

MODULE SPECIFICATION

Part 1: Information						
Module Title	Discrete Mathematics (Course Project) [TSI]					
Module Code	UFCFUW-6-1		Level	Level 4		
For implementation from	2021-	22				
UWE Credit Rating	6		ECTS Credit Rating	3		
Faculty		ty of Environment & nology	Field	Computer Science and Creative Technologies		
Department	FET Dept of Computer Sci & Creative Tech					
Module Type:	Project					
Pre-requisites		None				
Excluded Combinations		None				
Co-requisites		None				
Module Entry Requirements		None				
PSRB Requirements		None				

Part 2: Description

Educational Aims: The aim of this module is to instruct students in methods and models of transport flow theory and algorithm theory by completing a course paper.

Outline Syllabus: Transport problem; Transport problem - implementation; Turing machine; Turing machine - implementation

Teaching and Learning Methods: 4 hours of lectures are provided to students to explain assign individual assignment, explain requirements and demonstrate past course paper and answer questions about assignment. Rest of time students are completing a course paper, which consists of 2 parts (topics): Transport problem; Turing machine. Course paper is delivered as report which has calculation, programme code realised by students, solution of the tasks and conclusion.

Part 3: Assessment

This module assessment consists of one element, which is course paper delivered in form of report. The course paper is delivered in electronic form using TSI LMS and checked by the teacher. Work is graded using regular 10 level scale.

First Sit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A	~	100 %	Course paper
Resit Components	Final Assessment	Element weighting	Description
Written Assignment - Component A		100 %	Course Project

Part 4: Teaching and Learning Methods							
Learning Outcomes	On successful completion of this module students will achieve the followi	ng learning outcomes:					
	Module Learning Outcomes	Reference					
	Apply mathematical notation and terminology of graph theory and theory algorithms						
	Understanding of transport task and main methods of its solving	MO2					
	Understanding of basic classes of problems in the theory of algorithms	MO3					
	Apply algorithmic model of Turing machine	MO4					
	Solve transport problem in graph theory	MO5					
	Solve the problem of finding the flow with minimal cost	MO6					
	Implement various algorithms using a Turing machine	MO7					
Contact Hours	Independent Study Hours:						
	Independent study/self-guided study	48					
	Total Independent Study Hours:	48					
	Scheduled Learning and Teaching Hours:						
	Face-to-face learning	32					
	Total Scheduled Learning and Teaching Hours:	32					
	Hours to be allocated	60					
	Allocated Hours	80					

STUDENT AND ACADEMIC SERVICES

Reading List	The reading list for this module can be accessed via the following link:
	https://rl.talis.com/3/uwe/lists/3E565164-0661-0B67-D58F-7F3A4F8C1019.html?lang=en- gb&login=1

Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Computer Science and Software Development [Oct][FT][TSI][4yrs] BSc (Hons) 2020-21

Computer Science and Software Development [Oct][PT][TSI][5yrs] BSc (Hons) 2020-21 BSc (Hons) 2020-21

Computer Science and Software Development [Feb][FT][TSI][4yrs] BSc (Hons) 2020-21

Computer Science and Software Development [Feb][PT][TSI][5yrs] BSc (Hons) 2020-21 BSc (Hons) 2020-21