

**Table 5.2.** Schedule of subjects per semesters and years of study

Advanced Information technology					Active teaching		ECTS
No.	Code	Subject name	S	Subject status	L	SRW	
<b>FIRST YEAR</b>							
1.	DSP NIT 01	Methodology of Scientific Research	I	C	4	4	10
2.	DSP NIT 02	Selected topics from Mathematics	I	C	4	4	10
3.	DSP NIT 03	Selected topics from Programming	I	C	4	4	10
4.	<b>DSP NIT 04</b>	<b>E1 Elective subject</b>	<b>II</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 04-1	Selected Topics in Computer Simulation of Technical and Dynamic Systems					
	DSP NIT 04-2	Intelligent Systems					
5.	<b>DSP NIT 05</b>	<b>E2 Elective subject</b>	<b>II</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 05-1	Computer Modeling and Simulations					
	DSP NIT 05-2	Artificial Intelligence Methods					
6.	<b>DSP NIT 06</b>	<b>E3 Elective subject</b>	<b>II</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 06-1	Advanced topics in software engineering					
	DSP NIT 06-2	Machine Learning					
Total number of active teaching hours on the first year of study					<b>360</b>	<b>360</b>	<b>60</b>
Total number of active teaching hours + SRW on the year = <b>24+24=48; (720)</b>							
<b>SECOND YEAR</b>							
7.	<b>DSP NIT 7</b>	<b>E4 Elective subject</b>	<b>III</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 7-1	Simulation of Industrial Systems					
	DSP NIT 7-2	Computer Intelligence-Based Systems					
8.	<b>DSP NIT 8</b>	<b>E5 Elective subject</b>	<b>III</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 8-1	Computer Management					
	DSP NIT 8-2	Decision Making Support Systems					
9.	<b>DSP NIT 9</b>	<b>E5 Elective subject</b>	<b>III</b>	<b>E</b>	<b>4</b>	<b>4</b>	<b>10</b>
	DSP NIT 9-1	Elective scientific research project with methodology for Computer simulations					
	DSP NIT 9-2	Elective scientific research project with methodology for artificial intelligence					
10.	DSP NIT 10	Study research work on preparing Study and Research Work on the Preparation of the Doctoral Dissertation Proposal	IV	C	0	10	10
11.	DSP NIT 11	Development and Defense of the Doctoral Dissertation Proposal - Theoretical Part of the Dissertation	IV	C	0	14	20
Total number of active teaching hours on the second year of study					<b>180</b>	<b>540</b>	<b>60</b>
Total number of active teaching hours + SRW on the year of study = <b>24+24=48; (720)</b>							
<b>THIRD YEAR</b>							
12.	DSP NIT 12	Doctoral dissertation (Study research work -1.)	V	C	0	18	20
13.	DSP NIT 13	Research in the final thesis (study research work - 2.)	V	C	0	10	10
14.	DSP NIT 14	Doctoral dissertation (preparation and defense of the thesis )	VI	C	0	20	30
Total number of active teaching hours on the second year of study					<b>0</b>	<b>720</b>	<b>60</b>

Total number of active teaching hours + SRW on the year of study =12+ 36=48; (720)			
Total number of active teaching hours and points on stud program DAS	540	1620	180
	2160		
C-subject code; S-semester			
<b>Subject status:</b> C-compulsory, E-elective			
<b>Active teaching hours:</b> L-lectures, SRW- study research work;			
<b>Note:</b>			
1. Duration of studies: 3 years and 180 ECTS credits.			
2. Active teaching includes lectures and SRW, minimum of 20 classes per semester, for all year.			
3. Total number of teaching hours on the first 2 years of study minimum of 45 classes or 25% from the total number of active teaching hours.			
4. Third year includes only research work.			
5. Number of credits per year is minimum 60			