

**PLAN OF REGULAR STUDIES, GRADUATE PROGRAMME**  
 Faculty: **ASTRONOMY** speciality: **Computer Astrophysics**  
**SUBJECT 1**

No	Subject		General Figures		Curriculum in respective semesters (hours per week)								
			including:		I		II		III		IV		
			H	pt	H	pt	H	pt	H	pt	H	pt	
<b>A GENERAL SUBJECTS</b>													
1	English as a foreign language	Lab	90	5	2	2	2	2	2	2	1		
<b>B BASIC SUBJECTS</b>													
2	Theoretical physics	T	105	15	4	5	3	4					
3	Theoretical physics	L	75		<u>3</u>	3	<u>2</u>	3					
<b>C FIELD SUBJECTS</b>													
4	Celestial Mechanics	T	60	10	2	3	2	3					
5	Celestial Mechanics	L	60		<u>2</u>	2	<u>2</u>	2					
6	Astrophysics I	T	105	15	7	9							
7	Astrophysics I	L	75		<u>5</u>	6							
8	Astrophysics II	T	60	10			4	6					
9	Astrophysics II	L	60				<u>4</u>	4					
10	Extragalactic astronomy and cosmology	T	30	6					1	2	1	2	
11	Extragalactic astronomy and cosmology	L	30						<u>1</u>	1	<u>1</u>	1	
10	Astrophysics of compact objects	T	30	5					1	2	1	1	
11	Astrophysics of compact objects	L	30						<u>1</u>	1	<u>1</u>	1	
15	Radiative processes in astrophysics	T	60	10					4	6			
16	Radiative processes in astrophysics	L	60						<u>4</u>	4			
19	High-energy Astrophysics	L	30	3					<u>2</u>	3			
17	Computer networks	Lab	75	6			5	6					
18	Digital images analyitics	L	60	4					4	4			
20	Monographic Lecture 1: General Relativity/Pulsars	L	30	3					<u>2</u>	3			
21	Monographic Lecture 1: Planets/Gravitational Waves	L	30	4							<u>2</u>	4	
12	Master Laboratory	Lab	60	6					2	3	2	3	
13	Graduate seminar	S	60	5							4	5	
23	Master's Thesis			13									13
24	Magister Examination										E		
<b>SUMMARY:</b>			<b>1275</b>	<b>120</b>	<b>25</b>	<b>30</b>	<b>24</b>	<b>30</b>	<b>24</b>	<b>30</b>	<b>12</b>	<b>30</b>	
			1275		375	360	360	360	180				
<b>Number of examinations:</b>					<b>3E</b>	<b>3E</b>	<b>4E</b>	<b>2E+</b>					

Legend: L - Lecture, T - Tutorial, Lab - Laboratory, Pr - Practice, S - Seminar

The lecture courses are closed with an **examination**  
 Tutorials, laboratories, seminars - **credit and mark**

**Examination is marked by bold and underlined figure**  
**H** - hours per week  
**pt** - ECTS

Lectures:  
 Digital images analyitics (Lecture) - **credit and mark**  
 Master Laboratory - **credit and mark**  
 Graduate Seminar - **credit and mark**  
 Master's Thesis - **credit**

PLAN OF REGULAR STUDIES, GRADUATE PROGRAMME

Faculty: ASTRONOMY speciality: Computer Astrophysics

Subject 2

No	Subject	General Figures		Curriculum in respective semesters (hours per week)								
		including:		I		II		III		IV		
		H	pt	H	pt	H	pt	H	pt	H	pt	
<b>A GENERAL SUBJECTS</b>												
1	English as a foreign language	Lab	90	5	2	2	2	2	2	1		
<b>B BASIC SUBJECTS</b>												
2	Theoretical physics	T	105	15	4	5	3	4				
3	Theoretical physics	L	75		<u>3</u>	<u>3</u>	<u>2</u>	<u>3</u>				
<b>C FIELD SUBJECTS</b>												
4	Celestial Mechanics	T	60	10	2	3	2	3				
5	Celestial Mechanics	L	60		<u>2</u>	<u>2</u>	<u>2</u>	<u>2</u>				
6	Astrophysics I	T	105	15	7	9						
7	Astrophysics I	L	75		<u>5</u>	<u>6</u>						
8	Astrophysics II	T	60	10		4	6					
9	Astrophysics II	L	60		<u>4</u>	<u>4</u>						
10	Extragalactic astronomy and cosmology	T	30	6				1	2	1	2	
11	Extragalactic astronomy and cosmology	L	30					<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	
10	Astrophysics of compact objects	T	30	5				1	2	1	1	
11	Astrophysics of compact objects	L	30					<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	
15	Radiative processes in astrophysics	T	60	10				4	6			
16	Radiative processes in astrophysics	L	60					<u>4</u>	<u>4</u>			
19	High-energy Astrophysics	L	30	3				<u>2</u>	<u>3</u>			
17	Radio Astronomy Lab	Lab	75	6		5	6					
18	Modern Radio Astronomy	L	60	4				4	4			
20	Monographic Lecture 1: General Relativity/Pulsars	L	30	3				<u>2</u>	<u>3</u>			
21	Monographic Lecture 1: Planets/Gravitational Waves	L	30	4						<u>2</u>	<u>4</u>	
12	Master Laboratory	Lab	60	6				2	3	2	3	
13	Graduate seminar	S	60	5						4	5	
23	Master's Thesis			13							13	
24	Magister Examination									E		
<b>SUMMARY:</b>			<b>1275</b>	<b>120</b>	<b>25</b>	<b>30</b>	<b>24</b>	<b>30</b>	<b>24</b>	<b>30</b>	<b>12</b>	<b>30</b>
			1275		375	360	360	360	180			
<b>Number of examinations:</b>					<b>3E</b>		<b>3E</b>		<b>4E</b>		<b>2E+</b>	

Legend: L - Lecture, T - Tutorial, Lab - Laboratory, Pr - Practice, S - Seminar

Examination is marked by bold and underlined figure

The lecture courses are closed with an examination  
Tutorials, laboratories, seminars - credit and mark

H - hours per week  
pt - ECTS

Lectures:  
Modern Radio Astronomy (Lecture) - credit and mark  
Master Laboratory - credit and mark  
Graduate Seminar - credit and mark  
Master's Thesis - credit