

**Curriculum-Matrix  
FH-Bachelor-Programme Radiological Technology (Version 3.0)**

1 <sup>st</sup> semester						
LV-Nr.	Course	Course Type	SWS	Module	Module	ECTS
AUP1V	General anatomy and physiology	VO	4,0	MGL	Medical basics	4,0
APA1V	General pathology	VO	1,0	MGL	Medical basics	1,0
GMP1I	Fundamentals of medical physics	ILV	1,5	PTG	Physical-technical basics	2,0
GSS1I	Fundamentals of radiation protection	ILV	1,0	PTG	Physical-technical basics	1,5
STP1V	Radiation physics	VO	2,0	PTG	Physical-technical basics	2,0
AST1I	Applied radiation protection	ILV	0,5	PTG	Physical-technical basics	1,0
GKR1V	Equipment-technology in conventional radiology	VO	1,5	PTG	Physical-technical basics	1,5
RFP1V	Radiological photography and projection theory	ILV	1,5	PTG	Physical-technical basics	2,0
EUK1I	E-learning and communication systems	ILV	1,0	ESB	Introduction to studies and career	1,5
BUB1I	Occupational studies and ethics	ILV	1,0	ESB	Introduction to studies and career	1,5
RGL1V	Legal principles for health professions	VO	1,0	ESB	Introduction to studies and career	1,0
HYG1V	Hygiene	VO	1,0	ESB	Introduction to studies and career	1,0
ATE1V	Imaging techniques 1	VO	1,0	KRI	Conventional radiology	1,0
ATE1U	Exercises in imaging techniques 1	UE	1,5	KRI	Conventional radiology	1,5
RTP1P	Internship radiological technology 1	PR		RTP1	Internship radiological technology 1	3,5
REL1I	Reflective learning support 1	ILV	0,5	RTP1	Internship radiological technology 1	1,5
GWA1V	Fundamentals of scientific work	VO	1,5	WIA1	Scientific work 1	1,5
GST1V	Fundamentals of statistics and documentation	VO	1,0	WIA1	Scientific work 1	1,0
Total			22,5			30,0
LVS = total SWS * course weeks			405,0			

2 <sup>nd</sup> semester						
LV-Nr	Course	LV-Typ	SWS	Module	Module	ECTS
PKR2V	Pharmaceutics and application of contrast agents in radiology	VO	1,0	MBG	Medical-biological basics	1,0
STB2V	Radiobiology	VO	2,0	MBG	Medical-biological basics	2,0
IKR2V	Equipment and accessories for contrast agent application in vascular and interventional radiology	VO	2,0	MBG	Medical-biological basics	2,0
KPM2S	Communication and patient management	SE	1,0	SSK1	Socio-communicative skills and personal competencies 1	2,0

GBI2I	Interprofessional health professions 1	ILV	2,0	SSK1	Socio-communicative skills and personal competencies 1	3,0
ATE2V	Imaging techniques 2	ILV	1,0	KRI	Conventional radiology	1,0
ATE2U	Exercises in imaging techniques 2	UE	1,5	KRI	Conventional radiology	1,5
RTP2P	Internship radiological technology 2	PR		RTP2	Internship radiological technology 2	13,5
REL2I	Reflective learning support 2	ILV	1,0	RTP2	Internship radiological technology 2	1,5
EFM2V	Empirical research methods	VO	1,0	WIA1	Scientific work 1	1,0
WME2I	Scientific and medical English	ILV	1,0	WIA1	Scientific work 1	1,5
Total			13,5			30,0
LVS = total SWS * course weeks			243,0			

3 <sup>rd</sup> semester						
LV-Nr	Course	LV-Typ	SWS	Module	Module	ECTS
SAP3V	Cross-sectional anatomy and pathology	VO	3,0	SBV	Cross-sectional imaging	3,0
SCT3V	Cross-sectional CT	VO	4,0	SBV	Cross-sectional imaging	4,0
SMR3V	Cross-sectional MRI	VO	5,0	SBV	Cross-sectional imaging	5,0
PUS3L	Practical exercises and simulation CT and MRI	LPR	2,0	SBV	Cross-sectional imaging	2,0
SVS3I	Cross-sectional sonography	ILV	1,0	SBV	Cross-sectional imaging	1,0
SSR3V	Radiation protection in X-ray diagnostics	VO	1,0	STS	Radiation protection	1,0
SSS3V	Radiation protection in radiotherapy	VO	1,0	STS	Radiation protection	1,0
SSN3V	Radiation protection in nuclear medicine	VO	1,0	STS	Radiation protection	1,0
LSS3L	Practical exercises in radiation protection	LPR	1,0	STS	Radiation protection	1,0
RMS3S	Risk management	SE	0,5	STS	Radiation protection	1,0
GWÖ3V	Fundamentals of the health care system and health economics	VO	1,0	RTP3	Internship radiological technology 3	1,0
REL3I	Reflective learning support: supervision and case review 1	ILV	1,0	RTP3	Internship radiological technology 3	1,5
RTP3P	Internship radiological technology 3: diagnostics	PR		RTP3	Internship radiological technology 3	7,5
Total			21,5			30,0
LVS = total SWS * course weeks			387,0			

4 <sup>th</sup> semester						
LV-Nr	Course	LV-Typ	SWS	Module	Module	ECTS
GBI4U	Interprofessional health professions 2	UE	1,0	IUW	Interprofessional acting and scientific reasoning	1,0
SCW4I	Scientific writing	ILV	1,0	IUW	Interprofessional acting and scientific reasoning	1,5
GNU4V	Fundamentals of nuclear medicine and nuclear-medical recording techniques	VO	2,0	NUK	Nuclear medicine	2,0
APN4V	Equipment studies in nuclear medicine	VO	2,0	NUK	Nuclear medicine	2,0
RPH4V	Radiopharmacy	VO	2,0	NUK	Nuclear medicine	2,0
NAV4K	Nuclear-medical acquisition-/adjustment technologies and evaluation methods	KO	2,0	NUK	Nuclear medicine	4,0
NDT4V	Nuclear-medical diagnostics and therapy	VO	1,5	NUK	Nuclear medicine	1,5
NDO4I	Nuclear-medical dosimetry	ILV	1,0	NUK	Nuclear medicine	1,5
NML4L	Laboratory internship nuclear medicine	LPR	2,0	NUK	Nuclear medicine	2,0
AST4V	Equipment studies for tele- and brachytherapy	VO	2,0	STR	Radiotherapy – radio-oncology	2,0
MST4V	Field setting methods	VO	1,0	STR	Radiotherapy – radio-oncology	1,0
RST4V	Radio-oncology	VO	3,0	STR	Radiotherapy – radio-oncology	3,0
DST4V	Special physical basics and dosimetry	VO	1,0	STR	Radiotherapy – radio-oncology	1,0
BST4V	Irradiation planning for teletherapy and brachytherapy	VO	2,0	STR	Radiotherapy – radio-oncology	2,0
BST4L	Irradiation planning and field setting	LPR	1,0	STR	Radiotherapy – radio-oncology	1,0
PST4V	Patient-care in radio-oncology	VO	1,5	STR	Radiotherapy – radio-oncology	1,5
SST4V	Special procedures and developments in radiotherapy	VO	1,0	STR	Radiotherapy – radio-oncology	1,0
Total			27,0			30,0
LVS = total SWS * course weeks			486,0			

5 <sup>th</sup> semester						
LV-Nr	Course	LV-Typ	SWS	Module	Module	ECTS
QQS5I	Quality assurance and quality control	ILV	1,0	RTP4	Internship radiological technology 4	1,5
RTN5P	Internship radiological technology 4: nuclear medicine	PR		RTP4	Internship radiological technology 4	6,5
RTS5P	Internship radiological technology 5: radiotherapy	PR		RTP4	Internship radiological technology 4	6,5

RTD5P	Internship radiological technology 6: diagnostics	PR		RTP4	Internship radiological technology 4	7,0
REL5U	Reflective learning support: supervision and case review 2	UE	1,0	RTP4	Internship radiological technology 4	1,0
QUQ5I	Qualitative and quantitative research methods in practice	ILV	1,0	WIA2	Scientific work 2	1,5
FLB5S	Research-based learning in the professional field (bachelor thesis) 1	SE	2,0	WIA2	Scientific work 2	6,0
Total						30,0
LVS = total SWS * course weeks						90,0

6 <sup>th</sup> semester						
LV-Nr	Course	LV-Typ	SWS	Module	Module	ECTS
DTM6V	Data processing and telecommunications in medicine	VO	1,0	ITM	Information technology in medicine	1,0
DBB6V	Digital image processing and image analysis	VO	2,0	ITM	Information technology in medicine	2,0
DBB6U	Exercises in digital image processing and image analysis	UE	2,0	ITM	Information technology in medicine	2,0
IVR6V	Innovations and interconnections in radiological technology	VO	2,0	PRZ	Professional reasoning and additional qualifications	2,0
ZQR6L	Additional qualifications in radiological technology	LPR	1,0	PRZ	Professional reasoning and additional qualifications	1,0
MVS6V	Medical navigation systems	VO	1,0	PRZ	Professional reasoning and additional qualifications	1,0
PRR6V	Professional reasoning	VO	1,0	PRZ	Professional reasoning and additional qualifications	1,0
EGW6V	Introduction to social sciences	VO	1,0	SSK2	Socio-communicative skills and personal competencies 2	1,0
KKM6S	Conflict management	SE	1,0	SSK2	Socio-communicative skills and personal competencies 2	1,5
PTS6S	Presentation techniques and self-management	SE	1,0	SSK2	Socio-communicative skills and personal competencies 2	1,0
ZMT6S	Cooperation in multi-professional teams and group dynamics	SE	1,0	SSK2	Socio-communicative skills and personal competencies 2	1,5
RTP6P	Internship radiological technology 7: consolidation and angiography	PR		RTP5	Internship radiological technology 5	6,5
REL6U	Reflective learning support: supervision and case review 3	UE	1,0	RTP5	Internship radiological technology 5	1,0
FLB6S	Research-based learning in the professional field (bachelor thesis) 2	SE	3,0	WIA2	Scientific work 2	6,0
BSC6B	Bachelor exam	BSC		WIA2	Scientific work 2	1,5
Total						30,0
LVS = total SWS * course weeks						324,0

Sum (all semesters)		107,5				180,0
Sum (all semesters)		1935,0				

<b>Abbreviations</b>	
LV	Course
LVS	Course hours
ALVS	Course hours offered
SWS	Semester hours per week
ASWS	Semester hours per week offered
ECTS	ECTS credits