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	

13	**Workload** ´ ***Arbeitsaufwand***	Attendance time: 210 h Private study: 240 h
14	**Duration** ***Dauer des Moduls***	2 semesters in total
15	**Language** ***Unterrichtssprache***	English
16	**Preparatory reading / reading list** ***Vorbereitende Literatur***	Regularly updated by the teaching staff