UNIVERSITY OF MADRAS

(Established under the Act of Incorporation XXVII of 1857 –
Madras University Act 1923) - (State University)

M.C.A. DEGREE EXAMINATION – NOVEMBER 2022

[CHOICE BASED CREDIT SYSTEM]

THEORY TIME-TABLE

F.N. 10.00 a.m. to 1.00 p.m.
A.N. 02.00 p.m. to 5.00 p.m. **Maximum Marks : 075**

For candidates admitted prior to the Academic year 2015-2016

Date & Session	Subject Name		Subject Code	Q.P. No.
	FIRST SEMESTER			
18.11.2022 AN	Programming in C and UNIX		PSC1A	
19.11.2022 AN	Digital Computer Fundamentals		PSC1B	
24.11.2022 AN	**System Software**		**PSC1C/PSG2C**	
21.11.2022 AN	**Non-Major Elective-I Mathematics for Computer Science**		**PNS1A/PEG1A**	
	SECOND SEMESTER			
07.12.2022 FN	Microprocessors and its Applications		PSC2D	
19.11.2022 FN	Object Oriented Programming with C++		PSC2E	
22.11.2022 AN	**Data Structures**		**PSC2G/PSG2A**	
25.11.2022 AN	**Non-Major Elective-II Statistical Methods**		**PNS2B/PEG2A**	
	THIRD SEMESTER			
26.11.2022 AN	Software Engineering		PSC3H	
28.11.2022 AN	Computer Graphics		PSC3J	
29.11.2022 AN	Java Programming		PSC3K	
30.11.2022 AN	Operating Systems		PSC3L	
20.12.2022 FN	**Extra Disciplinary – Accounting & Financial Management**		**PEC3A/PEG3A/PC31A**	
	FOURTH SEMESTER			
01.12.2022 AN	Computer Networks		PSC4M	
19.12.2022 FN	**Database Management Systems**		**PSC4N/PSG4B/ PC21C**	
02.12.2022 AN	Design and Analysis of Algorithms		PSC4P	
18.11.2022 FN	Software Project Management		**PSC4R/PC43A**	
08.12.2022 AN	**ELECTIVE-I**	Multimedia Systems	PSCEA	
		Windows Programming	PSCEB	
		Advanced Java Programming	PSCEC	
	FIFTH SEMESTER			
03.12.2022 AN		**Software Testing**	**PSC5S/PSGEE**	
07.12.2022 AN	**ELECTIVE-II**	Managerial Economics	PSCED	
		E-Commerce	PSCEE	
		Data Warehousing and Data Mining	PSCEG	
05.12.2022 AN	**ELECTIVE-III**	**Artificial Neural Networks**	**PSCEH/PSGEK**	
		Computer Simulation and Modeling	PSCEJ	
		Artificial Intelligence	PSCEK	
		Information Security	PSCEL	
06.12.2022 AN	**ELECTIVE-IV**	Operations Research	PSCEM	
		Mobile Computing	PSCEN	
		Object Oriented Analysis & Design	PSCEP	
		Digital Image Processing	PSCER	

For candidates admitted from the Academic year 2015-2016 up to 2020			
FIRST SEMESTER			
18.11.2022 AN	Programming in C and C++		PSG1A
15.12.2022 FN	Digital Computer Fundamentals		**PSG1B/PC21B**
19.11.2022 AN	Open Source Software		PSG1C
21.11.2022 AN	**Non-Major Elective-I Mathematics for Computer Science**		**PEG1A/PNS1A**
SECOND SEMESTER			
22.11.2022 AN	**Data Structures**		**PSG2A/PSC2G**
23.11.2022 AN	Programming in Java		PSG2B
24.11.2022 AN	**System Software**		**PSG2C/PSC1C**
25.11.2022 AN	**Non-Major Elective-2 Statistical Methods**		**PEG2A/PNS2B**
THIRD SEMESTER			
26.11.2022 FN	Design and Analysis of Algorithms		**PSG3A/PC22A**
26.11.2022 AN	Computer Graphics		PSG3B
28.11.2022 AN	Advanced Java Programming		PSG3C
16.12.2022 FN	Operating Systems		**PSG3D/PC41A**
20.12.2022 FN	**Non-Major Elective-III Accounting & Financial Management**		**PEG3A/PEC3A/ PC31A**
FOURTH SEMESTER			
29.11.2022 FN	Computer Networks		**PSG4A/PC42A**
19.12.2022 FN	**Database Management Systems**		**PSG4B/PSC4N/ PC21C**
01.12.2022 FN	Software Engineering		**PSG4C/PC42C**
29.11.2022 AN	Multimedia Systems		PSG4D
30.11.2022 FN	**ELECTIVE-I**	Digital Image Processing	**PSGEA/PC42B**
01.12.2022 AN	**ELECTIVE-I**	E-Commerce	PSGEB
21.11.2022 FN	**ELECTIVE-I**	Information Security	**PSGEC/PC43J**
FIFTH SEMESTER			
28.11.2022 FN	Object Oriented Analysis and Design		**PSG5A/PC22B**
02.12.2022 AN	Web Based Application Development		PSG5B
03.12.2022 AN	**ELECTIVE-II**	Big Data Analytics	PSGED
		Software Testing	**PSGEE/PSC5S**
17.12.2022 FN	**ELECTIVE-II**	Theory of Computation	**PSGEG/PC41B**
19.11.2022 FN	**ELECTIVE-III**	Mobile Computing	PSGEH
		Cloud Computing	**PSGEJ/PC43E**
05.12.2022 AN	**ELECTIVE-III**	Artifical Neural Networks	**PSGEK/PSCEH**

For candidates admitted prior to 2008-2009 under Non-equivalent subjects		
		Maximum Marks : 080
18.11.2022 FN	Programming in 'C'	MC1B
19.11.2022 FN	Computer Architecture	MC3K
21.11.2022 FN	Visual Programming	MCEA
22.11.2022 FN	Network Programming	MCEB
23.11.2022 FN	Software Quality and Assurance	MCEG

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M.C.A. DEGREE EXAMINATION[TWO YEARS] – NOVEMBER 2022

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2020-2021 UPTO 2022

[CHOICE BASED CREDIT SYSTEM]

THEORY TIME-TABLE

F.N. 10.00 a.m. to 1.00 p.m.

Maximum Marks : 075

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2020-2021

Date & Session	Subject Name		Subject Code
	FIRST SEMESTER		
21.12.2022 FN	Paper I	C++ & Data Structures	PC21A
15.12.2022 FN	Paper II	Digital Computer Fundamentals	PSG1B/PC21B
16.12.2022 FN	Elective-I	Operating Systems	PSG3D/PC41A
17.12.2022 FN	Elective-I	Theory of Computation	PSGEG/PC41B
		Data Analytics Using R	PC41C
19.12.2022 FN	Paper III	Database Management Systems	PSG4B/PSC4N/PC21C
20.12.2022 FN	Extra Disciplinary I	Accounting & Financial Management	PEG3A/PEC3A/PC31A
	SECOND SEMESTER		
26.11.2022 FN	Paper VI	Design and Analysis of Algorithms	PSG3A/PC22A
28.11.2022 FN	Paper VII	Object Oriented Analysis and Design	PSG5A/PC22B
02.12.2022 FN	Paper VIII	Artificial Intelligence	PC22C
29.11.2022 FN	Elective II	Computer Networks	PSG4A/PC42A
30.11.2022 FN	Elective II	Digital Image Processing	PSGEA/PC42B
01.12.2022 FN	Elective II	Software Engineering	PSG4C/PC42C
03.12.2022 FN	Extra Disciplinary I	Web Based Application Development	PC32A
	THIRD SEMESTER		
22.11.2022 FN	Paper XI	Machine Learning	PC23A
18.11.2022 FN	Elective III	Software Project Management	PSC4R/PC43A
23.11.2022 FN	Elective III	Supply Chain Management	PC43B
		Management Information Systems	PC43C
19.11.2022 FN	Elective IV	Cloud Computing	PSGEJ/PC43E
24.11.2022 FN	Elective IV	Mobile Computing	PC43D
		Soft Computing	PC43G
21.11.2022 FN	Elective V	Information Security	PSGEC/PC43J
25.11.2022 FN	Elective V	Mobile Application Development	PC43H
		Internet of Things	PC43K

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M.C.A. DEGREE EXAMINATION[TWO YEARS] – NOVEMBER 2022

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2022-2023

[CHOICE BASED CREDIT SYSTEM]

THEORY TIME-TABLE

F.N. 10.00 a.m. to 1.00 p.m.

Maximum Marks : 075

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2022-2023

Date & Session	Subject Name		Subject Code
FIRST SEMESTER			
15.12.2022 FN	**Paper I**	C++ & Data Structures	**IT21A/MC21A**
16.12.2022 FN	**Paper II**	Introduction to Computer Architecture	**MC21B**
17.12.2022 FN	**Paper III**	Relational Database Management Systems	**IT21C/MC21C**
19.12.2022 FN	**Extra Disciplinary I**	Accounting & Financial Management	**MC31A**
20.12.2022 FN	**Elective I**	Operating Systems	**MC41A**
	Elective II	Theory of Computation	**CS31A/MC41B**
	Elective III	Data Mining and Data Warehousing	**IT41A/MC41C**

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NOVEMBER 2022

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M.Sc. COMPUTER SCIENCE DEGREE EXAMINATIONS

NOVEMBER 2022 – [CHOICE BASED CREDIT SYSTEM]

THEORY - TIME-TABLE

F.N.: 10.00 a.m. to 01.00 p.m.
A.N.: 02.00 p.m. to 05.00 p.m. **Maximum Marks: 075**

For candidates admitted prior to the Academic year 2015-2016

Date & Session	Subject Title		Subject Code
	FIRST SEMESTER		
15.12.2022 FN	Design and Analysis of Algorithms		PSA1A
16.12.2022 FN	Advanced Java Programming		PSA1B
20.12.2022 FN	**System Software (Also Common for candidates admitted in M.Sc. Applied Electronics from 2008-2009)**		**PSA1C/ MCSBA/ PSD1C**
19.12.2022 FN	**Non-Major Elective-I Theoretical Foundations of Computer Science**		**PNA1A/ PED1A**
	SECOND SEMESTER		
25.11.2022 AN	Computer Networks		PSA2D
23.11.2022 FN	**Distributed Database Systems**		**PSA2E/ PSDEF**
26.11.2022 AN	**ELECTIVE-I**	Multimedia Systems	PSAEA
		Network Programming	PSAEB
		Windows Programming	PSAEC
28.11.2022 AN	**Non-Major - Elective-II** Bio-Informatics		PNA2B
	THIRD SEMESTER		
18.11.2022 FN	**Principles of Compiler Design**		**PSA3G/ PSD3A**
19.11.2022 AN	Object Oriented Analysis and Design		PSA3H
28.11.2022 FN	**Extra Disciplinary** – Digital Image Processing **(Also Common for candidates admitted in M.Sc. Applied Electronics from 2008-2009)**		**PEA3A/ MCSBC**
22.11.2022 AN	**ELECTIVE-II**	Data Warehousing and Data Mining	PSAED
		Mobile Computing	PSAEE
21.11.2022 FN	**ELECTIVE-II**	**Artificial Intelligence**	**PSAEG/ PSD3C**
29.11.2022 FN	**ELECTIVE-III**	Artificial Neural Networks	PSAEH
		Computer Simulation and Modeling	**PSAEJ/ PSDEB**
22.11.2022 FN	**ELECTIVE-III**	**Cryptography**	**PSAEK/ PSDEE**

For candidates admitted from the Academic year 2015-2016 up to 2022			
FIRST SEMESTER			
15.12.2022 FN	Design and Analysis of Algorithms		PSD1A
16.12.2022 FN	Advanced Java Programming		PSD1B
20.12.2022 FN	**System Software (Common Paper for M.Sc.-Applied Electronics)**		**PSD1C/ PSA1C/ MCSBA**
19.12.2022 FN	**Non-Major Elective-I Theoretical Foundations of Computer Science**		**PED1A/ PNA1A**
SECOND SEMESTER			
25.11.2022 FN	Computer Networks		PSD2A
26.11.2022 FN	Digital Image Processing		PSD2B
28.11.2022 FN	**ELECTIVE-I**	Mobile Computing	PSDEA
		Computer Graphics	PSDEC
29.11.2022 FN	**ELECTIVE-I**	**Computer Simulation and Modeling**	**PSDEB/ PSAEJ**
30.11.2022 FN	**Extra Discliplinary Elective-II** Object Oriented Analysis and Design		PED2A
THIRD SEMESTER			
18.11.2022 FN	**Principles of Compiler Design**		**PSD3A/ PSA3G**
19.11.2022 FN	Information Security		PSD3B
21.11.2022 FN	**Artificial Intelligence**		**PSD3C/ PSAEG**
22.11.2022 FN	**ELECTIVE-II**	Big Data Analytics	PSDED
		Cryptography	**PSDEE/ PSAEK**
23.11.2022 FN	**ELECTIVE-II**	**Distributed Database Systems**	**PSDEF/ PSA2E**
24.11.2022 FN	**ELECTIVE-III**	Multimedia Systems	PSDEG
		E-Commerce	PSDEH
		Cloud Computing	PSDEJ
For candidates admitted prior to 2008-09 under Non-equivalent subjects			
Maximum Marks : 080			
18.11.2022 FN	Principles of Programming Languages		GSAEB
19.11.2022 FN	Software Testing		GSAEC
21.11.2022 FN	Computer Architecture		MS1B
22.11.2022 FN	Java Programming		MS1C
23.11.2022 FN	Software Engineering		MS2F
24.11.2022 FN	Web Technology		MS2G
25.11.2022 FN	Visual Programming		MSED

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M.Sc. COMPUTER SCIENCE DEGREE EXAMINATIONS

NOVEMBER 2022 – [CHOICE BASED CREDIT SYSTEM]

THEORY - TIME-TABLE

F.N.: 10.00 a.m. to 01.00 p.m.

Maximum Marks: 075

For candidates admitted from the Academic year 2022-2023

DATE & SESSION		SUBJECT	SUB CODE
FIRST SEMESTER			
15.12.2022 FN	**Paper -1**	Advanced Data Structure and Algorithms	**CS21A**
16.12.2022 FN	**Paper- 2**	Advanced PYTHON Programming	**CS21B**
17.12.2022 FN	**Paper-3**	Artificial Intelligence	**CS21C**
20.12.2022 FN	**Extra Disciplinary**	Theory of Computations	**MC41B/CS31A**

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M.Sc. INFORMATION TECHNOLOGY DEGREE EXAMINATION

NOV 2022 - CHOICE BASED CREDIT SYSTEM

THEORY TIME -TABLE

F.N.: 10.00 a.m. to 1.00 p.m.
A.N.: 02.00 p.m. to 5.00 p.m. **Maximum Marks: 075**

For candidates admitted from the Academic year 2008-2009 and also candidates admitted the academic year 2007-2008 equivalent to 2008-2009 up to 2022

Date & Session	Subject Name		Subject Code
FIRST SEMESTER			
15.12.2022 FN	C ++ and Data Structures		PSB1A
16.12.2022 FN	Computer Architecture		PSB1B
17.12.2022 FN	Database Management Systems		PSB1C
19.12.2022 FN	**ELECTIVE-I**	Visual Programming	PSBEA
		E-Commerce	PSBEB
		Programming in C	PSBEC
SECOND SEMESTER			
24.11.2022 FN	Operating Systems		PSB2D
25.11.2022 FN	Programming in Java		PSB2E
26.11.2022 FN	**ELECTIVE-II**	Software Engineering	PSBED
		Data Warehousing and Data Mining	PSBEE
		Software Testing	PSBEG
28.11.2022 FN	**ELECTIVE-III**	Internet Technology	PSBEH
		Multimedia Systems	PSBEJ
		Windows Programming	PSBEK
THIRD SEMESTER			
18.11.2022 FN	Computer Networks		PSB3G
19.11.2022 FN	Design and Analysis of Algorithms		PSB3H
21.11.2022 FN	Advanced Java Programming		PSB3J
22.11.2022 FN	**Extra Disciplinary** – Information Security		PEB3A
23.11.2022 FN	**ELECTIVE-IV**	Mobile Computing	PSBEL
		Artificial Intelligence	PSBEM
		Computer Graphics	PSBEN
For Candidates admitted prior to 2008-09 under Non-equivalent subjects			
			Maximum Marks : 80
18.11.2022 FN	Software Project Management		GSBEA
19.11.2022 FN	Fuzzy Logic with Engineering Applications		GSBEB
21.11.2022 FN	Network Programming		GSBEC
05.12.2022 FN	**Bio-Informatics (Common paper to M.Sc.- Chemistry)**		**GSB3N/ BCRBC**
01.12.2022 FN	**Artificial Neural Networks (Common paper to M.Sc.- Bio-Informatics)**		**GSBEG/ BCPBC**
24.11.2022 FN	Digital Image Processing		GSBEH
25.11.2022 FN	Computer Simulation & Modeling		GSBEJ
26.11.2022 FN	Data Structures		MT1A
28.11.2022 FN	Object Oriented Programming with C++		MT1C
29.11.2022 FN	Web Technology		MT2H
30 .11.2022 FN	Object Oriented Analysis and Design		MT3L

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M.Sc. INFORMATION TECHNOLOGY DEGREE EXAMINATION

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F.N.: 10.00 a.m. to 1.00 p.m.
A.N.: 02.00 p.m. to 5.00 p.m. **Maximum Marks: 075**

For candidates admitted prior to the Academic year 2022-2023

Date & Session	Subject Name		Subject Code
FIRST SEMESTER			
15.12.2022 FN	**Paper I**	C++ & Data Structures	**MC21A/IT21A**
16.12.2022 FN	**Paper II**	Computer Architecture	**IT21B**
17.12.2022 FN	**Paper III**	Relational Database Management Systems	**MC21C/IT21C**
20.12.2022 FN	**Elective I**	Data Mining & Data Warehousing	**MC41C/IT41A**
		E-Commerce	**IT41B**
		Agile Software Engineering	**IT41C**

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NOVEMBER 2022