

ARQCP: Schedule

2023/24

Week nr	T	TP	PL		Assessment
1	Course overview. Computer system.	Compilation systems. C programming language basics	Introduction to C pro- gramming. Modules and Makefiles	Module 0	
2	Data type abstractions: Bits and Bytes	C programming: static memory allocation, strings, arrays and pointers			
3	Data type abstractions: Integers and integer arithmetic	Machine programming: Assembly language basics	C programming: static memory allocation, strings, arrays and point- ers	Module 1	
4	Machine programming: basics	Machine programming: Arithmetic operations			
5	Machine programming: operation and control	Machine programming: control flow	Machine programming: basic.	Module 2	Module 1
6	Machine programming: memory addressing modes	Machine programming: array allocation and acces			
7	Machine programming: array allocation and access	Machine programming: stack and procedure calls	Machine programming: strings and arrays; func- tions without arguments.	Module 3	Module 2
8	Machine programming: procedures	Machine programming: stack and functions with arguments; handling local variables			
9	Memory organization: structures, unions and data alignments	Bitwise operations (C and Assembly)	Machine programming: functions with arguments and local variables. Bit- wise operations (C and Assembly)	Module 4	Module 3 (Feedback)
10	Dynamic memory allocation	Complex data structures (C and Assembly)			
11	Optimizing program performance	Dynamic memory allocation (C and Assembly)	Complex data structures (C and Assembly). Dy- namic memory allocation (C and Assembly)	Module 5	Module 4 (LAPR3: Sprint 2: USs); In- dividual exercise
12	Optimizing program performance	Dynamic memory allocation (C and Assembly)			
13	LAPR3: Sprint 3: USs				
14	LAPR3: Sprint 3: USs				
15	LAPR3: Sprint 3: USs: Evaluation				

Note: The schedule may be subject to change.