Course Outline

Title: MAINFRAME TRANSACTION MANAGEMENT

Code: ITECH2115

Faculty / Portfolio: Faculty of Science

Program Level:

	AQF Level of Program					
	5	6	7	8	9	10
Level						
Introductory						
Intermediate			✔			
Advanced						

Pre-requisites: (ITECH1006 and ITECH2114)

Co-requisites: Nil

Exclusions: Nil

Progress Units: 15

ASCED Code: 0202113

Learning Outcomes:

Knowledge:

K1. define and describe Customer Information Control System (CICS) Transaction Manager

K2. explain CICS connectivity and intercommunication between the systems

K3. explain the structure and relationship of CICS Application Programming Interfaces

K4. describe and discuss relational and hierarchical database systems in context of CICS services

Skills:

S1. prepare an application program for execution in a CICS environment

S2. test CICS programs and status of resources required to execute the program

S3. demonstrate use of CICS supplied transactions and programs

Application of knowledge and skills:

A1. relate and interpret technologies of CICS systems to ever increasing business needs for transactions

A2. demonstrate initiative and judgement to apply CICS technologies and techniques to unique and diverse business contexts;

Values and Graduate Attributes:

Values:

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V1. appreciate major concepts and features that are applicable to the internal structures used for mainframe transaction management.

V2. appreciate the contribution that can be made by graduates to the ever increasing global shortage of mainframe professionals

Graduate Attributes:

Attribute	Brief Description	Focus
Continuous Learning	In a blended learning approach facilitated by the use of contemporary industry based problems requiring planning, development and maintenance of CICS transactions running on mainframe systems, students will continue to develop their knowledge and skills.	Medium
Self Reliance	Students will participate in a self-directed and collaborative learning environment to develop their theoretical and technical expertise in the field of CICS transactions running on mainframe computers.	Medium
Engaged Citizenship	Students will apply methods and techniques on CICS Transaction processing systems , which meets industry design and accessibility standards.	Medium
Social Responsibility	By contributing to industry shortage of mainframe/CICS professionals students will have an obligation to act to benefit their customers, colleges and society at large.	Medium

Content:

This course introduces major concepts and features that are applicable to mainframe transaction management principles of Customer Information Control System (CICS). CICS connectivity and intercommunication facilities, CICS application Programming Interface and testing and debugging is included.

Topics may include:

- Major concepts and features that are applicable to CICS Transaction Manager
- The internal structure of CICS and CICS management functions
- CICS connectivity and intercommunication facilities
- CICS Application Programming Interface (API), general guidelines that support CICS application programming design along with CICS testing and debugging facilities.
- Writing programming roles, creating a test environment and preparing a program for execution

Assessment:

Students should attend laboratory classes and complete laboratory worksheets. Students should maintain a folio and record for tutors to see at any time throughout the semester. Students should participate in lectures and computer laboratory classes and maintain a notebook with notes and exercises. The assessment for the subject will include at least one test during semester and a final examination will test the understanding of the concepts studied in this course.

Learning Outcomes Assessed	Assessment Task	Assessment Type	Weighting

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S1, S2 , S3, A1 and A2	Attend lectures, read, summarise and apply theoretical aspects of the course, establish strong familiarity with practical application of material covered. Demonstrate the skills developed.	Lab Exercises, Practical tests and/or Assignments	30-50%
K1, K2, K3 and K4	Test on theoretical knowledge.	Supervised Test(s) and Examination(s)	50-70%

Adopted Reference Style:

APA

Presentation of Academic Work:

https://federation.edu.au/students/assistance-support-and-services/academic-support/general-guide-for-the-presentation-of-academic-work