Faculty of Electrical Engineering									
Field of study	Electrical and Electronics EngineeringDegree leveland programmetype						Bachelor's degree Full time		
Specialization/ diploma path	- Study profile						-		
Course nome	Introduction to Programming in C							Course code	IS-FEE-10061S
Course name		mouu		U FIUg	Jiannin	ing in v		Course type	elective
Forms and number of hours of tuition	L	С	LC	Р	SW	FW	S	Semester	summer
					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)						Reference to the learning outcomes for the field of study		
L01	write using	s and the a	runs si ppropr	mple s iate da	structu Ita type	red pro es and	ograms condit	s in C language tional statements	
LO2	uses	loops	and ar	rays ir	n progr	ams in	C lan	guage	
LO3	defin Iangu	es anc Jage	luses	its own functions in programs in C					
LO4	reads C lan	s and v guage	vrites o	lata fro	om and	l to file	s in pr	ograms written in	

COURSE DESCRIPTION CARD

Symbol of		Type of tuition during					
learning	Methods of assessing the learning outcomes	which the outcome is					
outcome		assessed					
L01	practical test, evaluation of computer programs	SW					
LO2	practical test, evaluation of computer programs	SW					
LO3	practical test, evaluation of computer programs	SW					
LO4	practical test, evaluation of computer programs	SW					
	Student workload (in hours)	No. of	hours				
Calculation	participation in specialization workshop	30					
	preparation for specialization workshop	18					
	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 workload – activities that require direct teacher participation 35							
	81	3					
Basic references	 Prata S., C Primer Plus (6th Edition) (Developer's Library). Addison-Wesley Professional, 2013. Kernighan B.W., Ritchie D.M., The C Programming Language. 2nd Edition, Prentice Hall, 1988. Kochan S.G., Programming in C (4th Edition) (Developer's Library). Addison- Wesley Professional, 2014. 						
Supplementary references	 King K.N., C Programming: A Modern Approach, 2nd Edition. W. W. Norton & Company, 2008. Reese R.M., Understanding and Using C Pointers. O'Reilly Media, 2013. Shaw Z.A., Learn C the Hard Way: Practical Exercises on the Computational Subjects You Keep Avoiding (Like C). Addison-Wesley Professional, 2015. 						
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