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CURRICULUM

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**MEDICAL UNIVERSITY - PLEVEN  
MEDICAL COLLEGE**

**UPDATED CURRICULUM**  
Speciality of "MEDICAL LABORATORY TECHNICIAN"

Mode of training  
FULL-TIME

Educational qualification degree  
PROFESSIONAL BACHELOR

Duration of training  
Three years

Professional qualification  
MEDICAL LABORATORY TECHNICIAN

Credits  
180

Professional field  
HEALTH CARE

Approved by the Academic Council on 24.09.2012  
Updated by the Academic Council on 27.06.2016

RECTOR:  
/Prof. Dr. Sl. Tomov, Doctor of Medical Science/

In force as from the academic year 2016/2017  
Alumni of 2016-2019


**CONTENT OF TRAINING PROCESS - Student workload, modes of control and credit characteristics**

No.	ACADEMIC DISCIPLINES	USR*	CREDITS	HOUR NUMBER			Hour number Out-of- lecture workload	Semester, in which it is studied	Final control	
				Total hours	Lectures	Exer- cises / seminars			Preliminary oral exami- nation	Exami- nation
1.	2	3	4	5	6	7	8	9	10	11
<b>A.</b>	<b>COMPULSORY DISCIPLINES</b>									
<b>I.</b>	<b>THEORETICAL TRAINING</b>									
1.	Clinical laboratory	405	23	405	155	250	285	1,2,3,4,5	-	1,2,3,4,5
1.1.	Module I - Basics of clinical laboratory. Urine diagnostics		4,5	90	35	55	45	1	-	1
1.2.	Module II – Clinical laboratory haematology		5	90	30	60	60	2	-	2
1.3.	Module III – Haemostasis. Clinical chemistry – substrates		5,5	90	30	60	75	3	-	3
1.4.	Module IV – Acid-base state. Electrolytes and enzymes		4	75	30	45	45	4	-	4
1.5.	Module V – Tests of other biological materials. Hormones. Clinical laboratory constellations		4	60	30	30	60	5	-	5
2.	Microbiology and virology	300	18,5	315	133	182	240	1,2,3,4,5	-	1,2,3,4,5
2.1.	Module I – General microbiology		3,5	75	30	45	30	1	-	1
2.2.	Module II – Immunology. Bacteriology – First part		4	75	30	45	45	2	-	2
2.3.	Module III – Bacteriology – Second part		5	75	30	45	75	3	-	3
2.4.	Module IV – Virology and clinical microbiology		4	60	30	30	60	4	-	4
2.5.	Module V – Sanitary microbiology		2	30	13	17	30	5	-	5
3.	Histology with histological equipment, general pathology	165	9,5	165	95	70	120	2,3,4	-	2,3,4
3.1.	Module I – Cytology, general histology and histological equipment		4	75	35	40	45	2	-	2
3.2.	Module II – Microscopic anatomy		3,5	60	30	30	45	3	-	3
3.3.	Module III – General pathology		2	30	30	-	30	4	-	4
4.	Parasitology	90	5,5	90	33	57	75	4,5	-	4,5
4.1.	Module I – General parasitology and protozoology		2,5	45	20	25	30	4	-	4



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4.2.	Module II – Helminthology		3	45	13	32	45	5	-	5
5.	Laboratory equipment and apparatuses	60	3	60	30	30	30	1	-	1
6.	Medical genetics	45	2,5	45	30	15	30	4	-	4
7.	Anatomy	30	2	30	26	4	30	1	-	1
8.	Physiology	30	2	30	30	-	30	2	-	2
9.	Organic, inorganic and analytical chemistry	105	5,5	105	50	55	60	1,2	-	2
10.	Biochemistry and pathological biochemistry	45	2,5	45	45	-	30	2	-	2
11.	Latin language with medical terminology	30	2	30	30	-	30	1	-	1
12.	Internal diseases	45	3	45	40	5	45	3	-	3
13.	Pharmacology	30	2	30	30	-	30	4	-	4
14.	Premedical care	30	2	30	20	10	30	4	-	4
15.	Children's diseases and neonatology	30	2	30	26	4	30	5	-	5
16.	Infectious diseases and epidemiology	30	2	30	28	2	30	5	-	5
17.	General care for the sick with injection technique	45	3	45	15	30	45	1	-	1
18.	Disaster medicine	30	2	30	24	6	30	5	-	5
19.	Hygiene and safety of laboratory work	15	1	15	15	-	15	2	-	2
20.	Medical psychology	30	2	30	24	6	60	1	-	1
21.	Medical ethics and deontology	30	2	30	30	-	30	1	-	1
22.	Social medicine and health promotion	45	3	45	45	-	45	3	-	3
23.	Social and health legislation	30	2	30	30	-	30	5	-	5
24.	Sociology	15	1	15	9	6	15	5	-	5
25.	Informatics	30	2	30	15	15	30	1	-	1
26.	Physical education and sports	-	4	120	-	120	-	1,2,3,4	-	4
II.	<b>PRACTICAL TRAINING</b>									
1.	Training clinical practice	1140	38	1140	-	1140	-	1,2,3,4,5	1,2,3,4,5	
3.	Pre-diploma clinical practice (internship) / Astronomical hour	600	20	600	-	600	-	6	6	-
B.	<b>ELECTIVE DISCIPLINES</b>									
1.	Urine diagnostics	-	1	15	10	5	15	2	-	2
2.	Contemporary automated systems for microorganism identification	-	1	15	10	5	15	2	-	2



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3.	Immunology	-	1	15	10	5	15	4	-	4
4.	Laboratory diagnostics of mycoses	-	1	15	10	5	15	4	-	4
5.	Laboratory diagnostics of tropical diseases	-	1	15	10	5	15	5	-	5
6.	Transfusion haematology	-	1	15	10	5	15	5	-	5
C.	<b>FACULTATIVE DISCIPLINES</b>								-	
1.	Foreign language – specialized medical terminology	-	2	30	-	30	30	1	-	1
2.	Communication skills	-	1	15	15	-	15	2	-	2
3.	Methodology of research work	-	1	15	15	-	15	3	-	3
D.	<b>MODE OF GRADUATION – State examinations</b>									
	1. Clinical laboratory – practical and theoretical		5				300	6		6
	2. Microbiology – practical and theoretical		5							
E.	<b>OUT-OF-LECTURE HALL WORKLOAD</b> /consultations, preparing and sitting for examinations, elaboration and presentation of course work, preparation of topics and individual work/						1830			

\* USR = Unified State Requirements

### BREAKDOWN of the clinical training practice by units, hours and semesters

No.	Unit for practical training	Training practice /Academic hours/	Semester
1.	Clinical laboratory	600	1, 2, 3, 4, 5
2.	Microbiological and virological laboratory	322	1, 2, 3, 4, 5
3.	Immunological laboratory	36	3, 4
4.	Center for transfusion haematology	22	5
5.	Histological laboratory	116	3, 4, 5
6.	Parasitological laboratory	44	5
	<b>Total</b>	<b>1140 hours</b>	<b>38 credits</b>



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### BREAKDOWN of the pre-diploma clinical practice (internship) by units and weeks

No.	Unit for practical training	Duration /Astronomical hour/		Credits
1.	Clinical laboratory	120 hours	3 weeks	4 credits
2.	Microbiological and virological laboratory	120 hours	3 weeks	4 credits
3.	Immunological laboratory	40 hours	1 week	1 credit
4.	Center for transfusion haematology	40 hours	1 week	1 credit
5.	Histological laboratory	80 hours	2 weeks	2 credits
6.	Parasitological laboratory	80 hours	2 weeks	2 credits
7.	Medical genetic laboratory	40 hours	1 week	1 credit
8.	Optional practice (internship)	80 hours	2 weeks	2 credits
9.	Course work			3 credits
	Total	600 hours	15 weeks	20 credits