



COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

PG DEPARTMENT OF MASTER OF COMPUTER APPLICATION

ADD-ON COURSE : Streaming Data: Concepts, Applications, and Technologies

[Programme: MCA]

Course Objectives:

1. Streaming data is data that continuously flows from sources such as IoT devices, sensors, GPS devices, server and security logs, and click streams from mobile apps and websites; typically high-volume data moving at high speed.
2. The business and technical drivers for streaming data adoption and Data pipeline processing patterns and the advanced patterns that are possible with streaming
3. How micro services and edge computing work with IoT data streams, Use case patterns and a variety of use cases for streaming data
4. Five kinds of Change Data Capture (CDC) and the strengths and weaknesses of each and the roles and functions of Kafka broker, data producers, and data consumers.

SYLLABUS

Total Lecture Hours : 36

MODULE I: THE NEED FOR SPEED

[06 periods]

Batch Vs. Real Time, The Speed of Business, The Speed of Data Parts 1-3, Fast Data Drives the Consumer World, Fast Data Drives the Business World, Fast Data Drives the Analytic World, The Business Case for Fast Data

MODULE II: MOVING DATA THROUGH PIPELINES

[04 periods]

Data Pipeline Processing, Data Stream Processing, IoT and Edge Computing

MODULE III: CHANGE DATA CAPTURE

[08 periods]

Data Management – A New Streaming Use Case, What is CDC?, Date Stamps for Change Detection, Diff Comparisons for Change Detection, Database Triggers for Change Detection, In-Database Change Data Capture, Log Based Change Data Capture, Log Based CDC for Data Warehousing and Data Lakes.

MODULE IV: DATA STREAMING WITH APACHE KAFKA

[04 periods]

Introduction to Apache Kafka, Kafka Predecessors

MODULE V: KAFKA ARCHITECTURE

[07 periods]

Apache Kafka Architecture, Essential Components Part 1-2, Data and Process Flow Part 1-2, Kafka Record – Key Components, Kafka Broker Overview, Cluster Management with Apache

PRINCIPAL
College of Engineering Bhubaneswar

MODULEVI: DATA STREAM ECOSYSTEMS AND USE CASES**[07 periods]**

Data Streaming Use Cases, Streaming Integration with Data Ecosystems, Kafka Alternatives from Cloud Service Providers, Amazon Kinesis, Azure Event Hub, Google Cloud PUB/SUB

Course Outcomes:

- CO1: The concept and applications of streaming architecture
CO2: Kafka architecture, essential components and Kafka data and process flow
CO3: Cluster management, data connections, and APIs with Kafka
CO4: Integrating streaming into the data ecosystem

Evaluation Process:

1. Attendance for the course is 75%, which is mandatory.
2. Minimum qualifying marks percentage for the course is 50.
3. Certificate will be issued after successful completion of course and assessment processes.

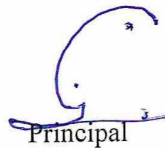
Learning resources:**Suggested Books:**

Streaming Data: Understanding the real-time pipeline by Andrew Psaltis ((Author).

Other Sources:**e-learning resources:**

<https://www.confluent.io/learn/data-streaming/>
<https://www.qlik.com/us/streaming-data>

Design and Developed by: Prof. Ranjeep Kumar Pradhan &, Prof. B.B. Biswal



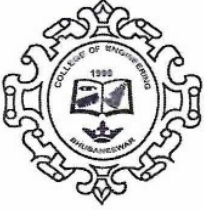
Principal



PRINCIPAL
College of Engineering Bhubaneswar



H.O.D, MCA
HOD MCA
COLLEGE OF ENGINEERING BHUBANESWAR



DEPARTMENT OF MCA

COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

NOTICE

ADD-ON/CERTIFICATE COURSE


Ref No: COEB/MCA/2021/22

Date: 26/11/2021

It is for the information of all the students of **1st/ 3rd** semester that the classes for the Add-On/Certificate Courses for the **Academic Year 2021-22** will commence as per the time table given below.. The registration process for the course will start from 29/11/2021. The interested students to enroll themselves for the course are advised to contact the concerned Course Coordinators for the details.

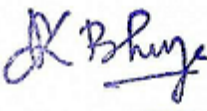
Semester	Course Title	Course Coordinator	Date of Commencement
1st	Streaming Data: Concepts, Applications, and Technologies	Prof. Sandip Kumar Bala	06/12/2021
3rd	Cloud Deployment	Prof. Debarchana Rout	06/12/2021


The class timing will be from 5.30 pm to 7.30 pm.


Head of the Department
HOD MCA
COLLEGE OF ENGINEERING BHUBANESWAR

Copy to:

1. Office of the Chairman/ Vice-Chairman for kind information.
2. Office of the Executive Director for kind Information.
3. Office of the Registrar for kind Information.
3. Office of the Principal for kind information.
4. Departmental Notice Board.
5. Guard File


PRINCIPAL
College of Engineering Bhubaneswar


Head of the Department
HOD MCA
COLLEGE OF ENGINEERING BHUBANESWAR



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: MCA

Course Title: Streaming Data: Concepts, Applications, and Technologies

Semester : 1st

Academic Year: 2021-22

Student's Declaration/Undertaking

1. I do hereby undertake to participate in the above mentioned add on course.
2. I do hereby, promise to abide by the admissible rules and regulations, concerning discipline, attendance, etc. of the department, and also to follow the Code of Conduct prescribed for the students of the Institute, as in force from time to time.

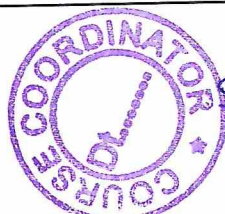
Sl. No.	Registration No.	Name of the Student	Signature of the Student
1	2105219001	ABHISEK NAYAK	Abhisek Nayak
2	2105219002	ABINASH PANDA	Abinash Panda
3	2105219003	ABINASH PATI	Abinash Pati
4	2105219004	AMRITA MEHER	Amrita Meher
5	2105219005	ANJALI SINGH	Anjali Singh
6	2105219006	ARPITA AISWARYA SAHOO	Arpita A Sahoo
7	2105219007	ARPITA MISHRA	Arpita Mishra
8	2105219008	ARPITA PANDA	Arpita Panda
9	2105219010	ASHISH KUMAR GIRI	Ashish K Giri
10	2105219011	BADAL KUMAR MANTRY	Badal Kumar Mantry
11	2105219012	BANDITA PRIYADARSHINI SAMAL	Bandita P Samal
12	2105219013	BEDAPRAKASH ROUTARAY	Bedaprakash Routaray
13	2105219014	BHUPATI RANJAN PADHAN	Bhupati R Padhan
14	2105219015	BIBIRAJ NAYAK	Bibiraj Nayak
15	2105219016	BINDULATA SETHY	Bindulata Sathy
16	2105219017	BISWAJIT NATH	Biswajit Nath
17	2105219018	BISWAJIT SAHOO	Biswajit Sahoo
18	2105219020	CHANDRAKANTA SAMAL	Chandrakanta Samal
19	2105219021	CHANDRAKANTI PRIYADARSHINI	Chandrakanti Priyadarshini
20	2105219022	CHINMAYEE DIBYAPUSPA SAHU	Chinmayee Dibya Puspa
21	2105219023	DEBARAJ SAHOO	Debaraj Sahoo
22	2105219025	DEEPAK KUMAR GHOSH	Deepak Ku Ghosh
23	2105219026	DHARMENDRA JENA	Dharmendra Jena
24	2105219027	DHIRENDRA KUMAR DAS	Dhirendra Ku Das
25	2105219028	DIBYARANJAN SAMAL	Dibya ranjan Samal
26	2105219029	DIGBIJAY PANDA	Digbijay Panda
27	2105219030	DIPTIRANI NAHAK	Diptirani Nahak
28	2105219031	GIRIDHARI SAMAL	Giridhari Samal
29	2105219032	GIRISH CHANDRA SAHOO	Girish C Sahoo



\$bals

PRINCIPAL
College of Engineering Bhubaneswar

Sl. No.	Registration No.	Name of the Student	Signature of the Student
30	2105219034	HIRANYA NAYAK	Hiranya Nayak
31	2105219035	JAYALAXMI PAIKRAY	Jayalaxmi Paikray
32	2105219036	JYOTIRANJAN PAL	Jyotiranjana Pal
33	2105219037	JYOTIRMAYEE SAHANI	Jyotirmayee Sahani
34	2105219038	K KAMESWARI	K Kameswari
35	2105219039	KAMLESH KUMAR SWAIN	Kamlesh Kumar Swain
36	2105219040	KHUSHI SHARMA	Khushi Sharma
37	2105219041	KIRAN PRAVA DAS	Kiran Prava Das
38	2105219042	KUMAR GOURAB SWAIN	Kumar Gourab Swain
39	2105219043	LAXMIPRIYA NAYAK	Laxmi Priya Nayak
40	2105219044	LUCY SHARMA	Lucy Sharma
41	2105219045	MAHAVIR PANDA	Mahavir Panda
42	2105219046	MANOJA KUMAR BEHERA	Manoja Kumar Behera
43	2105219047	NIRUPAMA DAS	Nirupama Das
44	2105219048	OM ADITYA MOHANTY	Om Aditya Mohanty
45	2105219050	PARTHASARATHI HATI	Parthasarathi Hati
46	2105219051	POOJA PRIYADARSHINI	Pooja Priyadarshini
47	2105219052	PRABHU PRASAD BEHERA	Prabhu P Behera
48	2105219053	PRANGYA PRIYAMBADA ROUT	Prangya P Rout
49	2105219054	PRIYABRATA NAIK	Priyabrata Naik
50	2105219055	RAJ KUMAR MALLIK	Raj Kumar Mallik
51	2105219056	RAKESH KUMAR MAHARANA	R. K. Maharana
52	2105219057	RAKESH PRAJAPATI	Rakesh Prajapati
53	2105219058	RISMA	Risma
54	2105219059	ROSHAN NAYAK	Roshan Nayak
55	2105219060	RUDRADEV PATTANAİK	Rudradev Pattanaik
56	2105219061	SAKTI RANJAN BHOI	SK Bhoi
57	2105219062	SAMEER KUMAR NAYAK	Sameer K Nayak
58	2105219063	SANGAM PRIYADARSINI SAHOO	Sangam Pn Sahoo
59	2105219064	SANGHAMITRA BEHERA	Sanghamitra Behera
60	2105219065	SANGRAM MALI	Sangram Mali
61	2105219066	SANTANU KUMAR BIDIKA	Santanu K Bidika
62	2105219067	SASWATI SUBHASANKETA MAHAPATRA	S. S Mahapatra
63	2105219068	SATYA NARAYAN NAYAK	Satya N Nayak
64	2105219069	SITAKANTA SWAIN	Sitakanta Swain
65	2105219070	SK ZAKI UDDIN	SK Zakiuddin
66	2105219071	SMARANIKA TRIPATHY	Smarenika Tripathy
67	2105219072	SMRUTI RANJAN PATRA	Smruti R Patra
68	2105219073	SMRUTI RANJAN SWAIN	Smruti R Swain
69	2105219074	SOMYA RANJAN BEHERA	Somya R Behera



Skbal

A. Bhuj
PRINCIPAL
 College of Engineering Bhubaneswar

Sl. No.	Registration No.	Name of the Student	Signature of the Student
70	2105219075	SOUMYA RANJAN PAIKRAY	S. R. Paikray.
71	2105219076	SOUMYA RANJAN BEHERA	Soumya R Behera
72	2105219077	SOUMYA RANJAN PRADHAN	Soumya R Pradhan
73	2105219078	SOUMYA RANJAN SWAIN	Soumya R Swain
74	2105219079	SOUMYA RANJAN TRIPATHY	Soumya R Tripathy
75	2105219080	SOUMYAJYOTI MUDULI	Soumyajyoti Muduli
76	2105219081	STHITAPRAJNA SARANGI	Stithaprajna Sarangi
77	2105219082	SUBHA SANDHYA BEHERA	Subha S Behera
78	2105219083	SUBHASHREE DEBASMITA	Subhashree Debasmitha
79	2105219084	SUBHASHREE PANI	Subhashree Pani
80	2105219085	SUBHASIS PARIDA	Subhasis Parida
81	2105219086	SUNIL KUMAR MAHANTA	Sunil Ku Mahanta
82	2105219087	SUSHREE JANHABI MEHER	Sushree Jn Meher
83	2105219088	SUVENDU KUMAR DASH	Suvendu K Dash
84	2105219089	SUVENDU SAMANTARAY	Suvendu Samantaray
85	2105219090	TANMAY BISWAL	Tanmay Biswal
86	2105219091	TAPASWINI PRADHAN	Tapaswini Pradhan
87	2105219092	TARINI KUMAR JENA	Tarini K Jena
88	2105219093	TITU KULDEEP	Titu Kuldeep

A. Bhuje
PRINCIPAL
College of Engineering Bhubaneswar



D. ...



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Signature of Principal: A Bhujy
PRINCIPAL
College of Engineering

Sheet No. 01

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, Date: 06/12/2021, Date: 07/12/2021, Date: 08/12/2021, Date: 09/12/2021. Rows list students from 1 to 23 with their names and attendance dates.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 01

A Bhuje
PRINCIPAL
College of Engineering Bhubaneswar

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with 4 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and Date & Signature of the Student (with sub-columns for dates 06/12/2021, 07/12/2021, 08/12/2021, 09/12/2021). Rows list students from 24 to 46 with their names and handwritten signatures/absences.

**COLLEGE OF ENGINEERING BHUBANESWAR (COEB)****DEPARTMENT OF MCA**

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEETSheet No. 01

A Bhuy
PRINCIPAL
 College of Engineering Bhubaneswar

Programme: **Master in Computer Application**Semester: 1st Academic Year: **2021-22**Name of the Course: **Streaming Data: Concepts, Applications, and Technologies**

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 06/12/2021	Date: 07/12/2021	Date: 08/12/2021	Date: 09/12/2021
47	2105219052	PRABHU PRASAD BEHERA	Prabhu P Behera	Prabhu P Behera	Prabhu P Behera	Prabhu P Behera
48	2105219053	PRANGYA PRIYAMBADA ROUT	Prangya P Rout	Prangya P Rout	← Abs →	Prangya P Rout
49	2105219054	PRIYABRATA NAIK	Priyabrata Naik	Priyabrata Naik	← Abs →	Priyabrata Naik
50	2105219055	RAJ KUMAR MALLIK	Raj Kumar Mallik	Raj Kumar Mallik	Raj Kumar Mallik	Raj Kumar Mallik
51	2105219056	RAKESH KUMAR MAHARANA	R.K. Maharana	R.K. Maharana	← Abs →	R.K. Maharana
52	2105219057	RAKESH PRAJAPATI	Rakesh Prajapati	Rakesh Prajapati	Rakesh Prajapati	Rakesh Prajapati
53	2105219058	RISMA	Risma	Risma	Risma	Risma
54	2105219059	ROSHAN NAYAK	Roshan Nayak	Roshan Nayak	Roshan Nayak	Roshan Nayak
55	2105219060	RUDRADEV PATTANAİK	Rudradev Pattanaik	Rudradev Pattanaik	← Abs →	Rudradev Pattanaik
56	2105219061	SAKTI RANJAN BHOI	SK Bhoi	SK Bhoi	SK Bhoi	SK Bhoi
57	2105219062	SAMEER KUMAR NAYAK	Sameer K Nayak	Sameer K Nayak	Sameer K Nayak	← Abs →
58	2105219063	SANGAM PRIYADARSINI SAHOO	Sangam P Saheo	Sangam P Saheo	← Abs →	Sangam P Saheo
59	2105219064	SANGHAMITRA BEHERA	Sanghamitra Behera	Sanghamitra Behera	Sanghamitra Behera	Sanghamitra Behera
60	2105219065	SANGRAM MALI	Sangram Mali	Sangram Mali	Sangram Mali	Sangram Mali
61	2105219066	SANTANU KUMAR BIDIKA	Santanu K Bidika	Santanu K Bidika	Santanu K Bidika	Santanu K Bidika
62	2105219067	SASWATI SUBHASANKETA	S.S. Mahapatra	S.S. Mahapatra	S.S. Mahapatra	S.S. Mahapatra
63	2105219068	SATYA NARAYAN NAYAK	Satya N Nayak	Satya N Nayak	Satya N Nayak	Satya N Nayak
64	2105219069	SITAKANTA SWAIN	SK Zakiuddin	SK Zakiuddin	SK Zakiuddin	SK Zakiuddin
65	2105219070	SK ZAKI UDDIN	Sitakanta Swain	Sitakanta Swain	Sitakanta Swain	Sitakanta Swain
66	2105219071	SMARANIKA TRIPATHY	Smaranika Tripathy	Smaranika Tripathy	Smaranika Tripathy	← Abs →
67	2105219072	SMRUTI RANJAN PATRA	Smruti R Patra	Smruti R Patra	Smruti R Patra	Smruti R Patra
68	2105219073	SMRUTI RANJAN SWAIN	Smruti R Swain	Smruti R Swain	Smruti R Swain	Smruti R Swain
69	2105219074	SOMYA RANJAN BEHERA	Somya R Behera	← Abs →	Somya R Behera	Somya R Behera



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 01

PRINCIPAL
College of Engineering Bhubaneswar

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any):PG-2

Table with columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and Date & Signature of the Student (with sub-columns for dates 06/12/2021, 07/12/2021, 08/12/2021, 09/12/2021). Rows list students from Soumya Ranjan Paikray to Titu Kuldeep.

Signature of the Course Coordinator

Signature of the Course Coordinator

Signature of the Course Coordinator

Signature of the Course Coordinator

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Principal's Signature: A. Bhuj
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 02

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any):PG-2

Table with 7 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and four Date & Signature columns (10/12/2021, 13/12/2021, 14/12/2021, 15/12/2021). Rows list 23 students with their handwritten signatures and dates.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Principal Signature: A Bhuy
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 02

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with 7 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and four Date columns (10/12/2021, 13/12/2021, 14/12/2021, 15/12/2021) for signatures. Rows list students from 24 to 46, including names like DHIRENDRA KUMAR DAS, DIBYARANJAN SAMAL, etc.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A. Bhuje
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 02

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any):PG-2

Table with 7 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and four Date & Signature columns (10/12/2021, 13/12/2021, 14/12/2021, 15/12/2021). Rows list students from 47 to 69 with their names and handwritten signatures/attendance marks.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Principal's signature and name: College of Engineering Bhubaneswar

Sheet No. 02

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and Date & Signature of the Student (repeated 4 times). Rows list students from 70 to 88 with their names and handwritten dates/signatures.

Signature of the Course Coordinator

Signature: \$bale

Signature: \$bale

Signature: \$bale

Signature: \$bale



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Principal's Signature: A. Bhuje
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 03

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with 7 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and four Date & Signature columns (16/12/2021, 17/12/2021, 20/12/2021, 21/12/2021). Rows list 23 students with their handwritten signatures and dates.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Signature of Principal: A. Bhuje
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 03

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with 4 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and Date & Signature of the Student. The table contains 24 rows of student attendance records for dates 16/12/2021, 17/12/2021, 20/12/2021, and 21/12/2021. Some dates have 'Abs' written in the signature cells.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhuy PRINCIPAL College of Engineering Bhubaneswar

Sheet No. 03

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any):PG-2

Table with 7 columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, Date: 16/12/2021, Date: 17/12/2021, Date: 20/12/2021, Date: 21/12/2021. Rows list student names and their attendance for each date.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhuy
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 03

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any):PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 16/12/2021	Date: 17/12/2021	Date: 20/12/2021	Date: 21/12/2021
70	2105219075	SOUMYA RANJAN PAIKRAY	S.R. Paikray	S.R. Paikray	S.R. Paikray	S.R. Paikray
71	2105219076	SOUMYA RANJAN BEHERA	Soumya R Behera	Soumya R Behera	Soumya R Behera	Soumya R Behera
72	2105219077	SOUMYA RANJAN PRADHAN	Soumya R Pradhan	Soumya R Pradhan	Soumya R Pradhan	Soumya R Pradhan
73	2105219078	SOUMYA RANJAN SWAIN	Soumya Rn Swain	Soumya Rn Swain	Soumya Rn Swain	Soumya Rn Swain
74	2105219079	SOUMYA RANJAN TRIPATHY	Soumya R Tripathy	Soumya R Tripathy	Soumya R Tripathy	Soumya R Tripathy
75	2105219080	SOUMYAJYOTI MUDULI	Soumyajyoti Muduli	Soumyajyoti Muduli	Soumyajyoti Muduli	Soumyajyoti Muduli
76	2105219081	STHITAPRAJNA SARANGI	Sthitaprajna Sarangi	Sthitaprajna Sarangi	Sthitaprajna Sarangi	Sthitaprajna Sarangi
77	2105219082	SUBHA SANDHYA BEHERA	Subha S Behera	Subha S Behera	Subha S Behera	Subha S Behera
78	2105219083	SUBHASHREE DEBASMITA	Subhashree Debasmitta	Subhashree Debasmitta	Subhashree Debasmitta	Subhashree Debasmitta
79	2105219084	SUBHASHREE PANI	Subhashree pani	Subhashree pani	Subhashree pani	Subhashree pani
80	2105219085	SUBHASIS PARIDA	Subhasis Parida	Subhasis Parida	Subhasis Parida	Subhasis Parida
81	2105219086	SUNIL KUMAR MAHANTA	Sunil Ku Mahanta	Sunil Ku Mahanta	Sunil Ku Mahanta	Sunil Ku Mahanta
82	2105219087	SUSHREE JANHABI MEHER	Sushree Jn Meher	Sushree Jn Meher	Sushree Jn Meher	Sushree Jn Meher
83	2105219088	SUVENDU KUMAR DASH	Suvendu K Dash	Suvendu K Dash	Suvendu K Dash	Suvendu K Dash
84	2105219089	SUVENDU SAMANTARAY	Suvendu Samantaray	Suvendu Samantaray	Suvendu Samantaray	Suvendu Samantaray
85	2105219090	TANMAY BISWAL	Tanmay Biswal	Tanmay Biswal	Tanmay Biswal	Tanmay Biswal
86	2105219091	TAPASWINI PRADHAN	Tapaswini Pradhan	Tapaswini Pradhan	Tapaswini Pradhan	Tapaswini Pradhan
87	2105219092	TARINI KUMAR JENA	Tarini K Jena	Tarini K Jena	Tarini K Jena	Tarini K Jena
88	2105219093	TITU KULDEEP	Titu Kuldeep	Titu Kuldeep	Titu Kuldeep	Titu Kuldeep

Signature of the Course Coordinator

Kbals

Kbals

Kbals

Kbals



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhuy
PRINCIPAL

College of Engineering Bhubaneswar

Sheet No. 04

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 22/12/2021	Date: 23/12/2021	Date: 24/12/2021	Date: 06/01/2022
1	2105219001	ABHISEK NAYAK	Abhisek Nayak	Abhisek Nayak	Abhisek Nayak	Abhisek Nayak
2	2105219002	ABINASH PANDA	Abinash Panda	Abinash Panda	Abinash Panda	Abinash Panda
3	2105219003	ABINASH PATI	Abinash pati	Abinash pati	Abinash pati	Abinash pati
4	2105219004	AMRITA MEHER	Amrita Meher	Amrita Meher	Amrita Meher	Amrita Meher
5	2105219005	ANJALI SINGH	Anjali Singh	← Abs →	← Abs →	Anjali Singh
6	2105219006	ARPITA AISWARYA SAHOO	Arpita A Sahoo	Arpita A Sahoo	Arpita A Sahoo	Arpita A Sahoo
7	2105219007	ARPITA MISHRA	Arpita Mishra	Arpita Mishra	Arpita Mishra	Arpita Mishra
8	2105219008	ARPITA PANDA	Arpita Panda	Arpita Panda	Arpita Panda	Arpita Panda
9	2105219010	ASHISH KUMAR GIRI	Ashish K Giri	Ashish K Giri	Ashish K Giri	Ashish K Giri
10	2105219011	BADAL KUMAR MANTRY	Badal Kumar Mantry	Badal Kumar Mantry	Badal Kumar Mantry	Badal Kumar Mantry
11	2105219012	BANDITA PRIYADARSHINI SAMAL	Bandita P Samal	Bandita P Samal	Bandita P Samal	Bandita P Samal
12	2105219013	BEDAPRAKASH ROUTARAY	Bedaprakash Rout	Bedaprakash Rout	Bedaprakash Rout	Bedaprakash Rout
13	2105219014	BHUPATI RANJAN PADHAN	← Abs →	Bhupati Padhan	Bhupati Padhan	← Abs →
14	2105219015	BIBIRAJ NAYAK	Bibiraj Nayak	Bibiraj Nayak	Bibiraj Nayak	Bibiraj Nayak
15	2105219016	BINDULATA SETHY	Bindulata Sethy	Bindulata Sethy	Bindulata Sethy	Bindulata Sethy
16	2105219017	BISWAJIT NATH	Biswajit Nath	Biswajit Nath	Biswajit Nath	Biswajit Nath
17	2105219018	BISWAJIT SAHOO	Biswajit Sahoo	Biswajit Sahoo	Biswajit Sahoo	Biswajit Sahoo
18	2105219020	CHANDRAKANTA SAMAL	Chandrakanta Samal	Chandrakanta Samal	Chandrakanta Samal	Chandrakanta Samal
19	2105219021	CHANDRAKANTI PRIYADARSHINI	Chandrakanti Priyadarshini	Chandrakanti Priyadarshini	Chandrakanti Priyadarshini	Chandrakanti Priyadarshini
20	2105219022	CHINMAYEE DIBYAPUSPA SAHU	Chinmayee Dibyapuspa	← Abs →	← Abs →	Chinmayee Dibyapuspa
21	2105219023	DEBARAJ SAHOO	Debaraj Sahoo	Debaraj Sahoo	Debaraj Sahoo	Debaraj Sahoo
22	2105219025	DEEPAK KUMAR GHOSH	Deepak Kumar Ghosh	Deepak Kumar Ghosh	Deepak Kumar Ghosh	Deepak Kumar Ghosh
23	2105219026	DHARMENDRA JENA	Dharmendra Jena	Dharmendra Jena	Dharmendra Jena	Dharmendra Jena



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhuy
PRINCIPAL

College of Engineering Bhubaneswar

Sheet No. 04

Semester: 1st Academic Year: 2021-22

Programme: Master in Computer Application

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 22/12/2021	Date: 23/12/2021	Date: 24/12/2021	Date: 06/01/2022
24	2105219027	DHIRENDRA KUMAR DAS	Dhirendra Kumar Das	Dhirendra Kumar Das	Dhirendra Kumar Das	Dhirendra Kumar Das
25	2105219028	DIBYARANJAN SAMAL	Dibyaranjan Samal	Dibyaranjan Samal	Dibyaranjan Samal	Dibyaranjan Samal
26	2105219029	DIGBIJAY PANDA	Digbijay Panda	Digbijay Panda	Digbijay Panda	Digbijay Panda
27	2105219030	DIPTIRANI NAHAK	Diptirani Nahak	← Abs →	← Abs →	Diptirani Nahak
28	2105219031	GIRIDHARI SAMAL	Giridhari Samal	Giridhari Samal	Giridhari Samal	← Abs →
29	2105219032	GIRISH CHANDRA SAHOO	Girish C Sahoo	Girish C Sahoo	Girish C Sahoo	Girish C Sahoo
30	2105219034	HIRANYA NAYAK	Hiranya Nayak	Hiranya Nayak	Hiranya Nayak	Hiranya Nayak
31	2105219035	JAYALAXMI PAIKRAY	Jayalaxmi Paikray	Jayalaxmi Paikray	Jayalaxmi Paikray	Jayalaxmi Paikray
32	2105219036	JYOTIRANJAN PAL	Jyotiranjana Pal	Jyotiranjana Pal	Jyotiranjana Pal	Jyotiranjana Pal
33	2105219037	JYOTIRMAYEE SAHANI	Jyotirmayee Sahani	Jyotirmayee Sahani	Jyotirmayee Sahani	Jyotirmayee Sahani
34	2105219038	K KAMESHWARI	K. Kameshwari	← Abs →	K. Kameshwari	K. Kameshwari
35	2105219039	KAMLESH KUMAR SWAIN	Kamlesh Kumar Swain	Kamlesh Kumar Swain	Kamlesh Kumar Swain	Kamlesh Kumar Swain
36	2105219040	KHUSHI SHARMA	Khushi Sharma	Khushi Sharma	Khushi Sharma	Khushi Sharma
37	2105219041	KIRAN PRAVA DAS	Kiran Prava Das	← Abs →	Kiran Prava Das	Kiran Prava Das
38	2105219042	KUMAR GOURAB SWAIN	Kumar Gourab Swain	Kumar Gourab Swain	Kumar Gourab Swain	Kumar Gourab Swain
39	2105219043	LAXMIPRIYA NAYAK	Laxmi Priya Nayak	← Abs →	Laxmi Priya Nayak	Laxmi Priya Nayak
40	2105219044	LUCY SHARMA	Lucy Sharma	Lucy Sharma	Lucy Sharma	Lucy Sharma
41	2105219045	MAHAVIR PANDA	Mahavir Panda	Mahavir Panda	Mahavir Panda	Mahavir Panda
42	2105219046	MANOJA KUMAR BEHERA	Manoja Kumar Behera	Manoja Kumar Behera	Manoja Kumar Behera	Manoja Kumar Behera
43	2105219047	NIRUPAMA DAS	Nirupama Das	Nirupama Das	Nirupama Das	Nirupama Das
44	2105219048	OM ADITYA MOHANTY	Om Aditya Mohanty	Om Aditya Mohanty	Om Aditya Mohanty	Om Aditya Mohanty
45	2105219050	PARTHASARATHI HATI	Partha Sarathi Hati	Partha Sarathi Hati	Partha Sarathi Hati	Partha Sarathi Hati
46	2105219051	POOJA PRIYADARSHINI	Pooja Priya Darshini	Pooja Priya Darshini	Pooja Priya Darshini	Pooja Priya Darshini



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhunia
PRINCIPAL

College of Engineering Bhubaneswar

Sheet No. 04

Programme: **Master in Computer Application**

Semester: 1st Academic Year: **2021-22**

Name of the Course: **Streaming Data: Concepts, Applications, and Technologies**

Course Code (if any):PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 22/12/2021	Date: 23/12/2021	Date: 24/12/2021	Date: 06/01/2022
47	2105219052	PRABHU PRASAD BEHERA	Prabhu P Behera	Prabhu P Behera	Prabhu P Behera	Prabhu P Behera
48	2105219053	PRANGYA PRIYAMBADA ROUT	Prangya P Rout	Prangya P Rout	Prangya P Rout	Prangya P Rout
49	2105219054	PRIYABRATA NAIK	Priyabrata Naik	Priyabrata Naik	Priyabrata Naik	Priyabrata Naik
50	2105219055	RAJ KUMAR MALLIK	Raj Kumar Mallik	Raj Kumar Mallik	← Abs →	Raj Kumar Mallik
51	2105219056	RAKESH KUMAR MAHARANA	R.K. Maharana	R.K. Maharana	R.K. Maharana	R.K. Maharana
52	2105219057	RAKESH PRAJAPATI	Rakesh Prajapati	Rakesh Prajapati	Rakesh Prajapati	Rakesh Prajapati
53	2105219058	RISMA	Risma	Risma	Risma	Risma
54	2105219059	ROSHAN NAYAK	Roshan Nayak	Roshan Nayak	← Abs →	← Abs →
55	2105219060	RUDRADEV PATTANAİK	Rudradev pattanaik	Rudradev pattanaik	Rudradev pattanaik	Rudradev pattanaik
56	2105219061	SAKTI RANJAN BHOI	S K Bhoi	S K Bhoi	S K Bhoi	← Abs →
57	2105219062	SAMEER KUMAR NAYAK	Sameer K Nayak	Sameer K Nayak	← Abs →	Sameer K Nayak
58	2105219063	SANGAM PRIYADARSINI SAHOO	Sangam Pa Saha	Sangam Pa Saha	Sangam Pa Saha	Sangam Pa Saha
59	2105219064	SANGHAMITRA BEHERA	Sanghamitra Behera	Sanghamitra Behera	Sanghamitra Behera	Sanghamitra Behera
60	2105219065	SANGRAM MALI	Sangram Mali	Sangram Mali	← Abs →	Sangram Mali
61	2105219066	SANTANU KUMAR BIDIKA	Santanu K Bidika	Santanu K Bidika	Santanu K Bidika	Santanu K Bidika
62	2105219067	SASWATI SUBHASANKETA	← Abs →	S.S Mahapatra	S.S Mahapatra	S.S Mahapatra
63	2105219068	SATYA NARAYAN NAYAK	Satya N Nayak	Satya N Nayak	Satya N Nayak	Satya N Nayak
64	2105219069	SITAKANTA SWAIN	Sh Zakiuddin	Sh Zakiuddin	Sh Zakiuddin	← Abs →
65	2105219070	SK ZAKI UDDIN	← Abs →	Sitakanta Swain	Sitakanta Swain	Sitakanta Swain
66	2105219071	SMARANIKA TRIPATHY	Smaranika Tripathy	Smaranika Tripathy	Smaranika Tripathy	Smaranika Tripathy
67	2105219072	SMRUTI RANJAN PATRA	Smruti R Patra	Smruti R Patra	Smruti R Patra	Smruti R Patra
68	2105219073	SMRUTI RANJAN SWAIN	Smruti R Swain	Smruti R Swain	Smruti R Swain	Smruti R Swain
69	2105219074	SOMYA RANJAN BEHERA	Somya R Behera	Somya R Behera	Somya R Behera	Somya R Behera



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Principal's Signature: College of Engineering Bhubaneswar

Sheet No. 04

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, and Date & Signature of the Student (with sub-columns for dates 22/12/2021, 23/12/2021, 24/12/2021, and 06/01/2022). Rows list students from 70 to 88.

Signature of the Course Coordinator

Signature: \$kals

Signature: \$kals

Signature: \$kals

Signature: \$kals



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A. Bhuje
PRINCIPAL
College of Engineering Bhubaneswar

Sheet No. 05

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Table with columns: SL. NO., Reg. No./ Enrollment No., NAME OF THE STUDENT, Date: 07/01/2022, Date: 10/01/2022, Date:, Date:. Rows list students from 1 to 23 with their names and handwritten signatures/absences.



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

A.K. Bhoj
PRINCIPAL

College of Engineering Bhubaneswar

STUDENT ATTENDANCE SHEET

Sheet No. 05

Programme: **Master in Computer Application**

Semester: 1st Academic Year: **2021-22**

Name of the Course: **Streaming Data: Concepts, Applications, and Technologies**

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 07/01/2022	Date: 10/01/2022	Date:	Date:
24	2105219027	DHIRENDRA KUMAR DAS	<i>Dhirendra Kumar Das</i>	<i>Dhirendra Das</i>		
25	2105219028	DIBYARANJAN SAMAL	<i>Dibyaranjan Samal</i>	<i>Abs →</i>		
26	2105219029	DIGBIJAY PANDA	<i>Digbijay Panda</i>	<i>Digbijay Panda</i>		
27	2105219030	DIPTIRANI NAHAK	<i>Diptirani Nahak</i>	<i>← Abs →</i>		
28	2105219031	GIRIDHARI SAMAL	<i>Giridhari Sama</i>	<i>Giridhari Samal</i>		
29	2105219032	GIRISH CHANDRA SAHOO	<i>Girish C Sahoo</i>	<i>Girish C Sahoo</i>		
30	2105219034	HIRANYA NAYAK	<i>Hiranya Nayak</i>	<i>Hiranya Nayak</i>		
31	2105219035	JAYALAXMI PAIKRAY	<i>Jayalaxmi Paikray</i>	<i>Jayalaxmi Paikray</i>		
32	2105219036	JYOTIRANJAN PAL	<i>Jyotiranjan Pal</i>	<i>Jyotiranjan Pal</i>		
33	2105219037	JYOTIRMAYEE SAHANI	<i>Jyotirmayee Sahani</i>	<i>Jyotirmayee Sahani</i>		
34	2105219038	K KAMESWARI	<i>K. Kameswari</i>	<i>K. Kameswari</i>		
35	2105219039	KAMLESH KUMAR SWAIN	<i>Kamlesh Kumar Swain</i>	<i>Kamlesh Kumar Swain</i>		
36	2105219040	KHUSHI SHARMA	<i>Khushi Sharma</i>	<i>Khushi Sharma</i>		
37	2105219041	KIRAN PRAVA DAS	<i>Kiran Prava Das</i>	<i>Kiran Prava Das</i>		
38	2105219042	KUMAR GOURAB SWAIN	<i>Kumar Gourab Swain</i>	<i>Kumar Gourab Swain</i>		
39	2105219043	LAXMIPRIYA NAYAK	<i>Laxmi Priya Nayak</i>	<i>Laxmi Priya Nayak</i>		
40	2105219044	LUCY SHARMA	<i>Lucy Sharma</i>	<i>Lucy Sharma</i>		
41	2105219045	MAHAVIR PANDA	<i>Mahavir Panda</i>	<i>Mahavir Panda</i>		
42	2105219046	MANOJA KUMAR BEHERA	<i>Manoja Kumar Behera</i>	<i>Manoja Kumar Behera</i>		
43	2105219047	NIRUPAMA DAS	<i>Nirupama Das</i>	<i>Nirupama Das</i>		
44	2105219048	OM ADITYA MOHANTY	<i>Om Aditya Mohanty</i>	<i>Om Aditya Mohanty</i>		
45	2105219050	PARTHASARATHI HATI	<i>Partha Sarathi Hati</i>	<i>Partha Sarathi Hati</i>		
46	2105219051	POOJA PRIYADARSHINI	<i>Pooja Priyadarshini</i>	<i>Pooja Priyadarshini</i>		



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

K. Bhuj
PRINCIPAL

College of Engineering Bhubaneswar

Sheet No. 05

Programme: **Master in Computer Application**

Semester: 1st Academic Year: **2021-22**

Name of the Course: **Streaming Data: Concepts, Applications, and Technologies**

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 07/01/2022	Date: 10/01/2022	Date:	Date:
47	2105219052	PRABHU PRASAD BEHERA	Prabhu P Behera	Prabhu P Behera		
48	2105219053	PRANGYA PRIYAMBADA ROUT	Prangya P Rout	Prangya P Rout		
49	2105219054	PRIYABRATA NAIK	Priyabrata Naik	Priyabrata Naik	Priyabrata N	
50	2105219055	RAJ KUMAR MALLIK	Raj Kumar Mallik	Raj Kumar Mallik		
51	2105219056	RAKESH KUMAR MAHARANA	R.K. Maharana	R.K. Maharana		
52	2105219057	RAKESH PRAJAPATI	Rakesh Prajapati	Rakesh Prajapati		
53	2105219058	RISMA	Risma	Risma		
54	2105219059	ROSHAN NAYAK	← Abs →	← Abs →		
55	2105219060	RUDRADEV PATTANAIK	Rudradev pattanaik	Rudradev pattanaik		
56	2105219061	SAKTI RANJAN BHOI	S.K. Bhoi	S.K. Bhoi		
57	2105219062	SAMEER KUMAR NAYAK	Sameer K Nayak	Sameer K Nayak		
58	2105219063	SANGAM PRIYADARSINI SAHOO	Sangam P. Sahoo	Sangam P. Sahoo		
59	2105219064	SANGHAMITRA BEHERA	Sanghamitra Behera	← Abs →		
60	2105219065	SANGRAM MALI	Sangram Mali	Sangram Mali		
61	2105219066	SANTANU KUMAR BIDIKA	Santanu K Bidika	Santanu K Bidika		
62	2105219067	SASWATI SUBHASANKETA	S.S. Mahapatra	S.S. Mahapatra		
63	2105219068	SATYA NARAYAN NAYAK	Satya N Nayak	Satya N Nayak		
64	2105219069	SITAKANTA SWAIN	Sitakanta Swain	Sitakanta Swain		
65	2105219070	SK ZAKI UDDIN	Sk Zakiuddin	Sk Zakiuddin		
66	2105219071	SMARANIKA TRIPATHY	Smaranika Tripathy	Smaranika Tripathy		
67	2105219072	SMRUTI RANJAN PATRA	Smruti R Patra	Smruti R Patra		
68	2105219073	SMRUTI RANJAN SWAIN	Smruti R Swain	Smruti R Swain		
69	2105219074	SOMYA RANJAN BEHERA	Somya R Behera	Somya R Behera		



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF MCA

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

A Bhuje
PRINCIPAL

College of Engineering Bhubaneswar

Sheet No. 05

Programme: Master in Computer Application

Semester: 1st Academic Year: 2021-22

Name of the Course: Streaming Data: Concepts, Applications, and Technologies

Course Code (if any): PG-2

Duration : 36 Hours			Date & Signature of the Student			
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: 07/01/2022	Date: 10/01/2022	Date:	Date:
70	2105219075	SOUMYA RANJAN PAIKRAY	S. K. Paikray	S.K. Paikray		
71	2105219076	SOUMYA RANJAN BEHERA	Soumya R Behera	Soumya R Behera		
72	2105219077	SOUMYA RANJAN PRADHAN	Soumya R Pradhan	Soumya R Pradhan		
73	2105219078	SOUMYA RANJAN SWAIN	Soumya Rn Swain	Soumya Rn Swain		
74	2105219079	SOUMYA RANJAN TRIPATHY	Soumya R Tripathy	Soumya R Tripathy		
75	2105219080	SOUMYAJYOTI MUDULI	Soumyajyoti Muduli	Soumyajyoti Muduli		
76	2105219081	STHITAPRAJNA SARANGI	Sthitaprajna Sarangi	Sthitaprajna Sarangi		
77	2105219082	SUBHA SANDHYA BEHERA	Subha S Behera	Subha S. Behera		
78	2105219083	SUBHASHREE DEBASMITA	Subhashree Debasmita	Subhashree Debasmita		
79	2105219084	SUBHASHREE PANI	Subhashree Pani	Subhashree Pani		
80	2105219085	SUBHASIS PARIDA	Subhasis Parida	Subhasis Parida		
81	2105219086	SUNIL KUMAR MAHANTA	Sunil K Mahanta	Sunil K Mahanta		
82	2105219087	SUSHREE JANHABI MEHER	Sushree Ja Meher	Sushree Ja Meher		
83	2105219088	SUVENDU KUMAR DASH	Suvendu K Dash	Suvendu K Dash		
84	2105219089	SUVENDU SAMANTARAY	Suvendu Samantaray	Suvendu Samantaray		
85	2105219090	TANMAY BISWAL	Tanmay Biswal	Tanmay Biswal		
86	2105219091	TAPASWINI PRADHAN	Tapaswini Pradhan	Tapaswini Pradhan		
87	2105219092	TARINI KUMAR JENA	Tarini K Jena	Tarini K Jena		
88	2105219093	TITU KULDEEP	Titu Kuldeep	Titu Kuldeep		

Signature of the Course Coordinator

Rbals

Rbals



COLLEGE OF ENGINEERING BHUBANESWAR

PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. ABHISEK NAYAK, student of the Department

of MCA semester First bearing registration number 2105219001

has successfully completed the ADD-ON Course titled Concepts, Applications, and Technologies

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY

Course-Cordinator

Principal

PRINCIPAL
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR

PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. ABINASH PANDA, student of the Department

of MCA semester First bearing registration number 2105219002

has successfully completed the ADD-ON Course titled Concepts, Applications, and Technologies

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY

Course-Cordinator

Principal

PRINCIPAL
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR

PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. ABINASH PATI, student of the Department

of MCA semester First bearing registration number 2105219003

has successfully completed the ADD-ON Course titled Concepts, Applications, and Technologies

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY

Course-Coordinator

Principal

PRINCIPAL
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR

PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. AMRITA MEHER, student of the Department

of MCA semester First bearing registration number 2105219004

has successfully completed the ADD-ON Course titled Concepts, Applications, and Technologies

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY

Course-Coordinator

Principal

PRINCIPAL
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR

PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. ARPITA AISWARYA SAHOO, student of the Department

of MCA semester First bearing registration number 2105219006

has successfully completed the ADD-ON Course titled Concepts, Applications, and Technologies

conducted at College of Engineering Bhubaneswar in the academic year 2021-22

TRUE COPY

Course-Coordinator

Principal

PRINCIPAL
College of Engineering Bhubaneswar