UNIVERSITY OF MADRAS

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

M.C.A. DEGREE EXAMINATION – NOVEMBER 2023

[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 2020-21

FIRST SEMESTER

Date	Subject	Code
22.11.2023 AN	Programming in C and C++	PSG1A
05.12.2023 FN	Digital Computer Fundamentals	**PSG1B/PC21B**
23.11.2023 AN	Open Source Software	PSG1C
24.11.2023 AN	**Non-Major Elective-I Mathematics for Computer Science**	**PEG1A/PNS1A**

SECOND SEMESTER

Date	Subject	Code
27.11.2023 AN	**Data Structures**	**PSG2A/PSC2G**
28.11.2023 AN	Programming in Java	PSG2B
29.11.2023 AN	**System Software**	**PSG2C/PSC1C**
30.11.2023 AN	**Non-Major Elective-2 Statistical Methods**	**PEG2A/PNS2B**

THIRD SEMESTER

Date	Subject	Code
28.11.2023 FN	Design and Analysis of Algorithms	**PSG3A/PC22A**
01.12.2023 AN	Computer Graphics	PSG3B
02.12.2023 AN	Advanced Java Programming	PSG3C
06.12.2023 FN	Operating Systems	**PSG3D/PC41A**
09.12.2023 FN	**Non-Major Elective-III Accounting & Financial Management**	**PEG3A/PEC3A/ PC31A**

FOURTH SEMESTER

Date		Subject	Code
30.11.2023 FN		Computer Networks	**PSG4A/PC42A**
08.12.2023 FN		**Database Management Systems**	**PSG4B/PSC4N/ PC21C**
02.12.2023 FN		Software Engineering	**PSG4C/PC42C**
04.12.2023 AN		Multimedia Systems	PSG4D
01.12.2023 FN	**ELECTIVE-I**	Digital Image Processing	**PSGEA/PC42B**
05.12.2023 AN	**ELECTIVE-I**	E-Commerce	PSGEB
24.11.2023 FN	**ELECTIVE-I**	Information Security	**PSGEC/PC43J**

FIFTH SEMESTER

Date		Subject	Code
29.11.2023 FN		Object Oriented Analysis and Design	**PSG5A/PC22B**
06.12.2023 AN		Web Based Application Development	PSG5B
07.12.2023 AN	**ELECTIVE-II**	Big Data Analytics	PSGED
		Software Testing	**PSGEE/PSC5S**
07.12.2023 FN	**ELECTIVE-II**	Theory of Computation	**PSGEG/PC41B**
23.11.2023 FN	**ELECTIVE-III**	Mobile Computing	PSGEH
		Cloud Computing	**PSGEJ/PC43E**
08.12.2023 AN	**ELECTIVE-III**	Artificial Neural Networks	**PSGEK/PSCEH**

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2020-2021

FIRST SEMESTER

Date	Paper	Subject	Code
11.12.2023 FN	**Paper I**	**C++ & Data Structures**	**PC21A**
05.12.2023 FN	**Paper II**	**Digital Computer Fundamentals**	**PSG1B/PC21B**
06.12.2023 FN	**Elective-I**	**Operating Systems**	**PSG3D/PC41A**
07.12.2023 FN	**Elective-I**	**Theory of Computation**	**PSGEG/PC41B**
		Data Analytics Using R	**PC41C**
08.12.2023 FN	**Paper III**	**Database Management Systems**	**PSG4B/PSC4N/PC21C**
09.12.2023 FN	**Extra Disciplinary I**	**Accounting & Financial Management**	**PEG3A/PEC3A/PC31A**

SECOND SEMESTER

Date	Paper	Subject	Code
28.11.2023 FN	**Paper VI**	**Design and Analysis of Algorithms**	**PSG3A/PC22A**
29.11.2023 FN	**Paper VII**	**Object Oriented Analysis and Design**	**PSG5A/PC22B**
05.12.2023 AN	**Paper VIII**	**Artificial Intelligence**	**PC22C**
30.11.2023 FN	**Elective II**	**Computer Networks**	**PSG4A/PC42A**
01.12.2023 FN	**Elective II**	**Digital Image Processing**	**PSGEA/PC42B**
02.12.2023 FN	**Elective II**	**Software Engineering**	**PSG4C/PC42C**
04.12.2023 FN	**Extra Disciplinary I**	**Web Based Application Development**	**PC32A**

THIRD SEMESTER

Date	Paper	Subject	Code
27.11.2023 FN	**Paper XI**	**Machine Learning**	**PC23A**

22.11.2023 FN	Elective III	Software Project Management	PSC4R/PC43A
		Supply Chain Management	PC43B
		Management Information Systems	PC43C
23.11.2023 FN	Elective IV	Cloud Computing	PSGEJ/PC43E
		Mobile Computing	PC43D
		Soft Computing	PC43G
24.11.2023 FN	Elective V	Information Security	PSGEC/PC43J
		Mobile Application Development	PC43H
		Internet of Things	PC43K

FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2022-2023			
FIRST SEMESTER			
11.12.2023 FN	**Paper I**	C++ & Data Structures	**IT21A/MC21A**
16.12.2023 FN	**Paper II**	Introduction to Computer Architecture	**MC21B**
12.12.2023 AN	**Paper III**	Relational Database Management Systems	**IT21C/MC21C**
14.12.2023 FN	**Extra Disciplinary I**	Accounting & Financial Management	**MC31A**
13.12.2023 FN	**Elective I**	Operating Systems	**IT23B/MC41A**
14.12.2023 AN	**Elective II**	Theory of Computation	**CS31A/MC41B**
15.12.2023 AN	**Elective III**	Data Mining and Data Warehousing	**IT41A/MC41C**
SECOND SEMESTER			
02.12.2023 FN	**Paper VI**	Design and Analysis Algorithms	**IT22A/MC22A**
20.12.2023 FN	**Paper VII**	Agile Software Engineering	**CS43E/IT41C/MC22B**
07.12.2023 FN	**Paper VIII**	Computer Networks	**MC22C**
19.12.2023 FN	**Elective – II**	Cyber Security	**CS43A/MC42A**
06.12.2023 FN	**Elective – II**	Cloud Computing	**IT42A/CS42A/MC42B**
08.12.2023 FN	**Elective – II**	Soft Computing	**MC42C**
09.12.2023 FN	**Extra Disciplinary II**	Web Based Application Development	**MC32A**
THIRD SEMESTER			
01.12.2023 FN		*Machine Learning*	*IT23C/MC23A*
22.12.2023 FN	*Elective –III*	*Natural Language Processing*	*CS42E /436E1E/MC43A*
23.11.2023 FN	*Elective –III*	*Mobile Application Development*	*MC43B*
		Data Visualization	*IT43C/MC43C*
05.12.2023 FN	*Elective-IV*	*Data Analytics/Big Data Analytics*	*IT42C/CS42C/MC43D*
27.11.2023 FN	*Elective-IV*	*Artificial Intelligence*	*CS21C/MC43E*
		Deep Learning and Neural Networks	*MC43F*
04.12.2023 FN	*Elective-V*	*Internet of Things*	*CS42B/IT43A/MC43G*
29.11.2023 FN	*Elective-V*	*Software Testing*	*IT42B/MC43H*
30.11.2023 FN	*Elective-V*	*Information Security*	*IT33A/MC43J*

For candidates admitted from the Academic year 2023-2024

FIRST SEMESTER			
13.12.2023 FN		Discrete Mathematics	435C1A
14.12.2023 FN		Data Structures and Algorithms	435C1B
15.12.2023 FN		Python Programming	435C1C
16.12.2023 FN	Elective -1	Data Engineering and Management	435E1A
		Architecture and Frameworks	435E1B
		Operating Systems and UNIX	435E1C

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M.Sc. COMPUTER SCIENCE DEGREE EXAMINATIONS
NOV 2023 – [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 2021-2022

FIRST SEMESTER

22.11.2023 FN	Design and Analysis of Algorithms	PSD1A
23.11.2023 FN	Advanced Java Programming	PSD1B
24.11.2023 FN	**System Software** (Common Paper for M.Sc.-Applied Electronics)	**PSD1C/ PSA1C/ MCSBA**
27.11.2023 FN	**Non-Major Elective-I Theoretical Foundations of Computer Science**	**PED1A/ PNA1A**

SECOND SEMESTER

28.11.2023 FN	Computer Networks		PSD2A
29.11.2023 FN	Digital Image Processing		PSD2B
30.11.2023 FN	**ELECTIVE-I**	Mobile Computing	PSDEA
		Computer Graphics	PSDEC
01.12.2023 FN	**ELECTIVE-I**	**Computer Simulation and Modeling**	**PSDEB/ PSAEJ**
02.12.2023 FN	**Extra Disciplinary Elective-II** Object Oriented Analysis and Design		PED2A

THIRD SEMESTER

04.12.2023 FN	**Principles of Compiler Design**		**PSD3A/ PSA3G**
05.12.2023 FN	Information Security		PSD3B
06.12.2023 FN	**Artificial Intelligence**		**PSD3C/ PSAEG**
07.12.2023 FN	**ELECTIVE-II**	Big Data Analytics	PSDED
		Cryptography	**PSDEE/ PSAEK**
08.12.2023 FN	**ELECTIVE-II**	**Distributed Database Systems**	**PSDEF/ PSA2E**
09.12.2023 FN	**ELECTIVE-III**	Multimedia Systems	PSDEG
		E-Commerce	PSDEH
		Cloud Computing	PSDEJ

For candidates admitted from the Academic year 2022-2023

FIRST SEMESTER

13.12.2023 FN	**Paper -1**	Advanced Data Structure and Algorithms	**436C1A/CS21A**
14.12.2023 FN	**Paper- 2**	Advanced PYTHON Programming	**436C1B/CS21B**
27.11.2023 FN	**Paper-3**	Artificial Intelligence	**MC43E/CS21C**
14.12.2023 AN	**Extra Disciplinary**	Theory of Computations	**MC41B/CS31A**

SECOND SEMESTER

07.12.2023 FN	**Paper-6**	Machine Learning	**CS22A**
08.12.2023 AN	**Paper-7**	Advanced Networks	**CS22B**
18.12.2023 FN	**Extra Disciplinary**	Principles of Compiler Design	**436E1D /CS32A**
06.12.2023 FN	**Elective-1**	Cloud Computing	**MC42B/IT42A/CS42A**
04.12.2023 FN	**Elective -1**	Internet of Things	**IT43A/MC43G/CS42B**
05.12.2023 FN	**Elective- 1**	Data Analytics/Big Data Analyitics	**MC43D/IT42C/CS42C**
	Elective-2	Full Stack Web Development	**CS42D**
22.12.2023 FN	**Elective-2**	Natural Language Processing	**MC43A/436E1E /CS42E**
		Digital Image Processing	**CS42G**

THIRD SEMESTER

28.11.2023 FN	**Paper-10**	Parallel And Distributed Computing	**CS23A**
29.11.2023 FN	**Paper-11**	Deep Learning and Neural Networks	**CS23B**
30.11.2023 FN	**Paper-12**	Cryptography	**CS23C**
19.12.2023 FN	**Elective – 3**	Cyber Security	**MC42A/CS43A**
15.12.2023 FN	**Elective – 3**	Advanced Computer Architecture	**436E1C /CS43B**
21.12.2023 FN	**Elective – 3**	Distributed Database Systems	**436E1F/CS43C**
20.12.2023 FN	**Elective – 4**	Human Computer Interaction	**CS43D**
	Elective – 4	Agile Software Engineering	**IT41C/MC22B/CS43E**
	Elective – 4	**Computer Vision**	**CS43F**
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For candidates admitted from the Academic year 2023-2024

FIRST SEMESTER

13.12.2023 FN		**Advanced Data Structures and Algorithms**	**CS21A/436C1A**
14.12.2023 FN		**Advanced Python Programming**	**CS21B/436C1B**
20.12.2023 FN	**Elective – 1**	**Cloud Computing**	**436E1A**
		Internet of Things	**436E1B**
15.12.2023 FN	**Elective - 1**	**Advanced Computer Architecture**	**CS43B/436E1C**
18.12.2023 FN	**Elective – 2**	**Principles of Compiler Design**	**CS32A/436E1D**
22.12.2023 FN	**Elective - 2**	**Natural Language Processing**	**MC43A/CS42E/436E1E**
21.12.2023 FN	**Elective - 2**	**Distributed Database Systems**	**CS43C/436E1F**

University Centenary Building   *Dr.Elangovan Vellaichamy, M.Sc., M.Phil., Ph.D*

Chepauk, Chennai – 600 005.   **Controller of Examinations.i/c**

NOVEMBER 2023.

UNIVERSITY OF MADRAS
(Established under the Act of Incorporation XXVII of 1857 –
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M.Sc. INFORMATION TECHNOLOGY DEGREE EXAMINATION
NOV 2023 - 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 2021-2022

Date & Session	Subject Name		Subject Code
FIRST SEMESTER			
22.11.2023 FN	C ++ and Data Structures		PSB1A
23.11.2023 FN	Computer Architecture		PSB1B
24.11.2023 FN	Database Management Systems		PSB1C
27.11.2023 FN	**ELECTIVE-I**	Visual Programming	PSBEA
		E-Commerce	PSBEB
		Programming in C	PSBEC
SECOND SEMESTER			
28.11.2023 FN	Operating Systems		PSB2D
29.11.2023 FN	Programming in Java		PSB2E
30.11.2023 FN	**ELECTIVE-II**	Software Engineering	PSBED
		Data Warehousing and Data Mining	PSBEE
		Software Testing	PSBEG
01.12.2023 FN	**ELECTIVE-III**	Internet Technology	PSBEH
		Multimedia Systems	PSBEJ
		Windows Programming	PSBEK
THIRD SEMESTER			
02.12.2023 FN	Computer Networks		PSB3G
04.12.2023 FN	Design and Analysis of Algorithms		PSB3H
05.12.2023 FN	Advanced Java Programming		PSB3J
06.12.2023 FN	**Extra Disciplinary** – Information Security		PEB3A
07.12.2023 FN	**ELECTIVE-IV**	Mobile Computing	PSBEL
		Artificial Intelligence	PSBEM
		Computer Graphics	PSBEN

For candidates admitted From to the Academic year 2022-2023

Date & Session	Paper	Subject Name	Subject Code
FIRST SEMESTER			
11.12.2023 FN	**Paper I**	C++ & Data Structures	**MC21A/IT21A**
12.12.2023 FN	**Paper II**	Computer Architecture	**IT21B**
12.12.2023 AN	**Paper III**	Relational Database Management Systems	**MC21C/IT21C**
15.12.2023 AN	**Elective I**	Data Mining & Data Warehousing	**MC41C/IT41A**
		E-Commerce	**IT41B**
20.12.2023 FN	**Elective I**	Agile Software Engineering	**CS43E/MC22B/IT41C**
SECOND SEMESTER			
02.12.2023 FN	**Paper VI**	Design & Analysis of Algorithms	**MC22A/IT22A**
05.12.2023 AN	**Paper VII**	Programming in Java	**IT22B**
06.12.2023 FN	**Elective II**	Cloud Computing	**MC42B/CS42A/ IT42A**
29.11.2023 FN	**Elective II**	Software Testing	**MC43H/IT42B**
05.12.2023 FN	**Elective II**	Data Analytics/Big data Analytics	**CS42C/MC43D/IT42C**
06.12.2023 AN	**Elective III**	Web Technology	**IT42D**
		Python Programming	**IT42E**
		Mobile Application Development	**IT42G**
THIRD SEMESTER			
28.11.2023 FN	**Paper-10**	**Computing Networks**	**IT23A**
13.12.2023 FN	**Paper-11**	**Operating Systems**	**MC41A/IT23B**

01.12.223 FN	Paper-12	Machine Learning	MC23A/IT23C
30.11.2023 FN	Extra Disciplinary	Information Security	MC43J/IT33A
04.12.2023 FN	Elective -4	Internet of Things	MC43G/CS42B/IT43A
		Computer Vision	IT43B
23.11.2023 FN		Data Visualization	MC43C/IT43C

FROM THE ACADEMIC YEAR 2023-2024			
FIRST SEMESTER			
13.12.2023 FN	Python Programming		438C1A
14.12.2023 FN	Web Development Using WordPress		438C1B
15.12.2023 FN	Elective - 1	Digital Computer Architecture	438E1A
		Operating Systems	438E1B
		Design and Analysis of Algorithms	438E1C
16.12.2023 FN	Elective - 2	Software Engineering	438E1D
		Object Oriented Analysis and Design	438E1E
		Software Project Management	438E1F

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