

**Equivalence of Papers of
MCA – I (2016-17) and MCA (2020-21)**

MCA – I (2016-17)		MCA – I (2020-21)	
Sem.	Paper Title	Sem.	Paper Title
I	HCT1.1 : Introduction to Computers	-	<i>No equivalence</i>
I	HCT 1.2 : Programming using C	-	<i>No equivalence</i>
I	HCT 1.3 : Digital Circuits and Microprocessors	I	HCT 1.5 : Digital Circuits and Microprocessors
I	HCT 1.4 : Management	-	<i>No equivalence</i>
I	SCT 1.1 : Discrete Mathematical Structures	I	SCT 1.1 : Discrete Mathematical Structures
I	SCT 1.2 : Operations Research	I	SCT 1.2 : Operation Research
II	HCT2.1 : Object Oriented Programming using C++	I	HCT 1.1 : Object Oriented Programming using C++
II	HCT 2.2 : Data Structures	I	HCT 1.2 : Data Structures
II	HCT 2.3 : Operating System	I	HCT 1.4 : Operating Systems
II	SCT 2.1 : Software Engineering	I	HCT 1.3 : Software Engineering
II	OET 2.1 : Office Automation	II	OET 2.1 : Office Automation
II	OET 2.2 : Linux Operating System	-	<i>No equivalence</i>

**Equivalence of Papers of
MCA – II (2017-18) and MCA (2021-22)**

MCA – II (2017-18)		MCA – II (2021-22)	
Sem.	Paper Title	Sem.	Paper Title
III	HCT 3.1 : System Software	II	HCT 2.4 : System Software
III	HCT 3.2 : DBMS	II	HCT 2.2 : Advanced DBMS
III	HCT 3.3 : Java Programming	II	HCT 2.1 : Java Programming
III	SCT 3.1 : Computer Communication Network	II	HCT 2.3 : Computer Communication Network
III	SCT 3.2 : Computer Architecture	-	<i>No equivalence</i>
III	SCT 3.3 : Programming with PHP	-	<i>No equivalence</i>
III	OET 3.1 : Fundamentals of Web Designing	III	OET 3.1 : Fundamentals of Web Designing
III	OET 3.2 : Internet of Things		
IV	HCT 4.1 : .NET	III	HCT3.1 : .NET Technology
IV	HCT 4.2 : Data Mining and Warehouse	III	SCT 3.1 : Data Warehouse and Mining
IV	HCT 4.3 : UML	II	SCT 2.1 : UML
IV	HCT 4.4 : Finite Automata	III	SCT 3.2 : Finite Automata
IV	SCT 4.1 : Distributed Operating System	-	<i>No equivalence</i>
IV	SCT 4.2 : Computer Graphics	II	SCT 2.2 Graph Theory

**Equivalence of Papers of
MCA – III (2017-18) and MCA-II (2021-22)**

MCA – III (2018-19)		MCA – II (2021-22)	
Sem.	Paper Title	Sem.	Paper Title
V	HCT 5.1 : Digital Image Processing	III	HCT3.2 : Digital Image Processing
V	HCT 5.2 : Web Design Techniques	-	<i>No equivalence</i>
V	HCT 5.3 : Mobile Computing	III	HCT 3.3 : Mobile Computing
V	SCT 5.1 : Artificial Intelligence	III	HCT 3.4 : Artificial Intelligence
V	SCT 5.2 : Network Security	-	<i>No equivalence</i>
V	SCT 5.3 : Pattern Recognition	-	<i>No equivalence</i>
V	SCT 5.4 : Real Time Systems	-	<i>No equivalence</i>