| 1 | Module Name CW4  
*Modulbezeichnung* | Instrumental, Forensic and Bioanalytical Chemistry (Instrumentelle, forensische und Bioanalytik) | 15 ECTS |
|---|---|---|---|
| 2 | Courses  
*Lehrveranstaltungen* | A Micromethods in Forensic Analysis (2L, winter term)  
Bioanalytics (1S, winter term)  
B Aspects of Forensics and Medical Reports for Students of Jurisprudence and Natural Sciences (2L, each term); Instrumental Analysis (1S, summer term)  
C Lab courses Practical Forensic Analysis (4Lab, winter term); Practical Instrumental and Bioanalysis (4Lab, summer term) | 5 ECTS  
5 ECTS  
5 ECTS |
| 3 | Teaching Staff  
*Dozenten* | A Drs. T. Lederer, B. Schwarze, Forensic Medicine;  
Prof. Dr. M. Pischetsrieder, Food Chemistry  
B Prof. Dr. Betz, Dr. B. Schwarze, Forensic Medicine;  
Prof. Dr. M. Pischetsrieder, Food Chemistry  
C Drs. T. Lederer, B. Schwarze, Forensic Medicine;  
Prof. Dr. M. Pischetsrieder, Food Chemistry |  |
| 4 | Module Coordinator  
*Modulverantwortliche/r* | Prof. Dr. M. Pischetsrieder, Food Chemistry |
| 5 | Syllabus Outline  
*Inhalt* | - Acquainting students with current issues in the fields of instrumental, forensic and bio-analysis  
- Presentation of the necessary basic skills and knowledge transfer on a high scientific level suitable for a master course  
- Analytical practice courses to learn the most important basic techniques in the fields of instrumental, forensic and bio-analysis  
- Theoretical knowledge on technology and application of advanced modern methods in instrumental, forensic and bio-analysis |  |
| 6 | Educational goals and Learning outcome  
*Lernziele und Kompetenzen* | The students  
- acquire expertise for the theoretical evaluation and practical application of the most important techniques of instrumental, forensic and bio-analysis  
- have the skills to independently execute basic analysis techniques  
- are able to reflect crucial theories of the specialty in order to challenge problems in analytical practice  
- can independently produce a seminar paper on a relevant new topic and professionally present the results to an audience |
| 7 | Prerequisites  
*Voraussetzungen für die Teilnahme* | -- |
| 8 | Intended stage in the degree course  
*Einpassung in Studienplan* | Elective module in the 2nd/3rd semester |
| 9 | Courses of study for which the module is acceptable  
*Verwendbarkeit des Moduls* | M.Sc. Molecular Science or M.Sc. Chemistry |
| 10 | Assessment and examinations  
*Studien- und Prüfungsleistungen* | Lab course protocol(s) + oral examination with assessor (45 min) by one of the teaching staff (M30) or written exam (K90) |
| 11 | Calculation of the grade for the module  
*Berechnung Modulnote* | 100% from oral examination |
| 12 | Frequency of offer  
*Turnus des Angebots* | annually |
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<th>Workload / Arbeitsaufwand</th>
<th>Duration / Dauer des Moduls</th>
<th>Language / Unterrichtssprache</th>
<th>Preparatory reading / reading list / Vorbereitende Literatur</th>
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<tr>
<td>13</td>
<td>Attendance time: 210 h</td>
<td>2 semesters in total</td>
<td>English</td>
<td>Regularly updated by the teaching staff</td>
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<td>14</td>
<td>Private study: 240 h</td>
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Modul Catalogue