



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

INSTITUTE OF INNERCITY LEARNING LONDON

Module Code: ACCA5029

Module Name: Network Programmability

Number of Credits: 20

Academic Calendar: October 2022

Week Number	Week Beginning	Topic	Information
1	10-Oct-22	Configuration management and orchestration tools-1 (Chef, Puppet, Ansible, Saltstack, Terraform, Pulumi) Lab activities-1 (using Linux, Ansible, Mobaxterm, YAML)	Assessment 1 & 2 given out
2	17-Oct-22	Configuration management and orchestration tools 2 (Ansible) Lab activities-2 (using Linux, Ansible, Mobaxterm, YAML)	
3	24-Oct-22	Principles and practice of Infrastructure as Code (IaC) Lab activities-3 (using Linux, Ansible, Mobaxterm, YAML)	
4	31-Oct-22	Key scripting languages for network programmability (YAML, Python, JavaScript, Bash, PowerShell)	

		Lab activities-4 (using Linux, Ansible, Mobaxterm, YAML)	
5	07-Nov-22	Software design principles for network engineers: devops, continuous integration, source control, etc Lab activities-5 (using Linux, Ansible, Mobaxterm, YAML)	
6	14-Nov-22	Necessary auxiliary technologies for network programmability, e.g. Linux, Mako, Ruby, XML, JSON, YAML Lab activities-6 (using Linux, Ansible, Mobaxterm, YAML)	
7	21-Nov-22	Data modelling languages, e.g. YANG Lab activities-7 (using Linux, Ansible, Mobaxterm, YAML)	
8	28-Nov-22	Lab activities-8 (using Linux, Ansible, Mobaxterm, YAML)	Completion of the Lab Project for the assessment 2
9	05-Dec-22	API programming for networking and automation, e.g. the NAPALM library Lab Project demonstration session 1	Lab project presentation session 1
10	12-Dec-22	Programming for IoT implementation Lab Project demonstration session 2	Lab Project presentation session 2
11	19-Dec-22	Assessment Week	Assessment 1 21/12/2022
12	26-Dec-22	Christmas Break	
12	2-Jan-23	Assessment Week	Assessment 2 06/01/2023