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NCEAC.DOC.001-E

## **Course Log Template**

**INSTITUTION** 

Department of Computer Science, National University of Computer and Emerging Sciences, Karachi Campus

## PROGRAM (S) TO BS Computer Science

BE

**EVALUATED** 

Course Name Catalog Number Instructor Name **Discrete Structures (Fall 2020)** 

CS211

Shoaib Raza (Shoaib.raza@nu.edu.pk)

Date	Duration	Topics Covered	Evaluation Instruments used	Signature
31- August, 2020	3 hours	Introduction: Discrete Structures and its applications, Propositional Logic, Applications of Propositional Logic, Propositional Equivalences	Quiz, Assignment and Mid Exam, Final	
	3 hours	Predicates and Quantifiers, Nested Quantifiers	Quiz, Assignment and Mid Exam, Final	
	3 hours	Rules of Inference	Quiz, Assignment and Mid Exam, Final	
	6 hours	Sets and Functions	Quiz, Assignment and Mid Exam, Final	
5-7 October	1 hour	MID-I EXAMINATION (WEEK 6)		
	6 hours	Relations	Quiz, Assignment and Mid Exam, Final	
	3 hours	Number Theory and Cryptography	Quiz, Assignment and Mid Exam, Final	
	3 hours	Mathematical Proofs, Mathematical Induction	Quiz, Assignment and Mid Exam, Final	
09-11 November	1 hour	MID-II EXAMINATION (WEEK 11)		
	6 hours	Graph Theory, graph theoretic algorithms	Quiz, Assignment and Final	

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	3 hours	Trees and their applications	Quiz, Assignment and Final
	6 hours	Combinatorics: Permutation, Combination, Inclusion-Exclusion Principle	Quiz, Assignment and Final
	2 hours	Discrete Probability (introduction)	Final
22-31 December	3 hours	END-TERM EXAMINATION (WEEK 17)	

Instructor Name <u>S</u>	hoaib Raza	
Instructor Signature		
Date _	26-08-2020	

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