

## Message for Master of Computer Applications (MCA\_NEW) January, 2021 and July, 2021 batch Students, Academic Counselors, Study Centers and Regional Centers

The printed copy of materials of the first and second semester will take time due to Covid-19 crisis. The assignment of courses of both the semesters are already available on the website.

### Semester 1:

Most of course material of first semester and the Programme guide has already been uploaded on the eGyankosh web site. You may please download the material for your studies as per the instructions given below:

1. Please download Programme guide from IGNOU SOCIS PROGRAMMES MCA NEW page. Please go through programme guide for all the details of the Programme.
2. First three blocks of MCS211 material are available on EGYANKOSH website from the link <http://egyankosh.ac.in/handle/123456789/72415> For the Block 4 of this course, you may refer to MCS- 31/block 4/ unit 3/ sections- 3.1 to 3.5, given at the link <http://egyankosh.ac.in/handle/123456789/10252>- until Block 4 is uploaded.
3. Three blocks of MCS212 material are available on EGYANKOSH website at link <http://egyankosh.ac.in/handle/123456789/72415> For Block 2 of this course, you may refer to MCS13/block 2/unit 1 from the link <http://egyankosh.ac.in/handle/123456789/9817> and CS-73/block 1/ unit 1 and unit 2 from the link <http://egyankosh.ac.in/handle/123456789/575> until Block 2 is uploaded.
4. MCS-0213 is slightly updated version of MCS-034. So, you can refer to MCS-034 instead of MCS0213 until MCS-0213 is uploaded. Please access MCS-034 from the link <http://www.egyankosh.ac.in/handle/123456789/930>
5. Complete material of MCS214 is available on EGYANKOSH website at link <http://egyankosh.ac.in/handle/123456789/72415>
6. Complete material of MCS215 material is available on EGYANKOSH website at link <http://egyankosh.ac.in/handle/123456789/72415>
7. Section 1 of MCSL216 is available on EGYANKOSH website at link <http://egyankosh.ac.in/handle/123456789/72415> For Section 2 on Web design Please use material of MCS- 16L from the link <http://egyankosh.ac.in/handle/123456789/955> until Section 2 is uploaded.
8. Please refer to Section-2 of MCSL-036 until MCSL-217 is uploaded. Please access MCSL-036 from <http://egyankosh.ac.in/handle/123456789/1428>
9. **For counselling sessions details, please contact the concerned Regional Center.**

### Semester 2:

The course material of second semester would be uploaded on the eGyankosh web site as it is available. However, you may please download the material for your studies as per the instructions given below:

1. **MCS 218: Data Communication and Computer Networks**  
Please refer to MCS-042 course material as MCS-218 is updated version of MCS-042 until MCS-218 is uploaded. Please access MCS-042 from the link: <https://www.egyankosh.ac.in/handle/123456789/1005>
2. **MCS 219: Object Oriented Analysis and Design**
  - a. The course material of MCS-219 will be uploaded on the eGyankosh website by 30<sup>th</sup> November 2021, in phases (Block-1 & Block-2 by 15<sup>th</sup> November, Block-3 by 25<sup>th</sup> November and Block-4 by 30<sup>th</sup> November).

- b. As MCA\_NEW Second Semester MCS-219 course is a revised version of the MCS-032 course of the MCA(Revised ) Programme of IGNOU. The course materials of the MCS-032 course can be read/refer along with videos available on different topics on OOAD and UML. The following message provides detailed instruction for your studies in respect of MCS-219:

**i. Link of MCS-032 Course Materials**

- Block-1( read/refer all the 3 units)  
<https://egyankosh.ac.in/handle/123456789/1345>
- Block-2( read/refer all the 3 units)  
<https://egyankosh.ac.in/handle/123456789/1350>
- Block-3( read/refer all the 3 units)  
<https://egyankosh.ac.in/handle/123456789/1354>
- Block-4( read/refer all the 3 units)  
<https://egyankosh.ac.in/handle/123456789/1358>

**ii. List of Video Lectures related to MCS-219 : Object Oriented Analysis and Design course**

- Introduction to Object Oriented Analysis & Design:  
<https://egyankosh.ac.in/handle/123456789/60746>
- Object Oriented Analysis: <http://egyankosh.ac.in/handle/123456789/70102>
- Object Oriented & Design Part-1:  
<https://egyankosh.ac.in/handle/123456789/70104>
- Introduction to UML: <https://egyankosh.ac.in/handle/123456789/36016>
- Working With Obejct Orientation and Relationships Using UML:  
<https://egyankosh.ac.in/handle/123456789/36029>
- Working with Sequence Diagrams:  
<https://egyankosh.ac.in/handle/123456789/36003>
- Working with State Diagrams:  
<https://egyankosh.ac.in/handle/123456789/36002>
- Working with Use Case Diagrams:  
<https://egyankosh.ac.in/handle/123456789/35999>

- iii. You, as a student of the MCS-219 course, are advised to take advantage of the above-mentioned information for your study and assignment problem-solving. **Also, the Counsellors of the MCS-219 course are requested to guide/advise the learners on the line of the information provided above.**

### 3. MCS 220: Web Technologies

- a. The complete course material of MCS-220 has been uploaded on eGyankosh at the link <https://egyankosh.ac.in/handle/123456789/78745> You may read/refer to this course material for your study.
- b. The MCA\_NEW Second Semester MCS-220 course is a major revised version of the MCS-051 course of the MCA(Revised ) Programme of IGNOU. The course materials of MCS-051 is also can be referred by you along with videos available for different topics on Advanced Java Programming. The following message provides detailed information for additional contents for your studies in respect of MCS-220:
- i. Link of MCS-051 Course Materials (This material you may use for additional reference content of MCS-220 course)  
<https://egyankosh.ac.in/handle/123456789/1065>
- ii. List of Video Lectures for MCS-220: Web Technologies
- Servlet Basics: <https://egyankosh.ac.in/handle/123456789/36134>

- Session Tracking in Servlet Programming:  
<https://egyankosh.ac.in/handle/123456789/36129>
  - JDBC Programming 1: <https://egyankosh.ac.in/handle/123456789/36040>
  - JDBC Programming 2: <https://egyankosh.ac.in/handle/123456789/36037>
- iii. You, as a student of the MCS-220 course, are advised to take advantage of the above-mentioned information for your study and assignment problem-solving. **Also, the Counsellors of the MCS-220 course are requested to guide/advise the learners on the line of the information provided above.**

#### **4. MCS 221: Data Warehousing and Data Mining**

This is a new course and material is expected to be made available by the end of October, 2021.

#### **5. MCSL-222: OOAD and Web Technologies Lab**

Please do the practical questions closer to the questions given in the assignments. The material will be loaded by 15<sup>th</sup> November, 2021.

#### **6. MCSL-223: Computer Networks and Data Mining Lab**

Please do the practical questions closer to the questions given in the assignments. The material will be loaded by 15<sup>th</sup> November, 2021. The following questions should be done during the practical sessions on Computer Networks:

Main Reference Material: Online Tutorial on Network Simulator (NS-2 or any other Simulator): The main objectives of the course are to learn and perform the following practical tasks:

- Setup wired and wireless links, half duplex and full duplex links
- Assign bandwidth to wired and wireless links
- Apply different kinds of network traffic types: constant bit rate (CBR), available bit rate (ABR), variable bit rate (VBR)
- Use standard protocols such as TCP, UDP, HTTP, DHCP and other protocols existing in the library of the simulator for writing own applications.
- Simulate own routing protocols for different kinds of wired and wireless networks
- Modify existing protocols (for example routing protocols)
- Plot graphs to show the performance of the simulated protocols such as throughput Vs load

Data Mining lab content is expected to be available by the first week of November, 2021.

For any further queries related to MCA\_NEW, please mail to [mca@ignou.ac.in](mailto:mca@ignou.ac.in)

(MCA Programme Coordinator)  
SOCIS)

(Director,