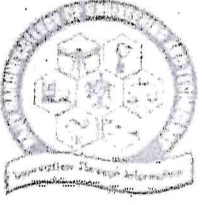Capacity Development and skills Enhancement Activity

AWARENESS OF TRENDS IN TECHNOLOGY

BIG DATA MANAGEMENT AND ANALYSIS

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

(Accredited with 'A' Grade by NAAC)

(Sponsored by Sri Balaji Educational and Charitable Public Trust)

Pondy – Cuddalore Main Road, Kirumampakkam, Puducherry – 607 403.

11 November 2022

From

C.A.Aswini,

Event Coordinator,

Department of MCA,

Rajiv Gandhi College of Engineering and Technology,

Kirumampakkam, Puducherry - 607 403.

To

The Principal,

Rajiv Gandhi College of Engineering and Technology,

Kirumampakkam, Puducherry - 607 403.

THROUGH THE HEAD OF THE DEPARTMENT, DEPARTMENT OF MCA

Respected Sir,

Sub: - Request for permission to conduct a one-day workshop on Bigdata management and analysis for MCA Students-reg.

I have planned to conduct a one-day workshop on the topic "Big data management and analysis" on 21/11/2022. I will be the coordinator for conducting the workshop. The aforementioned workshop will be offered to the II-year students of the MCA Department. I kindly request you to grant permission to conduct this program.

Thanking you,

Yours sincerely,

C.A.Aswini

Event Coordinator

Forwarded to Principal

Dr. E. VIJAYAKRISHNA RAPAKA
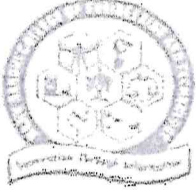B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL
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DEPARTMENT OF COMPUTER APPLICATIONS

No: RGCET/MCA//Circular/2022-2023/WS01   Date: 11.11.2022

CIRCULAR

I am excited to inform you that a one-day workshop on the topic "BIG DATA MANAGEMENT AND ANALYSIS" is going to be conducted on 21/11/2022. The aforementioned WORKSHOP will be offered to the I & II-Year students of the MCA Department.

All are invited

HOD/MCA

Copy to:

1. Circulate to all Faculty Members and MCA students
2. Notice board / file

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
PRINCIPAL
Rajiv Gandhi College of Engineering & Technology
Pondy - Cuddalore Main Road,
Kirumampakkam, Puducherry - 607 402.

WORKSHOP

Department of Computer Application

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHONOLOGY

Cordially Invite you to the

ONE DAY WORKSHOP
ON

"Bigdata Management and Analysis"

On 21th November 2022 @9.30
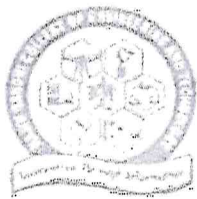**A.M In Seminar Hall, RGCET**

Dr.E.VIJAYAKRISHNA RAPAKA
Principal,RGCET
Will offer felicitations

Dr.E.AYYAPPAN
Vice-Principal,RGCET
Will address the function

Mr.A.M JAMES RAJ
Assistant Professor & Head
Department of CSE
Resource Person

ALL ARE WELCOME
BY
HOD,Staffs and Students of MCA

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.i.,
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Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

COURSE DETAILS

Title of the Course	One-Day Workshop on Big data management and analysis
Workshop Name	Big data management and analysis
Workshop Duration	21.11.2022
Workshop Code	MCA22WS01
No. of. Registrants	71
Workshop Offered	Year: I, II (MCA) Sem: I & III
Event Coordinator	Mrs. C.A.Aswini, MCA Department, RGCET
RESOURCE PERSONS	Mr. A.M. JAMES RAJ,
	Assistant Professor& HOD
	Department of CSE
	Pope John Paul II College of Education
	Puducherry.

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
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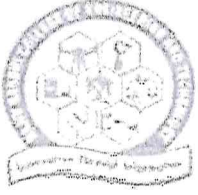
COURSE MODULE

COURSE OBJECTIVES

1. The definition of big data is data that contains greater variety, arriving in increasing volumes and with more velocity.
2. This is also known as the three "Vs."
3. Put simply, big data is larger, more complex data sets, especially from new data sources.
4. These data sets are so voluminous that traditional data processing software just can't manage them.
5. But these massive volumes of data can be used to address business problems you wouldn't have been able to tackle before.

COURSE OUTCOMES

By the end of this module, participants will be able to:

1. Many old IT companies are fully dependent on big data in order to modernize their outdated mainframes by identifying the root causes of failures and issues in real-time and antiquated code bases. Many organizations are replacing their traditional system with open-source platforms like Hadoop.

2. Most big data solutions are based hadoop, which allows designs to scale up from a single machine to thousands of machines, each offering local computation and storage, moreover, it is a "free" open-source platform, allowing minimizing capital investment for an organization in acquiring new platforms.

3. With the help of big data technologies IT companies are able to process third-party data fast, which is often hard to understand at once by having inherently high horsepower and parallelized working of platforms.

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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

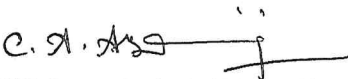(Approved by AICTE and Affiliated to Pondicherry University)

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WORKSHOP SCHEDULE

TIME	SESSION	ACTIVITY
9.30AM TO 10.30 AM	Welcome and Introduction	i) Introduction to Workshop ii) Opening remarks by Mr. R. Senthil Kumar, Head of the Department iii) Overview of the Bigdata Concepts, Development and Deployment.
10.30 AM TO 10.45 AM	BREAK	
10.45 AM TO 11.45 AM	Introduction to Big Data Management and Analysis	i) Overview of Big Data Management and Analysis, including Definition and Characteristics of Big Data (Volume, Velocity, Variety, Veracity, Value) ii) Importance of Big Data in Today's World. iii) Key challenges in big data management
11.45 AM TO 12.45 PM	Big Data Technologies and Tools	i) Introduction to popular development technologies and frameworks such as (Hadoop, Spark, NoSQL Databases, etc.) ii) Introduction to Big Data Tools (Hive, Pig, HBase, Cassandra, etc.) iii) Case Studies and Real-World Applications.
12.45 PM TO 1.30 PM	LUNCH BREAK	
1.30 PM TO 2.30 PM	Data Analysis Techniques	i) Data Preprocessing and Cleaning ii) Data Mining and Machine learning Techniques. iii) Visualization and interpretation of big data.
2.30 pm TO 3.30 PM	Hands-On Workshop	i) Practical session on Big Data analysis using a chosen tool (e.g., Apache Spark) ii) Participants will work on a sample dataset to apply learned techniques iii) Guidance and support from experts.
3.30 PM TO 4.00 PM	Q&A Session	i) Open floor for questions and discussions ii) Participants can ask questions and seek advice on specific Big Data challenges.

C. A. Ass

EVENT CO-ORDINATOR

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (Ir HEAD OF THE DEPARTMENT
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.I.I.,
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Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

Report On Work Shop

Organized by: Department of Computer Applications.

Date: 21.11.2022

Time: 9.30AM to 4.00PM

Topic: Big data management and analysis

The programme commenced with the lighting of the Ceremonial lamp by the Mr. A.M. JAMES RAJ, Assistant Professor& HOD, Department of CSE, Pope John Paul II College of Education, Puducherry. Dr.E.Vijaya Krishna Rapaka, Principal, RGCET, Mr. R.Senthil kumar, Head of the Department, MCA, Mrs. C.A.Aswini, Assistant Professor, Dept. of MCA, DINESH.S , III MCA. After Inaugural ceremony, Mr.R.Senthilkumar, conducted a highly interactive session on as Introduction to workshop objectives and overview.

At the end of the workshop, the Valedictory session was held at 3.30 p.m., which was chaired by Dr.E.Vijayakrishna Rapaka, Principal, RGCET and Mrs. C.A.Aswini, Event Co-Ordinator, MCA expressed his trust that the participants would follow the growth and practice of **Big data management and analysis**. Mrs. C.A.Aswini, concluded the workshop with an interactive feedback session with participants and congratulated all the participants and organizers for successful completion.
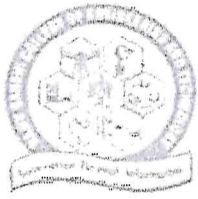

EVENT COORDINATOR

HEAD OF THE DEPARTMENT

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D (s)
M.I.S.T.E., F.I.I.P.E., M.C.S., M.C.I.,
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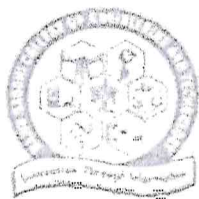Pondy - Cuddalore Main Road, Kirumampakkam, Puducherry - 607 403.

LIST OF ENROLLED STUDENTS

S.no	Register No	Name of the student	Department	Year/Sem
1	21800001	ADHI SANKAR.C	MCA	II/III
2	21800002	AJITHKUMAR.S	MCA	II/III
3	21800003	AKKASH.S	MCA	II/III
4	21800004	ARUN KUMAR.M	MCA	II/III
5	21800005	ARUN.V	MCA	II/III
6	21800006	ARUNA.G	MCA	II/III
7	21800007	BHAVANI.R	MCA	II/III
8	21800008	BOOBALAN.P	MCA	II/III
9	21800009	BREMKANNA.M	MCA	II/III
10	21800010	BUVANESHRAJ.M	MCA	II/III
11	21800011	DINAKARAN.M	MCA	II/III
12	21800012	DINESH.S	MCA	II/III
13	21800013	GOKUL.K	MCA	II/III
14	21800014	GOKULNATH.P	MCA	II/III
15	21800015	GOPINATH.S	MCA	II/III
16	21800016	HARIHARAN.M	MCA	II/III
17	21800017	KALAIMATHI.G	MCA	II/III
18	21800018	KARTHIKEYAN.M	MCA	II/III
19	21800019	KIRUTHIGA.M	MCA	II/III
20	21800020	KOWSALYA.L	MCA	II/III
21	21800021	LAKSHMINARAYANAN.V	MCA	II/III
22	21800022	LOKESH.R	MCA	II/III
23	21800023	MANI BHARATHI.L	MCA	II/III
24	21800024	MANIBALAN.M	MCA	II/III
25	21800025	MATHESH.S	MCA	II/III
26	21800026	MURALIDHARAN.M	MCA	II/III
27	21800027	NASREEN.S	MCA	II/III
28	21800028	NIRMAL KUMAR.V	MCA	II/III

Dr. S. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
MISTE, FIIVE, MCSI, MISTE
PRINCIPAL
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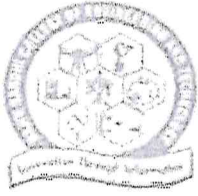(Accredited with 'A' Grade by NAAC)
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29	21800029	RAJAVEL.P	MCA	II/III
30	21800030	RIAZUDEEN.K	MCA	II/III
31	21800031	SANTHINI.N	MCA	II/III
32	21800032	SANTHIYA.M	MCA	II/III
33	21800034	SHIEK SHAMS NUSARAT.N	MCA	II/III
34	21800035	SRI UBATHIYA.R	MCA	II/III
35	21800036	SUBHAM JAISINGH SINGH.J	MCA	II/III
36	21800037	SUGHANTHAN. A. K	MCA	II/III
37	21800038	VISHALEESWARAN.A	MCA	II/III
38	21800039	YOGESHWAR.S	MCA	II/III
39	22800001	ABINESH R	MCA	I/I
40	22800002	ABIRAMI S	MCA	I/I
41	22800003	ABIRAMY R	MCA	I/I
42	22800004	AGASH T	MCA	I/I
43	22800005	AMEGHA P	MCA	I/I
44	22800006	ANJALI MAHAPATRA S	MCA	I/I
45	22800007	ARUN DIWAGAR R	MCA	I/I
46	22800008	ARUNADEVI D	MCA	I/I
47	22800009	BARATHAN P	MCA	I/I
48	22800010	DHAMOTHARAN M	MCA	I/I
49	22800011	DINESH KUMAR P	MCA	I/I
50	22800012	GAYATHRI P	MCA	I/I
51	22800013	HEMAMALINI I	MCA	I/I
52	22800014	ISWARIYA N	MCA	I/I
53	22800015	JUSTIN S	MCA	I/I
54	22800016	KANNAN S	MCA	I/I
55	22800017	KOWSALYA G	MCA	I/I
56	22800018	LOKESHWARAN M	MCA	I/I
57	22800019	MANIKANDAN B	MCA	I/I
58	22800020	MOHAMMED SHAMEER S	MCA	I/I
59	22800021	NOUSATH ALI L	MCA	I/I
60	22800022	PRABAGARAN K	MCA	I/I

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61	22800023	PRADEESHA G	MCA	I/I
62	22800024	SABETHA G	MCA	I/I
63	22800025	SANGAVI S	MCA	I/I
64	22800026	SARNYA L	MCA	I/I
65	22800027	SELVAPRIYA R	MCA	I/I
66	22800028	SETHUPATHY L	MCA	I/I
67	22800029	THAMILARASAN V	MCA	I/I
68	22800030	THARANI A	MCA	I/I
69	22800031	VIGNESHKUMAR V	MCA	I/I
70	22800032	VINNARASI A	MCA	I/I
71	22800033	YADHAVAN S	MCA	I/I

Event Coordinator

Head of the Departme

Dr. E. VIJAYAKRISHNA RAPAKA
B.Tech. (Mech.), M.Tech.(Energy), Ph.D. (IIT Madras)
M.I.S.T.E., F.I.I.P.E., M.C.S.I M.C.i.i.,
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RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS
Workshop Feedback Form
Big Data Management and Analysis
A.Y:2022-23

Participant Information:

1. Name: _____
2. Register No._____
3. Year / Sem: _____
Department: _____

1. How would you rate your overall satisfaction with the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

3. Were the topics covered relevant to your needs?

a. Yes b. No c. Partially

4. How useful did you find the hands-on sessions?

a. Very Useful b. Useful c. Somewhat Useful d. Not Useful

5. Was there enough time allocated for hands-on practice?

a. Yes b. No

6. How would you rate the trainers' expertise?

a. Excellent b. Very Good c. Good d. Fair e. Poor

7. How approachable and helpful were the trainers?

a. Excellent b. Very Good c. Good d. Fair e. Poor

8. How would you rate the organization of the workshop (venue, schedule, materials)?

a. Excellent b. Very Good c. Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a.Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? _____

Signature of the Student

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER APPLICATIONS
Workshop Feedback Form
Big Data Management and Analysis
A.Y:2022-23

Participant Information:
1. Name: _BREMKANNA. M_
2. Register No. _21800009_
3. Year / Sem: _II / III_
Department: _MCA_

1. How would you rate your overall satisfaction with the workshop?

a. Excellent b. Very Good c. Good d. Fair e. Poor

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a. Excellent b. Very Good c. Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a. Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? _R Programming_

Signature of the Student

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
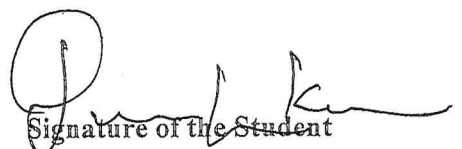## DEPARTMENT OF COMPUTER APPLICATIONS
Workshop Feedback Form
Big Data Management and Analysis
A.Y:2022-23

Participant Information:
1. Name: DINESH KUMAR P
2. Register No. 228000011
3. Year / Sem: I/I
Department: MCA

1. How would you rate your overall satisfaction with the workshop?

✓a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

a. Excellent b. ✓Very Good c. Good d. Fair e. Poor

3. Were the topics covered relevant to your needs?

a. ✓Yes b. No c. Partially

4. How useful did you find the hands-on sessions?

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6. How would you rate the trainers' expertise?

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7. How approachable and helpful were the trainers?

a. Excellent b. ✓Very Good c. Good d. Fair e. Poor

8. How would you rate the organization of the workshop (venue, schedule, materials)?

a. Excellent b. Very Good c. ✓Good d. Fair e. Poor

9. Do you feel confident in applying the skills learned during the workshop?

a. ✓Yes b. No c. Partially

10. What topics would you like to see covered in future workshops? _R programming_

Signature of the Student

RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY
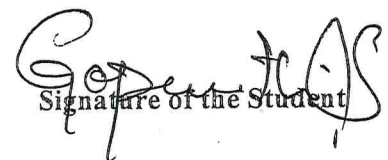## DEPARTMENT OF COMPUTER APPLICATIONS
Workshop Feedback Form
Big Data Management and Analysis
A.Y:2022-23

Participant Information:
1. Name: _Gopinath . S_
2. Register No. _2 8 00015_
3. Year / Sem: _II / III_
Department: _MCA_

1. How would you rate your overall satisfaction with the workshop?

✓a. Excellent b. Very Good c. Good d. Fair e. Poor

2. How would you rate the quality of the content covered in the workshop?

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10. What topics would you like to see covered in future workshops? _Machine laig_

Signature of the Student