			F	aculty	of Ele	ectrical	Engin	eering			
Field of study	Faculty of Electrical Engineering         Electrical and Electronics Engineering         type							Bachelor's degree Full time			
Specialization/ diploma path	- Study profile							-			
Course name	Introduction to Programming in C							Course code	IS-FEE-10061S		
						Ū		Course type	elective		
Forms and	L	С	LC	Р	SW	FW	S	Semester	summer		
number of hours of tuition					30			No. of ECTS credits	3		
Entry requirements							•				
Course objectives	Developing the skills of computer algorithms designing and implementing them in the form of programs in C language.										
Course content	Structured programming in C language: data types, variables and constants, expressions and statements, operators, precedence of operators, formatted input/output, conditional statements, loops, arrays, pointers and dynamic memory allocation, structures, unions and bit fields, text and binary files, functions, passing argument to functions.										
Teaching methods		Multimedia presentation, solving programming problems									
Assessment method	Two practical tests, evaluation of computer programs										
Symbol of learning outcome	Learning outcomes [After completing this course student ] learning outcom							Reference to the learning outcomes for the field of study			
L01								s in C language itional statements			
LO2		-	and ar	-							
LO3	defines and uses its own functions in programs in C language										
LO4		reads and writes data from and to files in programs written in C language									

## COURSE DESCRIPTION CARD

Symbol of		Type of tui	tion during				
-	Methodo of accessing the learning outcomes	Type of tuition during which the outcome is					
learning outcome	Methods of assessing the learning outcomes						
LO1	practical test, evaluation of computer programs	assessed SW					
LO1	practical test, evaluation of computer programs						
LO2 LO3	practical test, evaluation of computer programs	SW SW					
LO3	practical test, evaluation of computer programs	SW					
L04	practical test, evaluation of computer programs	3	VV				
	Student workload (in hours)	No. of	hours				
	participation in specialization workshop	3	0				
	preparation for specialization workshop	18					
Calculation	working on homework (computer programs)	18					
	participation in student-teacher sessions related to the specialization workshop	5					
	preparation for practical tests (specialization workshop)	10					
	TOTAL:	81					
	Quantitative indicators	HOURS	No. of ECTS credits				
Student wor	kload – activities that require direct teacher participation	35 1,5					
	Student workload – practical activities	81	3				
Basic references	<ol> <li>Prata S., C Primer Plus (6th Edition) (Developer's Library). A Professional, 2013.</li> <li>Kernighan B.W., Ritchie D.M., The C Programming Language Hall, 1988.</li> <li>Kochan S.G., Programming in C (4th Edition) (Developer's Li Wesley Professional, 2014.</li> </ol>	e. 2nd Editio	n, Prentice				
Supplementary references	<ol> <li>King K.N., C Programming: A Modern Approach, 2nd Edition. W. W. Norton &amp; Company, 2008.</li> <li>Reese R.M., Understanding and Using C Pointers. O'Reilly Media, 2013.</li> <li>Shaw Z.A., Learn C the Hard Way: Practical Exercises on the Computational Subjects You Keep Avoiding (Like C). Addison-Wesley Professional, 2015.</li> </ol>						
Organisational unit conducting the course	Department of Electrotechnics, Power Electronics and Power Engineering	Date of issuing the programme					
Author of the programme	Jarosław Forenc, PhD	23.02.2020					

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

S – seminar