COURSE DESCRIPTION CARD – SPECIMEN

			F	aculty	of Ele	ctrical	Engin	eering			
Field of study								Degree level and programme type	Bachelor's degree		
Specialization/ diploma path	- Study profile							Study profile	-		
Course name	Introductory Physics							Course code	IS-FEE-10073S		
	•						Course type	elective			
Forms and number of hours	L	С	LC	Р	SW	FW	S	Semester	summer		
of tuition			15					No. of ECTS credits	2		
Entry requirements			Mathematics, Physics, Circuit Theory								
Course objectives	Students master basic physics concepts by performing an experiment relevant to corresponding work in the laboratory. Students gain hands-on experiences with experimental processes and develop effective written communication skills. Students develop collaborative learning skills by working in a group.										
Course content	Determination of the inductance of the coil. Study of the phenomenon of induction. Determination of the capacitor charging curve. Transformer testing. Generator and electric motor. Study of the electric field distribution. Study of the magnetic field of electric conductors. Measurement of magnetic induction in the electromagnet gap.										
Teaching methods	Laboratory classes, discussion										
Assessment method	An assessment of the report based on the quality of the measurements, correctness of the computations and analysis of results, clarity of discussion, correctness of answers to questions, and neatness.										
Symbol of learning outcome				Lea	arning	outcon	nes	Reference to the learning outcomes for the field of study			
L01	Knows and understands the methods of measuring physical quantities, in particular those that characterize various types of the components and systems										
LO2	Assigns the relevant principles and rules for existing problems										
LO3	to so	Uses the learned laws of physics, electricity and magnetism to solve typical physics problems									
LO4	of the	Analyzes and solves the engineering problems with the use of the physical approach									
LO5	in a s	elf-co	nnecte	d elec	trical c	ircuit		sical experiments			
LO6								ills by working in nd the thoughtful			

	discussion and the interpretation of data								
Symbol of	and and the morphodulen of data	Type of tuition during							
learning	Methods of assessing the learning outcomes	which the outcome is							
outcome	3 3	assessed							
1.04	assessment of entrance tests, reports, discussions and	LC							
L01	activity in the classroom								
LO2	assessment of entrance tests, reports, discussions and	LC							
LOZ	activity in the classroom								
LO3	assessment of entrance tests, reports, discussions and	LC							
	activity in the classroom								
LO4	assessment of entrance tests, reports, discussions and	LC							
	activity in the classroom								
LO5	assessment of entrance tests, reports, discussions and	LC							
	activity in the classroom								
LO6	assessment of entrance tests, reports, discussions and	LC							
	activity in the classroom								
	Student workload (in hours)	No. of hours							
	laboratory classes	15							
	preparation for classes	15							
	work on reports (analyze, calculations, discussion)	20							
Calculation									
	TOTAL:								
	Quantitative indicators	HOURS	ECTS credits						
Student wor	25	1,5							
	Student workload – practical activities								
	·	40	2 utladaa						
	J. Bird, Electrical Circiut. Theory and Technology, sixth edition, Routledge 2017								
	2017 2. D. Halliday, R. Resnick, Physics 1 and Physics 2, Wiley; 3rd edition								
Basic references	3. Feynman R. P., Leighton R. B., Sands M, The Feynman Lectures on Physics,								
	Basic Books; New Millennium ed. Edition								
	4. N. M. MacKay, Theory of Physics, volumes 1 and 2, 2020								
Supplementary	D. Halliday, R. Resnick, J. Walker, Fundamentals of P		Wiley and						
references	Sons; 7th edition	, 5.55, 55111	y wiid						
Organisational	Department of Electrical Engineering, Power	B 4 5:							
unit conducting	Electronics and Electrical Power Engineering	Date of issuing the							
the course	programme								
Author of the	Anna Maria Dialastaska Dh. D								
programme	Anna Maria Białostocka, Ph. D. 28.02.2021								
	see I C – laboratory classes B – project SW – specialization we								

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW - field work,