

ECTS Subject code T WIFg SN

• T - type of course: B for BEng, M for MEng

• BWIFg – “Business Informatics” in German

• FBEE – F fundamental, B - bachelor program, EE – electrical engineering group of specialities

• SN - subsequent number of the subject

Lectures (L), tutorials (Tut.), labs (Lab.);

exam (E), continuous assessment (CA); semester projects (SP)/ semester assignment (course work) (SA)

№	ECTS Subject code	Subject	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	Audit. Total	Self Study.	Total	E	CA	SP	SA	
Semester I													
1	BWIFg01	Mathematics – Preliminary.	30	30	0	60	150	210	1				7
2	BWIFg02	Introduction to Business Sciences	30	0	30	60	120	180	1				6
3	BWIFg03	Programming And Computer Use	30	0	45	75	135	210	1			1	7
4	BWIFg04	Fundamentals Of Informatics	45	15	30	90	150	240	1			1	8
5	BWIFg05	Sports	0	0	0	0	30	30		1			1
Total			135	45	105	285	585	870	4	1	0	2	29
Semester II													
6	BWIFg06	Mathematics 1– Linear Algebra	45	45	0	90	150	240	1				8
7	BWIFg07	Computer Systems (Technical Informatics I)	30	0	30	60	90	150	1				5
8	BWIFg08	Introduction to Economics	30	30	0	60	90	150	1				5
9	BWIFg09	Logic	30	0	30	60	90	150		1		1	5
10	BWIFg10	Modeling	30	0	15	45	75	120	1				4
11	BWIFg11	Key Competences And Methods 1	30	0	0	30	60	90		1			3
12	BWIFg12	Sports	0	0	0	0	30	30					1
Total			195	75	75	345	585	930	4	2	0	1	31
Semester III													
13	BWIFg13	Mathematics 2– Analysis	60	30	0	90	150	240	1				8
14	BWIFg14	Algorithms And Data Structures	45	0	30	75	105	180	1				6
15	BWIFg15	Basics Of Theoretical Informatics	45	0	30	75	75	150	1				5
16	BWIFg16	Corporate accounting	30	15	30	75	75	150	1				5
17	BWIFg17	Key Competences And Methods 2	30	0	0	30	60	90		1			3
18	BWIFg18	German Studies 1	15	15	0	30	30	60		1		1	2
19	BWIFg19	Sports	0	0	0	0	30	30					1
Total			225	60	90	375	525	900	4	2	0	1	30
Semester IV													
20	BWIFg20	Mathematics 3	45	30	0	75	105	180	1				6
21	BWIFg21	Theoretical Informatics 2	30	0	30	60	90	150	1				5
22	BWIFg22	Practical Module – Key Competences	0	30	0	30	90	120	1				4
23	BWIFg23	Computer networks	30	0	30	60	90	150		1		1	5
24	BWIFg24	IT Project Management	15	15	0	30	90	120		1			4
25	BWIFg25	Databases	30	0	30	60	90	150	1				5
26	BWIFg26	Sports	0	0	0	0	30	30					1
Total			150	75	90	315	585	900	4	2	0	1	30

№	ECTS Subject code	Subject	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	Audit. Total	Self Study.	Total	E	CA	SP	SA	
Semester V													
27	BWIFg27	Compulsory Elective Subject In Module – (List 1)*	30	30	0	60	90	150	1				5
28	BWIFg28	Elective Subject In Module – (List 2)	30	30	0	60	90	150		1			5
29	BWIFg29	Compulsory Elective Subject In Module – (List 3)*	30	30	0	60	90	150	1				5
30	BWIFg30	Technical Informatics 2	30	0	30	60	90	150	1			1	5
31	BWIFg31	Elective Subject In Module – (List 4)	30	0	30	60	90	150		1		1	5
32	BWIFg32	Compulsory Elective Subject In Module – (List 5)*	30	30	0	60	90	150	1				5
Total			180	120	60	360	540	900	4	2	0	2	30
Semester VI													
33	BWIFg33	Scientific Seminar	0	45	0	45	75	120		1		1	4
34	BWIFg34	IT Project	0	0	0	0	180	180			1		6
35	BWIFg35	Intelligent Systems	30	0	30	60	90	150	1				5
36	BWIFg36	Compulsory Elective Subject In Module – (List 6)*	30	30	0	60	90	150	1				5
37	BWIFg37	Compulsory Elective Subject In Module – (List 7)*	30	30	0	60	90	150	1				5
38	BWIFg38	Compulsory Elective Subject In Module – (List 8)*	30	30	0	60	90	150	1				5
Total			120	135	30	285	615	900	4	1	1	1	30
Semester VII													
39	BWIFg39	Secure Systems	30	30	0	60	90	150	1				5
40	BWIFg40	Elective Subject In Module – (List 9)	30	30	0	60	90	150		1		1	5
41	BWIFg41	Elective Subject In Module – (List 10)	30	30	0	60	90	150	1			1	5
42	BWIFg42	Elective Subject In Module – (List 11)	30	30	0	60	90	150	1				5
43	BWIFg43	Elective Subject In Module – (List 12)	30	0	30	60	90	150	1				5
44	BWIFg44	Civil Law	30	30	0	60	90	150		1			5
Total			180	150	30	360	540	900	4	2	0	2	30
№	ECTS Subject code	Subject	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	Audit. Total	Self Study.	Total	E	CA	SP	SA	
Semester VIII													
45	BWIFg45	Practice 20 weeks, 6 hours a day Total - 600 Hours	0	0	0	0	600	600	Praktice Report				20
46	BWIFg46	Bachelor Work	0	0	0	0	300	300	BSc Work Defence				10
Total							900	900	0	0	0	0	30

*Remark: Subjects with number "1" in lists 1,3,5,6,7 and 8 are studied at OvGU Magdeburg obligatory

**Remark: The form of control in the subject "Sport" is "acknowledged / not acknowledged"

*** Remark: The course "German language" from the list of facultative subjects in the I and II semesters is mandatory, according to the decision of the AC Protocol 8 / 29.09.2021.

II. ОСНОВНИ ПАРАМЕТРИ НА УЧЕБНИЯ ПЛАН

1. Срок на обучение –	4 години,	8 семестъра
2. Аудиторна заетост по учебен план		
2.1. Общо –		2325 часа
2.2. Лекции –		1185 часа
2.3. Семинарни упражнения –		660 часа
2.4. Лабораторни упражнения –		480 часа
3. Извън аудиторна заетост по учебен план –		4875 часа
4. Пълна заетост по учебен план –		7200 часа
5. Общ брой учебни дисциплини –		
5.1. Задължителни –		32
5.2. Избираеми –		12
5.4. Факултативни –		10
5.5. Чужд език –		4
5.6. Спорт –		8
5.7. Проекти –		1
5.8. Практикуми –		1
6. Контрол		
6.1. Изпити –		28
6.2. Текущи оценки –		12
6.3. Курсови проекти –		1
6.4. Курсови работи –		10
7. Практическа подготовка		20 weeks
8. Общ брой кредити по ECTS:		240

Дата: 17.6.2021

Декан на ФаГИОПМ:

/доц. д-р Ал. Ценов /

Приет от ФС на ФаГИОПМ на 17.6.2021
Утвърден от АС на ТУ–София на 7.7.2021

с Протокол № 5
с Протокол № 7

List of elective subjects

List 1 Compulsory elective subject		ECTS = 5
1	Introduction to business informatics	BWIFg27.1
2	Fundamentals of business informatics 1 - Fundamentals of business Informatics	BWIFg27.2
List 2 Elective subject		ECTS = 5
1	Fundamentals of Marketing	BWIFg28.1
2	Decision making theory	BWIFg28.2
List 3 Compulsory elective subject		ECTS = 5
1	Knowledge Management - Methods and Tools	BWIFg29.1
2	Fundamentals of business informatics 2 – Fundamentals of Quality Management	BWIFg29.2
List 4 Elective subject		ECTS = 5
1	Bioinformatics	BWIFg31.1
2	Evolutionary algorithms	BWIFg31.2
3	Interactive systems	BWIFg31.3
4	Fundamentals Of Image Processing	BWIFg31.4
List 5 Compulsory elective subject		ECTS = 5
1	Information Technologies in Organizations	BWIFg32.1
2	Fundamentals of Business Informatics 3 – Innovation and Project Management	BWIFg32.2
List 6 Compulsory elective subject		ECTS = 5
1	Introduction to management-informations systems	BWIFg36.1
2	Modern methods of business informatics 1 - Business models for e-business	BWIFg36.2
List 7 Compulsory elective subject		ECTS = 5
1	Usability and Aesthetics	BWIFg37.1
2	Modern methods of business informatics 1 - Entrepreneurship	BWIFg37.2
List 8 Compulsory elective subject		ECTS = 5
1	Applications Systems	BWIFg38.1
2	Modern methods of business informatics 1 - International Economy	BWIFg38.2
List 9 Elective subject		ECTS = 5
1	Investments and Financing	BWIFg40.1
2	Ethics in the digital age	BWIFg40.2
3	Gpu programming	BWIFg40.3
List 10 Elective subject		ECTS = 5
1	Organization and Personal	BWIFg41.1
2	Sustainability of ecological systems	BWIFg41.2
3	Intelligent Data Analysis	BWIFg41.3
List 11 Elective subject		ECTS = 5
1	Operations Research	BWIFg42.1

2	Information Retrieval	BWIFg42.2
3	Introduction in Deep Learning	BWIFg42.3
List 12 Elective subject		ECTS = 5
1	Fundamentals of Computer Vision	BWIFg43.1
2	Neuro – Fuzzy Systems	BWIFg43.2
3	IT – Operations management	BWIFg43.3
4	Machine Learning	BWIFg43.4

List of Facultative subjects

№	ECTS Subject code	Subject	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	Audit. Total	Self Study.	Total	E	CA	SP	SA	
Semester I													
1	FaBWIFg01	Introduction to specialty	15	0	0	15	15	30					1
	FaBWIFg02	German Language	0	120	0	120	120	240		1			8
Semester II													
1	FaBWIFg03	German Language	0	120	0	120	120	240		1			8
Semester III													
1	FaBWIFg04	English Language	0	45	0	45	45	90		1			3
Semester IV													
1	FaBWIFg05	English Language	0	45	0	45	45	90		1			3
Semester V													
1	FaBWIFg06	Sports	0	0	0	0	30	30		1			1
Semester VI													
1	FaBWIFg07	Sports	0	0	0	0	30	30		1			1
2	FaBWIFg08	German Studies 2	30	0	30	60	90	150		1			2
Semester VII													
1	FaBWIFg09	Sports	0	0	0	0	30	30		1			1
Semester VIII													
1	FaBWIFg10	Sports	0	0	0	0	30	30		1			1

Забележка: Съдържанието на списъците от избираеми и факултативни дисциплини подлежат на актуализация преди започването на учебната година с решение на Факултетен съвет.

Дата: 17.6.2021

Декан на ФаГИОПМ :

/доц. д-р Ал. Ценов /

Приет от ФС на ФаГИОПМ на

17.6.2021

с Протокол № 5