | 51.0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100.0%                        |
| Recommended reading             | Basic literature                                | <p>1. D. Halliday, R. Resnick, J. Walker, "Podstawy Fizyki", Wydawnictwo Naukowe PWN, Warszawa 2008;</p> <p>2. P.W. Atkins, Chemia fizyczna, Wydawnictwo Naukowe PWN, Warszawa 2007;</p> <p>3. A.Z. Hryniewicz, E. Rokita Fizyczne metody badań w biologii , medycynie i ochronie środowiska, Wydawnictwo Naukowe PWN, Warszawa 1999;</p> <p>4. M. Kulicki, V. Kwiatkowska Wójcikiewicz, L. Stęпка Kryminalistyka. Wybrane zagadnienia teorii praktyki śledczo są-<br/>dowej,<br/>Wydawnictwo Uniwersytetu Mikołaja Kopernika, 2009;</p> <p>5. J. Widacki Kryminalistyka ,Wydawnictwo C.H. Beck, 2012;</p> <p>6. A. Filewicz, W. Krawczyk, A. Musiał Ślady fizykochemiczne. Ślady kryminalistyczne. Ujawnianie, zabezpieczanie,<br/>wykorzystanie, pod redakcją M. Goca i J. Moszczyńskiego, Diffin, Warszawa 2007;</p> <p>7. E. Gruza, M. Goc, J. Moszczyński Kryminalistyka czyli rzecz o metodach śledczych, Wydawnictwo WAIP, 2009;</p> <p>8. Ekspertyza Sądowa, Maria Kała, Dariusz Wilk, Józef Wójcikiewicz, Dariusz Zuba, Wolters Kluwer Polska, 2023, Wydanie 4.</p> <p>9. MIKROŚLADY I ICH ZNACZENIE W POSTĘPOWANIU PRZYGOTOWAWCZYM I SĄDOWYM Pod redakcją Janiny ZiębyPalus, Wydawnictwo Instytutu Ekspertyz Sądowych Kraków 2015.</p> |                               |

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|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                | Supplementary literature                                                                                                                                                                                        | <p>1. J. Zięba Palus Niektóre aspekty fizykochemicznych badań postrzałów, Biuletyn informacyjny CLK KGP 1996;</p> <p>2 .J. Wąs Gubała Włókno jako ślad kryminalistyczny, Wydawnictwo Ekspertyz Sądowych, Kraków 2000;</p> <p>3. Forensic Science, Pass Allan D., Embar-Seddon, Ayn, 2015, Second, Salem Press, A division of Ebsco Information Services Ipswich, Massachusetts, Grey House Publishing</p> |
|                                                                | eResources addresses                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                           |
| Example issues/<br>example questions/<br>tasks being completed | <p>Basic research into the methods/procedures used in a forensic laboratory for trace analysis:</p> <p>fingerprinting on different surfaces</p> <p>DNA analysis</p> <p>drugs (e.g. paracetamol. aspirin...)</p> |                                                                                                                                                                                                                                                                                                                                                                                                           |
| Work placement                                                 | Not applicable                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                           |

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