

INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
STUDENT REGISTRATION DIVISION

F. No. : IG/SRD/R-V/Notif/2020  
Dated 23rd December, 2020

NOTIFICATION

Subject: Revision of Master of Computer Applications (MCA) programme from January, 2021 Admission Cycle - Reg.

With the approval of the Competent Authority, it is hereby notified that the **Master of Computer Applications (MCA)** programme has been revised in terms of program structure, programme fee, eligibility, etc. The revised code for the program shall be **MCA\_NEW** and it will be on offer from January 2021 admission cycle.


The details of the Program Coordinator are as follows:

Name : Mr. Akshay Kumar  
Contact No. : 011-29572914  
Email : mca@ignou.ac.in

The revised programme details as received from **SOCIS** are enclosed / attached herewith for information.

**Distribution to:**

1. All Schools / Divisions
2. All Regional Centres
3. Director, RSD - for compilation / updating of the list of programmes / study centres
4. Director, SOCIS
5. Programme Co-ordinator, **MCA\_NEW**
6. DD, VCO
7. All sections of SRD/CSRC
8. Office copy

  
23.12.20.  
Registrar (SRD)  
कुलसचिव (वि.पं.प्र.) इग्नू  
Dr. Himansu Kumar Bose  
Registrar (SRD) IGNOU

## Master of Computer Applications (MCA\_NEW) (Revised)

### School of Computer & Information Sciences (SOCIS)

The broad objective of the MCA is to prepare graduate students for productive careers in software industry and academia by providing an environment for teaching and research in the core and emerging areas of the discipline. The programme's thrust is on giving the students a thorough and sound background in theoretical and application- oriented courses relevant to the latest computer software development.

#### Eligibility:

- (a) Passed BCA/B.Sc (Computer Science/IT)/ Bachelor Degree in Computer Science Engineering or Equivalent Degree
- (b) Obtained atleast 50% marks in the qualifying examination (45% marks in case of candidates belonging to reserved category)

**OR**

- (a) (i) Any Bachelor's degree of minimum 3 (three) year duration from a recognized University AND Mathematics as one of the subjects at 10+2 level or graduation level
- (ii) Obtained atleast 50% marks in the qualifying examination (45% marks in case of candidates belonging to reserved category).
- (b) Successfully completed **PGDCA of IGNOU**

**Medium of Instruction:** English

**Duration:** Minimum 2 years and Maximum 4 years; offered in both January & July cycle of admissions

**Fee Structure:** Rs. 48,000/- for full programme to be paid semester wise @Rs. 12000/- per semester.

#### Programme Details:

The programme has been divided into two semesters per year (January-June and July-December). Consequently, there will be two examinations every year – one in the month of June for the January to June Semester courses and the other is December for the July to December semester courses. The students are at liberty to appear any of the examinations conducted by the University during the year subject to completing the minimum time frame and other formalities prescribed for the programme.

Course Code	Title of the Course	Credits
<b>First Year</b>		
<b>I Semester</b>		
MCS 211	Design and Analysis of Algorithms	4
MCS 212	Discrete Mathematics	4
MCS 213	Software Engineering	4
MCS 214	Professional Skills and Ethics	2
MCS 215	Security and Cyber Laws	2
MCSL 216	DAA and Web Design Lab	2
MCSL 217	Software Engineering Lab	2
<b>II Semester</b>		
MCS 218	Data Communication and Computer Networks	4
MCS 219	Object Oriented Analysis and Design	4
MCS 220	Web Technologies	4
MCS 221	Data Warehousing and Data Mining	4
MCSL 222	OOAD and Web Technologies Lab	2
MCSL 223	Computer Network and Data Mining Lab	2
<b>Second Year</b>		
<b>III Semester</b>		
MCS 224	Artificial Intelligence and Machine Learning	4
MCS 225	Accountancy and Financial Management	4
MCS 226	Data Science and Big Data	4
MCS 227	Cloud Computing and IoT	4
MCSL 228	AI and Machine Learning Lab	2
MCSL 229	Cloud and Data Science Lab	2

<b>IV Semester</b>		
MCS 230	Digital Image Processing and Computer Vision	4
MCS 231	Mobile Computing	4
MCSP 232	Project	12
<b>Total Credits</b>		<b>80</b>

No. of Theory Courses -15, No. of Practical Courses -6, Project-1, Total Credits: 80

**Programme Coordinator: Mr. Akshay Kumar, [mca@ignou.ac.in](mailto:mca@ignou.ac.in)**



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F. No. : IG/SRD/R-V/Notif/2020  
Dated 23rd December, 2020

**NOTIFICATION**

**Subject: Revision of Post Graduate Diploma in Computer Applications (PGDCA) programme from January, 2021 Admission Cycle - Reg.**

With the approval of the Competent Authority, it is hereby notified that the **Post Graduate Diploma in Computer Applications (PGDCA) programme** has been revised in terms of program structure, eligibility, etc. **The revised code for the program shall be PGDCA\_NEW and it will be on offer from January 2021 admission cycle.**

The details of the Program Coordinator are as follows:

**Name** : Dr. Sudhansh Sharma


**Contact No.** : 011-29572910

**Email** : pgdca@ignou.ac.in

The revised programme details as received from **SOCIS** are enclosed / attached herewith for information.

**Distribution to:**

1. All Schools / Divisions
2. All Regional Centres
3. Director, RSD - for compilation / updating of the list of programmes / study centres
4. **Director, SOCIS**
5. **Programme Co-ordinator, PGDCA\_NEW**
6. DD, VCO
7. All sections of SRD/CSRC
8. Office copy

  
23.12.20  
**Registrar (SRD)**  
डॉ. हिमंशु कुमार बोस  
कुलसचिव (वि.पं.प्र.) इग्नू  
Dr. Himansu Kumar Bose  
Registrar (SRD) IGNOU

## School of Computer and Information Sciences (SOCIS)

### Post Graduate Diploma in Computer Applications (PGDCA\_NEW) (Revised)

**Objective:** The broad objective of the Post Graduate Diploma in Computer Applications (PGDCA\_NEW) programme is to prepare graduate students for productive careers in software industry. The programme's thrust is on giving the students a thorough and sound background in theoretical and application-oriented courses relevant to the latest computer software development. The programme emphasizes the application of software technology to solve mathematical, computing, communications/networking and commercial problems.

This PG Diploma is a stand-alone programme consists of 10 courses (No. of Theory Courses–6, No. of Practical Courses–4) worth 32 credits. It has been designed with a semester approach in mind. The courses are aimed at skill development in computers using various technologies. It prepares the student to aim for a programmer level/web developer in a software company to design and develop small business application software or lab personnel/technician in institutions or a freelancer to develop software projects.

**Eligibility:** Any Bachelor's degree of minimum 3 (three) year duration from a recognized University AND Mathematics as one of the subject at 10+2 level or Graduation level.

#### OR

Any Bachelor's degree of minimum 3 (three) year duration from a recognized University AND **doesn't have** Mathematics as one of the subject at 10+2 level or graduation level. These students are required to successfully complete BCS-012 (Graduate level Mathematics course) as Bridge Course.

**Note:** *It is essential to obtain atleast 50% marks in the qualifying examination (45% marks in case of candidates belonging to reserved category) for admission to MCA. Please refer to eligibility conditions for admission to MCA.*

**Medium of Instruction:** English

**Duration:** Minimum 1 year and Maximum 3 years; offered in both January & July cycle of admissions.

**Fee Structure:** Rs. 21,600/- for full Programme to be paid semester wise @Rs.10800/- per semester. Non-Maths students have to pay Rs.1400/- additional in the first semester.

**Programme Details:** The programme has been divided into two semesters per year (January-June and July-December). Consequently, there will be two examinations every year- one in the month of June for the January to June Semester courses and the other is December for the July to December semester courses. The students are at liberty to appear any of the examinations conducted by the University during the year subject to completing the minimum time frame and other formalities prescribed for the programme.

Course Code	Title of the course	Theory / Practical/Project	Credits
<b>Semester I</b>			
MCS-201	Programming in C and Python	Theory	4
MCS-202	Computer Organisation	Theory	4
MCS-203	Operating Systems	Theory	4
MCSL-204	WINDOWS and LINUX Lab	Practical	2
MCSL-205	C and Python Lab	Practical	2
<b>Semester II</b>			
MCS-206	Object Oriented Programming Using Java	Theory	4
MCS-207	Database Management Systems	Theory	4
MCS-208	Data Structures and Algorithms	Theory	4
MCSL-209	Data Structures and Algorithms Lab	Practical	2
MCSL-210	DBMS and Java Lab	Practical	2

**No. of Theory Courses – 6    No. of Practical Courses – 4    Total Credits: 32**

Programme Coordinator: Dr. Sudhansh Sharma, pgdca@ignou.ac.in, Ph. 011-29572910