



VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

(Established by Act 11/2012 of Rajasthan Govt. Covered u/s 2 (f) of UGC Act, 1956)



CDOE/2023-24/Nov/0041

Date: -29-11-2023

Centre for Distance & Online Education

Ref: HEI PRESENTATION – “Programme offered in conventional mode with same nomenclature”

Name of Programme: Master of Computer Application (MCA)

This is to certify that:

- Master of Computer Application (MCA) programme proposed to be offered in the 'ODL' Mode from the AY 2023-24 contains same nomenclature as per the programme offered in conventional mode.
- Entry Level Qualifications for MCA English Programme are as per the following:

Conventional Mode	ODL Mode
Passed any graduation degree (B.E. / B.Tech./B.Sc / B.Com. / B.A./ B. Voc./ BCA etc.,) preferably with Mathematics at 10+2 level or at Graduation level.	Passed any graduation degree (B.E. / B.Tech./B.Sc / B.Com. / B.A./ B. Voc./ BCA etc.,) preferably with Mathematics at 10+2 level or at Graduation level.
Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.	Obtained at least 50% marks (45% marks in case of candidates belonging to reserved category) in the qualifying examination.
(for learners having no Mathematics background will have to mandatorily complete bridge courses offered by the University related to computer and mathematics subjects as per the norms University).	(for learners having no Mathematics background will have to mandatorily complete bridge courses offered by the University related to computer and mathematics subjects as per the norms University).

MCA programme proposed to be offered in the 'ODL' Mode from the AY 2023-24 contains same 'Entry Level Qualifications' as per the programme offered in conventional mode.

- Curriculum
- Teaching Learning Scheme

For Vivekananda Global University, Jaipur

Registrar

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TEACHING SCHEME OF MCA IN CONVENTIONAL MODE

SEMESTER I

Course Code	Course Type	Course Name	Credit
MCA 101	PCC	Mathematical Foundation for Computer Application	4
MCA 102	PCC	Basic Programming	4
MCA 103	PCC	Data Structures and Algorithms	3
MCA 104	PCC	Object Oriented Programming using C++	3
MCA 105	PCC	Software Engineering	3
MCA 106	PCC	Introduction to Cloud Technology	3
MCA 107	PCC	Basic Programming Lab	2
MCA 108	PCC	Object Oriented Programming using C++ Lab	2
MCA 109	PCC	Software Engineering Lab	2
TOTAL			26

SEMESTER II

Course code	Course Type	Course Name	Credit
MCA 201	PCC	Java Programming	4
MCA 202	PCC	Design and Analysis of Algorithms	4

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MCA 203	PCC	Database Management System	3
MCA 204	PCC	Computer Networks	3
MCA*	PEC	Program Elective I	3
MCA*	PEC	Program Elective II	3
MCA 205	PCC	Java Programming Lab	2
MCA 206	PCC	Design and Analysis of Algorithms Lab	2
MCA 207	PCC	Database Management System Lab	2
TOTAL			26

Course Code	Program Elective I
MCACT 201	Cloud Architectural Patterns
MCACT 202	Cryptography
MCACT 203	PowerShell Scripting
MCACT 204	Ethical Hacking

Course Code	Program Elective II
MCACT 205	Information & Network Security
MCACT 206	Computer Graphics and Visualization
MCACT 207	Distributed Operating Systems
MCACT 208	Advance Computer Networks

SEMESTER III

Course Code	Course Type	Course Name	Credit
MCACT301	PCC	Storage and Data Center	4
MCACT302	PCC	Cloud Security	3
MCA*	PEC	Program Elective III	3
MCA*	PEC	Program Elective IV	3

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MCA*	PEC	Program Elective V	3
MCACT 303	PCC	Storage and Data Center Lab	2
MCACT 304	PCC	Cloud Security Lab	2
MCA 301	PSIT	Seminar	2
MCA 302	PSIT	Project Phase - I	4
		Total	26

Course Code	Program Elective III
MCACT 305	Principles of Virtualization
MCACT 306	Cloud Migration
MCACT 307	Linux Administration
MCACT 308	Security Architecture

Course Code	Program Elective IV
MCACT 309	Database Security
MCACT 310	Server Security
MCACT 311	IOT Security
MCACT 312	Web Security

Course Code	Program Elective V
MCACT 313	IT Governance & Risk Management
MCACT 314	Cyber Forensics
MCACT 315	Cyber Crime & IT Law
MCACT 316	Bio Informatics

SEMESTER-IV

S.No.	Course Code	Title	No. of Credits	No. of Units
1.	MCACT 401	Project Phase-II/Industry Internship	16	

The curriculum, syllabi and teaching-learning scheme of MCA programme in the 'ODL' Mode from the AY 2023-24 will remain same as above to the MCA offered in Conventional mode.

e. Pattern of Question Papers for Term End Examination in Conventional Mode

Q.1	Objective Type / Short Answers Type	10 X 1 mark = 10 Marks
Q.2 to Q.6	Descriptive type Questions	5 X 10 marks = 50 Marks

The same pattern will be followed by the CDOE for conducting Term End Examination in ODL Mode.

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f. Pass or Fail Criteria

The programmes offered by the University in conventional mode are based on Relative Grading Pattern. A detail is given below.

Statistical Method for Relative Grading

Lower Range of Marks	Grade Awarded, if marks falls in range		Upper Range of Marks
	UG	PG	
$\geq \text{Mean} + 1.5 \sigma$	O	O	---
$\geq \text{Mean} + 1.0 \sigma$	A+	A+	$< \text{Mean} + 1.5 \sigma$
$\geq \text{Mean} + 0.5 \sigma$	A	A	$< \text{Mean} + 1.0 \sigma$
$\geq \text{Mean}$	B+	B+	$< \text{Mean} + 0.5 \sigma$
$\geq \text{Mean} - 0.5 \sigma$	B	B	$< \text{Mean}$
$\geq \text{Mean} - 1.0 \sigma$	C	NC	$< \text{Mean} - 0.5 \sigma$
-	NC	-	$< \text{Mean} - 1.0 \sigma$
-	Ab (Absent)	Ab (Absent)	-
-	W (Withdrawal)	W (Withdrawal)	-
-	GA (Grade Awaited)	GA (Grade Awaited)	-
-	S (Satisfactory)	S (Satisfactory)	-
-	X (Not Satisfactory)	X (Not Satisfactory)	-

AWARD OF GRADES

The following are the general guidelines for the award of grades:

- All evaluations of different components of a course announced in the course plan shall be done in marks for each student.
- The marks of various components shall be added to get total marks secured on a 100-point scale for both theory courses and laboratory courses.
- The statistical method, wherever applicable, shall be used for the award of grades with or without marginal adjustment for natural cut-off. The overall distribution of different grades must be as indicated in the statistical distribution.
- No student having 40 % or more marks in UG programmes and 50% or more marks in PG programmes would be awarded grade 'NC'.

The same pattern will be followed by the University for offering programmes in 'ODL' Mode.

(Dr. Praveen Choudhry)
For Vivekananda Global University, Jaipur
Registrar
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