

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	
<b>Semester I</b>													
1	BWIFg01	Mathematics – Preliminary	30	30	0	<b>60</b>	120	<b>180</b>	1				<b>6</b>
2	BWIFg02	Introduction to Business Sciences	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
3	BWIFg03	Introduction to Programming	30	0	30	<b>60</b>	90	<b>150</b>		1		1	<b>5</b>
10	BWIFg04	Modeling	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
4	BWIFg05	Introduction to Informatics	45	15	30	<b>90</b>	150	<b>240</b>	1			1	<b>8</b>
5	BWIFg06	Sports	0	0	0	<b>0</b>	30	<b>30</b>		1			<b>1</b>
<b>Total</b>			<b>165</b>	<b>45</b>	<b>120</b>	<b>330</b>	<b>570</b>	<b>900</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>2</b>	<b>30</b>
<b>Semester II</b>													
6	BWIFg07	Mathematics 1 - Linear Algebra	60	30	0	<b>90</b>	150	<b>240</b>	1				<b>8</b>
6	BWIFg08	Logic for business informatics	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
8	BWIFg09	Introduction to Economics	30	30	0	<b>60</b>	90	<b>150</b>	1				<b>5</b>
10	BCSTg10	Development of software projects I	45	45	0	<b>90</b>	90	<b>180</b>	1				<b>6</b>
11	BWIFg11	Key Competences And Methods	60	0	0	<b>60</b>	60	<b>150</b>		1			<b>5</b>
12	BWIFg12	Sports	0	0	0	<b>0</b>	30	<b>30</b>					<b>1</b>
<b>Total</b>			<b>225</b>	<b>105</b>	<b>30</b>	<b>360</b>	<b>510</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>30</b>
<b>Semester III</b>													
13	BWIFg13	Mathematics 2 - Analysis	60	30	0	<b>90</b>	150	<b>240</b>	1				<b>8</b>
14	BWIFg14	Algorithms and data structures	45	0	30	<b>75</b>	105	<b>180</b>	1				<b>6</b>
16	BWIFg15	Technical Informatics I	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
17	BWIFg16	Corporate accounting	30	15	30	<b>75</b>	75	<b>150</b>	1				<b>5</b>
18	BWIFg17	Development of software projects II	15	0	15	<b>30</b>	60	<b>90</b>	1				<b>3</b>
19	BWIFg18	Regional Studies Germany I	15	15	0	<b>30</b>	30	<b>60</b>		1		1	<b>2</b>
20	BWIFg19	Sports	0	0	0	<b>0</b>	30	<b>30</b>					<b>1</b>
<b>Total</b>			<b>195</b>	<b>60</b>	<b>105</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>5</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>30</b>
<b>Semester IV</b>													
21	BWIFg20	Mathematics 3	45	30	0	<b>75</b>	105	<b>180</b>	1				<b>6</b>
22	BWIFg21	Technical Informatics II	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
23	BWIFg22	Computer Networks	30	0	30	<b>60</b>	90	<b>150</b>		1		1	<b>5</b>
24	BWIFg23	Banking	45	45	0	<b>90</b>	150	<b>240</b>	1				<b>8</b>
25	BWIFg24	Databases	30	0	30	<b>60</b>	90	<b>150</b>	1				<b>5</b>
26	BWIFg25	Sports	0	0	0	<b>0</b>	30	<b>30</b>					<b>1</b>
<b>Total</b>			<b>180</b>	<b>75</b>	<b>90</b>	<b>345</b>	<b>555</b>	<b>900</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>30</b>

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			L	Tut.	Lab.	Audit. Total	Self Study	Total	E	CA	SP	SA	
<b>Semester V</b>													
27	BWIFg26	Elective Subject - (List 1)*	30	30	0	60	120	180	1		1		6
28	BWIFg27	Elective Subject - (List 2)	30	0	30	60	90	150	1				5
29	BWIFg28	Elective Subject - (List 3)*	30	30	0	60	90	150		1			5
30	BWIFg29	Software engineering and IT project management	30	30	0	60	90	150	1				5
31	BWIFg30	Elective Subject - (List 4)	30	0	30	60	60	120	1			1	4
32	BWIFg31	Elective Subject - (List 5)*	30	30	0	60	90	150	1				5
<b>Total</b>			<b>180</b>	<b>120</b>	<b>60</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>30</b>
<b>Semester VI</b>													
33	BWIFg32	Secure Systems	30	30	0	60	90	150	1				5
34	BWIFg33	Software project	0	0	0	0	150	150			1		5
35	BWIFg34	Intelligent Systems	30	0	30	60	90	150	1				5
36	BWIFg35	Elective Subject - (List 6)*	30	30	0	60	90	150	1				5
37	BWIFg36	Elective Subject - (List 7)*	30	30	0	60	90	150	1				5
38	BWIFg37	Elective Subject - (List 8)*	30	30	0	60	90	150	1				5
<b>Total</b>			<b>150</b>	<b>90</b>	<b>30</b>	<b>300</b>	<b>510</b>	<b>750</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>30</b>
<b>Semester VII</b>													
39	BWIFg38	Scientific Seminar	30	30	0	60	90	150		1		1	5
40	BWIFg39	Elective Subject - (List 9)	30	30	0	60	90	150		1		1	5
41	BWIFg40	Elective Subject - (List 10)	30	30	0	60	90	150	1			1	5
42	BWIFg41	Elective Subject - (List 11)	30	30	0	60	90	150	1				5
43	BWIFg42	Elective Subject - (List 12)	30	0	30	60	90	150	1				5
44	BWIFg43	Civil law	30	30	0	60	90	150	1				5
<b>Total</b>			<b>180</b>	<b>150</b>	<b>30</b>	<b>360</b>	<b>540</b>	<b>900</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>30</b>
№	ECTS Subject code	Subject	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	Audit. Total	Self Study	Total	E	CA	SP	SA	
<b>Semester VIII</b>													
45	BWIFg44	Practice 20 weeks,6 hours a day	0	0	0	0	600	600	Practice report				20
46	BWIFg45	Bachelor work	0	0	0	0	300	300	Diploma defense				10
<b>Total</b>							<b>900</b>	<b>900</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30</b>

\*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 discipline "Sport" is "Respected / Not Respected"

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

\*\*\*\*Remark: The updated plan takes effect from the winter semester of the academic year 2024/2025

## СПИСЪЦИ НА ИЗБИРАЕМИТЕ ДИСЦИПЛИНИ

<b>List 1 - Obligator elective subjects</b>		<b>ECTS = 6</b>
1	Introduction to business informatics	<b>BWIFg26.1</b>
2	Fundamentals of business informatics	<b>BWIFg26.2</b>
<b>List 2 - Elective subjects</b>		<b>ECTS = 5</b>
1	XML-Technologies	<b>BWIFg27.1</b>
2	Neural networks	<b>BWIFg27.2</b>
<b>List 3 - Obligator elective subjects</b>		<b>ECTS = 5</b>
1	Knowledge Management	<b>BWIFg28.1</b>
2	Fundamentals of quality management	<b>BWIFg28.2</b>
<b>List 4 - Elective subjects</b>		<b>ECTS = 4</b>
1	Bioinformatics	<b>BWIFg30.1</b>
2	Evolutionary algorithms	<b>BWIFg30.2</b>
<b>List 5 - Obligator elective subjects</b>		<b>ECTS = 5</b>
1	Information technologies in organizations	<b>BWIFg31.1</b>
2	Innovation and project management	<b>BWIFg31.2</b>
<b>List 6 - Obligator elective subjects</b>		<b>ECTS = 5</b>
1	Management information systems	<b>BWIFg35.1</b>
2	E-business models	<b>BWIFg35.2</b>
<b>List 7 - Obligator elective subjects</b>		<b>ECTS = 5</b>
1	Usability and aesthetics	<b>BWIFg36.1</b>
2	Entrepreneurship	<b>BWIFg36.2</b>
<b>List 8 - Obligator elective subjects</b>		<b>ECTS = 5</b>
1	Applied systems	<b>BWIFg37.1</b>
2	International economy	<b>BWIFg37.2</b>
<b>List 9 - Elective subjects</b>		<b>ECTS = 5</b>
1	Investments and financing	<b>BWIFg39.1</b>
2	Ethics in the Age of Digitalization	<b>BWIFg39.2</b>
3	Machine learning	<b>BWIFg39.3</b>
<b>List 10 - Elective subjects</b>		<b>ECTS = 5</b>
1	Organization and staff	<b>BWIFg40.1</b>
2	Intelligent data analysis	<b>BWIFg40.2</b>
<b>List 11 - Elective subjects</b>		<b>ECTS = 5</b>
1	Information retrieval	<b>BWIFg41.1</b>
2	Introduction to Deep Learning	<b>BWIFg41.2</b>
<b>List 12 - Elective subjects</b>		<b>ECTS = 5</b>
1	Decision Making Theory	<b>BWIFg42.1</b>
2	Fundamentals of Marketing	<b>BWIFg42.2</b>

### List with Optional subjects

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