———— Editorial Board —————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
— Content Writer — —
Dr. Shah Imran Alam

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit - 1 Algebra Of Matrices	3
Unit - 2 Introduction To Differential Calculus.	
Unit - 3 Successive And Partial Differentiation	
Unit - 4 Differential Calculus For Curvatures	143
Unit - 5 Coordinate Geometry	174







# COMMUNICATION SKILLS

**BCA 104** 

SEMESTER I
BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 2** 





Centre for Distance and Online Education

### Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

———— Editorial Board —————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad Nationa
Urdu University, Hyderabad
————— Content Writer —————
Dr. Uzma Akhtar Khan
——————————————————————————————————————
Dr. Abdul Majid Faroogi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education
©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit - 1 Grammar, Dictionary, And Thesaurus Structure	3
Unit - 2 Language, Phonetics, And Writing	54
Unit - 3 Effectiveness And Efficiency In Communication.	
Unit - 4 Presentation Skills	141
Unit - 5 Drafting The Documents	166







### MEDIA INFORMATION LITERACY AND COMMUNICATION

**BCA 105** 

SEMESTER I **BACHELOR OF COMPUTER APPLICATIONS** (BCA)

**COURSE CREDIT - 2** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY) ACCREDITED BY NAAC WITH A+

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Naseem Rao
Programme Coordinator ————

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Registrar

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit 1: Media Education And Literacy	3
Unit 2: Information Literacy	
Unit 3: Leveraging The Power Of Computing	
Unit 4: Digital Media Content.	
Unit 5: Digital Divides	







## INTRODUCTION TO DATA STRUCTURE

**BCA 201** 

SEMESTER II

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

**Editorial Board** Chairman: (Dean) Prof. (Dr.) Farheen Siddiqui Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Members: Prof. (Dr.) Parul Agarwal Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Prof. (Dr.) Mansaf Alam Department of Computer Science, Jamia Millia Islamia, New Delhi Dr. Pradeep Kumar Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad **Content Writer** Dr. Shah Imran Alam **Programme Coordinator** Dr. Abdul Majid Faroogi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Registrar

Centre for Distance and Online Education
Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit - 1 Data Representation.	3
Unit - 2 Arrays, Structures, and Lists	26
Unit - 3 Stack and its Operations	
Unit - 4 Queues.	
Unit - 5 Tree, Graph, Searching and Sorting.	







## DATA COMMUNICATION AND COMPUTER NETWORKS BASICS

**BCA 202** 

SEMESTER II

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 





Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
— Content Writer —
Dr. Md Tabrez Nafis
Programme Coordinator
Dr. Abdul Majid Farooqi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

1 Lawol

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education
Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit - 1 Introduction to Computer Networks	3
Unit - 2 Introduction to Data Communication	.39
Unit – 3 Arrays and Functions	.67
Unit – 4 Data Link Layer and Multiple Access Protocols	
Unit – 5 Transport and Application Layer Functions and Protocols	186







### **FUNDAMENTAL CONCEPTS** OF OPERATING SYSTEMS

**BCA 203** 

SEMESTER II BACHELOR OF COMPUTER APPLICATIONS (BCA)

COURSE CREDIT - 4

Centre for Distance and Online Educat amia Hamdard

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Abdul Majid Farooqi
Duogramma Coordinator
Programme Coordinator

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar Registrar



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Manor futivo fu

Registrar Centre for Distance and Online Education
© Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Deemed

Unit - 1 Introduction to Operating Systems	3
Unit - 2 Process Management	23
Unit - 3 Deadlocks and Synchronization	
Unit - 4 Memory Management.	
Unit - 5 Storage Management	







### **ELEMENTARY PHYSICS**

**BCA 204** 

SEMESTER II

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Naseem Rao
Programme Coordinator

Dr. Abdul Majid Farooqi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

© Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit - 1 Mechanics	3
Unit - 2 Electromagnetism.	
Unit - 3 Laser	
Unit - 4 Fiber Optics	
Unit - 5 Elementary Ideas of Semiconductors.	219



Man Just for



# ENVIRONMENTAL SCIENCES

**BCA ES** 

SEMESTER II

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 0** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)

ACCREDITED BY NAAC WITH A+

2 -77

	Editorial Board
Chairman: (Dean)	
Prof. (Dr.) Farheen Si	ddiqui
Dean, Department of	Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:	
Prof. (Dr.) Parul Agai	wal
Head, Department of	Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Al	am
Department of Comp	uter Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar	
Head, Department of	Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyd	-
	Content Writer
	Dr. Bhavya Alankar
	Dr. Siddhartha S Biswas
	—— Programme Coordinator ————

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

Glamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

Unit – 1 The Multidisciplinary Nature of Environmental Studies	3
Unit - 2 Ecosystems	87
Unit – 3 Environment and its Social Issues.	147
Unit – 4 Biodiversity	
Unit – 5 Environment's Ecology and Diversity	







## INTRODUCTION TO OBJECT ORIENTED PROGRAMMING

**BCA 301** 

SEMESTER III
BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Phonos Ju

279

Registra



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

Unit - 1 Principles Of Object Oriented Programming	4
Unit - 2 Characteristics Of Oop Languages	
Unit -3 Introduction To C++	
Unit - 4 Functions In C++	127
Unit -5 Inheritance	







## INTRODUCTION TO DATABASE MANAGEMENT SYSTEM

**BCA 302** 

SEMESTER III
BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

Registra(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

———— Editorial Board —————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Mohd Abdul Ahad
——————————————————————————————————————

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

**Centre for Distance and Online Education** CJamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

Unit - 1: Introduction & Database System Architecture	4
Unit - 2: E-R Modeling	
Unit - 3: Relational Data Model	65
Unit - 4: Transaction Processing Concepts	
Unit - 5: Data Normalization	

Mys





# DISCRETE STRUCTURES

**BCA 303** 

SEMESTER III
BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Content Witter
Dr. Amit Bhooshan Singh
Programme Coordinator —————
Dr. Abdul Majid Faroogi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

Mano Jutivia



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

**Centre for Distance and Online Education** 

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

289

UNIT – 1 Introduction to Prepositional Calculus.	4
UNIT – 2 Sets and Related Operations.	59
UNIT – 4 Functions and Its Properties.	158
UNIT – 5 Introduction to Recurrence Relation.	







# INTRODUCTION TO WIRELESS COMMUNICATION

**BCA PE311** 

SEMESTER III
BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

# Chairman: (Dean) Prof. (Dr.) Farheen Siddiqui Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Members: Prof. (Dr.) Parul Agarwal Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Prof. (Dr.) Mansaf Alam Department of Computer Science, Jamia Millia Islamia, New Delhi Dr. Pradeep Kumar Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad Content Writer Programme Coordinator

+

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

291

Mys

Registrar ver

Manor Jutivife



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

OJamia Hamdard, Hamdard Nagar, New Delhi - 110062

Unit –1 Introduction To Basic Principles.	4
Unit – 2 Cellular Concept	
Unit – 3 Mobile Radio Propagation	
Unit – 4 Second Generation And Third Generation Wireless Networks And Standards	
Unit – 5 Introducing The Mobile Internet.	174







# FUNDAMENTALS OF PROBABILITY AND STATISTICS

**BCA 401** 

SEMESTER IV

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

COSEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

79W

**Editorial Board** Chairman: (Dean) Prof. (Dr.) Farheen Siddiqui Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Members: Prof. (Dr.) Parul Agarwal Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Prof. (Dr.) Mansaf Alam Department of Computer Science, Jamia Millia Islamia, New Delhi Dr. Pradeep Kumar Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad **Content Writer** Dr. Shah Imran Alam Dr. Amit Bhooshan **Programme Coordinator** 

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education
©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education
Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar Registrar

Manor Turking

295



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

UNIT - 1 Overview Of Probability	4
UNIT – 2 Probability Distribution.	12
UNIT - 3 Measures Of Central Tendency	26
UNIT - 4 Measures Of Variation	
UNIT - 5 Correlation And Regression Analysis	







# INTRODUCTION TO ARTIFICIAL INTELLIGENCE

**BCA 402** 

SEMESTER IV

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)

ACCREDITED BY NAAC WITH A+

700

Editorial Board ————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer —
Content Writer
Dr. Siddhartha S Biswas
—————— Programme Coordinator ——————
Dr. Abdul Majid Farooqi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

299

Registrar \*\*

Milonoo tutsife



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

Unit - 1: Overview of Artificial Intelligence	
Unit - 2: Problem Solving.	
Unit - 3: Game Playing and Knowledge	84
Unit 4: Knowledge Representation and Reasoning.	
Unit - 5: Learning	







# INTERNET AND WEB **TECHNOLOGY**

**BCA SEE411** 

SEMESTER IV BACHELOR OF COMPUTER APPLICATIONS (BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education amia Hamdard

ED BY NAAC WITH A+

———— Editorial Board —————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer —
Dr. Shah Imran Alam
Programme Coordinator ————————————————————————————————————
Dr. Abdul Majid Faroogi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Handard, Hamdard Nagar, New Delhi 110062

303



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

© Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

ew Delhi



UNIT – 1 Introduction to internet and www.	
UNIT - 2 Internet applications.	
UNIT - 3 Formatting Web Pages.	
Unit - 4 JavaScript	
UNIT - 5 E-Commerce and emerging trends	



M



# ORGANIZATIONAL BEHAVIOR

BCA OE411

SEMESTER IV

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)

ACCREDITED BY NAAC WITH A+

# Chairman: (Dean) Prof. (Dr.) Farheen Siddiqui Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Members: Prof. (Dr.) Parul Agarwal Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi Prof. (Dr.) Mansaf Alam Department of Computer Science, Jamia Millia Islamia, New Delhi Dr. Pradeep Kumar Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad Content Writer Programme Coordinator

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Faroogi

Published by:

Centre for Distance and Online Education
©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

307

Registrar &

Milonor Jutilita

Mandard, New Odill



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi 110062

ew Delh

308

UNIT - 1 Overview of Organization Behavior	
UNIT - 2 Learning	32
UNIT - 3 Effects of Employee Attitudes	
UNIT - 4 Personality and Stress.	
UNIT - 5 Conflict in Organization	







# **FUNDAMENTALS OF** SOFTWARE ENGINEERING

**BCA 501** 

SEMESTER V BACHELOR OF COMPUTER APPLICATIONS (BCA)

COURSE CREDIT - 4

Centre for Distance and Online Education amia Hamdard

ACCREDITED BY NAAC WITH A+

———— Editorial Board —————
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Mohd Abdul Ahad
Programme Coordinator

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education
Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

311



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar New Delhi

Unit – 1 Software and software engineering.	3
Unit - 2 Software requirement analysis	
Unit - 3 Software development management	
Unit – 4 Design engineering.	
Unit – 5 Software testing strategies and tactics.	







# DIGITAL MARKETING AND E-COMMERCE

**BCA 0E513** 

SEMESTER V **BACHELOR OF COMPUTER APPLICATIONS** (BCA)

**COURSE CREDIT - 4** 

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)

TED BY NAAC WITH A+

Editorial Board
Chairman: (Dean)
Prof. (Dr.) Farheen Siddiqui
Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Members:
Prof. (Dr.) Parul Agarwal
Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi
Prof. (Dr.) Mansaf Alam
Department of Computer Science, Jamia Millia Islamia, New Delhi
Dr. Pradeep Kumar
Head, Department of Computer Science and Information Technology, Maulana Azad National
Urdu University, Hyderabad
Content Writer
Dr. Siddhartha S Biswas
————— Programme Coordinator —————

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Dr. Abdul Majid Farooqi

Published by:

Centre for Distance and Online Education
©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar Registrar



Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

Registrar Nie

Centre for Distance and Online Education

Comparison

Monortio

Unit – 1 History, Nature And Impact Of E-Commerce	3
Unit – 2 E-Commerce Essentials.	
Unit- 3 Marketing Management.	77
Unit- 4 Business Structures And The Business Plan In E-Commerce	
Unit- 5 Marketing Entrepreneurship	154







# INTRODUCTION TO DATA SCIENCE AND BIG DATA

**BCA PE523** 

SEMESTER V

BACHELOR OF COMPUTER APPLICATIONS
(BCA)

**COURSE CREDIT - 4** 



Manus John (

Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Chairman: (Dean)

Prof. (Dr.) Farheen Siddiqui

Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi

Members:

Prof. (Dr.) Parul Agarwal

Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi

Prof. (Dr.) Mansaf Alam

Department of Computer Science, Jamia Millia Islamia, New Delhi

Dr. Pradeep Kumar

Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad

**Content Writer** 

Dr. Shah Imran Alam

**Programme Coordinator** 

Dr. Abdul Majid Farooqi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar )

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062



# Note

Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in





Centre for Distance and Online Education
©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

### CONTENT

UNIT – 1 Understanding Big Data	4
UNIT - 2 Nosql Data Management	
UNIT – 3 Basics Of Hadoop	
UNIT - 4 Map Reduce Applications	
UNIT - 5 Hadoop Related Tools	
UNII - 5 Hadoop Related Tools	







# INTRODUCTION TO JAVA PROGRAMMING

**BCA SEE521** 

SEMESTER V

BACHELOR OF COMPUTER APPLICATIONS (BCA)

**COURSE CREDIT - 4** 







Centre for Distance and Online Education

Jamia Hamdard

(DEEMED TO BE UNIVERSITY)
ACCREDITED BY NAAC WITH A+

Editorial Board

Chairman: (Dean)

Prof. (Dr.) Farheen Siddiqui

Dean, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi

Members:

Prof. (Dr.) Parul Agarwal

Head, Department of Computer Science and Engineering, Jamia Hamdard, New Delhi

Prof. (Dr.) Mansaf Alam

Department of Computer Science, Jamia Millia Islamia, New Delhi

Dr. Pradeep Kumar

Head, Department of Computer Science and Information Technology, Maulana Azad National Urdu University, Hyderabad

**Content Writer** 

Prof. (Dr.) Farheen Siddiqui

**Programme Coordinator** 

Dr. Abdul Majid Farooqi

Centre for Distance and Online Education Email: sodl@jamiahamdard.ac.in

Published by:

Centre for Distance and Online Education ©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Printed by:

Centre for Distance and Online Education

Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar Registrar

Mano Justife



# Note

Corrections / Modifications / Suggestions proposed by Statutory Body, Jamia Hamdard / Stakeholders / in the Self Learning Material (SLM) will be incorporated in the next edition. However, these corrections / modifications / suggestions will be uploaded on the website https://www.jamiahamdard.ac.in/CDOE/CDOE.htm

Any feedback or suggestions can be sent to the email director\_sodl@jamiahamdard.ac.in

**Centre for Distance and Online Education** 

©Jamia Hamdard, Hamdard Nagar, New Delhi - 110062

Registrar

### CONTENT

UNIT - 1 Introduction to Java Programming	4
UNIT – 2 Arrays, Strings and I/O.	
UNIT - 3 Object-Oriented Programming Overview	112
UNIT – 4 Exception Handling, Threading, Networking and Database Connectivity	
UNIT – 5 Applets and event handling.	213









# Jamia-BCA-SEM-I-Media and Information Literacy Communication (1).docx



BCA - Sem1



Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192639797

**Submission Date** 

Mar 24, 2025, 12:01 PM GMT+5:30

Download Date

Mar 24, 2025, 12:14 PM GMT+5:30

Jamia-BCA-SEM-I-Media\_and\_Information\_Literacy\_Communication\_1\_.docx

File Size

299.7 KB

196 Pages

73,738 Words

410,135 Characters



Phones Justice bmission ID trn:oid:::1:3192639797

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

### **Match Groups**

S3 Not Cited or Quoted 10%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

O Missing Citation 0% Matches that have quotation marks, but no in-text citation

Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% 💮 Internet sources

5% MI Publications

6% \_\_ Submitted works (Student Papers)

### **Integrity Flags**

चि turnitin

**O Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

My

Page 2 of 199 - Integrity Overview



Page 3 of 199 - Integrity Overview

Submission ID trn:oid:::1:3192639797

### **Match Groups**

53 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks

0 Missing Quotations 0% Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

0 Cited and Quoted 0% Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

5% Publications

Submitted works (Student Papers)

Top Sources	
The sources with the highest number of matches within the submission. Overlapping sources will not	be displa
Publication	
Ane Landøy, Daniela Popa, Angela Repanovici. "Collaboration in Designing a Peda	2%
2 Student papers	
Swansea College	1%
3 Student papers	
DeVry University	1%
4 Publication	
Marcus Leaning. "Digital Divides", Elsevier BV, 2017	1%
Student papers	
Manipal University	<1%
6 Student papers	
University of South Africa	<1%
7 Publication	
Stephen Thornton. "Pedagogy, Politics and Information Literacy", Politics, 2007	<1%

**Publication** 

Marcus Leaning. "An Approach to Digital Literacy through the Integration of Med...

<1%

**Student papers** 

Seminole County Public Schools <1%

**Student papers** 

**Curtin International College** 

turnitin آح

Page 3 of 199 - Integrity Overview



# Jamia-BCA-SEM-I-Mathematical Foundation of Computer Science.docx



BCA - Sem1



🛂 Jamia



### **Document Details**

Submission ID

trn:oid:::1:3192635948

**Submission Date** 

Mar 24, 2025, 12:03 PM GMT+5:30

Download Date

Mar 24, 2025, 12:27 PM GMT+5:30

File Name

Jamia-BCA-SEM-I-Mathematical\_Foundation\_of\_Computer\_Science.docx

File Size

6.5 MB

183 Pages

17,105 Words

81,676 Characters

turnitin

Page 1 of 186 - Cover Page



ission ID trn:old::;1:3192635948

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

### **Match Groups**

14 Not Cited or Quoted 4%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

0 Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources
0% Publications

4% \_\_\_ Submitted works (Student Papers)

### **Integrity Flags**

**0** Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 186 - Integrity Overview

Registrar Registrar

14 Not Cited or Quoted 4%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% MI Publications

% 🙎 Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

2 Student papers

2 Student papers

Ivy Tech Community College Central Office

1%

1%

3 Student papers

University of Birmingham <1%

Student papers

Institute of Research & Postgraduate Studies, Universiti Kuala Lumpur

<1%

चि turnitin

Page 3 of 186 - Integrity Overview

Registrar Registrar

# Jamia-BCA-SEM-I-Introduction To C Programming.docx

BCA - Sem1

Jamia

Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192634007

**Submission Date** 

Mar 24, 2025, 12:05 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 12:24 PM GMT+5:30

File Name

Jamia-BCA-SEM-I-Introduction\_To\_C\_Programming.docx

File Size

838.2 KB

146 Pages

29,636 Words

155,214 Characters

च turnitin

Page 1 of 149 - Cover Page

Registrar Registrar

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

#### **Exclusions**

2 Excluded Sources

### **Match Groups**

25 Not Cited or Quoted 6% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

• 0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

1% Dublications

4% \_\_\_\_ Submitted works (Student Papers)

### **Integrity Flags**

0 Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag Is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

包 turnitin

Page 2 of 149 - Integrity Overview Declary Registrar

25 Not Cited or Quoted 6% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

4% Internet sources

1% M Publications

4% \_\_ Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

	Internet	
becbapatla	.ac.in	2%
2	Internet	
www.scribo	i.com	<19
3	Internet	
www.cs.cor	nell.edu	<1%
4 St	tudent papers	
University o	of KwaZulu-Natal	<1%
5 St	tudent papers	
City Univer	sity College of Science and Technology	<1%
6 St	tudent papers	
Iniversity o	of Wales Swansea	<1%

包 turnitin

Page 3 of 149 - Integrity Overview Regis

Registrar Registrar

# Jamia-BCA-SEM-I-Computer System Architecture.docx

BCA - Sem1

🛂 Jamia

Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192641688

**Submission Date** 

Mar 24, 2025, 12:04 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 12:36 PM GMT+5:30

File Name

Jamia-BCA-SEM-I-Computer\_System\_Architecture.docx

File Size

2.4 MB

158 Pages

38,554 Words

188,023 Characters

turnitin آح

Page 1 of 161 - Cover Page

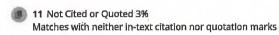
Registrar Registrar

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text

### **Match Groups**



Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with In-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

3% M Publications

0% Submitted works (Student Papers)

### **Integrity Flags**

0 Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

**日turnitin** 

Page 2 of 161 - Integrity Overview

mys

Registrar Rew Delhi \*



336

11 Not Cited or Quoted 3%
 Matches with neither in-text citation nor quotation marks

Mlssing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

3% MI Publications

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1 Publication

PETERSON, JAMES L.. "INPUT/OUTPUT PROGRAMMING", Computer Organization a...

2%

2 Publication

A.K. Gupta, S.K. Arora, Jean Riescher Westcott. "10. FLUIDICS", Walter de Gruyter ...

<1%

3 Publication

Subal Kar. "Wireless Technology - Kilohertz to Megahertz", CRC Press, 2024

<1%

turnitin



# Jamia-BCA-SEM-I-Communication Skills.docx





Jamia

### **Document Details**

**Submission ID** 

trn:oid:::1:3192638040

**Submission Date** 

Mar 24, 2025, 12:03 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 12:33 PM GMT+5:30

File Name

Jamia-BCA-SEM-I-Communication\_Skills.docx

File Size

2.6 MB

204 Pages

56,690 Words

292,666 Characters

च turnitin

Page 1 of 207 - Cover Page

Deemed New Delhi

Submission ID trn;old:::1:3192638040

338

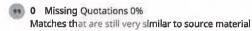
The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

### **Match Groups**

Matches with neither in-text citation nor quotation marks



0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

0% M Publications

10% 💄 Submitted works (Student Papers)

### **Integrity Flags**

**0** Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

र्चि turnitin

Page 2 of 207 - Integrity Overview

Registrar \*\*

46 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

• 0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

0% 🖺 Publications

10% 🙎 Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1 Student papers	
Far Eastern University	2%
2 Student papers	
Liberty University	1%
3 Student papers	
University of Huddersfield	1%
4 Student papers	
Campbellsville University	1%
5 Student papers	
University of Stirling	1%
6 Student papers	
University of Mindanao	<1%
7 Student papers	
Namibian College of Open Learning	<1%
8 Student papers	
TI Education Group	<1%
9 Student papers	
University of Wales Institute, Cardiff	<1%
10 Student papers	
he Maldives National University	<1%

Manor Julion for

च turnitin

Page 3 of 207 - Integrity Overview

myo



# JAMIA-BCA-SEM-1-\_Computer\_System\_Architecture\_LAB



BCA - Sem1



Jamia



Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192677395

**Submission Date** 

Mar 24, 2025, 1:18 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 1:21 PM GMT+5:30

File Name

 ${\tt JAMIA-BCA-SEM-1-\_Computer\_System\_Architecture\_LAB.docx}$ 

File Size

530.7 KB

127 Pages

16,537 Words

85,712 Characters

turnitin

Page 1 of 130 - Cover Page

d Deeme

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text

### **Match Groups**

Not Cited or Quoted 1%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

3% Internet sources

1% M Publications

0% Submitted works (Student Papers)

### **Integrity Flags**

**O Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

**句 turnitin** 

Page 2 of 130 - Integrity Overview

Registrar

Submission ID trh:oid:::1:3192677395

The Lower to

15 Not Cited or Quoted 1%
 Matches with neither In-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with In-text citation present, but no quotation marks

### **Top Sources**

3% (f) Internet sources

1% M Publications

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1

Internet

api.ning.com

<1%

2

Internet

sist:sathyabama.ac.in

<1%

turnitin

Page 3 of 130 - Integrity Overview

- Integrity Overview





343

# JAMIA-BCA-SEM-1\_C\_Programming\_Lab



🛂 Jamia

Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192700571

**Submission Date** 

Mar 24, 2025, 1:18 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 1:22 PM GMT+5:30

File Name

JAMIA-BCA-SEM-1\_C\_Programming\_Lab.docx

File Slze

183.2 KB

104 Pages

13,270 Words

66,366 Characters

ची turnitin

Page 1 of 107 - Cover Page

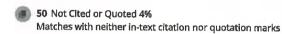
Registrar \*\* New Delhi \*\*

The combined total of all matches, including overlapping sources, for each database,

### Filtered from the Report

- Bibliography
- Quoted Text

### **Match Groups**



Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

0 Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

11% 🛍 Publications

4% Submitted works (Student Papers)

### **Integrity Flags**

1 Integrity Flag for Review

Replaced Characters
43 suspect characters on 10 pages
Letters are swapped with similar characters from another alphabet.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 107 - Integrity Overview

Registrar New Delhi \* 3 45

Submission ID trn:oid:::1:3192700571

My Long Tuth

- 50 Not Cited or Quoted 4% Matches with neither in-text citation nor quotation marks
- Missing Quotations 0%
   Matches that are still very similar to source material
- Missing Citation 0%
   Matches that have quotation marks, but no in-text citation
- O Cited and Quoted 0%

  Matches with in-text citation present, but no quotation marks

### **Top Sources**

11% M Publications

4% \_\_\_ Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1 ( Internet	
blog.jyotiprakash.org	1%
2 Internet	
repo.palkeo.com	1%
3 Student papers	
Teamlease Skill University	<1%
4 Internet	
pastebin.com	<1%
5 Internet	
www.rktechnology.org	<1%

चि turnitin

Page 3 of 107 - Integrity Overview

Registrar \*\*

# Jamia-BCA-SEM-II-Introduction to Data Structures.docx







### **Document Details**

Submission ID

trn:oid:::1:3192638355

**Submission Date** 

Mar 24, 2025, 12:09 PM GMT+5:30

Download Date

Mar 24, 2025, 12:42 PM GMT+5:30

File Name.

Jámia-BCA-SEM-II-Introduction\_to\_Data\_Structures.docx

File Size

3.3 MB

195 Pages

36,289 Words

168,437 Characters



Page 1 of 198 - Cover Page



The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Clted Text

### **Match Groups**

Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

1% M Publications

7% \_\_\_ Submitted works (Student Papers) \*

### **Integrity Flags**

**0** Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin آج

Page 2 of 198 - Integrity Overview

Registrar Vew Dolly

Sybmission ID trinipid:::1:3192638355

- 45 Not Cited or Quoted 8% Matches with nelther In-text citation nor quotation marks
- Missing Quotations 0%
   Matches that are still very similar to source material
- 0 Missing Citation 0% Matches that have quotation marks, but no in-text citation
- O Cited and Quoted 0%

  Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

1% Publications

7% La Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Student papers

Guru Jambheshwar University of Science & Technology

3%

2 Student papers

Jain University

2%

3 Student papers

Johns Hopkins Unversity

1%

Publication

Ahmad Talha Siddiqui, Shoeb Ahad Siddiqui. "Data Structure Using C - Theory and...

<1%

5 Student papers

**Higher Education Commission Pakistan** 

<1%

र्चि turnitin

Page 3 of 198 - Integrity Overview Registrar

VAL.

**打turnitin** 

Page 1 of 181 - Cover Page

# Jamia 1

# Jamia-BCA-SEM-II-Fundamental Concepts of Operating Systems.docx







### **Document Details**

**Submission ID** 

trn:oid:::1:3192699118

**Submission Date** 

Mar 24, 2025, 1:26 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 1:56 PM GMT+5:30

File Name

 ${\bf Jamia\text{-}BCA\text{-}SEM\text{-}II\text{-}Fundamental\_Concepts\_of\_Operating\_Systems.docx}$ 

File Size

4.7 MB

177 Pages

49,233 Words

246,607 Characters



The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

### **Match Groups**

Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no In-text citation

0 Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

1% Publications

10% 💄 Submitted works (Student Papers)

### **Integrity Flags**

**O Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

**日turnitin** 

Page 2 of 181 - Integrity Overview

- 62 Not Cited or Quoted 9% Matches with neither in-text citation nor quotation marks
- 0 Missing Quotations 0% Matches that are still very similar to source material
- 0 Missing Citation 0% Matches that have quotation marks, but no in-text citation
- 0 Cited and Quoted 0% Matches with in-text citation present, but no quotation marks

### **Top Sources**

Internet sources

Publications

Submitted works (Student Papers)

### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Emirate	s Aviation College, Aerospace & Academic Studies
2	Student papers

Manipal	University	Jaipur	Online

<1%

<1%

3	Student papers
Griffith	College Dublin

<1%

4	Student papers

<1%

**University of Sussex** 

Student papers

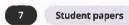
<1%

Salalah College of Technology

Student papers

University of Central England in Birmingham

<1%



**Africa International University** 

<1%

Student papers

Victoria University

<1%

**Student papers** 

<1%

iGlobal University

Publication

M. Raghunadh Acharya ., Ashok Sahai ., Ravi Gedela ., Srinivas Mukundam .. "Dyn...

turnitin

Page 3 of 181 - Integrity Overview

Registrar New Delhi

# Jamia-BCA-SEM-II-Environmental Sciencs.docx

BCA - Sem 2

🛂 Jamia

Jamia

### **Document Details**

Submission ID

trn:oid:::1:3192699214

**Submission Date** 

Mar 24, 2025, 1:28 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 2:03 PM GMT+5:30

File Name

Jamia-BCA-SEM-II-Environmental\_Sciencs.docx

File Slze

4.6 MB

230 Pages

76,050 Words

412,044 Characters

री turnitin

Page 1 of 233 - Cover Page

Registrar Registrar New 0353

The combined total of all matches, including overlapping sources, for each database.

### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

### **Match Groups**

101Not Cited or Quoted 8%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

0 Cited and Quoted 0%
 Matches with In-text citation present, but no quotation marks

### **Top Sources**

0% Internet sources

2% M Publications

8% Submitted works (Student Papers)

### **Integrity Flags**

**O Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

**日turnitin** 

Page 2 of 233 - Integrity Overview

Registrar Parish

101Not Cited or Quoted 8% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

#### **Top Sources**

2% Publications

8% \_\_ Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

The sources with the highest humber of matches within the submission. Overlapping sources will not	ne dispia
Student papers	
Higher Education Commission Pakistan	2%
2 Student papers	
Jawaharlal Nehru University (JNU)	2%
3 Publication	
M. R. Anand, Poojitha Kommireddy, C. Seenappa, Murthy K. N. Kalyana, G. K. Ning	1%
4 Student papers	
PEC University of Technology	<1%
Student papers	
Trevecca Nazarene University	<1%
6 Student papers	
EDMC	<1%

Student papers
University of Keele

Student papers

**Emirates College for Management and IT** 

<1%

<1%



Page 3 of 233 - Integrity Overview



# Jamia-BCA-SEM-II-Elementry Physics.docx





Jamia

#### **Document Details**

Submission ID

trn:oid:::1:3192706510

Submission Date

Mar 24, 2025, 1:27 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 1:59 PM GMT+5:30

**File Name** 

Jamia-BCA-SEM-II-Elementry\_Physics.docx

File Size

4.3 MB

220 Pages

57,553 Words

298,556 Characters

The Lower Just

turnitin Page 1 of 224 - Cover Page

Submission ID trn:oid:::1:3192706510

356

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

#### **Match Groups**

57 Not Cited or Quoted 9% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% M Publications

9% . Submitted works (Student Papers)

#### **Integrity Flags**

2 Integrity Flags for Review

Replaced Characters
161 suspect characters on 32 pages
Letters are swapped with similar characters from another alphabet.

Hidden Text
90 suspect characters on 2 pages
Text is altered to blend into the white background of the document.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag Is not necessarily an Indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 224 - Integrity Overview

Registrar \* New Delmix 35

Submission ID traceid::1:3192706510

57 Not Cited or Quoted 9% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

**= 0** Missing Citation 0%

Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% Internet sources

0% M Publications

9% L Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Student papers	
American University of the Middle East	<1%
2 Student papers	
Sim University	<1%
3 Student papers	
Jniversity of Wales, Bangor	<1%
4 Student papers	
Swindon College, Wiltshire	<1%
5 Student papers	
Western Technical College	<1%
6 Student papers	
Anadolu University	<1%
7 Student papers	
ndiana University	<1%
8 Student papers	
he Manchester College	<1%
9 Student papers	
lgee Ann Polytechnic	<1%

च turnitin

**Northampton College** 

Student papers

Page 3 of 224 - Integrity Overview Registrar

Mario Justinia

## Jamia-BCA-SEM-II-Data Communication and Computer **Networks Basics.docx**



BCA - Sem1





#### **Document Details**

Submission ID

trn:oid:::1:3192640186

**Submission Date** 

Mar 24, 2025, 12:10 PM GMT+5:30

Download Date

Mar 24, 2025, 1:05 PM GMT+5:30

File Name

Jamia-BCA-SEM-II-Data\_Communication\_and\_Computer\_Networks\_Basics.docx

File Size

3.3 MB

176 Pages

41,104 Words

209,048 Characters

**日turnitin** 

Page 1 of 180 - Cover Page

Registrar

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Cited Text
- Small Matches (less than 20 words)

#### **Match Groups**

90 Not Cited or Quoted 10%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with In-text citation present, but no quotation marks

#### **Top Sources**

0% Internet sources

0% Publications

10% 🙎 Submitted works (Student Papers)

#### **Integrity Flags**

**0 Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

री turnitin

Page 2 of 180 - Integrity Overview

pup



- 90 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks
- Missing Quotations 0%
   Matches that are still very similar to source material
- Missing Citation 0%
  Matches that have quotation marks, but no in-text citation
- O Cited and Quoted 0%

  Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% III Publications

10% 🙎 Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1 Student papers	
Intercollege	<1%
2 Student papers	
Manipal University Jaipur Online	<1%
3 Student papers	
University of York	<1%
4 Student papers	
Technical and Vocational Teachers' College	<1%
5 Student papers	
Barnsley College, South Yorkshire	<1%
6 Student papers	
RDI Distance Learning	<1%
7 Student papers	
Toronto Business College	<1%
8 Student papers	
Jniversity of Wales Institute, Cardiff	<1%
9 Student papers	
West Herts College	<1%
10 Student papers	
ithan Academy Pte Ltd	<1%

回 turnitin

Page 3 of 180 - Integrity Overview

Ma



Submission IB trainid: :1:3192640186

### **JAMIA-BCA-SEM-2 Unix Linux Lab.docx**



BCA - Sem 2



Jamia



Jamia

#### **Document Details**

Submission ID

trn:oid:::1:3192722152

**Submission Date** 

Mar 24, 2025, 2:06 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 2:10 PM GMT+5:30

File Name

JAMIA-BCA-SEM-2\_Unix\_Linux\_Lab.docx

File Size

81.0 KB

30 Pages

2,931 Words

16,030 Characters

री turnitin

Page 1 of 33 - Cover Page

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text

#### **Match Groups**

16 Not Cited or Quoted 5% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

Cited and Quoted 0%
 Matches with In-text citation present, but no quotation marks

#### **Top Sources**

2% Internet sources

3% M Publications

1% \_\_\_\_ Submitted works (Student Papers)

#### **Integrity Flags**

**0 Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 33 - Integrity Overview Registrar

16 Not Cited or Quoted 5%
 Matches with neither in-text citation nor quotation marks

MlssIng Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

#### **Top Sources**

2% Internet sources

3% Publications

1% \_\_\_ Submitted works (Student Papers)

#### **Top Sources**

codeinsightacademy.com

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Darl Kuhn, Charles Kim, Bernard Lopuz. "Linux and Solaris Recipes for Oracle DBA... 2%

Internet indico.ictp.it 1%

Student papers
University of Wales Institute, Cardiff <1%

<1%

turnitin

Page 3 of 33 - Integrity Overview Registrar



# JAMIA-BCA-SEM-III INTRODUCTION TO OBJECT ORIENTED PROGRAMMING.docx

BCA - Sem 3

🛂 Jamia

Jamia

#### **Document Details**

Submission ID

trn:oid:::1:3192725201

**Submission Date** 

Mar 24, 2025, 2:12 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 2:25 PM GMT+5:30

File Name

JAMIA-BCA-SEM-III\_INTRODUCTION\_TO\_OBJECT\_ORIENTED\_PROGRAMMING.docx

Flle Size

4.0 MB

179 Pages

31,145 Words

158,758 Characters

चि turnitin

Page 1 of 182 - Cover Page

The



Submission 1

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

#### **Match Groups**

58 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks

0 Missing Quotations 0% Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

9 0 Cited and Quoted 0% Matches with in-text citation present, but no quotation marks

#### **Top Sources**

Internet sources

**Publications** 

Submitted works (Student Papers)

#### **Integrity Flags**

1 Integrity Flag for Review

Hidden Text 179 suspect characters on 1 page Text is altered to blend into the white background of the document. Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

包 turnitin

Page 2 of 182 - Integrity Overview



Submission ID trn:old;;:1;3192725201

- 58 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks
- Missing Quotations 0%
   Matches that are still very similar to source material
- **≡ 0** Missing Citation 0% Matches that have quotation marks, but no in-text citation
- O Cited and Quoted 0%
   Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% E Publications

10% 💄 Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

	Student papers
F - 4 1 1	

Federal University of Agriculture, Abeokuta

2%

2 Student papers

**International School of Management and Technology** 

1%

3 Student papers

San Sebastian College - Recoletos, Manila

1%

4 Student papers

National School of Business Management NSBM, Sri Lanka

1%

5 Student papers

**Graphic Era University** 

<1%

6 Student papers

Jain University

<1%

7 Student papers

**Manipal University** 

<1%

8 Student papers

SASTRA University

<1%

9 Student papers

**Canisius High School** 

<1%

10

Student papers

**Chandigarh Group of Colleges** 

<1%

Submission ID trn:oid:::1:3192725201

My Lower Justice

包 turnitin

Page 3 of 182 - Integrity Overview



المعزد

### Jamia 1

### JAMIA-BCA-SEM-III INTRODUCTION TO OBJECT ORIENTED **PROGRAMMING.docx**

BCA - Sem 3

Jamia

Jamia

#### **Document Details**

Submission ID

trn:oid:::1:3192725201

**Submission Date** 

Mar 24, 2025, 2:12 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 2:25 PM GMT+5:30

File Name

JAMIA-BCA-SEM-III\_INTRODUCTION\_TO\_OBJECT\_ORIENTED\_PROGRAMMING.docx

File Size

4.0 MB

179 Pages

31,145 Words

158,758 Characters

री turnitin

Page 1 of 182 - Cover Page New Dell Miloner Justin

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text
- Cited Text
- Small Matches (less than 20 words)

#### **Match Groups**

58 Not Cited or Quoted 10% Matches with nelther in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% Internet sources

0% M Publications

10% 🙎 Submitted works (Student Papers)

#### **Integrity Flags**

1 Integrity Flag for Review

Hidden Text
179 suspect characters on 1 page
Text is altered to blend into the white background of the document.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem, However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 182 - Integrity Overvlew

Mp





Submission ID trn:oid:::1:3192725201

36

58 Not Cited or Quoted 10% Matches with neither in-text citation nor quotation marks

Mlssing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%

Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

#### **Top Sources**

0% Mi Publications

10% 🚨 Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

1 Student papers	
Federal University of Agriculture, Abeokuta	2%
2 Student papers	
International School of Management and Technology	1%
3 Student papers	
San Sebastian College - Recoletos, Manila	1%
4 Student papers	
National School of Business Management NSBM, Sri Lanka	1%
5 Student papers	
Graphic Era University	<1%
6 Student papers	
lain University	<1%
7 Student papers	
Manipal University	<1%
8 Student papers	
SASTRA University	<1%
9 Student papers	
Canisius High School	<1%
10 Student papers	
Chandigarh Group of Colleges	<1%

包 turnitin

Page 3 of 182 - Integrity Overview





My Lomes During

المخلب

# Jamia 5

### Jamia-BCA-Sem-III -DISCRETE STRUCTURES.docx



BCA - Sem 3



Jamia



#### **Document Details**

Submission ID

trn:oid:::1:3192740420

**Submission Date** 

Mar 24, 2025, 2:14 PM GMT+5:30

**Download Date** 

Mar 24, 2025, 2:21 PM GMT+5:30

File Name

Jamia-BCA-Sem-III\_-DISCRETE\_STRUCTURES.docx

File Size

1.8 MB

221 Pages

70,319 Words

337,481 Characters

可 turnitin

Page 1 of 224 - Cover Page



Milanorto Submission ID trn:old:::1;3192740420

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text

#### **Match Groups**

96 Not Cited or Quoted 2%
 Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

0 Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

#### **Top Sources**

3% Internet sources

0% M Publications

0% \_\_\_ Submitted works (Student Papers)

#### **Integrity Flags**

**0 Integrity Flags for Review** 

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag Is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 224 - Integrity Overview Registrar

Submission

96 Not Cited or Quoted 2% Matches with neither In-text citation nor quotation marks

0 Missing Quotations 0% Matches that are still very similar to source material

0 Missing Citation 0% Matches that have quotation marks, but no in-text citation

9 0 Cited and Quoted 0% Matches with in-text citation present, but no quotation marks

#### **Top Sources**

Internet sources

**Publications** 0%

Submitted works (Student Papers) 0%

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Internet

vdocuments.site

2%

री turnitin

Page 3 of 224 - Integrity Overvio



# JAMIA-BCA-SEM-3- Database Management System - LAB.docx





Jamia

#### **Document Details**

Submission ID trn:oid:::1:3192732691

Mar 24, 2025, 2:19 PM GMT+5:30

Download Date

**Submission Date** 

Mar 24, 2025, 2:24 PM GMT+5:30

File Name

JAMIA-BCA-SEM-3-\_Database\_Management\_System\_-\_LAB.docx

File Size

190.0 KB

129 Pages

15,876 Words

98,240 Characters

न्य turnitin



Page 2 of 132 - Integrity Overview

Submission ID trn:oid:::1:3192732691

### 8% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

#### Filtered from the Report

- Bibliography
- Quoted Text

#### **Match Groups**

56 Not Cited or Quoted 8% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%
 Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%
 Matches with in-text citation present, but no quotation marks

#### **Top Sources**

10% 🙆 Internet sources

6% M Publications

7% Submitted works (Student Papers)

#### **Integrity Flags**

**0** Integrity Flags for Review

No suspicious text manipulations found.

Our system's algorithms look deeply at a document for any inconsistencies that would set it apart from a normal submission. If we notice something strange, we flag it for you to review.

A Flag is not necessarily an indicator of a problem. However, we'd recommend you focus your attention there for further review.

turnitin

Page 2 of 132 - Integrity Overview

Registrar \*\*

The course with the course of the course of

56 Not Cited or Quoted 8% Matches with neither in-text citation nor quotation marks

Missing Quotations 0%
 Matches that are still very similar to source material

Missing Citation 0%

Matches that have quotation marks, but no in-text citation

O Cited and Quoted 0%

Matches with in-text citation present, but no quotation marks

#### **Top Sources**

10% Internet sources

6% Mi Publications

7% \_\_ Submitted works (Student Papers)

#### **Top Sources**

The sources with the highest number of matches within the submission. Overlapping sources will not be displayed.

Internet	
piembsystech.com	2%
2 Internet	
www.coursehero.com	1%
3 Student papers	
International Business School	<1%
4 Internet	
data-foundations.ghost.io	<1%
5 Student papers	
Texas A&M University, Central Texas	<1%
6 Student papers	
University of North Texas	<1%
7 Studient papers	
University of Wales, Lampeter	<1%
8 Student papers	
RDI Distance Learning	<1%
9 Student papers	
exas A&M University - Commerce	<1%
10 Internet	

包 turnitin

technodocbox.com

Page 3 of 132 - Integrity Overview Registrar



# JAMIA-BCA-SEM-3 -C ++ Programming Lab.docx







#### **Document Details**

Submission ID

trn:oid:::1:3192741462

**Submission Date** 

Mar 24, 2025, 2:18 PM GMT+5:30

Download Date

Mar 24, 2025, 2:22 PM GMT+5:30

File Name

JAMIA-BCA-SEM-3\_-C\_Programming\_Lab.docx

File Size

349.4 KB

99 Pages

13,845 Words

74,917 Characters

रि turnitin

Page 1 of 102 - Cover Page

