

**DRK INSTITUTE OF SCIENCE & TECHNOLOGY**  
BOWRAMPET (V), VIA AIRFORCE ACADEMY, HYDERABAD-500043  
Mobile: +91-9000711899, +91-8790711899, FAX: 08418-242522, Website: [www.drkist.edu.in](http://www.drkist.edu.in)  
(Approved by AICTE, Affiliated to JNTUH)

### List of Certificate/ Add-on Programs

Academic Year: 2020-21

S.No	Name of the Program	Duration of Course	No. of Participants
1	A Two Weeks Certification Course on 'Industrial Automation with PLC and SCADA	01/02/2021-13/02/21	40
2	A Two Weeks Certification Course on AI and Deep Learning for Electronics Engineers	07/12/20-19/12/20	78
3	A Two Weeks Certification Course on Data Science and Analytics	23/11/20-03/12/20	322
4	A Two Weeks Certification Course on Integrated Marketing Communication	02-11-2020-12/11/20	90

IQAC



*Lavie*  
**PRINCIPAL**

*Principals*  
**PRINCIPAL**  
**DRK Institute of Science & Technology**  
Bowrampet, Quthubullapur, Hyderabad-500 043.



Ref .No: DRKIST/EEE/AOP/2020-21/01

Date: 25/01/2021

## CIRCULAR

Department of EEE organizing **A Two Weeks Certification Course on 'Industrial Automation with PLC and SCADA'** for third year and final year students of EEE. Interested students can enroll their name to B. CHANDRA SHEKAR REDDY, on or before **31/01/2021**. Certificate will be issued to the students after successful completion of the course. The details contents of the course and other information is attached herewith.

S.no	Name of the course	Date of commencement	Venue
1	A Two Weeks Certification Course on 'Industrial Automation with PLC and SCADA'	01/02/2021	Seminar Hall

*Srinivas*  
HoD

Copy to

1. Principal.
2. Office Room.
3. Notice Board.
4. Head of CSE Dept.
5. Head of ECE Dept.
6. Head of Mech Dept.
7. Head of MBA Dept.



*Linn*  
PRINCIPAL

PRINCIPAL  
DRK Institute of Science & Technology  
Bowrampet, Outisudlapur, Hyderabad-500 043.

## ABOUT THE DRKIST

The DRK Institute of Science and Technology's journey of success began in 2004 under the visionary leadership of Mr. D.B. Chandra Sekhar Rao. He founded the institute in honor of his late father, Sri Dasari Rama Kotaiah Garu. Mr. D.B. Chandra Sekhar Rao, a distinguished and successful entrepreneur, established the institute with an unwavering commitment to providing high-quality education. His vision was to create a leading institution that would contribute to the nation's economic and industrial growth. DRK Institute of Science and Technology is part of the DRK Educational Society, which has made significant investments in infrastructure, academic resources, and career development opportunities for its students. The institute dedicates itself to cultivating a dynamic learning environment that enhances its students' conceptual and technical skills, equipping them for the challenges of the modern world.

## ABOUT THE EEE DEPARTMENT

The department of Electrical and Electronics Engineering was established in the year 2004. It offers UG with intake of 30 students. The students are offered with innovative workshops, guest lectures informative industrial visits etc. on a regular basis, to keep them updated with the latest trends in electrical and electronics engineering. Well-equipped labs and sound academic record faculty are provided to make the students feel the greatness of Electrical Engineering. DRK values the importance of this stream, and honors it by providing the course.

## About the Certificate Programme

PLC and SCADA systems are essential components of modern industrial automation. In today's fast-paced industrial landscape, the ability to distinguish between PLC and SCADA is vital to ensure optimized production and efficient operations. PLCs bring precision control to critical processes, while SCADA empowers real-time decision-making data visualization and decision-making.

## TOPICS COVERED

- Industrial Automation Tools
- Programmable logic Controller
- SCADA
- Automation through SCADA and PLC
- Artificial Neural Network
- Distributed Control System
- Data Management and Processing
- Data Presentation, Master control
- Control and Monitoring
- Reporting and analysis.

A 10 DAY CERTIFICATE PROGRAMME

ON

# INDUSTRIAL AUTOMATION WITH PLC AND SCADA

FEB 1<sup>ST</sup>  
TO  
FEB 13<sup>TH</sup> 2021

Organized by EEE Department



DRK INSTITUTE OF SCIENCE & TECHNOLOGY  
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Chief Patron  
D.B.Chandra Shekara Rao  
Chairman

Patrons

Sri. D. Santosh  
Secretary

Sri. D. Sriram  
Treasurer

Dr. K.VENKATA SUBBAIAH  
Principal

Coordinator

B.CANDRA SHEKAR REDDY  
Assistant Professor, EEE

Dr. P.SRINIVAS  
Head

Address for communication

B.CANDRA SHEKAR REDDY  
Coordinator, EEE, Assistant Professor  
9908603701  
[chandrashekar23@gmail.com](mailto:chandrashekar23@gmail.com)

**Registration Details**

Last Date for  
Registration  
31st Jan 2021

*"Embrace  
automation and  
empower yourself  
to achieve greater  
things."*

**REGISTRATION FORM**

**A TWO WEEKS CERTIFICATE  
PROGRAMME**

*On*

**INDUSTRIAL AUTOMATION WITH  
PLC AND SCADA**

Name: Mr. /Ms.: \_\_\_\_\_

Reg .No: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Signature of  
Participant



## Department of Electrical and Electronics Engineering

**Course Name: - A Two Weeks Certification Course on ‘Industrial Automation with PLC and SCADA’**

S. No	Topics to be covered
1.	Day-1: Industrial Automation Tools
2.	Day-2: Programmable logic Controller
3.	Day-3: SCADA
4.	Day-4: Automation through SCADA and PLC
5.	Day-5: Artificial Neural Network
6.	Day-6: Distributed Control System
7.	Day-7: Data Management and Processing
8.	Day-8: Data Presentation, Master control
9.	Day-9: Master control
10.	Day-10: Control
11.	Day-11: Monitoring
12.	Day-12: Reporting and analysis.

*Chandrababu*  
COORDINATOR

*Somayaji*  
HOD

## Department of Electrical and Electronics Engineering

**Course Name: - A Two Weeks Certification Course on ‘Industrial Automation with PLC and SCADA’**

S. No	Contents	Dates
1.	Industrial Automation Tools Introduction about <ul style="list-style-type: none"><li>• SCADA</li><li>• PLC</li><li>• HMI</li><li>• ANN</li><li>• DCS</li><li>• Robotics</li></ul>	1/02/21
2.	Programmable logic Controller <ul style="list-style-type: none"><li>• processor unit</li><li>• memory</li><li>• power supply unit</li><li>• input/output interface unit</li><li>• Programming device.</li></ul>	2/02/21
3.	SCADA <ul style="list-style-type: none"><li>• Sensors and actuators.</li><li>• SCADA field controllers.</li><li>• SCADA supervisory computers</li><li>• HMI software</li><li>• Communication infrastructure</li></ul>	3/02/21
4.	Automation through SCADA and PLC <ul style="list-style-type: none"><li>• Controlling</li><li>• Monitoring</li><li>• optimizing</li></ul>	4/02/21
5.	<ul style="list-style-type: none"><li>• Artificial Neural Network</li><li>• neurons (nodes)</li><li>• weights</li><li>• activation functions</li><li>• back propagation</li><li>• optimization algorithms</li></ul>	5/02/21
6.	Distributed Control System <ul style="list-style-type: none"><li>• Architecture</li><li>• Communication system</li><li>• Human computer interaction</li><li>• Industrial process control</li><li>• DCS components</li></ul>	6/02/21
7.	Data Management and Processing <ul style="list-style-type: none"><li>• Data Security</li><li>• Data Governance</li><li>• Data Integration</li><li>• Master Data Management</li></ul>	8/02/21

**Data Modeling**

8.	Data Presentation, Master control: automates routing, notification, escalation, and approval of any forms-based process for faster turnaround.	9/02/21
9.	Master control: automates routing, notification, escalation, and approval of any forms-based process for faster turnaround.	10/02/21
10.	Control and Monitoring, Reporting and analysis. <ul style="list-style-type: none"><li>• Monitoring and evaluation: definitions.</li><li>• Theory of change.</li><li>• Performance management systems</li></ul>	11/02/21
11.	Control and Monitoring, Reporting and analysis. <ul style="list-style-type: none"><li>• Performance measurement.</li><li>• Performance indicators.</li><li>• Targets, baseline and data sources.</li><li>• Measuring results</li></ul>	12/02/21
12.	Reporting and analysis. <ul style="list-style-type: none"><li>• Theory of change.</li><li>• Performance management systems</li></ul>	13/02/21

*chandrasekhar*

**COORDINATOR**

*Srinivas*

**HOD**



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### Department of Electrical and Electronics Engineering

Name of the Course: A Two Weeks Certification Course on 'Industrial Automation with PLC and SCADA'

#### Registration Details

S. NO	NAME OF THE STUDENT	YEAR/BRANCH	SIGNATURE
1	P JAYA PRAKASH	III EEE	<i>Jaya Prakash</i>
2	MARA GANESH	III EEE	<i>M. Ganesh</i>
3	PULLURU VAMSHI KRISHNA	III EEE	<i>Vamshi Krishna</i>
4	AVITI PAVAN KUMAR	III EEE	<i>A.V. Pavan Kumar</i>
5	BANOTH MAHESH	III EEE	<i>Mahesh</i>
6	CHENNA SHIVA	III EEE	<i>Shiva</i>
7	CHIRRA ANIL	III EEE	<i>C. Anil</i>
8	GOELA DHANUSH YADAV	III EEE	<i>Dhanush</i>
9	KAVALI SOFIA SASTRY	III EEE	<i>Sofia</i>
10	KETHAVATH SAI RAM	III EEE	<i>Sai Ram</i>
11	MASI JAGADISH	III EEE	<i>Jagadish</i>
12	MIDDE LALITHA	III EEE	<i>Lalitha</i>
13	MUNNURU ABHISHEK	III EEE	<i>M. Abhishek</i>
14	MYLARAM BHAGESH	III EEE	<i>Bhagesh</i>
15	N SAI KRISHNA	III EEE	<i>Krishna</i>
16	NARAMMAGARI PARANJITH REDDY	III EEE	<i>N.P. Paranjith Reddy</i>
17	REDDIPALLI SAINATH	III EEE	<i>Sainath</i>
18	REDDY MALLA TONY AKHIL	III EEE	<i>R.T. Akhil</i>
19	S MUNI SWARAN	III EEE	<i>Swaran</i>
20	SABAVATH BABYSHARA	III EEE	<i>S.Babyshara</i>

21	SANTI VISHNU BAGATH	III EEE	S. V. Vishnu
22	VANTLA NARESH	III EEE	Naresh
23	YADARAM SRIKANTH	III EEE	Srikanth
24	SREEDEVI	III EEE	Sredevi
25	ARBIND GIRI	IV EEE	Giri
26	GORLE CHAITANYA	IV EEE	Chaitanya
27	KONUGONDA VARUN KUMAR	IV EEE	Varun Kumar
28	KUMBAM VINAY	IV EEE	Vinay
29	MITHIPATI SAI KRISHNA	IV EEE	R. Krishna
30	PENTA NAVEEN KUMAR	IV EEE	P.N. Kumar
31	ADELLI SAHITHI	IV EEE	A. Sahithi
32	ANKATHI PAVAN RAJU	IV EEE	Pavan Raju
33	AVOUSALI GANESH CHARRY	IV EEE	Ganesh
34	BODA SAI KUMAR	IV EEE	Sai Kumar
35	BOPPIDI ANUSHYA	IV EEE	B. Anushya
36	DILIP KUMAR YADAV	IV EEE	Dilip
37	G RAKSHITH	IV EEE	G Rakshith
38	KANDIKATLA VIVEK	IV EEE	Vivek
39	KUNIGORLA PAVAN KALYAN	IV EEE	Pavan
40	RAMAGIRI MADAVA	IV EEE	Madava

Chandrababu

COORDINATOR

Srinivas

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# Department of Electrical and Electronics Engineering

## ATTENDANCE SHEET

## **Name of the Course: A Two weeks Certification Course on “Industrial Automation with PLC and SCADA”**



36	DILIP KUMAR YADAV	P	P	P	P	P	P	P	P	P	P	P
37	G RAKSHITH	P	P	P	P	P	P	P	P	P	P	P
38	KANDIKATLA VIVEK	P	P	P	P	P	P	P	P	P	P	P
39	KUNTIGORLA PAVAN KALYAN	A	A	A	A	A	A	A	A	A	A	A
40	RAMAGIRI MADAVA	A	A	A	A	A	A	A	A	A	A	A

Chandrabhushan

COORDINATOR

Srinivas

HoD



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## Department of Electrical and Electronics Engineering PROGRAM REPORT

**Name of the Course:** A Two Weeks Certification Course on “Industrial Automation with PLC and SCADA”

**Date** : 1/02/2021 - 13/02/2021

**Event Coordinator :** Mr. B. CHANDRA SHEKAR REDDY, Assistant professor, Dept. Of EEE

**Number of students attended:** 38

**Venue** : Seminar Hall, DRK Institute of science and technology

**DRK Institute of science and technology** organized certificate program on “**Industrial Automation with PLC and SCADA**” for B-tech III year and IV year students.

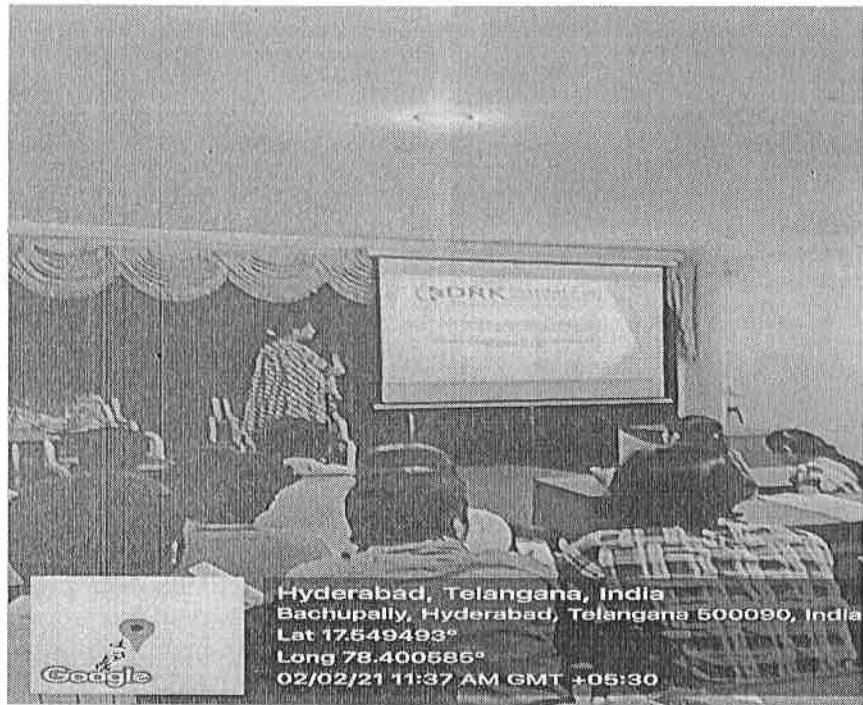
PLC and SCADA systems are essential components of modern industrial automation. They play a crucial role in controlling, monitoring and optimizing various processes in industries such as manufacturing, energy, and water management.

### **Objectives**

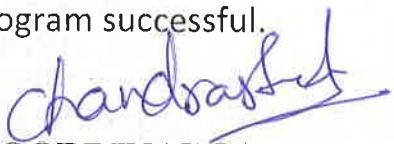
- To reduce the need for human workforce and cost.
- To improve efficiency and productivity.
- To ensure optimal output without compromising performance under disturbances.
- To automate image processing and artificial intelligence.
- To improve efficiency, accuracy, and speed in business processes.
- Eliminate the possibility of human error, saves time, and achieves higher performance.
- To improve product quality.

### **Learning Outcomes**

- Familiar with various automation technologies in Electrical engineering.
- Understand various automation tools and methods.
- Understand the principles of automation and the role of PLCs and SCADA systems.
- Develop proficiency in PLC programming using various languages.
- To design systems and products that transform our world.



The course is very useful to the students and their feedback is positive. The management and principal of DRK institute of Science and Technology thanked the participants for making the program successful.

  
COORDINATOR

  
HoD

19  
20



BOWRAMPET (V), VIA AIRFORCE ACADEMY, HYDERABAD – 500043

Course Title: Industrial Automation

Name: M. Sai Krishna

Program/Year: B.Tech / I<sup>v</sup>

**1. What is the primary purpose of a PLC?**

- a) To control machinery on factory assembly lines
- b) To control building management systems
- c) To control industrial processes
- d) All of the above

**2. What type of programming language is typically used to program a PLC?**

- a) C++
- b) Java
- c) Ladder Logic
- d) Python

**3. How many maximum input and output points does a high-end PLC have?**

- a) 8 input, 8 output
- b) 16 input, 16 output
- c) 32 input, 32 output
- d) 64 input, 64 output

**4. What type of power supply is typically used for a PLC?**

- a) AC
- ~~b) DC~~
- c) Both AC and DC
- d) Solar

**5. What is the main function of the CPU in a PLC?**

- a) To provide power to the PLC
- ~~b) To store the program~~
- c) To execute the program and control the input and output devices
- d) To communicate with other PLCs

**6. How does a PLC differ from a traditional hardwired control system?**

- ~~a) PLCs use software programming instead of physical wiring.~~
- b) PLCs can only be used in industrial applications.
- c) PLCs are more expensive than traditional hardwired control systems.
- d) PLCs are less reliable than traditional hardwired control systems.

**7. What is the function of the input/output (I/O) module in a PLC?**

- a) To provide power to the PLC
- b) To store the program
- ~~c) To interface with the input and output devices~~
- d) To communicate with other PLCs

**8. What is the function of a PLC's power supply?**

- a) To provide power to the PLC's CPU
- b) To provide power to the PLC's input/output modules
- c) To provide power to the PLC's communication interfaces

d) All of the above

**9. What is the function of a PLC's communication interface?**

- a) To communicate with other PLC
- b) To communicate with an HMI or SCADA system
- c) To communicate with other devices or systems
- d) All of the above

**10. What is a PLC?**

- a) A type of controller used for industrial automation
- b) A type of robot used for industrial automation
- c) A type of sensor used for industrial automation
- d) A type of software used for industrial automation

**11. What are the main components of a PLC system?**

- a) CPU, memory, and input/output modules
- b) Sensors, actuators, and control valves
- c) Motors, gears, and bearings
- d) Pneumatics, hydraulics, and electronics

**12. What are the inputs and outputs in a PLC system?**

- a) Sensors and actuators
- b) Motors and gears
- c) Valves and pumps
- d) Programs and data

**13. What are the advantages of using a PLC in industrial automation?**

- a) Cost-effective, reliable, and flexible

- b) High speed, high accuracy, and low maintenance
- c) Easy to program, easy to install, and easy to use
- d) All of the above

**14. How do a PLC process input and output signals?**

- a) By using a central processing unit (CPU)
- b) By using a microcontroller
- c) By using a microprocessor
- d) By using a memory chip

**15. What is the function of a PLC's IoT (Internet of Things) capability?**

- a) To connect the PLC to other IoT devices
- b) To collect and process data from IoT devices
- c) To send and receive commands from IoT devices
- d) All of the above

**16. What is the function of a PLC's Virtualization?**

- a) To run multiple virtual machines on a single PLC
- b) To run multiple control programs on a single PLC
- c) To run multiple operating systems on a single PLC
- d) All of the above

**17. What is the function of a PLC's Cybersecurity?**

- a) To protect the PLC from cyberattacks
- b) To protect the PLC's control program from cyberattacks
- c) To protect the PLC's data from cyberattacks
- d) All of the above

**18. What is the function of a PLC's Event Logging?**

- a) To record events from the industrial process
- b) To store events for later analysis
- c) To trigger an alarm in case of a specific event
- d) All of the above

**19. What is the function of a PLC's Safety Input/Output?**

- a) To monitor the status of safety devices
- b) To shut down the process in case of a safety issue
- c) To trigger an alarm in case of a safety issue
- d) All of the above

**20. What are the inputs in a PLC system?**

- a) Sensors
- b) Motors
- c) Valves
- d) Programs



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## Department of Electrical and Electronics Engineering

Name of the Course: A Two Weeks Certification Course on "Industrial Automation with PLC and SCADA"

### GRADE SHEET

S. NO	NAME OF THE STUDENT	YEAR/BRANCH	GRADE
1	P JAYA PRAKASH	III EEE	A
2	MARA GANESH	III EEE	A
3	PULLURU VAMSHI KRISHNA	III EEE	A
4	AVITI PAVAN KUMAR	III EEE	A
5	BANOTH MAHESH	III EEE	B
6	CHENNA SHIVA	III EEE	B
7	CHIRRA ANIL	III EEE	A
8	GOLLA DHANUSH YADAV	III EEE	A
9	KAVALI SOFIA SASTRY	III EEE	A
10	KETHAVATH SAI RAM	III EEE	A
11	MASI JAGADISH	III EEE	A
12	MIDDE LALITHA	III EEE	A
13	MUNNURU ABHISHEK	III EEE	A
14	MYLARAM BHAGESH	III EEE	A
15	N SAI KRISHNA	III EEE	B
16	NARAMMAGARI PARANJITH REDDY	III EEE	B
17	REDDIPALLI SAINATH	III EEE	A
18	REDDYMALLA TONY AKHIL	III EEE	A
19	S MUNI SWARAN	III EEE	A
20	SABAVATH BABYSHARA	III EEE	A
21	SANTI VISHNU BAGATHI	III EEE	B
22	VANTLA NARESH	III EEE	A
23	YADARAM SRIKANTH	III EEE	A
24	SREEDEVI	III EEE	A
25	ARBIND GIRI	IV EEE	A
26	GORLE CHAITANYA	IV EEE	A
27	KONUGONDA VARUN KUMAR	IV EEE	A
28	KUMBAM VINAY	IV EEE	A
29	MITHIPATI SAI KRISHNA	IV EEE	A
30	PENTA NAVEEN KUMAR	IV EEE	B
31	ADELLI SAHITHI	IV EEE	A
32	ANKATHI PAVAN RAJU	IV EEE	B

33	AVOUSALI GANESH CHARRY	IV EEE	A
34	BODA SAI KUMAR	IV EEE	B
35	BOPPIDI ANUSHA	IV EEE	A
36	DILIP KUMAR YADAV	IV EEE	B
37	G RAKSHITH	IV EEE	A
38	KANDIKATLA VIVEK	IV EEE	A
39	KUNTIGORLA PAVAN KALYAN	IV EEE	Ab
40	RAMAGIRI MADAVA	IV EEE	Ab

*Chandrally*  
COORDINATOR

*Sriniv*,  
HoD



BOWRAMPET (V), VIA AIRFORCE ACADEMY, HYDERABAD – 500043

## PARTCIPATION CERTIFICATE

THIS IS TO CERTIFY THAT

Mr. /Mrs. /Ms. U.PRAVEEN KUMAR (IV YEAR EEE) has  
Participated in a certification course on  
**" INDUSTRIAL AUTOMATION WITH PLC AND SCADA"**

Organized by the Department of Electrical and Electronics Engineering from 01/02/2021 TO 13/02/2021.

A handwritten signature in black ink, appearing to read "chandrashankar".  
Coordinator

A handwritten signature in black ink, appearing to read "S. Srinivas".  
HoD

A handwritten signature in black ink, appearing to read "Dr. U. Praveen Kumar".  
Principal



BOWRAMPET (V), VIA AIRFORCE ACADEMY, HYDERABAD – 500043

## PARTCIPATION CERTIFICATE

THIS IS TO CERTIFY THAT

Mr. /Mrs. /Ms. **BOPPIDI ANUSHA (IV YEAR EEE)** has  
Participated in a certification course on  
**"INDUSTRIAL AUTOMATION WITH PLC AND SCADA"**

Organized by the Department of Electrical and Electronics Engineering from 01/02/2021 TO 13/02/2021.

A handwritten signature in black ink, appearing to read "Chandra Sekhar".  
coordinator

A handwritten signature in black ink, appearing to read "S. Srinivas".  
HoD

A handwritten signature in black ink, appearing to read "Dr. L. Venkateswaran".  
principal



## Department of Electrical and Electronics Engineering

### FEEDBACK FORM OF CERTIFICATE COURSE

Course Title: Industrial Automation With  
PLC & SCADA

Course Code: 2021EEE01

Name of Participant: S. MuniSwaran

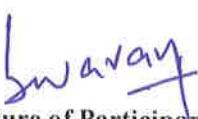
Year/ Sem :

Courses Duration:

Two Weeks

II

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topic	✓			
Duration of course was appropriate	✓			
Course met the overall expectations		✓		
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained	✓			
Queries and doubts were cleared by faculty	✓			

  
Signature of Participant



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## Department of Electrical and Electronics Engineering

### FEEDBACK FORM OF CERTIFICATE COURSE

Course Title: Industrial Automation With  
PLC & SCADA

Course Code: 2021EE001

Name of Participant: A. SAHITHI

Year/ Sem :

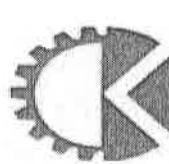
Courses Duration:

TWO WEEKS

IV

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topic			✓	
Duration of course was appropriate			✓	
Course met the overall expectations	✓			
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents	✓			
The content was clearly explained		✓		
Queries and doubts were cleared by faculty	✓			

Signature of Participant



## Department of Electrical and Electronics Engineering

### FEEDBACK FORM OF CERTIFICATE COURSE

Course Title:

Industrial Automation with PLC  
and SCADA

Course Code: 2021EE01

Name of Participant:

m. Ganesh

Year/ Sem : 3rd/I Sem

Courses Duration:

TWO weeks

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topic	✓			
Duration of course was appropriate	✓			
Course met the overall expectations	✓			
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents	✓			
The content was clearly explained		✓		
Queries and doubts were cleared by faculty		✓		

Signature of Participant



BOWRAMPET (V), VIA AIRFORCE ACADEMY, HYDERABAD – 500043

Mobile: +91-9000711899, +91-8790711899, Website: www.drkist.edu.in

## Department of Electrical and Electronics Engineering

### FEEDBACK FORM OF CERTIFICATE COURSE

Course Title: Industrial Automation with PLC & SCADA Course Code: 2021EE01  
Name of Participant: G. Rakshith Year/ Sem : IV  
Courses Duration: TWO WEEKS

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient			✓	
The course gives fair exposure to industry-based topic		✓		
Duration of course was appropriate		✓		
Course met the overall expectations	✓			
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents	✓			
The content was clearly explained	✓			
Queries and doubts were cleared by faculty	✓			

G. Rakshith  
Signature of Participant



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Medchal, Hyd-500043)

## Department of Electronics and Communication Engineering

Ref.NO: DRKIST/ECE/AOP/2020-21/01

Date:20/11/2020

### CIRCULAR

Department of ECE organizing a “A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers” for ECE III & IV Year students. Interested students can enrol their names to Mr. V. SAMBASIVA RAO (Program Coordinator) on or before 05/12/2020. Certificates will be issued to the students after successful completion of the course. The detail contents of the course and other information is attached herewith.

S.NO	Name of the Course	Date of Commencement	Venue
1	A Two-Week Certification course on AI and Deep Learning for Electronics Engineers	07/12/2020	Seminar Hall, Room No:003

Copy to



1. Office Room.
2. Exam Cell.
3. Library.
4. Head of CSE Dept.
5. Head of CSE(AI&ML) Dept.
6. Head of CSE(DS) Dept.
7. Head of EEE Dept.
8. Head of Mech Dept.
9. Head of S&H Dept.
10. Head of MBA Dept.

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DRK Institute of Science & Technology  
Bowrampet, Quthbullapur, Hyderabad-500 043.

## **ABOUT THE DRKIST**

The DRK Institute of Science and Technology's journey of success began in 2004 under the visionary leadership of Mr. D.B. Chandra Sekhar Rao, who founded the institute in honor of his late father, Sri Dasari Rama Kotaiah Garu. Mr. D.B. Chandra Sekhar Rao, a distinguished entrepreneur, established the institute with a commitment to high-quality education, aiming to contribute to the nation's economic and industrial growth. As part of the DRK Educational Society, the institute has invested significantly in infrastructure, academic resources, and career development, fostering a dynamic learning environment that enhances students' conceptual and technical skills for modern challenges.

## **ABOUT THE ECE DEPARTMENT**

The department of Electronics and Communication Engineering was established in 2006. The students are offered with innovative workshops, guest lectures informative industrial visits etc. on a regular basis, to keep them updated with the latest trends in Electronics and Communication Engineering. Well- equipped labs and sound academic record faculty are provided to make the students feel the greatness of Electronics and communication Engineering. DRK values the importance of this stream, and honors it by providing the course.

## **ABOUT THE CERTIFICATE PROGRAM**

Two-week certification course on AI and Deep Learning for Electronics Engineers covers key concepts like neural networks machine learning algorithms, and their applications in electronics engineering, providing hands-on experience with tools and frameworks.

### **TOPICS TO BE COVERED**

- Introduction to AI, Deep Learning and Embedded Systems
- Microcontrollers for AI Applications
- Sensors and Actuators in AI Systems
- Communication Protocols for AI Systems
- IoT Platforms for AI Applications
- Basic AI Algorithms and Models
- Advanced Deep Learning Techniques
- AI in Embedded Systems
- Integrating AI with IoT
- Real-world Case Studies
- Final Project Work
- Final Project Presentation and Review

## **A TWO WEEK CERTIFICATION COURSE ON**

**AI AND DEEP LEARNING FOR  
ELECTRONICS ENGINEERS**

**7<sup>TH</sup> DECEMBER 2020 TO  
19<sup>TH</sup> DECEMBER 2020**

**Organized  
by  
ECE Department**



BOWRAMPET (V), VIA AIRFORCE ACADEMY,  
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Website: [www.drkist.edu.in](http://www.drkist.edu.in) (Approved by AICTE,  
Affiliated to JNTUH)



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## Department of Electronics and Communication Engineering

**Course Title: “A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers”**

S.NO		Topics to be covered
1.	Week 1: Fundamentals and Core Techniques	Day 1: Introduction to AI, Deep Learning and Embedded Systems
2.		Day 2: Microcontrollers for AI Applications
3.		Day 3: Sensors and Actuators in AI Systems
4.		Day 4: Communication Protocols for AI Systems
5.		Day 5: IoT Platforms for AI Applications
6.		Day 6: Basic AI Algorithms and Models
7.		Day 7: Advanced Deep Learning Techniques
8.		Day 8: AI in Embedded Systems
9.		Day 9: Integrating AI with IoT
10.		Day 10: Real-world Case Studies
11.		Day 11: Final Project Work
12.		Day 12: Final Project Presentation and Review

Program Coordinator

ECE HoD

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Bowrampet, Quthbullapur,  
Hyderabad - 500 043,



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## Department of Electronics and Communication Engineering

Course Name: “A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers”

S. No	Topics to be covered	Date
1.	Introduction to AI and Deep Learning <ul style="list-style-type: none"><li>• Overview of AI and its significance in electronics</li><li>• Introduction to deep learning and neural networks</li><li>• Applications of AI in embedded systems and IoT</li></ul>	07/12/2020
2.	Microcontrollers for AI Applications <ul style="list-style-type: none"><li>• Overview of microcontroller architecture</li><li>• Programming microcontrollers for AI applications</li><li>• Hands-on session: Basic microcontroller programming</li></ul>	08/12/2020
3.	Sensors and Actuators in AI Systems <ul style="list-style-type: none"><li>• Types of sensors and their applications in AI systems</li><li>• Working with actuators in embedded systems</li><li>• Hands-on session: Integrating sensors and actuators</li></ul>	09/12/2020
4.	Communication Protocols for AI Systems <ul style="list-style-type: none"><li>• Overview of UART, SPI, and I2C protocols</li><li>• Implementing communication protocols in AI systems</li><li>• Hands-on session: Communication between devices</li></ul>	10/12/2020
5.	IoT Platforms for AI Applications <ul style="list-style-type: none"><li>• Introduction to popular IoT platforms (Arduino, Raspberry Pi, ESP8266)</li><li>• Setting up IoT platforms for AI applications</li><li>• Hands-on session: Basic IoT platform</li></ul>	11/12/2020
6.	Basic AI Algorithms and Models <ul style="list-style-type: none"><li>• Introduction to machine learning algorithms</li><li>• Understanding neural networks and deep learning models</li><li>• Hands-on session: Implementing basic AI algorithms</li></ul>	12/12/2020

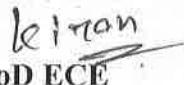


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## Department of Electronics and Communication Engineering

7.	Advanced Deep Learning Techniques <ul style="list-style-type: none"><li>• Convolutional neural networks (CNNs)</li><li>• Recurrent neural networks (RNNs)</li><li>• Hands-on session: Implementing CNNs and RNNs</li></ul>	14/12/2020
8.	AI-in Embedded Systems <ul style="list-style-type: none"><li>• Challenges and solutions for AI in embedded systems</li><li>• Power consumption and optimization techniques</li><li>• Hands-on session: AI model deployment on microcontrollers</li></ul>	15/12/2020
9.	Integrating AI with IoT <ul style="list-style-type: none"><li>• AI-driven IoT applications</li><li>• Data collection and processing in IoT systems</li><li>• Hands-on session: Building an AI-driven IoT system</li></ul>	16/12/2020
10.	Real-world Case Studies <ul style="list-style-type: none"><li>• Case studies of AI and deep learning in electronics engineering</li><li>• Lessons learned and best practices</li><li>• Group discussion and analysis</li></ul>	17/12/2020
11.	Final Project Work <ul style="list-style-type: none"><li>• Project planning and development</li><li>• Hands-on session: Working on final project</li><li>• Instructor guidance and support</li></ul>	18/12/2020
12.	Final Project Presentation and Review <ul style="list-style-type: none"><li>• Presentation of final projects by participants</li><li>• Review and feedback from instructors</li><li>• Course wrap-up and discussion</li></ul>	19/12/2020

  
Program Coordinator

  
HoD ECE



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Medchal, Hyd-500043)

## Department of Electronics and Communication Engineering

Certificate Course on “A Two-Week Certification course on AI and Deep Learning for Electronics Engineers”

### Signature Sheet

S. No	Name of the student	Year	Signature
1	BUCHHAGARI RAJESHWAR REDDY	IV BTECH	Rajeshwar
2	D NIRMALA KUMARI	IV BTECH	Kumari
3	ADAPA LALOO PAVAN	IV BTECH	A. Pavan
4	AENUGU NIHITHA	IV BTECH	A. Nikitha
5	AKSHITHA GADDAMPALLI	IV BTECH	Akshitha
6	AMANCHI SUSHMARAYUDU	IV BTECH	sushmarayudu
7	AMAR MANE	IV BTECH	Amar
8	ARRABOTHU DHATHA PRADHYUMNA REDDY	IV BTECH	A.D.P Reddy
9	AVUSALA RAMCHANDRA	IV BTECH	Ram
10	BADDAM NAVEENA	IV BTECH	B. Naveena
11	BADDAM SWATHI	IV BTECH	Swathi
12	BETHI SAI KIRAN	IV BTECH	Kiran
13	BHOGADI RANGA SUPRAJA	IV BTECH	Supraja
14	BUDDARAJU SAI KARTHIK VARMA	IV BTECH	B. Varma
15	CHADUVULA MOKSHITA	IV BTECH	Mokshita
16	CHARAN SAI TEJA DHAYAPULE	IV BTECH	Tejal
17	DAGADA PRIYANKA	IV BTECH	D. Priyanka
18	DANDU ALEKHYA	IV BTECH	Alekhya
19	DODDA SWAPNA	IV BTECH	Swapna
20	DOWLAGHAR RAKSHITH	IV BTECH	Rakshith



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Medchal, Hyd-500043)

### Department of Electronics and Communication Engineering

21	DUMPALA SHASHANK REDDY	IV BTECH	<u>DSR</u>
22	DUSA INDRAJA	IV BTECH	<u>Indraja</u>
23	EDDULA SAHITHI	IV BTECH	<u>Sahithi</u>
24	ERRAPOTHU LAXMAN TEJA	IV BTECH	<u>Laxman</u>
25	GUGGILAPU MANIKANTA	IV BTECH	<u>Manikanta</u>
26	GANDIKOTA SAI GEETHANJALI	IV BTECH	<u>Geethanjali</u>
27	GANGINENI NAGAVALLI	IV BTECH	<u>Nagavalli</u>
28	GEEREDDY MANVIKA	IV BTECH	<u>Manvika</u>
29	GUGGILLA NIHITHA	IV BTECH	<u>Nihita</u>
30	HARI VISHNU SAI	IV BTECH	<u>Vishnu</u>
31	JILLA SOWMYA	IV BTECH	<u>Soumya</u>
32	K NIKESH REDDY	IV BTECH	<u>K Reddy</u>
33	KALUVALA SHRAVANI	IV BTECH	<u>Shravani</u>
34	KAMIDI RAJASHEKHAR REDDY	IV BTECH	<u>Raj Reddy</u>
35	KAMMAMPATI MANISHA	IV BTECH	<u>Manisha</u>
36	KANDATI BHARATHRAJ REDDY	IV BTECH	<u>Bharath</u>
37	KATURI MANASA	IV BTECH	<u>Manasa</u>
38	KAVURI SATYANARAYANA RAO	IV BTECH	<u>K. S Rao</u>
39	NELLOORI NAGASARASWATHI	IV BTECH	<u>N. N. Swathi</u>
40	MAHAREDDY RISHI REDDY	IV BTECH	<u>M. Rishi Reddy</u>
41	MENDU SAINADH REDDY	IV BTECH	<u>Sainadh</u>
42	PRAGADA SAI KUMAR	IV BTECH	<u>Sai Kumar</u>
43	T.MRUDULA	IV BTECH	<u>Mrudula ..</u>
44	VELAGA SURYA TEJA	IV BTECH	<u>Surya Teja</u>
45	KONDA SRI VIDYA	IV BTECH	<u>Vidya</u>
46	KOSURU HARSHA VARDHAN	IV BTECH	<u>K. Vardhan</u>



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Medchal, Hyd-500043)

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47	KOUTARAPU ABHILASH	IV BTECH	<i>k.abhilash</i>
48	KUNDATIRI JAGADEESH	IV BTECH	<i>Jagadeesh</i>
49	LATTUPALLI VANDANA	IV BTECH	<i>L.Vandana</i>
50	MAINAMPATI VENKATA VANI	IV BTECH	<i>Vani</i>
51	A DHEERAJ KUMAR	III BTECH	<i>Dheeraj</i>
52	ARJA LAVANYA	III BTECH	<i>Lavanya</i>
53	BADAM AKHIL	III BTECH	<i>Akhil</i>
54	BANDARU HARIPRIYA	III BTECH	<i>Haripriya</i>
55	BATHULA SANNIKUMAR	III BTECH	<i>Sannikumar</i>
56	BETHALA SNEHA	III BTECH	<i>Sneha</i>
57	BHARADWAJ VIPPAN GOUD	III BTECH	<i>Vippar</i>
58	BHUMIREDDY VYDEHI	III BTECH	<i>Vydehi</i>
59	BITLA PRATHIKSHA	III BTECH	<i>B.Prathiksha</i>
60	BUDHASHAN SOWMYA	III BTECH	<i>Sowmya</i>
61	BUJANGAM SAILAJA	III BTECH	<i>Sailaja</i>
62	DASARI DEEKSHITHA	III BTECH	<i>Deekshitha</i>
63	EERUGADINLA PRASHANTH	III BTECH	<i>Prashanth</i>
64	GONGATI VENKATA PRAMOD KUMAR REDDY	III BTECH	<i>Pramod</i>
65	GOTTIMUKKALA HARSHINI SAI	III BTECH	<i>Harshini</i>
66	KASULA VARSHITH REDDY	III BTECH	<i>Varshith</i>
67	KATARI PRABHU KIRAN	III BTECH	<i>PrabhuKiran</i>
68	MADDOJU SATISH KUMAR	III BTECH	<i>M.Satish Kumar</i>
69	NAYUDU SHIVA KRISHNA	III BTECH	<i>Krishna</i>
70	PATLOLLA SRIKAR KRISHNA REDDY	III BTECH	<i>PSKR</i>
71	PEMMADI ANUSHYA	III BTECH	<i>Anusha.</i>
72	PILLI DHANA KUMAR	III BTECH	<i>Dhana</i>



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Medchal, Hyd-500043)

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73	PUSHADAPU SRUTHI	III BTECH	<u>sruthi</u>
74	RAPARTHI SAI SUNDHAR	III BTECH	<u>Sundhar</u>
75	REDDY JAHNAVI	III BTECH	<u>Jahnavi</u>
76	ROHAN BOHRA	III BTECH	<u>Bohra</u>
77	SHIVAM RAWAT	III BTECH	<u>Rawat</u>
78	MANISRI SANTRA	III BTECH	<u>M Santra</u>

A handwritten signature in black ink, appearing to read "Santra".  
Program Coordinator

A handwritten signature in black ink, appearing to read "Rohan".  
HoD of ECE Department



## Department of Electronics and Communication Engineering

**Report on Certificate Course on “A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers”**

1. Title of course	: A Two-Week Certification course on AI and Deep Learning for Electronics Engineers
2. Course code	: 2020ECE01
3. Course Date	: 07/12/2020
4. Venue	: Seminar Hall, Room No-003
5. Name of Program Coordinator	: Mr. V. SAMBASIVA RAO
6. Number of Students	: 78

**DRK Institute of Science and Technology** organized A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers for BTech III- year and IV-year students.

AI and Deep Learning for Electronics Engineers covers key concepts like neural networks machine learning algorithms, and their applications in electronics engineering, providing hands-on experience with tools and frameworks.

### 7. Objective

- Hands-on training on designing and implementing embedded systems with a focus on Internet of Things (IoT) applications.
- Introduce Fundamental Concepts
- Hands-on Experience with AI Frameworks
- Explore AI in Signal Processing
- Integration of AI with Embedded Systems
- Develop Proficiency in AI-Driven Automation
- Promote Innovation and Ethical Practice

### 8. Outcomes

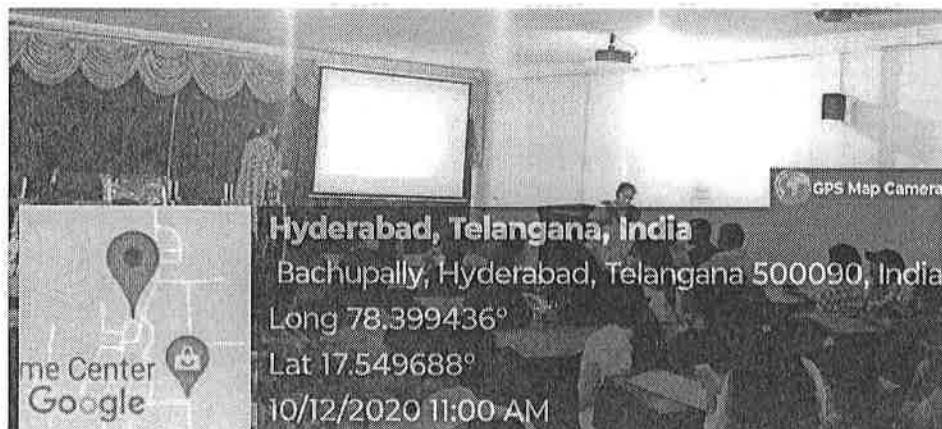
- Proficiency in AI Tools and Techniques
- Enhanced Problem-Solving Skills
- Integration of AI with Hardware



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### Department of Electronics and Communication Engineering

- Integration of AI with Hardware
- Understanding AI Hardware Requirements
- Hands-on training on designing and implementing embedded systems with a focus on Internet of Things (IoT) applications
- Awareness of Ethical Implications



The course is very useful to the students and their feedback is positive. The management and Principal of DRK Institute of Science and Technology thanked the participants for making the program successful.

Program Coordinator

ECE HoD

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Department of Electronics and Communication Engineering

## ATTENDANCE SHEET

**"A Two Weeks Certification Course on AI and Deep Learning for Electronics Engineers"**

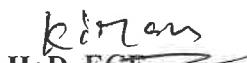


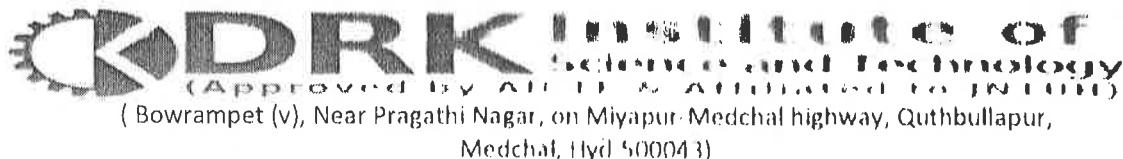
**Department of Electronics and Communication Engineering**

**Department of Electronics and Communication Engineering**

59	BITLA PRATHIKSHA	III Year	P	P	P	P	P	P	P	P	P	P	P	P
60	BUDHASHAN SOWMYA	III Year	P	P	P	P	P	P	P	P	P	P	P	P
61	BUJANGAM SAILAJA	III Year	P	P	P	P	P	P	P	P	P	P	P	P
62	DASARI DEEKSHITHA	III Year	P	P	P	P	P	P	P	P	P	P	P	P
63	EERUGADINLA PRASHANTH	III Year	P	P	P	P	P	P	P	P	P	A	P	P
64	GONGATI VENKATA PRAMOD KUMAR REDDY	III Year	P	P	P	P	A	P	P	P	P	P	P	A
65	GOTTIMUKKALA HARSHINI SAI	III Year	P	P	P	P	P	P	P	P	P	P	D	P
66	KASULA VARSHITH REDDY	III Year	P	P	P	P	P	P	P	P	P	P	P	P
67	KATARI PRABHU KIRAN	III Year	P	P	P	A	P	P	P	P	P	P	P	P
68	MADDOJU SATISH KUMAR	III Year	A	P	P	P	P	P	P	P	P	P	P	P
69	NAYUDU SHIVA KRISHNA	III Year	P	P	P	P	P	P	A	P	P	P	P	P
70	PATLOLLA SRIKAR KRISHNA REDDY	III Year	P	P	P	P	P	P	A	P	P	P	P	A
71	PEMMADI ANUSHA	III Year	P	P	P	P	O	A	P	P	P	P	P	P
72	PILLI DHANA KUMAR	III Year	P	P	P	P	P	R	P	P	P	P	P	P
73	PUSHADAPU SRUTHI	III Year	P	P	A	P	P	P	P	P	P	P	P	P
74	RAPARTHI SAI SUNDHAR	III Year	P	P	P	D	A	P	P	P	P	P	P	P
75	REDDY JAHNAVI	III Year	P	P	P	P	P	P	P	P	P	P	D	P
76	ROHAN BOHRA	III Year	P	P	P	D	P	P	P	P	P	P	D	P
77	SHIVAM RAWAT	III Year	P	A	P	P	P	P	P	P	P	P	D	P
78	MANISRI SANTRA	III Year	P	P	P	D	P	P	P	P	A	P	P	P

  
 Program Coordinator

  
 HoD ECE



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## Department of Electronics and Communication Engineering

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A Two-Weeks Certification Course on AI and Deep Learning for Electronics Engineers

Name of the Student: G. Manikanta Year: IV Max Marks: 20M

Test Paper

**Q1: What is the primary goal of artificial intelligence (AI)?**

(a)

- a) To mimic human intelligence
- b) To create new technologies
- c) To replace human workers
- d) To perform tasks more efficiently

**Q2: Which of the following is a common application of AI in electronics?**

(a)

- a) Automated assembly lines
- b) Manual circuit design
- c) Mechanical repairs
- d) Traditional manufacturing processes

**Q3: What is machine learning primarily concerned with?**

(b)

- a) Developing new algorithms
- b) Making predictions from data
- c) Designing hardware
- d) Creating user interfaces

**Q4: What is a neural network in the context of deep learning?**

(b)

- a) A computer network for communication
- b) A set of algorithms modeled after the human brain
- c) A database system
- d) A type of machine learning model without layers

**Q5: Which of the following is a deep learning architecture?**

(c)

- a) Decision trees
- b) Support vector machines
- c) Convolutional neural networks
- d) Linear regression

**Q6: What is the primary function of convolutional neural networks (CNNs)?**

(d)

- a) Time series prediction
- b) Image and video recognition
- c) Natural language processing
- d) General classification tasks



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**Q7:** Which type of neural network is best suited for sequential data, like time series? (b)

- a) CNN
- b) RNN
- c) LSTM
- d) MLP

**Q8:** What is a key feature of Long Short-Term Memory (LSTM) networks?

(a)

- a) Ability to process grid-like data
- b) Handling long-term dependencies in sequential data
- c) Running on low-power devices
- d) Image classification

**Q9:** Which library is commonly used for building and training neural networks in Python?

(b)

- a) NumPy
- b) Tensor Flow
- c) Pandas
- d) Scikit-learn

**Q10:** What is Keras used for in deep learning?

(b)

- a) Data visualization
- b) Neural network architecture design
- c) Model evaluation
- d) Data preprocessing

**Q11:** How can AI techniques improve signal processing?

(b)

- a) By manually adjusting signal parameters
- b) By automating feature extraction and classification
- c) By reducing the need for data
- d) By simplifying signal acquisition

**Q12:** What is feature extraction in signal processing?

( )

- a) Collecting raw data from sensors
- b) Identifying and isolating important features from signals
- c) Preprocessing raw signals
- d) Classifying signals into categories

**Q13:** What is the purpose of image pre-processing?

(a)

- a) To enhance and clean up images before analysis
- b) To store images in databases
- c) To classify images into categories
- d) To acquire images from sources



## Department of Electronics and Communication Engineering

**Q14: Which task involves identifying objects within images?**

- a) Image acquisition
- b) Image recognition
- c) Image enhancement
- d) Image segmentation

( b ) ✓

**Q15: What does integrating AI with embedded systems involve?**

- a) Adding AI capabilities to hardware devices
- b) Redesigning hardware components
- c) Creating software-only solutions
- d) Increasing data storage capacity

( a ) ✓

**Q16: What is edge AI?**

- a) AI algorithms executed on central servers
- b) AI models deployed directly on edge devices
- c) A type of cloud-based AI
- d) A technique for improving data security

( a ) ✓

**Q17: What is a key aspect of designing AI solutions for electronics applications?** ( b )

- a) Developing hardware components
- b) Applying AI models to solve specific problems
- c) Testing software only
- d) Creating user interfaces

✓

**Q18: What does practical project work in AI typically involve?**

- a) Developing theoretical concepts
- b) Implementing and testing AI models on real-world problems
- c) Reviewing existing research
- d) Writing research papers

( b ) ✓

**Q19: Which of the following is not a type of neural network architecture?**

- a) CNN
- b) RNN
- c) LSTM
- d) GAN

( d ) ✓

**Q20: What is the role of TensorFlow in AI projects?**

- a) Data storage
- b) Model building and training
- c) Data preprocessing
- d) Hardware design

( b ) ✓



## Department of Electronics and Communication Engineering

A+

19  
20

A Two-Weeks Certification Course on AI and Deep Learning for Electronics Engineers

Name of the Student: E SAHITHI

Year: IV

Max Marks: 20M

### Test Paper

**Q1: What is the primary goal of artificial intelligence (AI)?**

(a)

- a) To mimic human intelligence
- b) To create new technologies
- c) To replace human workers
- d) To perform tasks more efficiently

**Q2: Which of the following is a common application of AI in electronics?**

(a)

- a) Automated assembly lines
- b) Manual circuit design
- c) Mechanical repairs
- d) Traditional manufacturing processes

**Q3: What is machine learning primarily concerned with?**

(b)

- a) Developing new algorithms
- b) Making predictions from data
- c) Designing hardware
- d) Creating user interfaces

**Q4: What is a neural network in the context of deep learning?**

(b)

- a) A computer network for communication
- b) A set of algorithms modeled after the human brain
- c) A database system
- d) A type of machine learning model without layers

**Q5: Which of the following is a deep learning architecture?**

(c)

- a) Decision trees
- b) Support vector machines
- c) Convolutional neural networks
- d) Linear regression

**Q6: What is the primary function of convolutional neural networks (CNNs)?**

(b)

- a) Time series prediction
- b) Image and video recognition
- c) Natural language processing
- d) General classification tasks



## Department of Electronics and Communication Engineering

**Q7: Which type of neural network is best suited for sequential data, like time series? (b)**

- a) CNN
- b) RNN
- c) LSTM
- d) MLP

**Q8: What is a key feature of Long Short-Term Memory (LSTM) networks? (b)**

- a) Ability to process grid-like data
- b) Handling long-term dependencies in sequential data
- c) Running on low-power devices
- d) Image classification

**Q9: Which library is commonly used for building and training neural networks in Python? (b)**

- a) NumPy
- b) Tensor Flow
- c) Pandas
- d) Scikit-learn

**Q10: What is Keras used for in deep learning? (b)**

- a) Data visualization
- b) Neural network architecture design
- c) Model evaluation
- d) Data preprocessing

**Q11: How can AI techniques improve signal processing? (b)**

- a) By manually adjusting signal parameters
- b) By automating feature extraction and classification
- c) By reducing the need for data
- d) By simplifying signal acquisition

**Q12: What is feature extraction in signal processing? (b)**

- a) Collecting raw data from sensors
- b) Identifying and isolating important characteristics from signals
- c) Preprocessing raw signals
- d) Classifying signals into categories

**Q13: What is the purpose of image pre-processing? (a)**

- a) To enhance and clean up images before analysis
- b) To store images in databases
- c) To classify images into categories
- d) To acquire images from sources



## Department of Electronics and Communication Engineering

**Q14:** Which task involves identifying objects within images? ( b )

- a) Image acquisition
- b) Image recognition
- c) Image enhancement
- d) Image segmentation

**Q15:** What does integrating AI with embedded systems involve? ( a )

- a) Adding AI capabilities to hardware devices
- b) Redesigning hardware components
- c) Creating software-only solutions
- d) Increasing data storage capacity

**Q16:** What is edge AI? ( b )

- a) AI algorithms executed on central servers
- b) AI models deployed directly on edge devices
- c) A type of cloud-based AI
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- a) Data storage
- b) Model building and training
- c) Data preprocessing
- d) Hardware design



B+

14  
20

## Department of Electronics and Communication Engineering

A Two-Weeks Certification Course on AI and Deep Learning for Electronics Engineers

Name of the Student: B. Prathiksha Year: 2

Max Marks: 20M

### Test Paper

**Q1: What is the primary goal of artificial intelligence (AI)?**

- a) To mimic human intelligence
- b) To create new technologies
- c) To replace human workers
- d) To perform tasks more efficiently

(b)



**Q2: Which of the following is a common application of AI in electronics?**

- a) Automated assembly lines
- b) Manual circuit design
- c) Mechanical repairs
- d) Traditional manufacturing processes

(b)



**Q3: What is machine learning primarily concerned with?**

- a) Developing new algorithms
- b) Making predictions from data
- c) Designing hardware
- d) Creating user interfaces

(b)



**Q4: What is a neural network in the context of deep learning?**

- a) A computer network for communication
- b) A set of algorithms modeled after the human brain
- c) A database system
- d) A type of machine learning model without layers

(b)



**Q5: Which of the following is a deep learning architecture?**

- a) Decision trees
- b) Support vector machines
- c) Convolutional neural networks
- d) Linear regression

(c)



**Q6: What is the primary function of convolutional neural networks (CNNs)?**

- a) Time series prediction
- b) Image and video recognition
- c) Natural language processing
- d) General classification tasks

(d)





## Department of Electronics and Communication Engineering

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- a) Data visualization
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- c) Model evaluation
- d) Data preprocessing

**Q11: How can AI techniques improve signal processing? ( b )**

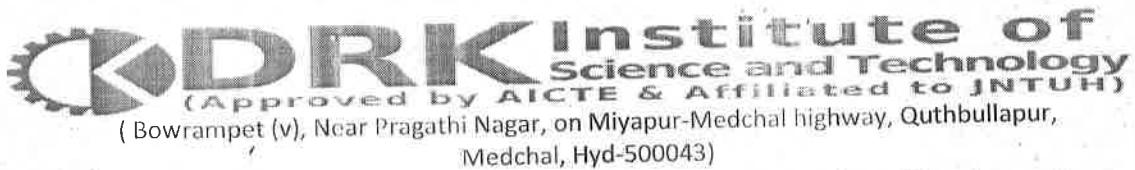
- a) By manually adjusting signal parameters
- b) By automating feature extraction and classification
- c) By reducing the need for data
- d) By simplifying signal acquisition

**Q12: What is feature extraction in signal processing? ( b )**

- a) Collecting raw data from sensors
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- c) Preprocessing raw signals
- d) Classifying signals into categories

**Q13: What is the purpose of image pre-processing? ( a )**

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- c) To classify images into categories
- d) To acquire images from sources



## Department of Electronics and Communication Engineering

**Q14:** Which task involves identifying objects within images? ( b )

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- d) GAN

**Q20:** What is the role of Tensor Flow in AI projects? ( b )

- a) Data storage
- b) Model building and training
- c) Data preprocessing
- d) Hardware design



## Department of Electronics and Communication Engineering

A Two-Weeks Certification Course on AI and Deep Learning for Electronics Engineers

Name of the Student: P.Sru Thi Year: III

Max Marks: 20M

### Test Paper

**Q1: What is the primary goal of artificial intelligence (AI)?**

- a) To mimic human intelligence
- b) To create new technologies
- c) To replace human workers
- d) To perform tasks more efficiently

(A)

**Q2: Which of the following is a common application of AI in electronics?**

- a) Automated assembly lines
- b) Manual circuit design
- c) Mechanical repairs
- d) Traditional manufacturing processes

(b)

**Q3: What is machine learning primarily concerned with?**

- a) Developing new algorithms
- b) Making predictions from data
- c) Designing hardware
- d) Creating user interfaces

(b)

**Q4: What is a neural network in the context of deep learning?**

- a) A computer network for communication
- b) A set of algorithms modeled after the human brain
- c) A database system
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**Q5: Which of the following is a deep learning architecture?**

- a) Decision trees
- b) Support vector machines
- c) Convolutional neural networks
- d) Linear regression

(C)

**Q6: What is the primary function of convolutional neural networks (CNNs)?**

- a) Time series prediction
- b) Image and video recognition
- c) Natural language processing
- d) General classification tasks

(b)



## Department of Electronics and Communication Engineering

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- a) CNN
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L

**Q8: What is a key feature of Long Short-Term Memory (LSTM) networks?**

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## Department of Electronics and Communication Engineering

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- d) Hardware design



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## Department of Electronics and Communication Engineering

Certificate Course on “A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers”

### Grade Sheet

S. No	Name of the student	Year	Grade
1	BUCHHAGARI RAJESHWAR REDDY	IV Year	A
2	D NIRMALA KUMARI	IV Year	A
3	ADAPA LALOO PAVAN	IV Year	A +
4	AENUGU NIKHITHA	IV Year	A +
5	AKSHITHA GADDAMPALLI	IV Year	A
6	AMANCHI SUSHMARAYUDU	IV Year	B
7	AMAR MANE	IV Year	A +
8	ARRABOTHU DHATHA PRADHYUMNA REDDY	IV Year	A
9	AVUSALA RAMCHANDRA	IV Year	AB
10	BADDAM NAVNEENA	IV Year	B
11	BADDAM SWATHI	IV Year	A
12	BETHI SAI KIRAN	IV Year	B
13	BHOGADI RANGA SUPRAJA	IV Year	B +
14	BUDDARAJU SAI KARTHIK VARMA	IV Year	B
15	CHADUVULA MOKSHITA	IV Year	A
16	CHARAN SAI TEJA DHAYAPULE	IV Year	B
17	DAGADA PRIYANKA	IV Year	A
18	DANDU ALEKHYA	IV Year	A +
19	DODDA SWAPNA	IV Year	A
20	DOWLAGHAR RAKSHITH	IV Year	A
21	DUMPALA SHASHANK REDDY	IV Year	B



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### Department of Electronics and Communication Engineering

22	DUSA INDRAJA	IV Year	B
23	EDDULA SAHITHI	IV Year	A+
24	ERRAPOTHU LAXMAN TEJA	IV Year	A
25	GUGGILAPU MANIKANTA	IV Year	A
26	GANDIKOTA SAI GEETHANJALI	IV Year	A+
27	GANGINENI NAGAVALLI	IV Year	A
28	GEEREDDY MANVIKA	IV Year	B
29	GUGGILLA NIHITHA	IV Year	B
30	HARI VISHNU SAI	IV Year	B+
31	JILLA SOWMYA	IV Year	B+
32	K NIKESH REDDY	IV Year	A
33	KALUVALA SHRAVANI	IV Year	A
34	KAMIDI RAJASHEKHAR REDDY	IV Year	AB
35	KAMMAMPATI MANISHA	IV Year	B
36	KANDATI BHARATHRAJ REDDY	IV Year	B+
37	KATURI MANASA	IV Year	A+
38	KAVURI SATYANARAYANA RAO	IV Year	A
39	NELLOORI NAGASARASWATHI	IV Year	A+
40	MAHAREDDY RISHI REDDY	IV Year	B
41	MENDU SAINADH REDDY	IV Year	B
42	PRAGADA SAI KUMAR	IV Year	A
43	T. MRUDULA	IV Year	A
44	VELAGA SURYA TEJA	IV Year	AB
45	KONDA SRI VIDYA	IV Year	A
46	KOSURU HARSHA VARDHAN	IV Year	B
47	KOUTARAPU ABHILASH	IV Year	A



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48	KUNDATIRI JAGADEESH	IV Year	A
49	LATTUPALLI VANDANA	IV Year	A
50	MAINAMPATI VENKATA VANI	IV Year	B
51	A DHEERAJ KUMAR	III Year	A+
52	ARJA LAVANYA	III Year	A
53	BADAM AKHIL	III Year	A
54	BANDARU HARI PRIYA	III Year	B
55	BATHULA SANNAKUMAR	III Year	A
56	BETHALA SNEHA	III Year	A +
57	BHARADWAJ VIPPAN GOUD	III Year	B
58	BHUMIREDDY VYDEHI	III Year	AB
59	BITLA PRATHIKSHA	III Year	B +
60	BUDHASHAN SOWMYA	III Year	A
61	BUJANGAM SAILAJA	III Year	A
62	DASARI DEEKSHITHA	III Year	B +
63	EERUGADINLA PRASHANTH	III Year	B
64	GONGATI VENKATA PRAMOD KUMAR REDDY	III Year	AB
65	GOTTIMUKKALA HARSHINI SAI	III Year	A +
66	KASULA VARSHITH REDDY	III Year	A
67	KATARI PRABHU KIRAN	III Year	A +
68	MADDOJU SATISH KUMAR	III Year	B
69	NAYUDU SHIVA KRISHNA	III Year	B
70	PATLOLLA SRIKAR KRISHNA REDDY	III Year	AB
71	PEMMADI ANUSHA	III Year	B
72	PILLI DHANA KUMAR	III Year	A +
73	PUSHADAPU SRUTHI	III Year	A
74	RAPARTHI SAI SUNDHAR	III Year	A

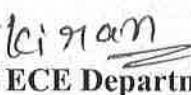


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75	REDDY JAHNAVI	III Year	A
76	ROHAN BOHRA	III Year	A+
77	SHIVAM RAWAT	III Year	B
78	MANISRI SANTRA	III Year	B+

  
Program Coordinator

  
HoD of ECE Department



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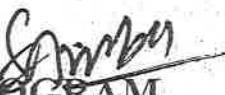
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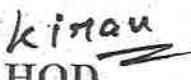
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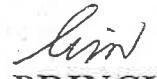
✓ THIS IS TO CERTIFY THAT

Mr/Ms/Mrs S. Adapa Lalee Pavan

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE COURSE ON  
“AI AND DEEP LEARNING FOR ELECTRONICS ENGINEERS”  
ORGANISED BY DEPARTMENT OF ELECTRONICS AND COMMUNICATION  
ENGINEERING FROM 7/12/2020 TO 19/12/2020

  
PROGRAM  
COORDINATOR

  
HOD

  
PRINCIPAL

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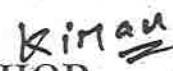
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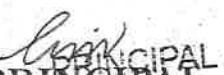
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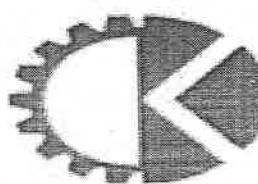
Mr/Ms/Mrs Dusa Indraja

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE COURSE ON  
“AI AND DEEP LEARNING FOR ELECTRONICS ENGINEERS”  
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## PARTICIPATION CERTIFICATE

✓ THIS IS TO CERTIFY THAT

Mr/Ms/Mrs A · Dheeraj Kumar

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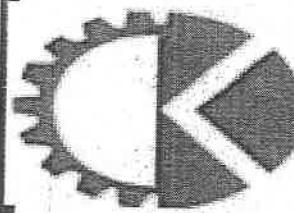
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ENGINEERING FROM 7/12/2020 TO 19/12/2020

*Ganesh*  
PROGRAM  
COORDINATOR

*Kiran*  
HOD

*him*  
PRINCIPAL  
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Mr/Ms/Mrs Amar Mane

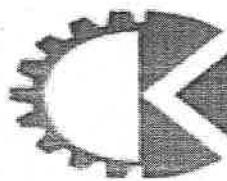
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*Sambit*  
PROGRAM  
COORDINATOR

*Kiran*  
HOD

*Lini*  
PRINCIPAL

PRINCIPAL  
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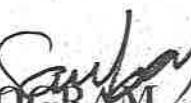
✓ Mr/Ms/Mrs Koutaraju Abhilash

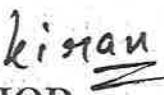
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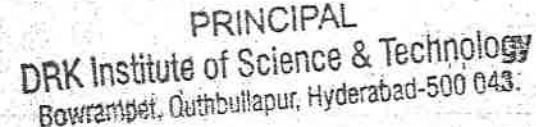
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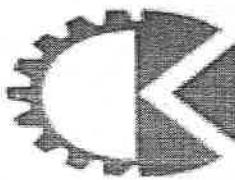
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COORDINATOR**

  
**HOD**

  
**PRINCIPAL**

  
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## **PARTICIPATION CERTIFICATE**

THIS IS TO CERTIFY THAT

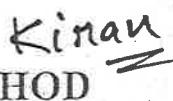
Mr/Ms/Mrs Kaluvala Shravani

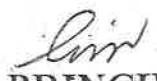
HAS PARTICIPATED IN A TWO WEEK CERTIFICATE COURSE ON  
“AI AND DEEP LEARNING FOR ELECTRONICS ENGINEERS”

ORGANISED BY DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ENGINEERING FROM 7/12/2020 TO 19/12/2020

  
**PROGRAM  
COORDINATOR**

  
**HOD**

  
**PRINCIPAL**  
**PRINCIPAL**  
DRK Institute of Science & Technology  
Bowrampet, Quthbullapur, Hyderabad-500 041



( Bowrampet (v), Near pragathi nagar, on Miyapur-medchal high way, Quthbullapur,  
Medchal, Hyd-500043)

## Department of Electronics and Communication Engineering

### FEEDBACK FORM

**Course Title:** A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers

**Course Code:** 2020ECE01

**Name of the Participant:** *Jahnavi Reddy*

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient		✓		
The course gives fair exposure to industry-based topics			✓	
Duration of course was appropriate	✓			
Course met the overall expectations		✓		

Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained	✓			
Queries and doubts were cleared by faculty		✓		

*Jahnavi Reddy*  
Signature of the Participant



( Bowrampet (v), Near pragathi nagar, on Miyapur-medchal high way, Quthbullapur,  
Medchal, Hyd-500043)

## Department of Electronics and Communication Engineering

### FEEDBACK FORM

**Course Title:** A Two-Week Certification Course on AI and Deep Learning for Electronics Engineers

**Course Code:** 2020ECE01

**Name of the Participant:** E.Salihui

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient		✓		
The course gives fair exposure to industry-based topics			✓	
Duration of course was appropriate		✓		
Course met the overall expectations	✓			

Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained	✓			
Queries and doubts were cleared by faculty		✓		

  
Signature of the Participant



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### Department of Computer Science and Engineering

Ref.NO:DRKIST/CSE/AOP/2020-21/01

DATE:02/11/2020

### CIRCULAR

Department of CSE organizing A TWO WEEKS Certification Course on **Data Science and Analytics** for CSE students. Interested students can enroll their name to **Mr.G.SRINIVAS** (Program Coordinator) on or before **21/11/2020**. Certificate will be issued to the students after successful completion of the course. The details contents of the course and other information is attached herewith.

S.No	Name of The Course	Date of Commencement	Venue
1.	ATWO WEEKS Certification Course on Data Science and Analytics	23/11/2020	Seminar Hall(003)

Copy To,

1. Officer room
2. Exam Cell
3. Library
4. Head of CSE Dept.
5. Head of ECE Dept.
6. Head of EEE Dept.
7. Head of MECH Dept.
8. Head of S&H Dept.
9. Head of MBA Dept.



  
Principal  
PRINCIPAL  
DRK Institute of Science & Technology  
Bowrampet, Gutibullapur, Hyderabad-500 043.

## **ABOUT THE DRKIST**

The DRK Institute of Science and Technology's journey of success began in 2004 under the visionary leadership of Mr. D.B. Chandra Sekhar Rao, who founded the institute in honor of his late father, Sri Dasari Rama Kotaiah Garu. Mr. D.B. Chandra Sekhar Rao, a distinguished entrepreneur, established the institute with a commitment to high-quality education, aiming to contribute to the nation's economic and industrial growth. As part of the DRK Educational Society, the institute has invested significantly in infrastructure, academic resources, and career development, fostering a dynamic learning environment that enhances students' conceptual and technical skills for modern challenges.

## **ABOUT THE CSE DEPARTMENT**

The Department of Computer Science and Engineering at DRK Institute of Science and Technology was established in 2004 and offers undergraduate programs to students from both urban and rural areas across India. It boasts well-equipped computing laboratories and a comprehensive range of software and hardware applications. Emphasizing fundamental learning and the latest technologies, the department fosters creativity by encouraging students to engage in projects of varying complexity. DRK values this field highly and supports it by offering a dedicated course.

## **ABOUT THE CERTIFICATE PROGRAM**

A certificate program it equips professionals with advanced skills in data analysis, statistical modeling, and machine learning. This program enhances proficiency in interpreting complex datasets, driving data-informed decision-making, and leveraging analytics tools to solve real-world business problems.

### **TOPICS TO BE COVERED**

- Introduction to Data Science
- Data Wrangling and Exploration
- Statistical Foundations
- Machine Learning Basics
- Machine Learning Basics
- Unsupervised Learning Techniques
- Time Series Analysis
- Capstone Project Kickoff
- Project Implementation Phase
- Final Project Presentation

# **A TWO- WEEK CERTIFICATION COURSE ON DATA SCIENCE AND ANALYTICS**

**FROM  
23<sup>RD</sup> NOVEMBER 2020  
TO  
03<sup>RD</sup> DECEMBER 2020**

**Organized by CSE  
Department**



**BOWRAMPET (V), VIA AIRFORCE ACADEMY,  
HYDERABAD-500043**  
Mobile: +91-900711899, +91-8790711899,  
Website: [www.drkist.edu.in](http://www.drkist.edu.in) (Approved by AICTE,  
Affiliated to JNTUH)

## Chief Patron

Sri. D. B Chandra Shekara Rao  
Chairman

## Patrons

Sri D. Santosh  
Secretary

Sri D. Sriram  
Treasurer

Dr. K. Venkata Subbaiah  
Principal

Coordinator

Mr. G. SRINIVAS  
Assistant Professor, CSE

Mr. N. RAGHAVA RAO  
HOD CSE

## ADDRESS FOR COMMUNICATION

Mr. G. Srinivas  
Coordinator, CSE, Assistant  
Professor 9959206997  
[srinivas.gk545@gmail.com](mailto:srinivas.gk545@gmail.com)

## REGISTRATION DETAILS



Last Date for  
Registration  
21<sup>st</sup> NOVEMBER  
2020

## REGISTRATION FORM

# A TWO-WEEK CERTIFICATION COURSE ON DATA SCIENCE AND ANALYTICS

Name: Mr. /Ms.: \_\_\_\_\_

Reg. No: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Phone No: \_\_\_\_\_

Email: \_\_\_\_\_

Signature of Participant



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### Department of Computer Science and Engineering

**Course Title:- A TWO WEEKS Certification Course on Data Science and Analytics**

S.No	Content
1	DAY1- Introduction to Data Science <ul style="list-style-type: none"><li>- Overview of Data Science</li><li>- Introduction to Python for Data Science.</li><li>- Setting up Python environment (Anaconda)</li><li>- Basics of Python programming for data analysis</li></ul>
2	DAY2- Data Wrangling and Exploration <ul style="list-style-type: none"><li>- Data Acquisition and Cleaning , Importing data with pandas</li><li>- Exploratory Data Analysis (EDA)</li><li>- Summary statistics and data visualization (matplotlib, seaborn)</li></ul>
3	DAY3- Statistical Foundations <ul style="list-style-type: none"><li>- Introduction to Statistics for Data Science<ul style="list-style-type: none"><li>• Descriptive and inferential statistics</li><li>• Probability distributions and hypothesis testing</li></ul></li><li>- Statistical Analysis with Python<ul style="list-style-type: none"><li>• Implementing statistical tests (t-tests, ANOVA)</li></ul></li></ul>
4	DAY4 - Machine Learning Basics <ul style="list-style-type: none"><li>- Introduction to Machine Learning</li><li>- Supervised vs. Unsupervised learning</li><li>- Regression Analysis</li><li>- Linear regression fundamentals</li><li>- Hands-on regression modeling in Python (scikit-learn)</li></ul>
5	DAY5 - Supervised Learning Algorithms <ul style="list-style-type: none"><li>- Classification Algorithms , Logistic regression</li><li>- Model Evaluation and Validation</li><li>- Cross-validation techniques</li><li>- Metrics for evaluating classification models</li></ul>
6	DAY6 - Unsupervised Learning Techniques <ul style="list-style-type: none"><li>- Clustering Algorithms<ul style="list-style-type: none"><li>o K-means clustering</li><li>o Hierarchical clustering</li></ul></li><li>- Dimensionality Reduction<ul style="list-style-type: none"><li>~ Principal Component Analysis (PCA)</li></ul></li></ul>



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### Department of Computer Science and Engineering

**Course Title:- A TWO WEEKS Certification Course on Data Science and Analytics**

S.No	Content
7	DAY7 - Time Series Analysis <ul style="list-style-type: none"><li>- Characteristics of time series data</li><li>- Time series visualization and decomposition</li></ul>
8	DAY8 - Capstone Project Kickoff <ul style="list-style-type: none"><li>- Project Ideation and Dataset Selection</li><li>- Choosing a project topic related to data science and analytics</li><li>- Developing a project plan and timeline</li><li>- Initial setup and exploration of datasets</li></ul>
9	DAY9 - Project Implementation Phase <ul style="list-style-type: none"><li>- Hands-on project work with guidance from instructors</li><li>- Regular check-ins and support for project development</li></ul>
10	DAY10 - Final Project Presentation <ul style="list-style-type: none"><li>- Presentation of project findings, insights, and outcomes</li><li>- Peer feedback and discussion</li></ul>

A handwritten signature in blue ink.

**Program Coordinator**

A handwritten signature in blue ink.

**HoD (CSE Department)**

A handwritten signature in blue ink.

**PRINCIPAL**  
**DRK Institute of Science & Technology**  
**Bowrampet, Outubbulapur,**  
**Hyderabad - 500 048**

**Principal**



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### Department of Computer Science and Engineering

**Course Name:- A TWO WEEKS Certification Course on Data Science and Analytics**

S.No	Content	Dates
1	DAY1- Introduction to Data Science <ul style="list-style-type: none"><li>- Overview of Data Science</li><li>- Introduction to Python for Data Science.</li><li>- Setting up Python environment (Anaconda)</li><li>- Basics of Python programming for data analysis</li></ul>	23/11/2020
2	DAY2- Data Wrangling and Exploration <ul style="list-style-type: none"><li>- Data Acquisition and Cleaning , Importing data with pandas</li><li>- Exploratory Data Analysis (EDA)<ul style="list-style-type: none"><li>• Summary statistics and data visualization (matplotlib, seaborn)</li></ul></li></ul>	24/11/2020
3	DAY3- Statistical Foundations <ul style="list-style-type: none"><li>- Introduction to Statistics for Data Science<ul style="list-style-type: none"><li>• Descriptive and inferential statistics</li><li>• Probability distributions and hypothesis testing</li></ul></li><li>- Statistical Analysis with Python<ul style="list-style-type: none"><li>• Implementing statistical tests (t-tests, ANOVA)</li><li>• Practical exercises with statistical libraries (scipy)</li></ul></li></ul>	25/11/2020
4	DAY4 - Machine Learning Basics <ul style="list-style-type: none"><li>- Introduction to Machine Learning</li><li>- Supervised vs. Unsupervised learning</li><li>- Regression Analysis</li><li>- Linear regression fundamentals</li><li>- Hands-on regression modeling in Python (scikit-learn)</li></ul>	26/11/2020
5	DAY5 - Supervised Learning Algorithms <ul style="list-style-type: none"><li>- Classification Algorithms , Logistic regression</li><li>- Model Evaluation and Validation</li><li>- Cross-validation techniques</li><li>- Metrics for evaluating classification models</li></ul>	27/11/2020



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### Department of Computer Science and Engineering

**Course Name:- A TWO WEEKS Certification Course on Data Science and Analytics**

S.No	Content	Dates
6	DAY6 - Unsupervised Learning Techniques <ul style="list-style-type: none"><li>- Clustering Algorithms<ul style="list-style-type: none"><li>o K-means clustering</li><li>o Hierarchical clustering</li></ul></li><li>- Dimensionality Reduction<ul style="list-style-type: none"><li>o Principal Component Analysis (PCA)</li></ul></li></ul>	28/11/2020
7	DAY7 - Time Series Analysis <ul style="list-style-type: none"><li>- Characteristics of time series data</li><li>- Time series visualization and decomposition</li></ul>	30/11/2020
8	DAY8 - Capstone Project Kickoff <ul style="list-style-type: none"><li>- Project Ideation and Dataset Selection</li><li>- Choosing a project topic related to data science and analytics</li><li>- Developing a project plan and timeline</li><li>- Initial setup and exploration of datasets</li></ul>	01/12/2020
9	DAY9 - Project Implementation Phase <ul style="list-style-type: none"><li>- Hands-on project work with guidance from instructors</li><li>- Regular check-ins and support for project development</li></ul>	02/12/2020
10	DAY10 - Final Project Presentation <ul style="list-style-type: none"><li>- Presentation of project findings, insights, and outcomes</li><li>- Peer feedback and discussion</li></ul>	03/12/2020

Program Coordinator

HoD (CSE Department)



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### Department of Computer Science and Engineering

A TWO WEEKS Certification Course on Data Science and Analytics

#### Signature Sheet

S.No	Name of Student	YEAR	Signature
1.	ADDANKI THARUN KUMAR	II YEAR	Tharun
2.	ADINA DILIP KUMAR	II YEAR	Dilip.
3.	ALLADA PRATHYUSHA	II YEAR	Prathyusha
4.	ANJANI GUPTA	II YEAR	Anjani
5.	ANNAMDAS AKASH	II YEAR	Akash
6.	BADHA SANDHYA	II YEAR	Sandhya
7.	BATTU MADHUSUDHAN REDDY	II YEAR	Madhush
8.	BEJAWADA RAVINDRA SAI	II YEAR	Ravindra
9.	BHANDARU SRINIVASA SHESHA ADITHYA	II YEAR	Shesha
10.	BHETALAM LOKESH VARMA	II YEAR	Lokesh
11.	BIRADAR OMKAR	II YEAR	Omkar
12.	BIRADHAR SHRIYA	II YEAR	Shriya
13.	BOINI SAI TEJA	II YEAR	Teja
14.	BOYINA SAI GAYATRI	II YEAR	Gayatri
15.	BRAMHADEVINI PRABHU CHARAN REDDY	II YEAR	Prabhu
16.	CH PAVAN SAI	II YEAR	Pavan
17.	CH SAI SUPRAJA	II YEAR	Supraja
18.	CHILLARA VENKATA VARUN	II YEAR	Varun
19.	CHINTHALAGATTU KRISHNA VENI	II YEAR	Krishnavei
20.	D YASHWANTH	II YEAR	Yashwant
21.	DHARMAPURI PRANAY	II YEAR	Pranay
22.	DOMAL ABHILASH	II YEAR	Abhilash
23.	DONAKANTI ANISHITH REDDY	II YEAR	Anishith
24.	DORASAKALA MOUNIKA	II YEAR	Mounika



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25.	ERANKI SURYA SARVESWARA RAO	II YEAR	<u>Surya</u>
26.	G.SRI SIVANI	II YEAR	<u>Sivani</u>
27.	GANGI SWATHI	II YEAR	<u>Swathi</u>
28.	GÉDDADA ANUSHA	II YEAR	<u>Anusha</u>
29.	GOJALA RISHI	II YEAR	<u>Rishi</u>
30.	GOLLAKOTI PARDHA SARADHI	II YEAR	<u>Pardha</u>
31.	GOPALAPURAM VARSHITHA	II YEAR	<u>Varshitha</u>
32.	GOUD ABHISHEK GOUD	II YEAR	<u>Abhishek</u>
33.	GUNDULUR AYESHA	II YEAR	<u>Ayesha</u>
34.	GUNTAKA MEENA	II YEAR	<u>Meena</u>
35.	INAGANTI YASASWI	II YEAR	<u>Yasaswi</u>
36.	INDUKURI AKASH VARMA	II YEAR	<u>Akash</u>
37.	KAGITAPALLI ABHISHEK	II YEAR	<u>K. Abhishek</u>
38.	KAILASH GUPTHA	II YEAR	<u>C. Gupta</u>
39.	KAIRAMKONDA AKSHITH	II YEAR	<u>K. Akshith</u>
40.	KAITHAPURAM SAI HARSHITH	II YEAR	<u>K. Harshith</u>
41.	KAKARA PRANAY	II YEAR	<u>P. Pranay</u>
42.	KARI SAI CHETAN	II YEAR	<u>Sai Chetan</u>
43.	KODUMURU HEMANTH SAI	II YEAR	<u>Hemanth Sai</u>
44.	KOMMU SRAVYA	II YEAR	<u>S. Sravya</u>
45.	KOTA SAICHANDH	II YEAR	<u>K. Saichandh</u>
46.	KOTARI SRI VISHAL	II YEAR	<u>Vishal</u>
47.	KOTHA PRANEETH KUMAR	II YEAR	<u>K. Praneeth Kumar</u>
48.	KUMMARI SWATHI	II YEAR	<u>K. Swathi</u>
49.	KUMMARIKUNTA PRANAY	II YEAR	<u>K. Pranay</u>
50.	LALITHA SREE KONERU	II YEAR	<u>Konuru</u>
51.	VADLA AKHIL	II YEAR	<u>Akhil</u>
52.	ACHANTA RAMANJANEYA KUMAR	II YEAR	<u>Ram</u>
53.	CHAVVA SRAVAN KUMAR	II YEAR	<u>C. Sravan</u>



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54.	G MANOJ KUMAR	II YEAR	G.m.k Manoj Kumar
55.	KAMMARI DATTAPRASAD	II YEAR	Dattaprasad
56.	KOLLAPUDI MOHAN KRISHNA	II YEAR	Mohan Krishna
57.	CHUKKA LIKHITHA	II YEAR	Likhitha
58.	DESHATTI SANDHYA	II YEAR	Sandhya
59.	DUNDIGAL VAMSI KRISHNA	II YEAR	Vamsi Krishna
60.	GAJALAKONDA RAJASEKHAR	II YEAR	Rajasekhar
61.	GODUGU RAMYA	II YEAR	Godugu Ramya
62.	GONE VEENA	II YEAR	Veena
63.	GOUNI ARUN	II YEAR	Arun
64.	H A KRISHNA KUMAR DEVALRAJU	II YEAR	H.A.Kumar Devalraju
65.	HANMANTHULA PREETHIKA	II YEAR	Hanmanthula Preethika
66.	KANDAKATLA RACHANA	II YEAR	Kandakatla Rachana
67.	KASIREDDY SUMANTH REDDY	II YEAR	Kasireddy Sumanth Reddy
68.	KOKKULA RAMYA	II YEAR	Kokkula Ramya
69.	LINGIDI PHANEENDRA KUMAR	II YEAR	Lingidi Phaneendra Kumar
70.	MAMIDALA AKSHARA	II YEAR	Mamidala Akshara
71.	MASANGUDEM SIRISHA	II YEAR	Masangudem Sirisha
72.	MASARAM JAYANTH	II YEAR	Masaram Jayanth
73.	MOHAMMAD FAREED	II YEAR	Mohammad Fareed
74.	MOHAMMED AFFAAN	II YEAR	Mohammed Affaan
75.	MULLEY BALAKRISHNA	II YEAR	Mulley Balakrishna
76.	MUNIGANTI MANIDEEP	II YEAR	Muniganti Manideep
77.	MUSKU KEERTHANA	II YEAR	Muskur Keerthana
78.	NAMALA JAYASRI	II YEAR	Namala Jayasri
79.	NAMPALLY DHARMAPURI	II YEAR	Nampally Dharmapuri
80.	NATTE NIKITHA SREE	II YEAR	Natte Nikitha Sree
81.	NUVVULA KEERTHANA	II YEAR	Nuvvula Keerthana
82.	ORSU GANESH	II YEAR	Orsu Ganesh
83.	PAIDIPELLY SANTHOSH KUMAR	II YEAR	Paidipelly Santhosh Kumar



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### Department of Computer Science and Engineering

84.	PANCHANGAM RAMYA SHRUTHI	II YEAR	Ramya
85.	PAPISETTY SRAVYA	II YEAR	Sraavya
86.	PEDDADA RAM CHANDER	II YEAR	Ram Chander
87.	PENMETSA LAKSHMI NARASIMHA RAJU	II YEAR	Lakshmi Raju
88.	PENTYALA SAI KRISHNA TEJA	II YEAR	Teja
89.	PINNAMARAJU MANENDHRA VARMA	II YEAR	MN
90.	PODUGU VAMSHI	II YEAR	Vamshi
91.	POTTIGARI YEGNESHVRR	II YEAR	Xeshwari
92.	PULAPARTHI KUMAR NAGA SAI RAJA	II YEAR	N.Raja
93.	RACHABATTUNI DINESH PRABHU	II YEAR	R.D.P
94.	RALLABANDI SUJAN	II YEAR	Sujan
95.	RAVUPALLI SATHYA PRAKASH	II YEAR	Sathya Prakash
96.	SALE NAGESHWARI	II YEAR	Nageshwari
97.	SHAIK ABDUL MUQTADIR	II YEAR	S.Abdul
98.	SHASHANK RAI	II YEAR	Rai
99.	SUGANDHAM VASANTA MOUNIKA	II YEAR	S.V.Mounika
100.	SURAJ PANDEY	II YEAR	Pandey
101.	TABASSUM FATHIMA	II YEAR	Fathima
102.	TAMMA SUNIL	II YEAR	T.Sunil
103.	TEJESHWAR GUPTA GOLLA	II YEAR	T.Gupta Golla
104.	THOSHKAN BHAVANI	II YEAR	Thoshkhan
105.	THOTA MAHESHWARI	II YEAR	Maheshwi
106.	THUMMALA MANOJ REDDY	II YEAR	M.R
107.	UPENDRAM VINOD KUMAR RAJU	II YEAR	Vineed Raju
108.	V SRIKANTH	II YEAR	V.Srikanth
109.	V SUNDER CHAITANYA	II YEAR	Sunder Chaitanya
110.	VALLEPU VINAY	II YEAR	V.Vinay
111.	VEGERNA ANAND VARMA	II YEAR	A.Varma
112.	VONTERI SHREYA	II YEAR	V.Shyra



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### Department of Computer Science and Engineering

113.	YELURI SAHITHI	II YEAR	<i>Y. Sahithi.</i>
114.	MALYALA ASHISH VARDHAN	II YEAR	<i>Vardhan</i>
115.	NAKKA DINESH	II YEAR	<i>Dinesh</i>
116.	BANUPRAKASH	II YEAR	<i>Banuprakash</i>
117.	KOMMULA SIDDHARTH	II YEAR	<i>K. Siddharth</i>
118.	MANDALA MANIKUMAR	II YEAR	<i>Manikumar</i>
119.	MANEPALLY DEEPIKA	II YEAR	<i>Deepti</i>
120.	PAILA SWATHI	II YEAR	<i>Swathi.</i>
121.	PATNALA LAKSHMI	II YEAR	<i>P. Lakshmi</i>
122.	SAI CHARAN D	II YEAR	<i>Sai charan</i>
123.	SHAIK FEROZ AHAMED BEG	II YEAR	<i>Feroz Beg</i>
124.	SIRIGIRI BHoomika	II YEAR	<i>SB</i>
125.	SOMANI ABDULLA SURYA TEJA	II YEAR	<i>Abdulla</i>
126.	SOMAROUTHU HIMASILPA	II YEAR	<i>Himashilpa</i>
127.	TALARI MANIKYAM	II YEAR	<i>TM</i>
128.	YELURU NAVEEN	II YEAR	<i>Xelurun</i>
129.	DYAVANAPALLY SRI LEKHA	II YEAR	<i>Lekha</i>
130.	B AKHILA	III YEAR	<i>Akhila</i>
131.	B MANASA	III YEAR	<i>Manasa</i>
132.	BALLA GIRISH NAG	III YEAR	<i>Girish Nag</i>
133.	CHALLA VINITHA	III YEAR	<i>vinitha</i>
134.	AMARANENI LIKHITHA	III YEAR	<i>lukitha</i>
135.	AKKINENI SAI SANDEEP	III YEAR	<i>Sandeep</i>
136.	GUTHA MANICHANDU	III YEAR	<i>NL</i>
137.	K V S R JAYA KRISHNA PRASAD	III YEAR	<i>K. VSR jaya krishna</i>
138.	KOTHAPALLI SAI SNEHA	III YEAR	<i>K. Suneetha</i>
139.	A NAVNEEN KUMAR	III YEAR	<i>Dishshith</i>
140.	AGILE DINESH REDDY	III YEAR	<i>Dinesh Reddy</i>
141.	ALLA PAVANI	III YEAR	<i>Apavani</i>
142.	ALLE SOWMYA	III YEAR	<i>Sowmya</i>



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### Department of Computer Science and Engineering

143.	APPAIAHGARI PRAVEEN REDDY	III YEAR	<i>A. Praveen Reddy</i>
144.	ATHULURI SOWMYA	III YEAR	<i>Sowmya</i>
145.	B H PRIYA SINGH	III YEAR	<i>Bh. Priya</i>
146.	BACHU PAVAN SAI PANDU	III YEAR	<i>B. Pavan S. Pandu</i>
147.	BORRA GREESHMA	III YEAR	<i>B. Greeshma</i>
148.	CHALLA SHARAT KUMAR REDDY	III YEAR	<i>C. Sharat Kumar Reddy</i>
149.	CHELUKALA SAI KUMAR	III YEAR	<i>C. S. Kumar</i>
150.	CHEPOOR SUREKHA RAJ	III YEAR	<i>C. Surekha Raj</i>
151.	DAMMAGARI BHARGAVI	III YEAR	<i>Bhargavi</i>
152.	DANDAMUDI MARUDWATHI	III YEAR	<i>D. Marudwathi</i>
153.	DEGA HARISH REDDY	III YEAR	<i>D. Harish Reddy</i>
154.	DONGARI SHRUVANI	III YEAR	<i>Dongari Shravani</i>
155.	G SINDHUJA	III YEAR	<i>Sindhuja</i>
156.	GAJJADA ABHISHEK REDDY	III YEAR	<i>G. Abhishek Reddy</i>
157.	GOLLAKOTI PRITHVI RAJ	III YEAR	<i>G. Prithvi Raj</i>
158.	GUDIMETLA PRUDHVI SAI SURESH	III YEAR	<i>Purusha</i>
159.	GUDISA ANVESH KUMAR REDDY	III YEAR	<i>G. Anvesh Kumar Reddy</i>
160.	GUMMADAVELLI SAI SATHVIK	III YEAR	<i>Sai Sathvik</i>
161.	GUMMADI SUMESH CHANDRA	III YEAR	<i>G. Sumesh Chandra</i>
162.	GUNDALA SARATH REDDY	III YEAR	<i>Sarath Reddy</i>
163.	ORUGANTI PRAVEEN	III YEAR	<i>O. Paveen</i>
164.	J PAVAN KUMAR	III YEAR	<i>J. Pavan Kumar</i>
165.	JATKALA SUPRADEEP	III YEAR	<i>J. Supradeep</i>
166.	K SAI KRISHNA YADAV	III YEAR	<i>K. Sri Krishna Yadav</i>
167.	K SRI PADMAJA	III YEAR	<i>K. Padmaja</i>
168.	KAGITHA VAASANTHI	III YEAR	<i>K. Vaasanthi</i>
169.	KALAPALA SRI LAKSHMI GAYATHRI	III YEAR	<i>Lakshmi Gayathri</i>
170.	KANAGALA ARAVIND CHOWDARY	III YEAR	<i>K. Aravind Chowdary</i>
171.	KANDURI SAI SRINIVAS	III YEAR	<i>Srinivas</i>



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172.	KASAM SAI KIRAN	III YEAR	K. S. Kiran
173.	KATINEEDI SAI PAVAN	III YEAR	K. S. Pavan
174.	KOLA TEJASAI	III YEAR	K. Tejasai
175.	KOMMALAPATI SAISURYA	III YEAR	K. S. Surya
176.	KOMMI REDDY MAHESH REDDY	III YEAR	K. Reddy Mahesh Reddy
177.	LANKAYAPALLY KUNDHANA REDDY	III YEAR	L. K. Reddy
178.	MADISETTY HARIKIREET	III YEAR	M. Hari Kireet
179.	MADISHETTY MIDHUN	III YEAR	M. Midhun
180.	MANNAM AKHIL	III YEAR	Akhil
181.	MODUKURI CHANDINI	III YEAR	M. Chandini
182.	MOHAMMED SALEEMUDDIN	III YEAR	M. Saleemuddin
183.	MOTIPALLI VINDHYA	III YEAR	Vindhya
184.	MUDDADA VAMSI KRISHNA	III YEAR	M. V. Krishna
185.	MURIKI MOUNIKA	III YEAR	Mounika
186.	NADUKUDA ROHITH	III YEAR	Rohith
187.	DOOSA SHASHANK	III YEAR	D. Shashank
188.	GADI AMRUTH VARMA	III YEAR	G. Amruth Varma
189.	VANGA SAHITH	III YEAR	V. Sahith
190.		III YEAR	
191.	VARAKANTI VENUGOPAL YADAV	III YEAR	V. Venugopal Yadav
192.	VEMULAPALLI SARAN	III YEAR	Saran
193.	NALLAMOTHU NAVEEN KUMAR	III YEAR	N. Naveen Kumar
194.	NALLURI HARSHITHA	III YEAR	N. Harshitha
195.	NARALA JAYA BHARATH REDDY	III YEAR	N. Jaya Bharath Reddy
196.	NEELI SNEHA	III YEAR	N. Sneha
197.	NEHA KUMARI	III YEAR	Kumari
198.	NEHA SULTHANA	III YEAR	N. Sulthana
199.	NOMULA PRANEETH	III YEAR	Prameeth
200.	PADI RATNASUBHASHINI	III YEAR	Ratnasubhashini
201.	PALAMURI AISHWARYA GOUD	III YEAR	D. Aishwarya Goud



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202.	PARUCHURI THANU SREE	III YEAR	P. Thanu Sree
203.	PEDAGANI ABHINAV GOUD	III YEAR	P. Abhinav Goud
204.	PEDDADA SAI SRINIJA	III YEAR	Srinija
205.	PEDDI JAHNAVI CHOWDARY	III YEAR	P. Jahnavi Chowdary
206.	PITHANI SRIMAHADEVI	III YEAR	Sreemuthi
207.	POTHULA PARAMESHWAR REDDY	III YEAR	P. Parameshwar Reddy
208.	POTLURI MITHIL	III YEAR	Mithil
209.	RAPARLA BABU RAO	III YEAR	R. Babu Rao
210.	RUCHITHA GIDIGAM	III YEAR	Ruchitha
211.	SAMINENI YAMINI SARASWATHI	III YEAR	S. Yamini Saraswathi
212.	SAMREEN	III YEAR	Samreen
213.	SARIKONDA SAI SIRISHA	III YEAR	S. Sri Sirisha
214.	SATYAWADA SAI KUMAR	III YEAR	S. Sri Kumar
215.	SHAGGARI SAI PRANEETH	III YEAR	Praneeth
216.	SHAIK THOUFEEQ	III YEAR	S. Thoufeeq
217.	TAMALI PRIYANKA	III YEAR	T. Priyanka
218.	TELUGU SAI MANOJ	III YEAR	Manoj
219.	THIPPARTHI NAVADEEP REDDY	III YEAR	T. Navadeep Reddy
220.	TUMMALA LAKSHMI PRASANNA	III YEAR	Prasanna
221.	V KOWSHIK SUMANTH	III YEAR	V. Kowshik Sumanth
222.	V PRITHVI RAJ	III YEAR	Prithvi
223.	VADRANGI SWETHA	III YEAR	V. Swetha
224.	VALLURI NAVEEN	III YEAR	Naveen
225.	VEERLA NAGA SUSHMITHA	III YEAR	V. Abiga Sushmitha
226.	VEMPALI YAMINI	III YEAR	Yamini
227.	Y BHARATHSIMHA REDDY	III YEAR	Y. Bharathsimha Reddy
228.	YACHE RAHUL REDDY	III YEAR	Rahul
229.	YEVTIKAR NAGRAJ MAROTI	III YEAR	Y. Nagaraj Maroti
230.	K PRABHAKARA TEJA	III YEAR	K. Prabhakara Teja
231.	BHYRI MOHAN RAO	III YEAR	Mohan Rao

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232.	BIRADAR MANOJ KUMAR	III YEAR	<i>Manoj Kumar</i>
233.	BOLLA SRINIVAS	III YEAR	<i>B. Srinivas</i>
234.	BOROLLA SRAVAN KUMAR	III YEAR	<i>Sravan Kumar</i>
235.	GODUGU ARUN RAJ KUMAR	III YEAR	<i>Arun Raj Kumar</i>
236.	GUTHIMAMIDI HARSHA VARDHAN	III YEAR	<i>Harsha</i>
237.	HASEENA	III YEAR	<i>Haseena</i>
238.	KUMMARI RAJKUMAR	III YEAR	<i>Rajkumar</i>
239.	LACHAPETA NIKITHA	III YEAR	<i>Nikitha</i>
240.	MAHESHWARAM SAI KRISHNA	III YEAR	<i>Krishna</i>
241.	MANE RAKESH	III YEAR	<i>Rakesh</i>
242.	MARMAMULA AKSHAYA	III YEAR	<i>Akshaya</i>
243.	MYATHARI MANJULA	III YEAR	<i>Manjula</i>
244.	NAGULA PRATHYUSHA	III YEAR	<i>Prathyusha</i>
245.	NAGULA SUSHMA SRI	III YEAR	<i>S. Sushma</i>
246.	NALLAGANTI ANOOSHA	III YEAR	<i>Anoosha</i>
247.	NAWADE ANKITHA	III YEAR	<i>Ankitha</i>
248.	PARISE JAYALEELA	III YEAR	<i>P. Jayaleela</i>
249.	SANGAM NAGARAJ	III YEAR	<i>Nagaraj</i>
250.	SARELLA SAI DURGA PRASAD	III YEAR	<i>D. Durga Prasad</i>
251.	SREEDEVI	III YEAR	<i>Sreedevi</i>
252.	A NITISH RAO	IV YEAR	<i>Nitish Rao</i>
253.	AYINENI PUNDARI KAKSHA	IV YEAR	<i>P. Kaksha</i>
254.	GULLAPALLI NAGA SRUTHI	IV YEAR	<i>Naga Sruthi</i>
255.	A NEHA	IV YEAR	<i>A. Neha</i>
256.	ABHISHEK TRIPATHI	IV YEAR	<i>Abhishek Tripathi</i>
257.	AGNIKULAKSHATRIYA MANJU SINGH	IV YEAR	<i>Manju Singh</i>
258.	ALLA REETHIKA	IV YEAR	<i>A. Reethika</i>
259.	ALLAM VARSHA	IV YEAR	<i>Varsha</i>
260.	ANUGU AKHILESH	IV YEAR	<i>Akhilesh</i>



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261.	BADAL CHOUDHARY	IV YEAR	<i>B. Choudhary</i>
262.	BADDIPADIGE HARISH KUMAR	IV YEAR	<i>H. B. Harish Kumar</i>
263.	BANDE SHUBHANGI	IV YEAR	<i>Shubhangi</i>
264.	BANDI MANICHANDANA	IV YEAR	<i>B. Manichandana</i>
265.	BHUPATHI RUCHITHA	IV YEAR	<i>Bhupathi Ruchitha</i>
266.	CHALLAGUNDLA SRILEKHA	IV YEAR	<i>Srilekha</i>
267.	DEVAJI SANTOSHI	IV YEAR	<i>Santoshi Devaji</i>
268.	DURGARAJU ROHINI	IV YEAR	<i>Rohini Durgaraju</i>
269.	ELURU ACHYUTH	IV YEAR	<i>Achyuth Eluru</i>
270.	GADDAM LAVA KUMAR	IV YEAR	<i>Lava Kumar Gaddam</i>
271.	GADDAM SHIVANI	IV YEAR	<i>Shivani Gaddam</i>
272.	GADDAM SOUMYA	IV YEAR	<i>Sumya Gaddam</i>
273.	GADDULA SAI NEHA PUJITHA	IV YEAR	<i>Pujitha Gaddula Sai Neha</i>
274.	GANGISETTI SAI MANOGNA	IV YEAR	<i>Manogna Gangisetti</i>
275.	GORENKALA MADHUSUDHANA RAO	IV YEAR	<i>Madhusudhana Rao Gorenkala</i>
276.	GOTTAPU PRABHU DEVA	IV YEAR	<i>Prabhu Deva Gottapu</i>
277.	GUNTI HARI CHANDANA	IV YEAR	<i>Hari Chandana Gunti</i>
278.	GURUJALA ANISHREDDY	IV YEAR	<i>Anishreddy Gurujala</i>
279.	JYOTHI KALIDINDI	IV YEAR	<i>Kalidindi Jyothi</i>
280.	K SUSHMA	IV YEAR	<i>Sushma K</i>
281.	KADIYALA ANJALI SREEJA	IV YEAR	<i>Anjali Kadiyala</i>
282.	KALVA JAGADEESH	IV YEAR	<i>Jagadeesh Kalva</i>
283.	KAMMARI VAMSHI KRISHNA CHARY	IV YEAR	<i>Vamshi Krishna Chary Kammari</i>
284.	KANTE SWETHA NAGA PADMINI	IV YEAR	<i>Naga Padmini Kante</i>
285.	KATTA PRASHANTHI	IV YEAR	<i>Prashanthi Katta</i>
286.	N AKASH	IV YEAR	<i>Akash N</i>
287.	NALLURI AVINASH	IV YEAR	<i>Avinash Nalluri</i>
288.	SHAIK NAZEER BASHA	IV YEAR	<i>Nazeer Basha Shaik</i>
289.	P V S ABINAV	IV YEAR	<i>Abinav P. V. S.</i>



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290.	PENDURTHI AMITH SAI KRISHNA	IV YEAR	P. Amith
291.	CHANDRAKANTH K	IV YEAR	Chandrababu
292.	B SAI CHARAN	IV YEAR	Charan
293.	GOLLA SRINIVAS	IV YEAR	G. Srinivas
294.	KONATHAM PRAVEEN KUMAR	IV YEAR	Praveen
295.	KOPPISETTI SAI VENKATA SRIKANTH	IV YEAR	Vineeth
296.	KOPPULA UHA	IV YEAR	Uma
297.	KULKARNI SRI DURGA	IV YEAR	Sri
298.	KUMMARI BHAGYA LAKSHMI	IV YEAR	Bhagya
299.	M PRIYANKA	IV YEAR	Priyanka
300.	MADHAVARAM HARISH	IV YEAR	Harish
301.	MALREDDY LASYA	IV YEAR	Lasya
302.	MENGANI AVINASH	IV YEAR	Avinash
303.	MOTHUKURI MADHURI	IV YEAR	Madhuri
304.	MUDIKE SUMYUKTHA YADAV	IV YEAR	Sumyuktha
305.	NAMBURI PREETHAM VARMA	IV YEAR	Preetham
306.	NANDAIAHAGARI SRIJA	IV YEAR	Srija
307.	NARENDRULU NEHA	IV YEAR	Neha
308.	PEDDINTI MAMATHA	IV YEAR	Mamatha
309.	PERAM BHARGAVI	IV YEAR	Bhargavi
310.	RAHUL KUMAR MISHRA	IV YEAR	Mishra
311.	RAMPALLY AKHILA	IV YEAR	Akhila
312.	RAYALA NANDINI	IV YEAR	R. Nandini
313.	SACHIN KUMAR SHARMA	IV YEAR	Sachin Kumar
314.	SAI KUMAR YADAV BOLLABOINA	IV YEAR	Sai
315.	SANDILA SRIDHAR	IV YEAR	Sridhar
316.	SIBBALA SAITEJA	IV YEAR	S. Saiteja
317.	SIBINAKA SRIJA	IV YEAR	Srija
318.	SIRIGIRI SAI GIRISH	IV YEAR	Sai Girish
319.	SUGUREDDY ARAVIND REDDY	IV YEAR	Aravind Reddy



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320.	THANGALA PALLY BHARANI	IV YEAR	
321.	VALASANI SRUJANA	IV YEAR	
322.	VANAMALA ANIL KUMAR	IV YEAR	

Program coordinator

  
HoD (CSE Department)



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## Department of Computer Science and Engineering

### **PROGRAM REPORT**

**Name of the Course** : A Two Weeks Certification Course on “**Data Science and Analytics**  
**Date** : 23/11/2020 – 03/12/2020

**Program Coordinator** : Mr.G.SRINIVAS , Assistant professor, Dept. Of CSE

**Number of students attended:** 322

**Venue** : Seminar Hall, DRK Institute of science and technology

**DRK Institute of science and technology** organized certificate program on “**Data Science and Analytics**” for B-tech CSE students. It equips professionals with advanced skills in data analysis, statistical modeling, and machine learning. This program enhances proficiency in interpreting complex datasets, driving data-informed decision-making, and leveraging analytics tools to solve real-world business problems.

#### **Objectives**

- Master Data Techniques
- Enhance Tool Proficiency
- Optimize Decision-Making
- Build Predictive Models
- Communicate Insights Effectively

#### **Learning Outcomes**

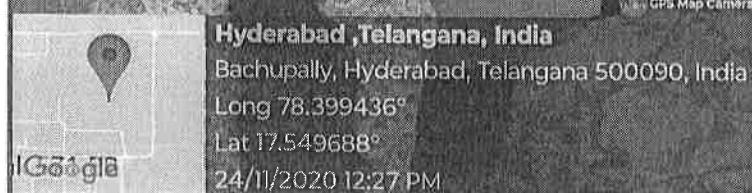
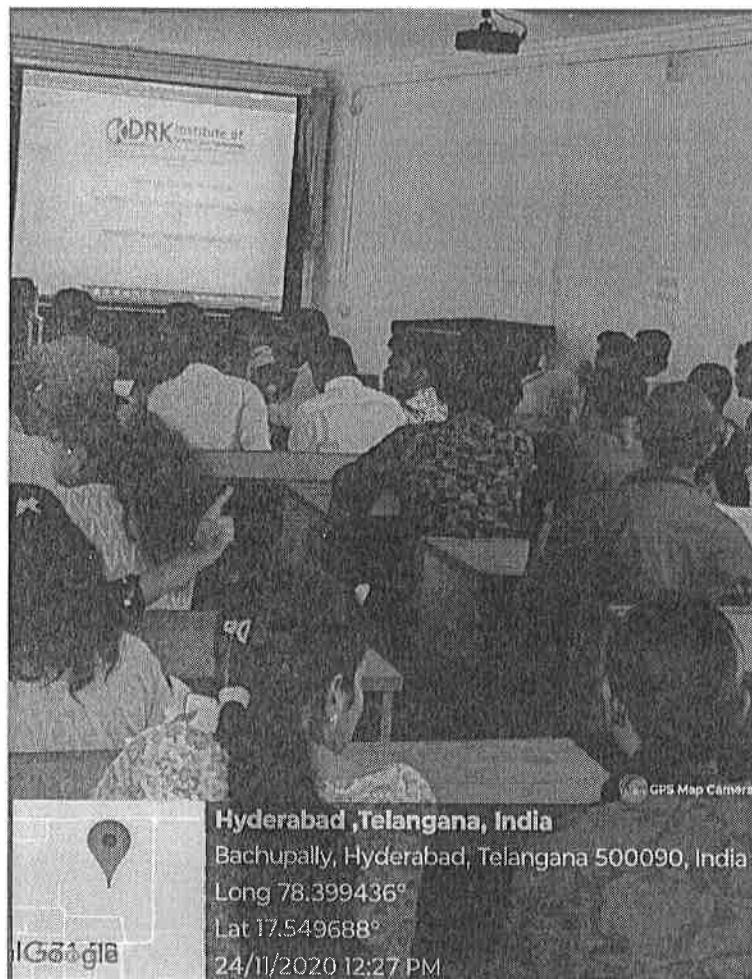
- Understanding of Core Concepts.
- Attendees will learn how to apply data science methodologies to real-world problems.
- Participants will become familiar with key data science tools and technologies.
- Attendees will develop skills to effectively communicate data insights and analytical results to different audiences through visualizations and presentations.
- It will cover ethical issues related to data science, including data privacy, bias, and responsible use of analytics, ensuring participants understand best practices in ethical data handling..
- Participants will gain insights into current trends, emerging technologies, and common challenges in the field of data science and analytics, preparing them for future developments in the industry.

The course is very useful to the students and their feedback is positive. The management and principal of DRK institute of Science and Technology thanked the participants for making the program successful.



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### Department of Computer Science and Engineering



Program Coordinator

N. Nagus  
HoD

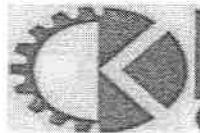


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Department of Computer Science and Engineering

## ATTENDANCE SHEET

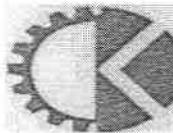
A TWO WEEKS Certification Course on “Data Science and Analytics”



**Department of Computer Science and Engineering**



**Department of Computer Science and Engineering**

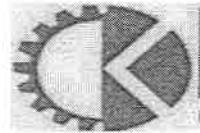


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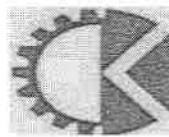


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100.	SURAJ PANDEY	II YEAR	P	P	P	P	P	P	P	D	P	P
101.	TABASSUM FATHIMA	II YEAR	P	P	P	P	P	P	P	D	P	P
102.	TAMMA SUNIL	II YEAR	P	P	P	P	P	P	P	D	P	P
103.	TEJESHWAR GUPTA GOLLA	II YEAR	P	P	P	P	P	P	P	D	P	P
104.	THOSHKAN BHAVANI	II YEAR	P	P	P	P	P	P	P	D	P	P
105.	THOTA MAHESHWARI	II YEAR	P	P	P	P	P	P	P	D	P	P
106.	THUMMALA MANOJ REDDY	II YEAR	P	P	P	P	P	P	P	D	P	P
107.	UPENDRAM VINOD KUMAR RAJU	II YEAR	A	A	P	P	A	A	A	A	P	A
108.	V SRIKANTH	II YEAR	P	P	P	P	P	P	P	D	P	P
109.	V SUNDER CHAITANYA	II YEAR	P	P	P	P	P	P	P	D	P	P
110.	VALLEPU VINAY	II YEAR	P	P	P	P	P	P	P	D	P	P
111.	VEGERNA ANAND VARMA	II YEAR	P	P	P	P	P	P	P	D	P	P
112.	VONTERI SHREYA	II YEAR	P	P	P	P	P	P	P	D	P	P
113.	YELURI SAHITHI	II YEAR	P	P	P	P	P	P	P	D	P	P
114.	MALYALA ASHISH VARDHAN	II YEAR	P	P	P	P	P	P	P	D	P	P
115.	NAKKA DINESH	II YEAR	P	P	P	P	P	P	P	D	P	P
116.	BANUPRAKASH	II YEAR	P	P	P	P	P	P	P	D	P	P
117.	KOMMULA SIDDHARTH	II YEAR	P	P	P	P	P	P	P	D	P	P
118.	MANDALA MANIKUMAR	II YEAR	P	P	P	P	P	P	P	D	P	P
119.	MANEPALLY DEEPIKA	II YEAR	P	P	P	P	P	P	P	D	P	P
120.	PAILA SWATHI	II YEAR	P	P	P	P	P	P	P	D	P	P

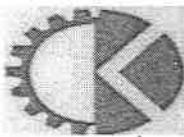


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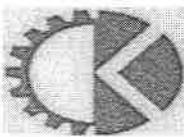
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# **DRK Institute of Science and Technology**

(Approved by AICTE & Affiliated to JNTUH)

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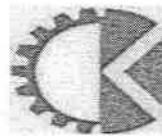
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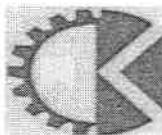
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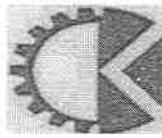
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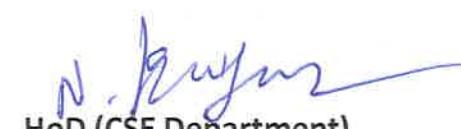
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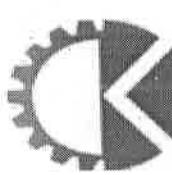
308.	PEDDINTI MAMATHA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
309.	PERAM BHARGAVI	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
310.	RAHUL KUMAR MISHRA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
311.	RAMPALLY AKHILA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
312.	RAYALA NANDINI	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
313.	SACHIN KUMAR SHARMA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
314.	SAI KUMAR YADAV BOLLA BOINA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
315.	SANDILA SRIDHAR	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
316.	SIBBALA SAITEJA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
317.	SIBINAKA SRIJA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
318.	SIRIGIRI SAI GIRISH	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
319.	SUGUREDDY ARAVIND REDDY	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
320.	THANGALA PALLY BHARANI	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
321.	VALASANI SRUJANA	IV YEAR	P	P	P	P	P	P	P	P	P	P	P
322.	VANAMALA ANIL KUMAR	IV YEAR	P	P	P	P	P	P	P	P	P	P	P



Program Coordinator



HoD (CSE Department)



(A)

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(16)  
20

1. Which of the following is not a type of supervised learning  
A) Classification      B) Regression      C) Clustering      D) Time Series Analysis  
[C]
2. What is the purpose of a confusion matrix in classification problems  
A) To visualize the distribution of data      B) To measure the performance of a classification algorithm  
C) To assess the accuracy of a regression model      D) To handle missing values  
[B]
3. Which of the following is a common method for handling missing data  
A) Deleting rows with missing values      B) Imputation with mean or median  
C) Using a different algorithm      D) Both A and B  
[D]
4. In which situation would you use a decision tree algorithm  
A) For predicting continuous numerical values      B) For predicting categorical outcomes  
C) For clustering similar item      D) For dimensionality reduction  
[B]
5. What does the term 'overfitting' refer to in machine learning  
A) When a model performs well on training data but poorly on new, unseen data  
B) When a model is too simple to capture the underlying patterns in the data  
C) When data is missing from the dataset  
D) When features are too correlated with each other  
[A]
6. Which algorithm is primarily used for dimensionality reduction  
A) k-Nearest Neighbors      B) Principal Component Analysis (PCA)  
C) Random Forest      D) Support Vector Machines  
[B]
7. What does the term 'bias-variance tradeoff' describe  
A) The tradeoff between the speed and accuracy of a model  
B) The balance between how well a model generalizes and its complexity  
C) The compromise between the number of features and the amount of data  
D) The selection of algorithms based on training time  
[B]
8. Which of the following metrics is most commonly used to evaluate the performance of a regression model  
A) Accuracy      B) Precision      C) Mean Absolute Error (MAE)      D) F1 Score  
[C]



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9. What is 'normalization' in the context of data preprocessing  
A) Adjusting the scale of features to fall within a specified range      B) Removing outliers from the data  
C) Filling in missing values with the mean      D) Encoding categorical variables into numerical format
10. Which method is used to evaluate the performance of a model on unseen data  
A) Cross-validation      B) Grid search      C) Hyperparameter tuning      D) Feature scaling
11. What is 'ensemble learning'  
A) A method for increasing the dataset size performance  
B) Combining multiple models to improve  
C) A technique for handling missing values dataset  
D) A way to reduce the dimensionality of the
12. Which of the following is a type of unsupervised learning algorithm  
A) Linear Regression      B) Support Vector Machines      C) k-Means Clustering      D) Naive Bayes
13. What is the 'p-value' used for in hypothesis testing  
A) To measure the strength of the correlation between two variables  
B) To determine the likelihood of observing the data under the null hypothesis  
C) To evaluate the performance of a regression model  
D) To find the optimal parameters for a model
14. Which of the following methods is used to handle class imbalance in classification problems  
A) Feature scaling  
Technique  
B) SMOTE (Synthetic Minority Over-sampling  
C) Principal Component Analysis  
D) Cross-validation
15. What does the ROC curve represent  
A) The tradeoff between precision and recall  
B) The tradeoff between true positive rate and false positive rate  
C) The accuracy of a classification model  
D) The performance of a regression model



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16. In time series analysis, what is 'seasonality'

- A) Random fluctuations in the data      B) Long-term trends in the data  
C) Repeating patterns at regular intervals      D) Irregular changes that do not follow any specific pattern

[ C ]

17. Which statistical test is used to compare the means of two independent groups

- A) Chi-Square Test      B) t-Test      C) ANOVA      D) Pearson Correlation

[ A ]

18. What is the 'curse of dimensionality'

- A) The issue of having too few features in a dataset  
B) The problem of high computational cost in large datasets  
C) The difficulty in analyzing data with too many features  
D) The challenge of having too many missing values in the data

[ ] L

19. Which of the following is an example of a classification algorithm

- A) Linear Regression      B) Naive Bayes      C) k-Means Clustering      D) Principal Component Analysis

[ B ]

20. What does 'feature engineering' involve

- A) Creating new features from existing data to improve model performance  
B) Choosing the best model for a given problem  
C) Scaling features to the same range  
D) Removing irrelevant features from the dataset

[ A ]



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A TWO WEEKS Certification Course on Data Science and Analytics

#### Grade Sheet

S.No	Name of Student	YEAR	Grade
1.	ADDANKI THARUN KUMAR	II YEAR	A+
2.	ADINA DILIP KUMAR	II YEAR	A
3.	ALLADA PRATHYUSHA	II YEAR	B+
4.	ANJANI GUPTA	II YEAR	B
5.	ANNAMDAS AKASH	II YEAR	A+
6.	BADHA SANDHYA	II YEAR	A
7.	BATTU MADHUSUDHAN REDDY	II YEAR	A
8.	BEJAWADA RAVINDRA SAI	II YEAR	B+
9.	BHANDARI SRINIVASA SHESHA ADITHYA	II YEAR	B
10.	BHETALAM LOKESH VARMA	II YEAR	B
11.	BIRADAR OMKAR	II YEAR	A+
12.	BIRADHAR SHRIYA	II YEAR	A
13.	BOINI SAI TEJA	II YEAR	A
14.	BOYINA SAI GAYATRI	II YEAR	A+
15.	BRAMHADEVINI PRABHU CHARAN REDDY	II YEAR	B+
16.	CH PAVAN SAI	II YEAR	B
17.	CH SAI SUPRAJA	II YEAR	B
18.	CHILLARA VENKATA VARUN	II YEAR	B+
19.	CHINTHALAGATTU KRISHNA VENI	II YEAR	A+
20.	D YASHWANTH	II YEAR	Absent
21.	DHARMAPURI PRANAY	II YEAR	A+
22.	DOMAL ABHILASH	II YEAR	A
23.	DONAKANTI ANISHITH REDDY	II YEAR	A
24.	DORASAKALA MOUNIKA	II YEAR	A



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25.	ERANKI SURYA SARVESWARA RAO	II YEAR	A+
26.	G.SRI SIVANI	II YEAR	A
27.	GANGI SWATHI	II YEAR	A+
28.	GEDDADA ANUSHA	II YEAR	A
29.	GOJALA RISHI	II YEAR	A
30.	GOLLAKOTI PARDHA SARADHI	II YEAR	A
31.	GOPALAPURAM VARSHITHA	II YEAR	A+
32.	GOUD ABHISHEK GOUD	II YEAR	B+
33.	GUNDULUR AYESHA	II YEAR	B+
34.	GUNTAKA MEENA	II YEAR	B
35.	INAGANTI YASASWI	II YEAR	A
36.	INDUKURI AKASH VARMA	II YEAR	B
37.	KAGITAPALLI ABHISHEK	II YEAR	A
38.	KAILASH GUPTHA	II YEAR	A
39.	KAIRAMKONDA AKSHITH	II YEAR	B+
40.	KAITHAPURAM SAI HARSHITH	II YEAR	B+
41.	KAKARA PRANAY	II YEAR	B
42.	KARI SAI CHETAN	II YEAR	A+
43.	KODUMURU HEMANTH SAI	II YEAR	A
44.	KOMMU SRAVYA	II YEAR	B+
45.	KOTA SAICHANDH	II YEAR	B
46.	KOTARI SRI VISHAL	II YEAR	A+
47.	KOTHA PRANEETH KUMAR	II YEAR	A
48.	KUMMARI SWATHI	II YEAR	A+
49.	KUMMARIKUNTA PRANAY	II YEAR	A
50.	LALITHA SREE KONERU	II YEAR	B+
51.	VADLA AKHIL	II YEAR	B
52.	ACHANTA RAMANJANEYA KUMAR	II YEAR	B+
53.	CHAVVA SRAVAN KUMAR	II YEAR	B



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54.	G MANOJ KUMAR	II YEAR	B+
55.	KAMMARI DATTAPRASAD	II YEAR	B
56.	KOLLAPUDI MOHAN KRISHNA	II YEAR	A+
57.	CHUKKA LIKHITHA	II YEAR	A
58.	DESHATTI SANDHYA	II YEAR	B+
59.	DUNDIGAL VAMSI KRISHNA	II YEAR	B
60.	GAJJALAKONDA RAJASEKHAR	II YEAR	A+
61.	GODUGU RAMYA	II YEAR	A
62.	GONE VEENA	II YEAR	A
63.	GOuni ARUN	II YEAR	B+
64.	H A KRISHNA KUMAR DEVALRAJU	II YEAR	B
65.	HANMANTHULA PREETHIKA	II YEAR	B+
66.	KANDAKATLA RACHANA	II YEAR	B
67.	KASIREDDY SUMANTH REDDY	II YEAR	A+
68.	KOKKULA RAMYA	II YEAR	A
69.	LINGIDI PHANEENDRA KUMAR	II YEAR	B+
70.	MAMIDALA AKSHARA	II YEAR	B
71.	MASANGUDEM SIRISHA	II YEAR	A+
72.	MASARAM JAYANTH	II YEAR	A
73.	MOHAMMAD FAREED	II YEAR	A
74.	MOHAMMED AFFAAN	II YEAR	B+
75.	MULLEY BALAKRISHNA	II YEAR	B
76.	MUNIGANTI MANIDEEP	II YEAR	A+
77.	MUSKU KEERTHANA	II YEAR	A
78.	NAMALA JAYASRI	II YEAR	A
79.	NAMPALLY DHARMAPURI	II YEAR	B+
80.	NATTE NIKITHA SREE	II YEAR	B
81.	NUVVULA KEERTHANA	II YEAR	A+
82.	ORSU GANESH	II YEAR	A
83.	PAIDIPELLY SANTHOSH KUMAR	II YEAR	A



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84.	PANCHANGAM RAMYA SHRUTHI	II YEAR	A
85.	PAPISSETTY SRAVYA	II YEAR	A
86.	PEDDADA RAM CHANDER	II YEAR	A
87.	PENMETSA LAKSHMI NARASIMHA RAJU	II YEAR	B+
88.	PENTYALA SAI KRISHNA TEJA	II YEAR	B
89.	PINNAMARAJU MANENDHRA VARMA	II YEAR	B+
90.	PODUGU VAMSHI	II YEAR	A+
91.	POTTIGARI YEGNESHVRR	II YEAR	A
92.	PULAPARTHI KUMAR NAGA SAI RAJA	II YEAR	B+
93.	RACHABATTUNI DINESH PRABHU	II YEAR	B
94.	RALLABANDI SUJAN	II YEAR	B+
95.	RAVUPALLI SATHYA PRAKASH	II YEAR	Af
96.	SALE NAGESHWARI	II YEAR	A
97.	SHAIK ABDUL MUQTADIR	II YEAR	B+
98.	SHASHANK RAI	II YEAR	A
99.	SUGANDHAM VASANTA MOUNIKA	II YEAR	A
100.	SURAJ PANDEY	II YEAR	A
101.	TABASSUM FATHIMA	II YEAR	A+
102.	TAMMA SUNIL	II YEAR	A+
103.	TEJESHWAR GUPTA GOLLA	II YEAR	A+
104.	THOSHKAN BHAVANI	II YEAR	A
105.	THOTA MAHESHWARI	II YEAR	A
106.	THUMMALA MANOJ REDDY	II YEAR	A
107.	UPENDRAM VINOD KUMAR RAJU	II YEAR	Absent
108.	V SRIKANTH	II YEAR	A+
109.	V SUNDER CHAITANYA	II YEAR	B
110.	VALLEPU VINAY	II YEAR	B+
111.	VEGERNA ANAND VARMA	II YEAR	B
112.	VONTERI SHREYA	II YEAR	A



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114.	MALYALA ASHISH VARDHAN	II YEAR	A
115.	NAKKA DINESH	II YEAR	B
116.	BANUPRAKASH	II YEAR	B+
117.	KOMMULA SIDDHARTH	II YEAR	B
118.	MANDALA MANIKUMAR	II YEAR	B
119.	MANEPALLY DEEPIKA	II YEAR	A+
120.	PAILA SWATHI	II YEAR	A
121.	PATNALA LAKSMI	II YEAR	A+
122.	SAI CHARAN D	II YEAR	A
123.	SHAIK FEROZ AHAMED BEG	II YEAR	A
124.	SIRIGIRI BHOOOMIKA	II YEAR	A
125.	SOMANI ABDULLA SURYA TEJA	II YEAR	B+
126.	SOMAROUTHU HIMASILPA	II YEAR	B
127.	TALARI MANIKYAM	II YEAR	B+
128.	YELURU NAVEEN	II YEAR	B
129.	DYAVANAPALLY SRI LEKHA	II YEAR	B
130.	B AKHILA	III YEAR	A+
131.	B MANASA	III YEAR	A
132.	BALLA GIRISH NAG	III YEAR	A
133.	CHALLA VINITHA	III YEAR	B+
134.	AMARANENI LIKHITHA	III YEAR	B
135.	AKKINENI SAI SANDEEP	III YEAR	A+
136.	GUTHA MANICHANDU	III YEAR	A
137.	K V S R JAYA KRISHNA PRASAD	III YEAR	A
138.	KOTHAPALLI SAI SNEHA	III YEAR	A
139.	A NAVEEN KUMAR	III YEAR	A+
140.	AGILE DINESH REDDY	III YEAR	A+
141.	ALLA PAVANI	III YEAR	A+
142.	ALLE SOWMYA	III YEAR	A



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143.	APPAIAHGARI PRAVEEN REDDY	III YEAR	A+
144.	ATHULURI SOWMYA	III YEAR	A+
145.	B H PRIYA SINGH	III YEAR	A
146.	BACHU PAVAN SAI PANDU	III YEAR	B+
147.	BORRA GREESHMA	III YEAR	B
148.	CHALLA SHARAT KUMAR REDDY	III YEAR	A+
149.	CHELUKALA SAI KUMAR	III YEAR	A
150.	CHEPOOR SUREKHA RAJ	III YEAR	A
151.	DAMMAGARI BHARGAVI	III YEAR	A
152.	DANDAMUDI MARUDWATHI	III YEAR	B+
153.	DEGA HARISH REDDY	III YEAR	B+
154.	DONGARI SHRUVANI	III YEAR	B+
155.	G SINDHUJA	III YEAR	A
156.	GAJJADA ABHISHEK REDDY	III YEAR	A
157.	GOLLAKOTI PRITHVI RAJ	III YEAR	A
158.	GUDIMETLA PRUDHVI SAI SURESH	III YEAR	A
159.	GUDISA ANVESH KUMAR REDDY	III YEAR	A+
160.	GUMMADAVELLI SAI SATHVIK	III YEAR	A+
161.	GUMMADI SUMESH CHANDRA	III YEAR	B+
162.	GUNDALA SARATH REDDY	III YEAR	B+
163.	ORUGANTI PRAVEEN	III YEAR	B+
164.	J PAVAN KUMAR	III YEAR	B+
165.	JATKALA SUPRADEEP	III YEAR	B+
166.	K SAI KRISHNA YADAV	III YEAR	B+
167.	K SRI PADMAJA	III YEAR	B+
168.	KAGITHA VAASANTHI	III YEAR	A
169.	KALAPALA SRI LAKSHMI GAYATHRI	III YEAR	A
170.	KANAGALA ARAVIND CHOWDARY	III YEAR	A
171.	KANDURI SAI SRINIVAS	III YEAR	A



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172.	KASAM SAI KIRAN	III YEAR	A
173.	KATINEEDI SAI PAVAN	III YEAR	B+
174.	KOLA TEJASAI	III YEAR	B
175.	KOMMALAPATI SAISURYA	III YEAR	A+
176.	KOMMI REDDY MAHESH REDDY	III YEAR	A+
177.	LANKAYAPALLY KUNDHANA REDDY	III YEAR	A
178.	MADISETTY HARIKIREET	III YEAR	A+
179.	MADISHETTY MIDHUN	III YEAR	B+
180.	MANNAM AKHIL	III YEAR	A
181.	MODUKURI CHANDINI	III YEAR	A+
182.	MOHAMMED SALEEMUDDIN	III YEAR	A
183.	MOTIPALLI VINDHYA	III YEAR	A+
184.	MUDDADA VAMSI KRISHNA	III YEAR	A
185.	MURIKI MOUNIKA	III YEAR	A
186.	NADUKUDA ROHITH	III YEAR	B+
187.	DOOSA SHASHANK	III YEAR	B
188.	GADI AMRUTH VARMA	III YEAR	B
189.	VANGA SAHITH	III YEAR	A+
190.		III YEAR	A
191.	VARAKANTI VENUGOPAL YADAV	III YEAR	B+
192.	VEMULAPALLI SARAN	III YEAR	B
193.	NALLAMOTHU NAVEEN KUMAR	III YEAR	B+
194.	NALLURI HARSHITHA	III YEAR	B
195.	NARALA JAYA BHARATH REDDY	III YEAR	A+
196.	NEELI SNEHA	III YEAR	A
197.	NEHA KUMARI	III YEAR	A
198.	NEHA SULTHANA	III YEAR	A+
199.	NOMULA PRANEETH	III YEAR	B+
200.	PADI RATNASUBHASHINI	III YEAR	B+
201.	PALAMURI AISHWARYA GOUD	III YEAR	B+



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202.	PARUCHURI THANU SREE	III YEAR	A+
203.	PEDAGANI ABHINAV GOUD	III YEAR	A+
204.	PEDDADA SAI SRINIJA	III YEAR	A+
205.	PEDDI JAHNAVI CHOWDARY	III YEAR	A
206.	PITHANI SRIMAHADEVI	III YEAR	A
207.	POTHULA PARAMESHWAR REDDY	III YEAR	B+
208.	POTLURI MITHIL	III YEAR	B
209.	RAPARLA BABU RAO	III YEAR	A+
210.	RUCHITHA GIDIGAM	III YEAR	A+
211.	SAMINENI YAMINI SARASWATHI	III YEAR	A+
212.	SAMREEN	III YEAR	B
213.	SARIKONDA SAI SIRISHA	III YEAR	B+
214.	SATYAWADA SAI KUMAR	III YEAR	B
215.	SHAGGARI SAI PRANEETH	III YEAR	A+
216.	SHAIK THOUFEEQ	III YEAR	A+
217.	TAMALI PRIYANKA	III YEAR	A
218.	TELUGU SAI MANOJ	III YEAR	A
219.	THIPPARTHI NAVADEEP REDDY	III YEAR	A
220.	TUMMALA LAKSHMI PRASANNA	III YEAR	B+
221.	V KOWSHIK SUMANTH	III YEAR	B
222.	V PRITHVI RAJ	III YEAR	A+
223.	VADRANGI SWETHA	III YEAR	A+
224.	VALLURI NAVEEN	III YEAR	A+
225.	VEERLA NAGA SUSHMITHA	III YEAR	A+
226.	VEMPALI YAMINI	III YEAR	B
227.	Y BHARATHSIMHA REDDY	III YEAR	B
228.	YACHE RAHUL REDDY	III YEAR	B+
229.	YEVTIKAR NAGRAJ MAROTI	III YEAR	B
230.	K PRABHAKARA TEJA	III YEAR	A+
231.	BHYRI MOHAN RAO	III YEAR	A+



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### Department of Computer Science and Engineering

232.	BIRADAR MANOJ KUMAR	III YEAR	A+
233.	BOLLA SRINIVAS	III YEAR	A
234.	BOROLLA SRAVAN KUMAR	III YEAR	B
235.	GODUGU ARUN RAJ KUMAR	III YEAR	A+
236.	GUTHIMAMIDI HARSHA VARDHAN	III YEAR	A
237.	HASEENA	III YEAR	A
238.	KUMMARI RAJKUMAR	III YEAR	A+
239.	LACHAPETA NIKITHA	III YEAR	A+
240.	MAHESHWARAM SAI KRISHNA	III YEAR	A+
241.	MANE RAKESH	III YEAR	A
242.	MARMAMULA AKSHAYA	III YEAR	B+
243.	MYATHARI MANJULA	III YEAR	B
244.	NAGULA PRATHYUSHA	III YEAR	B
245.	NAGULA SUSHMA SRI	III YEAR	B+
246.	NALLAGANTI ANOOSHA	III YEAR	B
247.	NAWADE ANKITHA	III YEAR	B
248.	PARISE JAYALEELA	III YEAR	Abgent
249.	SANGAM NAGARAJ	III YEAR	B+
250.	SARELLA SAI DURGA PRASAD	III YEAR	B
251.	SREEDEVI	III YEAR	A+
252.	A NITISH RAO	IV YEAR	A
253.	AYINENI PUNDARI KAKSHA	IV YEAR	B+
254.	GULLAPALLI NAGA SRUTHI	IV YEAR	B
255.	A NEHA	IV YEAR	B+
256.	ABHISHEK TRIPATHI	IV YEAR	B
257.	AGNIKULAKSHATRIYA MANJU SINGH	IV YEAR	A+
258.	ALLA REETHIKA	IV YEAR	A
259.	ALLAM VARSHA	IV YEAR	A+
260.	ANUGU AKHILESH	IV YEAR	Abgent



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### Department of Computer Science and Engineering

261.	BADAL CHOUDHARY	IV YEAR	A
262.	BADDIPADIGE HARISH KUMAR	IV YEAR	A
263.	BANDE SHUBHANGI	IV YEAR	A
264.	BANDI MANICHANDANA	IV YEAR	A+
265.	BHUPATHI RUCHITHA	IV YEAR	B
266.	CHALLAGUNDLA SRILEKHA	IV YEAR	B+
267.	DEVAJI SANTOSHI	IV YEAR	B
268.	DURGARAJU ROHINI	IV YEAR	B+
269.	ELURU ACHYUTH	IV YEAR	A+
270.	GADDAM LAVA KUMAR	IV YEAR	A
271.	GADDAM SHIVANI	IV YEAR	B
272.	GADDAM SOUMYA	IV YEAR	B+
273.	GADDULA SAI NEHA PUJITHA	IV YEAR	A+
274.	GANGISETTI SAI MANOGNA	IV YEAR	A+
275.	GORENKALA MADHUSUDHANA RAO	IV YEAR	B+
276.	GOTTAPU PRABHU DEVA	IV YEAR	B
277.	GUNTI HARI CHANDANA	IV YEAR	B+
278.	GURUJALA ANISHREDDY	IV YEAR	A+
279.	JYOTHI KALIDINDI	IV YEAR	A+
280.	K SUSHMA	IV YEAR	B+
281.	KADIYALA ANJALI SREEJA	IV YEAR	B
282.	KALVA JAGADEESH	IV YEAR	A+
283.	KAMMARI VAMSHI KRISHNA CHARY	IV YEAR	A
284.	KANTE SWETHA NAGA PADMINI	IV YEAR	A
285.	KATTA PRASHANTHI	IV YEAR	A+
286.	N AKASH	IV YEAR	A
287.	NALLURI AVINASH	IV YEAR	B+
288.	SHAIK NAZEER BASHA	IV YEAR	B
289.	P V S ABINAV	IV YEAR	Absent



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290.	PENDURTHI AMITH SAI KRISHNA	IV YEAR	A+
291.	CHANDRAKANTH K	IV YEAR	A
292.	B SAI CHARAN	IV YEAR	B+
293.	GOLLA SRINIVAS	IV YEAR	B
294.	KONATHAM PRAVEEN KUMAR	IV YEAR	A+
295.	KOPPISETTI SAI VENKATA SRIKANTH	IV YEAR	A
296.	KOPPULA UHA	IV YEAR	B
297.	KULKARNI SRI DURGA	IV YEAR	B+
298.	KUMMARI BHAGYA LAKSHMI	IV YEAR	B
299.	M PRIYANKA	IV YEAR	A+
300.	MADHAVARAM HARISH	IV YEAR	A
301.	MALREDDY LASYA	IV YEAR	A
302.	MENGANI AVINASH	IV YEAR	Absent
303.	MOTHUKURI MADHURI	IV YEAR	B+
304.	MUDIKE SUMYUKTHA YADAV	IV YEAR	B
305.	NAMBURI PREETHAM VARMA	IV YEAR	A+
306.	NANDAIAHAGARI SRIJA	IV YEAR	A
307.	NARENDRULU NEHA	IV YEAR	A
308.	PEDDINTI MAMATHA	IV YEAR	A+
309.	PERAM BHARGAVI	IV YEAR	A+
310.	RAHUL KUMAR MISHRA	IV YEAR	A
311.	RAMPALLY AKHILA	IV YEAR	A
312.	RAYALA NANDINI	IV YEAR	B+
313.	SACHIN KUMAR SHARMA	IV YEAR	B+
314.	SAI KUMAR YADAV BOLLABOINA	IV YEAR	B
315.	SANDILA SRIDHAR	IV YEAR	A
316.	SIBBALA SAITEJA	IV YEAR	A+
317.	SIBINAKA SRIJA	IV YEAR	B
318.	SIRIGIRI SAI GIRISH	IV YEAR	B+
319.	SUGUREDDY ARAVIND REDDY	IV YEAR	B



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**Department of Computer Science and Engineering**

320.	THANGALA PALLY BHARANI	IV YEAR	B
321.	VALASANI SRUJANA	IV YEAR	Bf
322.	VANAMALA ANIL KUMAR	IV YEAR	B

Program coordinator

HoD (CSE Department)



## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

Mr./Miss J PAVAN KUMAR

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON

### **"DATA SCIENCE AND ANALYTICS"**

ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FROM 23/11/2020 TO 03/12/2020

  
**CO-ORDINATOR**

  
**HOD**

  
**PRINCIPAL**

DRK Institute of Science & Technology  
Bowrampet, Quthbullapur,  
Hyderabad - 500 043.



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## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

Mr./Miss BORRA GREESHMA

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON

### **“DATA SCIENCE AND ANALYTICS”**

ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FROM 23/11/2020 TO 03/12/2020

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HOD  
**PRINCIPAL**

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DRK Institute of Science & Technology  
Bowrampet, Quthbullapur,  
Hyderabad - 500 043.



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**Science and Technology**  
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### CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

✓ Mr./Miss VANGA SAHITH

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON  
**“DATA SCIENCE AND ANALYTICS”**  
ORGANIZED BY DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
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**CO-ORDINATOR**

  
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## **CERTIFICATE OF APPRECIATION**

THIS IS TO CERTIFY THAT

Mr./Miss ALLAM VARSHA

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON

### **“DATA SCIENCE AND ANALYTICS”**

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## **CERTIFICATE OF APPRECIATION**

✓ THIS IS TO CERTIFY THAT

Mr./Miss ELURU ACHYUTH

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON  
**“DATA SCIENCE AND ANALYTICS”**  
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**HOD**

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Hyderabad - 500 043.



## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

Mr./Miss MURIKI MOUNIKA

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON

### "DATA SCIENCE AND ANALYTICS"

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Hyderabad - 500 043.



## CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

Mr./Miss GADDAM SHIVANI

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON  
**"DATA SCIENCE AND ANALYTICS"**

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### CERTIFICATE OF APPRECIATION

THIS IS TO CERTIFY THAT

Mr./Miss G. SINDHUJA

HAS PARTICIPATED IN A TWO WEEK CERTIFICATE PROGRAM ON

### **“DATA SCIENCE AND ANALYTICS”**

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FROM 23/11/2020 TO 03/12/2020

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Hyderabad - 500 043.



( Bowrampet (v), Near pragathi nagar, on Miyapur-medchal high way, Quthbullapur,  
Medchal, Hyd-500043)

### Department of Computer science and Engineering

#### FEEDBACK FORM

**Course Title:** A Two-week Certification Course on Data Science and Analytics

**Course Code:** 2020CS601

**Name of the Participant:** K. Sushma

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topics		✓		
Duration of course was appropriate	✓			
Course met the overall expectations		✓		

Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained	✓			
Queries and doubts were cleared by faculty		✓		

*sushma*

Signature of the Participant



( Bowrampet (v), Near pragathi nagar, on Miyapur-medchal high way, Quthbullapur,  
Medchal, Hyd-500043)

### Department of Computer science and Engineering

#### FEEDBACK FORM

**Course Title:** A Two-week Certification Course on Data Science and Analytics

**Course Code:** 2020 CSE01

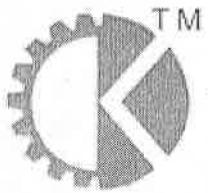
**Name of the Participant:** Nadukuda Rohith

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient		✓		
The course gives fair exposure to industry-based topics	✓			
Duration of course was appropriate	✓			
Course met the overall expectations		✓		

Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained	✓			
Queries and doubts were cleared by faculty	✓			

Signature of the Participant



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### Department of Management

DRKIST/MBA/AOP/2020-21/02

DATE: 26/10/2020

#### **CIRCULAR**

Ten days Certification Course on “**Integrated Marketing Communication**” has been conducting by MBA Department from **02-11-2020** to **12-11-2020**. Interested students can enroll their names to **Ms. SUSEELA GRACE PADMA** (Event Coordinator) on or before **30/10/2020**. Certificate will be issued to the students after successful completion of the course. Herewith the department attached the detailed content of the course.

Sl. No	Course Title	Date of commencement	Venue
1.	Integrated Marketing Communication	02/11/2020	Seminar Hall (010)

  
**HOD**

Copy to

1. Copy to Principal
2. Copy to Office room
3. Copy to Notice Board
4. Head of MBA Dept.
5. Head of ECE.
6. Head of EEE.
7. Head of MECH.
8. Head of CSE.

## ABOUT THE DRKIST

The era of success of DRK institute of science and technology Institutions has started way back in 2004 when it was established by Mr.D.B Chandra Sekhar Rao in the fond memory of his late father Sri Dasari Rama Kotaiah garu. Mr. D. B chandra Shekar Rao is an eminent& successful entrepreneur, who has subsequently decided to focus on high quality education with the philanthropic motive, to act as a leader to promote economic & industrial growth of the country. DRK Institute of science and technology belongs to the DRK Educational Society. DRK Group has envisaged significant investment of capital and resources to give shape to the development of the institute, In terms of Infrastructure, academic resources and career development for its students. A vibrant effort has been made to consciously invest to improve the conceptual and technical skill of the students.

## ABOUT THE MBA DEPARTMENT

MBA at DRK is not just about receiving a degree. It is about the students to stand as an Innovator and leader to lead their business organizations in future and the management skills obtained from this course aids the business to new heights. Structure of the course is designed in such a way that it improves student's theoretical and practical knowledge of how business can operate and run in a successful path. It sharpens the students overall communication skills, strategic thinking, leadership abilities, and decision-making skills.

## ABOUT THE CERTIFICATE PROGRAM

Integrated Marketing Communication helps your brand stand out. By syncing your marketing efforts, integrated marketing communication ensures that your message reaches your audience loud and clear, no matter where they are. Whether it's through social media, TV ads, or email campaigns, Integrated Marketing Communication helps your brand speak with one voice, making it more memorable and trustworthy.

### TOPICS COVERED

- Role of Advertisement and Promotions in segmentation.
- Advertising and Promotion Direct Marketing
- Online marketing and mobile advertising.
- Integrated PR into promotional mix
- Marketing public relation function
- Goals and scope of publicity
- Publicity and sponsorships

## A 10 DAY CERTIFICATE PROGRAMM

On

### Integrated Marketing Communication

NOV 2<sup>nd</sup> TO NOV 12<sup>th</sup> 2020

Organized by MBA  
Department



DRK INSTITUTE OF SCIENCE& TECHNOLOGY  
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### Chief Patron

Sri. D. B. Chandra Shekar Rao  
Chairman

### Patrons

Sri. D. Santhosh  
Secretary

Sri. D. sriram  
Treasurer

Dr. K. Venkata Subbaiah  
Principal

### Resource person

Mr. K. Rajesh,  
Assistant Professor  
MBA

Mrs. A. Latha  
HoD, Dept. of MBA

Coordinator  
Ms Suseela Grace  
Padma  
Assist. Professor

### Address for communication

Ms. Suseela Grace Padma  
Coordinator, MBA, Assistant Professor  
9849653498  
[susellaG@yahoo.com](mailto:susellaG@yahoo.com)

### Registration Details

Last Date for  
Registration  
10th  
October  
2020

“A key to success is to  
assemble a strong and  
stable management  
team.”

### REGISTRATION FORM A 10 DAY CERTIFICATE PROGRAMME On Integrated Marketing Communication

Name: Mr. /Ms.: \_\_\_\_\_

Reg .No: \_\_\_\_\_

Department: \_\_\_\_\_

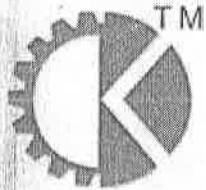
Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Signature of  
Participant



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### Department of Management

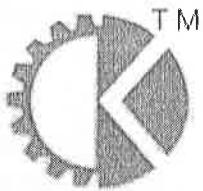
**Course Title: Certification Course on “Integrated Marketing Communication”**

Sl. No	DATE	Course Content
1.	02/11/2020	Definition-scope-Objectives-functions-principles of advertisement – Enhancing Brand Equity through IMC.
2.	03/11/2020	Role of Advertisement and Promotions in Segmentation, Targeting and Positioning
3.	04/11/2020	Media plan – Type and choice criteria – Reach and frequency of advertisements – Cost of advertisements - Traditional vs Modern Media
4.	05/11/2020	Online and Mobile Advertising-Social Media for Advertising and Promotion-Direct Marketing and Other Media-
5.	06/11/2020	Advertising Media: Planning and Analysis-Measuring Ad Message Effectiveness
6.	07/11/2020	sales promotion techniques – Trade oriented and consumer oriented- Consumer Sales Promotion
7.	09/11/2020	Sampling and Couponing-Consumer Sales Promotions: Premiums and Other Promotions
8.	10/11/2020	Introduction – Meaning – Objectives –Scope-Functions-integrating PR in to Promotional Mix
9.	11/11/2020	Marketing Public Relation function- Process of Public Relations-advantages and disadvantages of PR
10.	12/11/2020	Goals of Publicity – Scope of Publicity – Importance of Publicity – Public Relations, Word-of-Mouth Influence and Sponsorships-Packaging, Point of Purchase Communications and Signage

*Sushma*  
Event Coordinator

*A. Mathe*  
HoD

*him*  
Principal



## DRK INSTITUTE OF SCIENCE & TECHNOLOGY

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### Department of Management

Name of the Course: Certificate Course on "Integrated Marketing Communication"

#### Registration Details

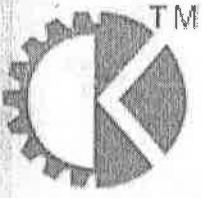
S.No	Name of Student	Year	Signature
1	ADHIKARI DURA KUMARI	I YEAR	D. Kumari
2	AFREEN BEGUM	I YEAR	Begum
3	ALLAM VENKATA MADHURI	I YEAR	A. V. Madhuri
4	BHERI SWETHA	I YEAR	Swetha
5	BAIRESETTI GNANA SOWJANYA	I YEAR	Gnana Sowjanya
6	BANDARI SAIKUMAR	I YEAR	B. Saikumar
7	BANDARI SOUJANYA	I YEAR	Soujanya
8	CHINTA SRAVANTHI	I YEAR	Sravanthi
9	DANDU SUSMITHA	I YEAR	Susmitha
10	DINDIGAALA SANDYARANI	I YEAR	Sandyarani
11	DODDUNOORI MANASA	I YEAR	Manasa
12	EMIMAH JALA	I YEAR	Jala
13	ENNAMANENI ASHWITHA	I YEAR	Ashwitha
14	GARIKIMUKKULA ANURADHA	I YEAR	G. Anuradha
15	GATTU SOWMYA	I YEAR	Sowmya
16	K ROHITHA	I YEAR	Rohitha
17	KALERU SRILEKHA	I YEAR	Srilekha
18	KAMMETA BHAVANA	I YEAR	Bhavana
19	KETHIREDDY NEERAJA	I YEAR	Kethireddy Neeraja
20	KODURI SANTHOSH KUMAR	I YEAR	Santhosh Kumar
21	LABBA MOHINI	I YEAR	Labba Mohini
22	LAXMI KUMARI	I YEAR	Laxmi Kumari
23	DAPPU SHIRISHA	I YEAR	D. Shirisha
24	M VANI	I YEAR	Vani
25	MADDURU MADHURAMANI	I YEAR	Madhuramani
26	MINALAPURAM RAVALI	I YEAR	Ravali
27	MODEM RAMYA	I YEAR	Modem Ramya
28	MOTURI SANJANA	I YEAR	Sanjana
29	MYATHARI SIRISHA	I YEAR	Sirisha
30	PAMPANA BHANUMURTHY	I YEAR	P. Bhанумурти
31	PARISHA SWETHA	I YEAR	Parisha Swetha
32	PONNAMANDA JOSHI	I YEAR	D. Joshi
33	PYARASANI AJAY KUMAR	I YEAR	Ajay Kumar
34	SADHURLA BHARATH KUMAR	I YEAR	Bharath Kumar

35	SALMA BEGUM	I YEAR	Salma Begum
36	SANJEETH KUMAR	I YEAR	S. Kumar
37	SHAIK ARIF	I YEAR	Arif
38	SHAIK TOUFIQ HUSSAIN	I YEAR	S.T. Hussain
39	SHIVA KUMAR KAJOL	I YEAR	Shiva Kumar
40	SULTHANPURAM SRIKANTH	I YEAR	S. Srikanth
41	PARALA SINDHU	I YEAR	Parala Sindhu
42	ZEENATH PARVEEN	I YEAR	Zeenath Parveen
43	UPPALAPATI SAITEJA	I YEAR	Saiteja
44	KUNAPARAJU RAJESHWARI DEVI	I YEAR	Rajeswari
45	BILLAKURTY V.DURGA PRASAD REDDY	I YEAR	P.B.
46	CHAITRA CHOWDHARY	I YEAR	Chaitra
47	GABBULA SAMYUKTHA	I YEAR	G. Samyuktha
48	PASUPULATI KAVYA SRI	I YEAR	Kavya
49	SANA	I YEAR	Sana.
50	MITTAPALLI RAJAGOPALRAO	I YEAR	Gopal Rao
51	POTURAMAINA PRIYANAKA	I YEAR	Priyanka
52	CHAKALI JAGADAMBA	I YEAR	Jagadamba
53	MACHINA RACHANA	I YEAR	Rachana
54	RUBBINA	I YEAR	Rubrina
55	BHUTHAPATHI ARCHANA	I YEAR	Archana
56	KATIKALA VEENAMADHURI	I YEAR	K. Veena
57	MD NEHA	I YEAR	Neha
58	K NIHARIKA	I YEAR	K. NIHARIKA
59	ANUKRITI BHARADWAJ	I YEAR	Bharadwaj
60	NAMBURI DEVI SINDHUJA	I YEAR	Sindhuja
61	ADDIGA SAIKIRAN	II YEAR	A. Sairam
62	AKSHAY YEOTIKAR	II YEAR	Yeotikar
63	AUSTOORI SAI SINDHU	II YEAR	A. Sindhu
64	BELGONI NOEL PRASANNA RAO	II YEAR	B. Prasanna
65	PALLAVI BURUD	II YEAR	Pallavi Burud
66	D MURALIKANTH	II YEAR	M.
67	DAARAMWAR SUSHMITHA	II YEAR	Sushmitha
68	ERROLLA KALYAN YADAV	II YEAR	Kalyan Yadav
69	G PRAJWAL	II YEAR	Prajwal
70	INDRAKANTI ANJAN	II YEAR	Indrakanti Anjan
71	JONABOINA NAVEEN	II YEAR	Navneet
72	K UPENDER RAO	II YEAR	K. Upender Rao
73	K KISHORE	II YEAR	Kishore
74	MANGARAI NAVEEN	II YEAR	M. Naveen
75	SMATHREY KALPANA	II YEAR	Balya
76	MOHAMMED ABDUL SAJEEED	II YEAR	Abdul
77	NIKHILA MUKKU	II YEAR	Nikhila
78	NALLAMALA JAYARAMKRISHNA	II YEAR	Jayaram Krishna
79	NARESH	II YEAR	Naresh
80	NERUDI BHARGAVI	II YEAR	Bhargavi
81	NIDAMANUORI VASAVI LATHA	II YEAR	Vasavi Latha
82	RESHU YADAV	II YEAR	Reshu Yadav

83	RONTALARACHANA	II YEAR	Rontala Rachana
84	SAMALA DIVYA	II YEAR	SD
85	SHAIK SHAINAZ PARVEEN	II YEAR	Parveen
86	SUMIT MANDAL	II YEAR	Sumit Mandal
87	SURAMPALLY KAVYA	II YEAR	S. Kavya
88	SWAPNA THIRUKAVALLURI	II YEAR	Swapna
89	VIRUSAMALLA. DEVI	II YEAR	Devi
90	YADALA THEJASWI	II YEAR	y.Thejaswi

*Sukhele*  
COORDINATOR

*Aletha*  
HoD



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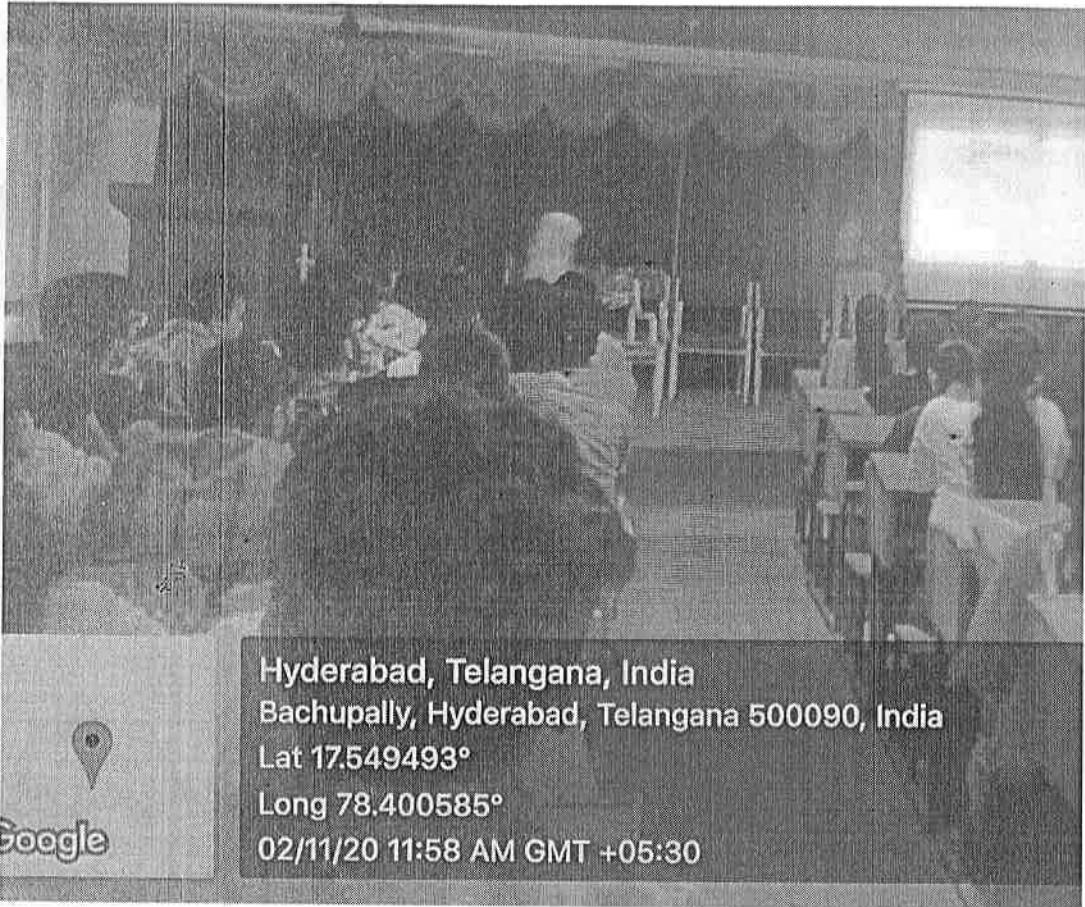
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### Department of Management

#### **Report on Certification Course on “Integrated Marketing Communication”**

- |                              |   |   |
|------------------------------|---|---|
| 1. Title of course           | : | Certificate course on “ <b>Integrated Marketing Communication</b> ”   |
| 2. Course Period             | : | 02-11-2020 to 12-11-2020  |
| 4. Venue                     | : | Seminar Hall-010  |
| 5. Name of Event Coordinator | : | <b>MISS SUSEELA GRACE PADMA</b>   |
| 6. Number of Students        | : | 90  |
| 7. Course Objective          | : | <ul style="list-style-type: none"><li>• To understand the basic concepts of advertising and sales promotion</li><li>• To Understand how business organisations and other institutions carry out such activities.</li><li>• To evaluate real and complex packaging, point of purchase communications.</li></ul>  |
| 8. Course Outcomes           | : | <ul style="list-style-type: none"><li>• Ability to understand the Enhancing Brand Equity through IMC.</li><li>• Ability to apply the knowledge of Reach and frequency of advertisements.</li><li>• Ability to engage in self-study to formulate, design, implement, analyse and demonstrate an application of Marketing Public Relation function.</li></ul> |



Hyderabad, Telangana, India  
Bachupally, Hyderabad, Telangana 500090, India  
Lat 17.549493°  
Long 78.400585°  
02/11/20 11:58 AM GMT +05:30

Sushmita

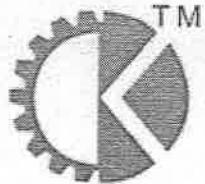
Event Coordinator

Ashutosh

HOD

Amrit

Principal



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### Department of Management

#### ATTENDANCE SHEET

Certification Course on "Integrated Marketing Communication"

S.No	Name of Student	DAY 1	DAY 2	DAY3	DAY4	DAY5	DAY6	DAY7	DAY8	DAY9	DAY10
1	ADHIKARI DURA KUMARI	P	P	P	P	P	P	P	P	P	P
2	AFREEN BEGUM	P	P	P	A	P	P	A	P	P	P
3	ALLAM VENKATA MADHURI	P	P	P	P	A	P	P	P	P	A
4	BHERI SWETHA	P	P	P	P	P	A	P	P	A	P
5	BAIRESETTI GNANA SOWJANYA	A	P	P	P	P	P	P	P	P	P
6	BANDARI SAIKUMAR	P	A	P	P	P	P	P	P	P	P
7	BANDARI SOJANYA	P	P	P	P	P	P	P	A	P	P
8	CHINTA SRAVANTHI	P	P	A	P	A	P	P	P	P	P
9	DANDU SUSMITHA	P	P	P	P	P	P	P	P	A	P
10	DINDIGAALA SANDYARANI	P	P	P	A	P	P	P	P	P	P



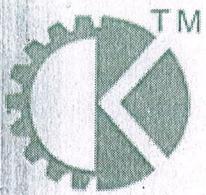


61	ADDIGA SAIKIRAN	P	P	P	P	P	P	P	P	P
62	AKSHAY YEOTIKAR	P	P	P	P	P	P	P	P	P
63	AUSTOORI SAI SINDHU	P	A	P	P	P	P	A	P	P
64	BELGONI NOEL PRASANNA RAO	P	P	A	A	P	P	P	A	P
65	PALLAVI BURUD	A	P	P	P	P	P	P	P	P
66	D MURALIKANTH	P	P	P	P	P	A	P	P	P
67	DARAMWAR SUSHMITHA	P	P	P	P	A	P	A	P	P
68	ERROLLA KALYAN YADAV	P	P	P	P	P	P	A	P	P
69	G PRAJWAL	P	A	P	P	P	P	P	P	P
70	INDRAKANTI ANJAN	P	P	P	P	P	P	P	P	P
71	JONABOINA NAVEEN	P	P	P	P	A	P	P	P	P
72	K UPENDER RAO	P	P	P	P	P	P	P	P	P
73	K KISHORE	P	P	P	P	P	P	P	P	P
74	MANGARAI NAVEEN	P	P	P	P	P	P	P	P	P
75	MATHREY KALPANA	P	P	P	P	P	P	A	P	P
76	MOHAMMED ABDUL SAJEED	P	P	P	P	P	P	P	A	P
77	NIKHILA MUKKU	P	P	P	A	A	A	A	P	P
78	NALLAMALA JAYARAMKRISHNA	P	P	P	P	P	P	P	P	A
79	NARESH	P	P	P	P	P	P	P	P	P
80	NERUDI BHARGAVI	P	P	P	P	P	P	P	P	P
81	NIDAMANUORI VASAVI LATHA	A	P	P	P	P	P	P	P	P
82	RESHU YADAV	P	P	P	P	P	P	P	P	P
83	RONTALARACHANA	P	P	P	P	P	P	P	P	A
84	SAMALA DIVYA	P	P	P	P	P	P	P	P	P
85	SHAIK SHAINAZ PARVEEN	P	P	P	P	P	P	P	P	P
86	SUMIT MANDAL	P	P	P	P	P	P	A	P	P

87	SURAMPALLY KAVYA	P	A	P	P	P	P	P	P	P	P
88	SWAPNA THIRUKAVALLURI	P	P	A	P	P	A	P	P	P	P
89	VIRUSAMALLA. DEVI	P	P	P	P	P	P	P	P	P	A
90	YADALA THEJASWI	P	P	P	P	P	P	A	P	P	P

*Sushma*  
Event Coordinator

*Alatha*  
HOD



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### Department of Management

#### Certification Course on "Integrated Marketing Communication"

#### Grade Sheet

Sl. No	Student Name	Grade
1	ADHIKARI DURA KUMARI	B+
2	AFREEN BEGUM	A+
3	ALLAM VENKATA MADHURI	A
4	BHERI SWETHA	B
5	BAIRESETTI GNANA SOWJANYA	A+
6	BANDARI SAIKUMAR	A
7	BANDARI SOJANYA	A
8	CHINTA SRAVANTHI	A
9	DANDU SUSMITHA	A
10	DINDIGALA SANDYARANI	A+
11	DODDUNOORI MANASA	B
12	EMIMAH JALA	B
13	ENNAMANENI ASHWITHA	B+
14	GARIKIMUKKULA ANURADHA	A
15	GATTU SOWMYA	A
16	K ROHITHA	A
17	KALERU SRILEKHA	A
18	KAMMETA BHAVANA	A+
19	KETHIREDDY NEERAJA	A+
20	KODURI SANTHOSH KUMAR	B+
21	LABBA MOHINI	B+
22	LAXMI KUMARI	B+
23	DAPPU SHIRISHA	B+
24	M VANI	A
25	MADDURU MADHURAMANI	A
26	MINALAPURAM RAVALI	A
27	MODEM RAMYA	B+
28	MOTURI SANJANA	B
29	MYATHARI SIRISHA	B
30	PAMPANA BHANUMURTHY	A+
31	PARISHA SWETHA	A

32	PONNAMANDA JOSHI	B+
33	PYARASANI AJAY KUMAR	A+
34	SADHURLA BHARATH KUMAR	A
35	SALMA BEGUM	B
36	SANJEETH KUMAR	B+
37	SHAIK ARIF	A+
38	SHAIK TOUFIQ HUSSAIN	A+
39	SHIVA KUMAR KAJOL	B+
40	SULTHANPURAM SRIKANTH	B
41	PARALA SINDHU	B+
42	ZEENATH PARVEEN	A+
43	UPPALAPATI SAITEJA	A
44	KUNAPARAJU RAJESHWARI DEVI	A
45	BILLAKURTY V DURGA PRASAD REDDY	A+
46	CHAITRA CHOWDHARY	B+
47	GABBULA SAMYUKTHA	B
48	PASUPULATI KAVYA SRI	A+
49	SANA	A
50	MITTAPALLI RAJAGOPALRAO	A+
51	POTURAMAINA PRIYANAKA	B+
52	CHAKALI JAGADAMBA	B
53	MACHINA RACHANA	B+
54	RUBBINA	A+
55	BHUTHAPATHI ARCHANA	A
56	KATIKALA VEENAMADHURI	A+
57	MD NEHA	A
58	K NIHARIKA	A
59	ANUKRITI BHARADWAJ	A+
60	NAMBURI DEVI SINDHUJA	B+
61	ADDIGA SAIKIRAN	B
62	AKSHAY YEOTIKAR	B+
63	AUSTOORI SAI SINDHU	B
64	BELGONI NOEL PRASANNA RAO	A+
65	PALLAVI BURUD	A
66	D MURALIKANTH	A
67	DARAMWAR SUSHMITHA	A+
68	ERROLLA KALYAN YADAV	B+
69	G PRAJWAL	A
70	INDRAKANTI ANJAN	A+
71	JONABOINA NAVEEN	A
72	K UPENDER RAO	A
73	K KISHORE	B+
74	MANGARAI NAVEEN	A



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## DEPARTMENT OF MANAGEMENT

# CERTIFICATE OF PARTICIPATION

This is to certify that

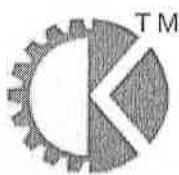
Ms. S. DIVYA

MBA Student of 2020-21, has actively participated in the  
Ten days certified course (02/11/2020 To 12/11/2020) on  
“Integrated Marketing Communication”.

*Sushilay*  
Coordinator

*A. N. Alka*  
HOD

*Govind*  
Principal



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**Examination for Certified course on "Integrated Marketing Communication"**

Name: **K.NIHARIKA**

Roll No: **20N71E0058**

Date: **16-11-2020**

Duration: 1 Hr

Room No: 010

Marks: **14**/20 marks

**Answer all the Following Questions: 20\*1=20 Marks**

1. \_\_\_\_\_ can be defined as the way by which organizations attempt to inform, convince and remind customers indirectly or directly about the brands and products they offer. [ **A** ]

- a) Marketing communications
- b) Marketing plans
- c) Marketing strategies
- d) None of the above

2. The marketing mix is made up of \_\_\_\_\_ types of communication. [ **B** ]

- a) Seven
- b) Six
- c) Eight
- d) None of the above.

3. Any paid type of non-personal promotion and presentation of goods, services or ideas by an identified sponsor is [ **C** ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

4. Numerous forms of short-term incentives to promote trial or buying of a service or product is [ **D** ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

5. Company sponsored programs and activities planned to create special brand related interactions is [ A ] X

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

6. Several programs planned to protect or promote a company's image or its products is known as [ A ] X

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Public relations and publicity

7. The use of email, fax, internet or telephone to communicate with specific prospects and customers is [ B ] ✓

- a) Sales promotion
- b) Direct marketing
- c) Personal selling
- d) Advertising

8. The online programs and activities designed to engage prospects or customers and indirectly or directly generate awareness, enhance image or support sales of services and products is [ B ] X

- a) Interactive marketing
- b) Direct marketing
- c) Personal selling
- d) Advertising

9. People-to-people oral, electronic or written form of communications that associate with experiences or merits of buying or using services or products is [ A ] ✓

- a) Interactive marketing
- b) Direct marketing
- c) Personal selling
- d) Word-of-mouth marketing

10. The face-to-face interaction with prospective buyers for the objective of answering questions, procuring orders and making presentations is [ C ] X

- a) Interactive marketing
- b) Direct marketing
- c) Personal selling
- d) Word-of-mouth marketing

11. Marketing communication activities lead to brand equity. [ A ]

- a) True
- b) False

12. Billboards, motion pictures, audiovisual material, print and broadcast ads are examples of [ B ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

13. Fair and trade shows, exhibits and demonstrations are examples of: [ A ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

14. Street activities and sports are examples of [ C ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Advertising

15. Seminars, Annual reports, publications and press kits are examples of [ A ]

- a) Sales promotion
- b) Direct marketing
- c) Events and experiences
- d) Public relations and publicity

16. Catalogs, blogs and websites are examples of [ B ]

- a) Interactive marketing
- b) Direct marketing
- c) Both a and b
- d) None of the above

17. Chat rooms are an example of [ B ]

- a) Interactive marketing
- b) Direct marketing
- c) Personal selling
- d) Word-of-mouth marketing

18. Fairs and trade shows are an example of [ D ]

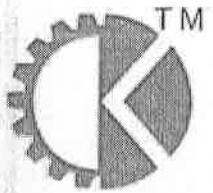
- a) Interactive marketing
- b) Direct marketing
- c) Personal selling
- d) Word-of-mouth marketing

19. From the view of creating brand equity, marketers need to be [ B ]

- a) Media sensitive
- b) Media neutral
- c) Media biased
- d) None of the above

11. Marketing communication activities lead to brand loyalty. [ A ]

- a) True
- b) False



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### Department of Management

#### FEEDBACK FORM OF CERTIFICATE COURSE

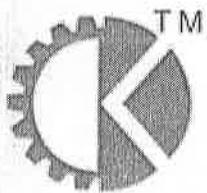
Course Title: Certification course on “Integrated Marketing Communication”

Name of Participant: V. Srivela

Semester: II Year II Sem

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topic		✓		
Duration of course was appropriate	✓			
Course met the overall expectations		✓		
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject	✓			
Faculty have good command over the course contents		✓		
The content was clearly explained			✓	
Queries and doubts were cleared by faculty		✓		

V. Srivela  
Signature of Participant



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### Department of Management

#### FEEDBACK FORM OF CERTIFICATE COURSE

Course Title: Certification course on "Integrated Marketing Communication"

Name of Participant: Z. Praveen

Semester: III

Feedback on Course Content	Excellent	Good	Fair	Poor
The course content is relevant	✓			
The amount of material covered was sufficient	✓			
The course gives fair exposure to industry-based topic		✓		
Duration of course was appropriate		✓		
Course met the overall expectations			✓	
			✓	
Feedback on Faculty/Resource Person	Excellent	Good	Fair	Poor
Faculty have fair knowledge over the subject			✓	
Faculty have good command over the course contents			✓	
The content was clearly explained			✓	
Queries and doubts were cleared by faculty		✓		

  
Signature of Participant

75	MATHREY KALPANA	AT
76	MOHAMMED ABDUL SAJEED	A
77	NIKHILA MUKKU	AT
78	NALLAMALA JAYARAMKRISHNA	A
79	NARESH	A
80	NERUDI BHARGAVI	BT
81	NIDAMANUORI VASAVI LATHA	B
82	RESHU YADAV	A
83	RONTALARACHANA	A
84	SAMALA DIVYA	AT
85	SHAIK SHAINAZ PARVEEN	B
86	SUMIT MANDAL	BT
87	SURAMPALLY KAVYA	B
88	SWAPNA THIRUKAVALLURI	AT
89	VIRUSAMALLA. DEVI	A
90	YADALA THEJASWI	A

*S. Sheela*

Event Coordinator

*A. Lakshmi*

HOD of MBA Department