

# RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi

Affiliated to the Visvesvaraya Technological University, Belagavi



Criterion: 2.2.1

Academic Year: 2023-2024

2.2.1 The institution assesses the learning levels of the students and organizes special Programmes for advanced learners and slow learners

## Details of programmes for slow learners

Sl no	Special Programmes	Page No.
1	Circular pertaining to Remedial Classes	1-5
2	Identification of the slow learners	6-13
3	Remedial class Details	14-23
4	Report of the remedial classes	24-25

## List of Activities for Advanced learners

Sl no	Special Programmes	Page No.
1	NPTEL /SWAYAM Courses, Participation in Inter& Intra competitions	26-72
2	Events conducted for Advanced Learners	72-126
3	Students Publications	127-137

PRINCIPAL  
Principal

RAJARAJESWARI

COLLEGE OF ENGINEERING

Ramohalli Cross, Bengaluru-74



# RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka. Affiliated to Visvesvaraya Technological University, Belagavi )  
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Ref: RRCE-Blr/ECE/SLMR/2023-24

Date: 02.05.2024

## Meeting Report about Slow Learner's

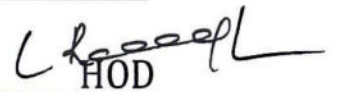
Under the guidance of Dr. L. Rangaiah, HOD, Department of ECE, Class Teachers, mentors and subject experts, we have identified the slow learners in our department with the following strategies for the academic year 2023-24 odd semesters:

### Grievances and points Discussed:

- Identifying slow learners in each class depending upon their previous Internal Assessment performances.
- Guiding them to overcome the academic difficulties by interacting with the concern faculties and the same is informed to the faculties.
- Students are asked to meet the concern staff members to seek help regarding their common backlog subjects.
- Parents are informed with performances of their wards and ongoing slow learner's classes.
- Revision for the requested subject is done by the subject experts during leisure hours.
- Addressing the time management policies are clearly mentioned with a mock test.

The list of identified Slow Learners is shared below.

S.No	USN	Name	Semester/Year

  
HOD

PROFESSOR & HEAD  
DEPT. OF ELECTRONICS & COMMUNICATION ENG  
RAJARAJESWARI COLLEGE OF ENGG.  
BENGALURU - 560 074



# RajaRajeswari College of Engineering

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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Ref: RRCE-Blr/ECE/SLMR/2023-24

Date: 08.01.2024

## Meeting Report about Slow Learner's

Under the guidance of Dr. L. Rangaiah, HOD, Department of ECE, Class Teachers, mentors and subject experts, we have identified the slow learners in our department with the following strategies for the academic year 2023-24 odd semesters:

### Grievances and points Discussed:

- Identifying slow learners in each class depending upon their previous Internal Assessment performances.
- Guiding them to overcome the academic difficulties by interacting with the concern faculties and the same is informed to the faculties.
- Students are asked to meet the concern staff members to seek help regarding their common backlog subjects.
- Parents are informed with performances of their wards and ongoing slow learner's classes.
- Revision for the requested subject is done by the subject experts during leisure hours.
- Addressing the time management policies are clearly mentioned with a mock test.

The list of identified Slow Learners is shared below.

S.No	USN	Name	Semester/Year

  
HOD

**PROFESSOR & HEAD**  
DEPT. OF ELECTRONICS & COMMUNICATION ENG  
RAJARAJESWARI COLLEGE OF ENGG.  
BENGALURU - 560 074





# **RajaRajeswari College of Engineering**

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,  
Approved by AICTE, UGC & GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## **Department of Management Studies**

### **Slow Learner Report**

**Date: 12/01/2024**

Under the guidance of Dr. Lakshmi B I., HOD, Department of Management studies, Class in charge, Mentor and Subject Experts, We have identified the slow learners in our department from first year and Second year with the following Strategies for the academic year 2023 – 24 odd and even semesters

- Based on the performance in internal Test and University Examination
- Lack of concentration
- Difficulty in remembering concepts
- Not analyzing regularly at home
- Irregularity to classes
- Time management
- Worst Presentation in examination
- Parents meeting
- Student Counseling
- Tough Subjects with more numbers of failures





# RajaRajeswari College of Engineering

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## Department of Management Studies

Date: 18/01/2024

### Meeting Report

Under the Guidance of DR. Lakshmi B L, HOD Department of Management Studies, Class in charge, Mentors and Subject experts, we have identified the slow learners in our department from First Year and Second Year with the following strategies for the academic Year 2023-2024. Odd semesters.

Tough Subjects (More Number of Failures) are listed for previous year.

Subject Name	Semester
Managerial Economics	1st Sem
Accounting For Managers	
Statistics for Manger	
Strategic cost Management	3rd Sem
Security analysis and portfolio management	

### Action Plans:

1. Guiding them to overcome the academics difficulties (Subjects in they are lagging) by interacting with the concern faculties and the same is informed to the faculties.
2. Tips and ideas to prepare in the exam point of view and Memorizing tips (Remembering through correlation)
3. Students are asked to meet the concern staff members to seek help regarding their backlog subjects, same is conveyed to faculties
4. Students are counseled through mentors with personal and academic difficulties, to overcome their backlogs and to improve their performance in the future.
5. Parents are informed about the performance of their wards and the ongoing slow learner classes
6. Readdressed the time management policies are clearly mentioned with a mock test
7. Revision of requested subjects is done by the subject experts during leisure hour.
8. Mock test is based on previous year papers (5 years)

  
HOD-MBA

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering



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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074

## Dept. of Electronics and Communication Engineering

### Slow Learners List

Subject Name: ElectroMagnetic Waves

Subject Code:21EC54

Faculty Name: Haritha K Sivaraman

SL.NO	USN	NAME	IA 1 Marks
1	1RR21EC003	ABHISHEK GOWDA Y	6
2	1RR21EC012	BHOOMIKA G	6
3	1RR21EC018	DARSHAN GOWDA H P	3
4	1RR21EC025	HARSHA M	7
5	1RR21EC026	HARSHAVARDHAN	19
6	1RR21EC029	J N MOHIT	7
7	1RR21EC031	JEEVAN L	8
8	1RR21EC032	JYOTHI	2
9	1RR21EC034	KARTHIK S	9
10	1RR21EC057	NITESH SINGH S	1
11	1RR21EC058	PAVAN R	6
12	1RR21EC042	MADAN KUMAR	19
13	1RR21EC043	MAMATHA S M	13
14	1RR21EC036	KUSHI PRIYA	12
15	1RR21EC024	HARIPRASAD	11
16	1RR21EC019	DHANUSH D	13
17	1RR21EC004	ABHISHEK R	13
18	1RR21EC003	ABHISHEK B S	12
19	1RR21EC048	MOHAN RAJ	14

Subject In-Charge

HOD-ECE

**PROFESSOR & HEAD**  
DEPT. OF ELECTRONICS & COMMUNICATION ENG  
RAJARAJESWARI COLLEGE OF ENGG.  
BENGALURU - 560 074





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## Dept. of Electronics and Communication Engineering

### Slow Learners List

Subject Name: ElectroMagnetic Waves

Subject Code:21EC54

Faculty Name: Haritha K Sivaraman

SL.NO	USN	NAME	IA 1 Marks
1	1RR21EC060	PRATHIKSHA N	19
2	1RR21EC062	RAKESH R	8
3	1RR21EC066	SACHEAT D VELLORE	9
4	1RR21EC069	SALLA VISHNUVARDHAN	9
5	1RR21EC074	SHREYA S BHARDHI	15
6	1RR21EC080	SOPHIA ANTHONY	16
7	1RR21EC087	SWATHI BONDADE	18
8	1RR21EC097	VEERABHADRA S K	14
9	1RR21EC099	VIKAS P	7
10	1RR21EC101	VIVEK C K	12
11	1RR21EC105	YOGESHWAR K V	7
12	1RR21EC108	SHREYANSH KAGAWAD	19
13	1RR22EC400	ANU H P	17
14	1RR22EC401	BASAVARAJ T	2
15	1RR22EC402	BHARATH KUMAR T R	8
16	1RR22EC403	CHANDAN NS	8
17	1RR22EC405	KIRAN K M	16
18	1RR22EC406	RAJU B	5
19	1RR22EC408	SANJAY MUKUNDA	7
20	1RR22EC409	VETRIVEL M	1

Subject in-Charge

HOD-ECE

PROFESSOR & HEAD  
DEPT. OF ELECTRONICS & COMMUNICATION ENG  
RAJARAJESWARI COLLEGE OF ENGG,  
BENGALURU - 560 074







## Department of Electrical and Electronics Engineering

### List of Slow Learners after IA-I

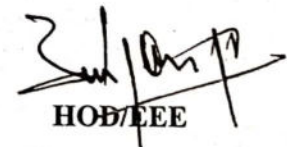
Academic Year: 2023-24 (ODD)

Subject/Code: BESCK104B/INTRODUCTION TO ELECTRICAL ENGINEERING

Faculty In-charge: Nandini N

S.No	Student Name	USN
1.	MADHAN H	1RR23CS072
2.	NISCHITH K	1RR23CS093
3.	NIHAN PASHA	1RR23CS088
4.	PREM H K	1RR23CS112
5.	S SHARVESH	1RR23CS124

  
Faculty's Signature

  
HOD/EEE  
Professor & HOD  
Dept. of Electrical & Electronics Engg.  
Rajarajeswari College Of Engineering  
Bengaluru-74





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## Department of Electrical and Electronics Engineering

### List of Advanced Learners after IA-I

Academic Year: 2023-24 (ODD)

Faculty In-charge: NANDINI N

Subject/Code: BESCK104B/INTRODUCTION TO ELECTRICAL ENGINEERING

S.No	USN	Student Name
1.	1RR23CS076	MAHANTESH HUDEDAR
2.	1RR23CS098	PALLAVI G N
3.	1RR23CS085	NAMITH D S
4.	1RR23CS126	SAHANA
5.	1RR23CS103	PONSHIVANI B

  
Faculty's Signature

  
HOD/EEE

Professor & HOD  
Dept. of Electrical & Electronics Engg.  
Rajarajeswari College Of Engineering  
Bengaluru-74







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## Department of Electrical and Electronics Engineering

### List of Advanced Learners after IA-I

Academic Year: 2023-24 (Even)

Semester : VI

Subject/Code: Signal and Digital Signal Processing/21EE63

Faculty In-charge: Udhyami M B

S.No	USN	Student Name
1.	1RR21EE001	Afnan Shariff
2.	1RR21EE004	Bhumika K Ramesh
3.	1RR21EE014	Vivek N
4.	1RR20EE406	H K Anil Kumar
5.	1RR22EE415	Shruthi G S

  
Faculty's Signature

  
HOD/EEE



**Department of Master of Business Administration**

Academic year: 2023 - 2024

Subject name: Global Financial Management

Sem: IV

Subject code: 22MBAFM403

Faculty name: S. Sushma Rawath

Slow learners list after IA (I/II/III): II

SL. NO	USN	STUDENT NAME	MARKS (MAX 50)
1	1RR22BA001	Abhishek Yadav A	15
2	1RR22BA003	Ambika Hosamani	17
3	1RR22BA010	Byresh C V	12
4	1RR22BA035	Raju C L	10
5	1RR22BA044	Sudha M	5
6	1RR22BA047	Tejas B	0

Action to be taken for Improvement:

- 1) Solved lot of problems from exercises
- 2) Gave assignments and made them practice important problems.
- 3) Important topics guided to prepare well.

**Signature of Faculty**



## Department of Master of Business Administration

Academic year: 2023 - 2024

Subject name: Strategic cost management Sem: 3<sup>rd</sup>

Subject code: 22MBAFM303 Faculty name: Maheshwari. C

Slow learners list after IA (I/II/III): I

Sl. no	USN	Student name	Marks (Max 50)
1	1RR22BA001	Abhishek Yadav A	11
2	1RR22BA003	Ambika Hosamani	5
3	1RR22BA007	Bharath S	18
4	1RR22BA008	Bhoomika B P	17
5	1RR22BA009	Bhoomika M N	11
6	1RR22BA010	Byresh C V	14
7	1RR22BA017	Harsha K S	13
8	1RR22BA020	Karibasava Patil	13
9	1RR22BA029	Nisarga K R	10
10	1RR22BA035	Raju C L	08

### Action to be taken for Improvement:

- 1) Solved lot of problems from exercises
- 2) Gave assignments and made them practice important problems.
- 3) Important topics guided to prepare well.

Signature of Faculty





**Department of Master of Business Administration**

Academic year: 2023 - 2024

Subject name: Statistics for Manager Sem: 1<sup>st</sup>

Subject code: 22MBA14 Faculty name: Maheshwari. C

Slow learners list after IA (I/II/III): I ('B' section)

Sl. no	USN	Student name	Marks (Max 50)
1	1RR23BA081	SHIVAPRASAD M	25
2	1RR23BA098	VARSHITHA N	28
3	1RR23BA078	SATISHA	19
4	1RR23BA096	TEJESHKUMAR R	14
5	1RR23BA062	PREETHI R	10
6	1RR23BA083	SHREELAKSHMI	25
7	1RR23BA085	SPOORTHI S	0
8	1RR23BA064	PRIYA V	22
9	1RR23BA082	SHIVARANJINI N	26
10	1RR23BA100	VIVEK S NAIK	21

Action to be taken for Improvement:

- 1) Solved lot of problems from exercises
- 2) Gave assignments and made them practice important problems.
- 3) Important topics guided to prepare well.

**Signature of Faculty**

**SPECIAL CLASS ATTENDANCE**

Academic Year 2023-24

Odd/ Even Sem *odd sem 5th*

Subject: EMW

Faculty In-charge: *Harshvardhan*

S.No	USN	Student Name	28/1	28/1	11/2	11/2	25/2	25/2	11/3	11/3	25/3
1	1RR2ECC03	Abhishek Gowda	A	A	P	P	P	P	P	P	P
2	12	Bhoomika G	P	P	P	P	P	P	P	P	P
3	18	Dashan Gowda	P	P	A	A	P	P	P	P	P
4	25	Harsha M	P	P	P	P	A	A	A	A	A
5	26	Harshvardhan	A	A	P	P	A	A	P	P	P
6	29	Mohit	A	A	A	P	P	P	P	P	P
7	31	Jeevan L	P	P	P	P	P	P	A	A	P
8	32	Jyothi	P	P	P	P	P	P	P	P	P
9	34	Karthik S	P	P	P	P	P	P	A	A	A
10	57	Nitesh Singh	A	A	P	P	A	P	P	A	A
11	58	Pavan R	A	A	A	P	P	P	P	P	P
12	42	Madan kumar	P	P	P	P	A	A	P	P	P
13	36	Kushi puja	P	P	P	P	P	P	P	P	P
14	62	Rakesh R	P	P	P	P	P	P	P	P	P
15	66	Sachet R	A	A	P	P	P	P	P	P	P
16	69	Vishnuvardhan	P	P	P	P	P	P	A	A	A
17	99	Vikas P	P	P	A	A	A	A	P	P	P
18	105	Yogeshwar	P	P	P	A	A	P	P	P	A
19	401	Banavaraj	A	A	P	P	P	P	P	P	P
20	402	Bhazath kumar	P	P	P	P	P	P	A	A	P
21	406	Raju B	A	A	P	P	A	A	P	A	A

*Harshvardhan*  
**HOD/ECE**  
**PROFESSOR & HEAD**

SPECIAL CLASS PORTION COVERAGE

Academic Year: 2023-'24

Odd/ Even Sem 5-11/2023

Subject: EMW

Faculty In-charge: Haziha.k.s

S.No	Date	Topics Covered	No. of students present
1	28/1/24	Coulomb's Law & problems, Electric field	23
2	11/2/24	Electric flux Gauss Law problems	13
3	25/2/24	Biot savart Law, Divergence theorems.	17
4	11/3/24	Magnetic Boundary conditions problems	14
5	25/3	wave propagation	16
	11	Stokes theorems problems.	17

*Haziha.k.s*  
Staff Sign

*Haziha.k.s*  
HOD/ECE





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
SPECIAL CLASS PORTION COVERAGE

Academic Year: 2023 - 24

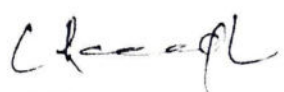
Subject: Multimedia Communication

Odd/ Even Sem: VII

Faculty In-charge: Vinodha . G

S.No	Date	Topics Covered	No. of students present
1	26/8/23	N/w types & multipoint Conferencing	4
2	4/9/23	Text information Representation	4
3	12/9/23	Digital picture Principles	4
4	2/10/23	DMS & main features	2
5	3/10/23	Ip n/w, digital video format	1
6	10/10/23	IZW, digital documents upto T4 & T6	2
7	11/10/23	Image formats	2
8	23/10/23	H.261, H.263 standard	2
9	11/11/23	MPEG 1, 2, 4, FDDI Bridges	2

  
Staff Sign

  
HOD-ECE





# RajaRajeswari College of Engineering

AFFILIATED TO VTU, BELGAUM, APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION  
Academic Session: 2023-24(Odd semester)  
Attendance for Slow Learners

Subject: Global Financial Management

Semester: IV

Faculty: S. Sushma Rawath

Academic Year: 2023-24

Sl.No	USN	NAME	Date					Student
			22/8	23/8	24/8	29/8	30/8	Signature
1	1RR22BA001	Abhishek Yadav A	A	P	P	P	A	
2	1RR22BA003	Ambika Hosamani	P	P	P	P	P	
3	1RR22BA010	Byresh C V	A	P	P	P	P	
4	1RR22BA035	Raju C L	A	A	P	P	P	
5	1RR22BA044	Sudha M	P	P	A	P	P	
6	1RR22BA047	Tejas B	P	P	P	P	A	
Faculty Signature								

Faculty Signature

HOD

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.






**RAJARAJESWARI COLLEGE OF ENGINEERING**  
**DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION**  
**Academic Session: 2023-24(Odd semester)**  
**Topics covered in Remedial classes for Slow Learners**

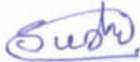
**Subject: Global Financial Management**

**Semester: IV**

**Faculty: S. Sushma Rawath**

**Academic Year: 2023-24**

Sl. No	Date	Topics covered	
1	22/8	Forward Contract & Future Contract	
2	23/8	Options & Currency Swaps	
3	24/8	Interest rate swaps	
4	29/8	ADR	
5	30/8	GDR	



**Faculty Signature**



**HOD Signature**

**HOD**

Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074





# RajaRajeswari College of Engineering

AFFILIATED TO VTU, BELGAUM, APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA

## Department of Master of Business Administration

Academic year: 2023 - 2024

Subject name: Strategic cost management


Sem: 3<sup>rd</sup>


Subject code: 22MBAFM303

Faculty name: Maheshwari. C

Slow learners list after IA (I/II/III): I

Sl.No	USN	NAME	Date					Student
			4/01	11/01	18/01	25/01	1/02	Signature
1	1RR22BA001	Abhishek Yadav A	P	P	A	P	A	Abhishek
2	1RR22BA003	Ambika Hosamani	P	A	P	P	P	Ambika
3	1RR22BA007	Bharath S	P	P	P	P	A	Bharath
4	1RR22BA008	Bhoomika B P	P	P	P	A	P	Bhoomika.B.P
5	1RR22BA009	Bhoomika M N	P	P	P	P	P	Bhoomika
6	1RR22BA010	Byresh C V	P	P	A	P	A	Byresh
7	1RR22BA017	Harsha K S	P	P	A	P	P	Harsha.k.s
8	1RR22BA020	Karibasava Patil	P	P	A	A	A	Karibasava
9	1RR22BA029	Nisarga K R	P	P	P	A	P	Nisarga
10	1RR22BA035	Raju C L	P	P	A	P	A	Raju
Faculty Signature								

  
Faculty Signature

  
HOD

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.



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## Department of Master of Business Administration

Academic year: 2023 - 2024

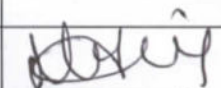
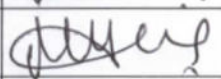

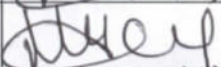
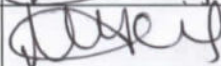
Subject name: Strategic cost management

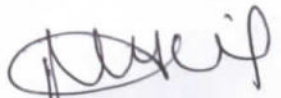
Sem: 3<sup>rd</sup>

Subject code: 22MBAFM303

Faculty name: Maheshwari. C

Slow learners list after IA (I/II/III): I

Sl. No	Date	Topics covered	
1	4/01/24	Preparation of a cost sheet	
2	11/01/24	Problems on Primary and secondary distribution	
3	18/01/24	Cost Analysis Under ABC	
4	25/01/24	Simultaneous equations	
5	01/02/24	Activity Based Costing	

  
Faculty Signature

  
HOD Signature

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.



# RajaRajeswari College of Engineering

AFFILIATED TO VTU, BELGAUM, APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA

## Department of Master of Business Administration

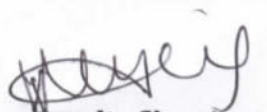
Academic year: 2023 - 2024

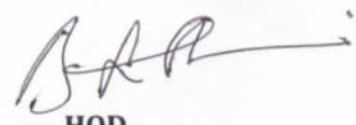
Subject name: Statistics for Manager Sem: I

Subject code: 22MBA14 Faculty name: Maheshwari C

Slow learners list after IA (I/II/III): I ('B' section)

Sl.No	USN	NAME	Date					Student
			25/04	2/05	9/05	13/05	14/05	Signature
1	IRR23BA081	SHIVAPRASAD M	P	P	P	A	P	Shivaprasad
2	IRR23BA098	VARSHITHA N	P	P	A	P	P	Varshitha
3	IRR23BA078	SATISHA	P	P	P	P	A	Satisha
4	IRR23BA096	TEJESHKUMAR R	P	A	P	P	P	Tejesh
5	IRR23BA062	PREETHI R	P	P	P	P	A	Preethi
6	IRR23BA083	SHREELAKSHMI	P	A	P	A	P	Shreelakshmi
7	IRR23BA085	SPOORTHI S	A	P	P	A	P	Spoorthi
8	IRR23BA064	PRIYA V	P	P	P	P	A	Priya V
9	IRR23BA082	SHIVARANJINI N	A	P	P	P	P	Shivaranjini
10	IRR23BA100	VIVEK S NAIK	A	P	P	P	A	Vivek
Faculty Signature								

  
Faculty Signature

  
HOD

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.





**Department of Master of Business Administration**

Academic year: 2023 - 2024

Subject name: Statistics for Manager Sem: I

Subject code: 22MBA14 Faculty name: Maheshwari C

Slow learners list after IA (I/II/III): ('B' section)

Sl. No	Date	Topics covered	
1	25/04/24	Permutation and Combination	
2	2/05/24	Problems only on Binomial, Poisson and Normal	
3	9/05/24	Least Square Method	
4	13/05/24	Ratio to Trend Method-Ratio to Moving Average	
5	14/05/24	Method of Simple Averages	

Faculty Signature

HOD Signature

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.



# RajaRajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,

Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST



## Department of Management Studies

### Slow Learner Report

Date: 19/07/2024

Under the guidance of Dr. Lakshmi B L, HOD, Department of Management studies, Class in charge, Mentor and Subject Experts, We have identified the slow learners in our department from first year and Second year with the following Strategies for the academic year 2023 – 24 even semesters

- Based on the performance in internal Test and University Examination
- Lack of concentration
- Difficulty in remembering concepts
- Not analysing regularly at home
- Irregularity to classes
- Time management
- Worst Presentation in examination
- Parents meeting
- Student Counseling
- Tough Subjects with more numbers of failures



# RajaRajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi ,

Approved by AICTE, UGC &GoK, Accredited by ISO 9001-2015 Certified Institution)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## Department of Management Studies



Date: 26/07/2024

### Meeting Report

Under the Guidance of Dr. Lakshmi B L, HOD Department of Management Studies, Class in charge, Mentors and Subject experts, we have identified the slow learners in our department from First Year and Second Year with the following strategies for the academic Year 2023-2024 even semesters.

Tough Subjects (More Number of Failures) are listed for previous year.

Subject Name	Semester
Financial management	2 <sup>ND</sup> Sem
Operation Research	
Global financial management	4 <sup>TH</sup> Sem
Mergers acquisition and corporate governance	

#### Action Plans:

1. Guiding them to overcome the academics difficulties (Subjects in they are lagging) by interacting with the concern faculties and the same is informed to the faculties.
2. Tips and ideas to prepare in the exam point of view and Memorizing tips (Remembering through correlation)
3. Students are asked to meet the concern staff members to seek help regarding their backlog subjects, same is conveyed to faculties
4. Students are counselled through mentors with personal and academic difficulties, to overcome their backlogs and to improve their performance in the future.
5. Parents are informed about the performance of their wards and the ongoing slow learner classes
6. Readdressed the time management policies are clearly mentioned with a mock test
7. Revision of requested subjects is done by the subject experts during leisure hour.
8. Mock test is based on previous year papers (5 years)

  
HOD-MBA  
HOD

Department of Management Stud  
RajaRajeswari College of Engineer  
Bangalore - 560 074.





# RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi )  
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Activities done by Advanced Learners

S.No	USN	Name	Details
1	1RR22EC080	Rakshitha M U	Swayam online course certification in Programming in Python
2	1RR21EC086	Surekha S	C Programming Language course in NICT Computer Education
3	1RR22EC115	Thanish Gowda A R	Full Stack Web Development Internship organised by Varcons Technologies Pvt. Ltd
4	1RR21EC040	Lavanya P	Online Assessment of Hero Campus Challenge session 9 organized by Hero MotoCorp Limited
5	1RR23EC037	Lakshmi Y	Online Assessment of Hero Campus Challenge session 9 organized by Hero MotoCorp Limited
6			Online Quiz of the Flipkart Runway: session 4
7			MCQ+ coding Assessment of the Unstop Talent Park-Tech organised by the Unstop
8	1RR22EC110	Sujith R S	InternShip Program on Social Innovation Through field Visit held at Comedkares Innovation Hub, Mysore Road, Bangalore
9			Participated in WorkShop on TechX: Building Pick & Place Robot held on 11th may 2024 at Comedkares, Bangalore

  
HOD-ECE

PROFESSOR & HEAD  
DEPT OF ELECTRONICS & COMMUNICATION ENG  
RAJARAJESWARII COLLEGE OF ENGINEERING  
BENGALURU - 560074

## SWAYAM ONLINE COURSE CERTIFICATION



*This certificate is awarded to  
**Rakshitha M U**  
for successfully completing the 4 credit course  
**Programming in Python**  
with a consolidated score of 70%  
from the evaluation based on continuous online assessments and the proctored  
examination held in month of May 2024.*



Roll No. : KK04050471

*This course was offered by **Dr. Rizwan Rehman of Dibrugarh University***

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	29	70	41	100	70

J. B. Nadda  
National Coordinator  
Consortium for Educational Communication (CEC),  
New Delhi



Dr. Prasanta Kr. Kakoty  
Controller of Examinations  
Dibrugarh University, Assam





# NICT Computer Education

ISO 9001:2015 Certified Organization  
visit us @ [www.nictcomputereducation.com](http://www.nictcomputereducation.com)  
email: [info@nictcomputereducation.com](mailto:info@nictcomputereducation.com)

# 52, "Bhagavathi Towers", 4th Floor, 33rd Cross, 4th Block,  
Jayanagar, Bangalore - 560 011, Karnataka, INDIA.

## Certificate of Merit

*This is to certify that*

**Surekha S**

*has successfully completed the Course in*

**C Programming Language**

*and Secured Grade A+*

Course Code: IC28



Authorized Signatory  
NICT Computer Education Pvt Ltd

Date of Issue: 8 February 2024

Course Duration: 3 Months

Certificate No: 37364

Study Centers: NICT, Human Resource







**Varcons Technologies Pvt Ltd**


Communicate. Collaborate. Create

## CERTIFICATE OF INTERNSHIP

This is to certify that **Thanish Gowda A R** whose USN is **1RR22EC115**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technologies Pvt. Ltd** from **10<sup>th</sup> May, 2024** to **17<sup>th</sup> June, 2024**.

The person to whom this certificate is addressed to has worked on a project titled **Website for Azayd Technologies - Payroll based IT Consulting Firm for Experienced Candidates**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, [CLICK HERE](#)  or scan.



VARCONS TECHNOLOGIES PVT. LTD  
1<sup>st</sup> Floor,  
Bangalore-560001

[www.varconstech.com](http://www.varconstech.com)  
[contact@varconstech.com](mailto:contact@varconstech.com)

This certificate was generated using CERTIEFY.COM

# Certificate of Participation

This is to certify that

**Lavanya P**

from **Raja Rajeshwari College of Engineering** as Team  
**India** has participated in the **Online Assessment** of the **Hero  
Campus Challenge Season 9** organised by the **Hero  
MotoCorp Limited** .





# Certificate of Participation

This is to certify that  
**Lakshmi Y**

from **Raja Rajeshwari College of Engineering** as Team  
**India** has participated in the **Online Assessment** of the **Hero  
Campus Challenge Season 9** organised by the **Hero  
MotoCorp Limited** .







# Certificate of Participation

This is to certify that

**Lakshmi Y**

from **Raja Rajeshwari College of Engineering** has  
participated in the **Online Quiz of the Flipkart Runway:**  
**Season 4** organised by the **Flipkart** .





# Certificate of Participation

This is to certify that

**Lakshmi Y**

from **Raja Rajeshwari College of Engineering** has  
participated in the **Online Quiz of the Flipkart Runway:**  
**Season 4** organised by the **Flipkart** .





**COMED KARES**  
INNOVATION HUB

**SOCIAL INNOVATION  
THROUGH FIELD VISIT  
INTERNSHIP  
PROGRAM**

# CERTIFICATE OF COMPLETION

This is to certify that

**SUJITH RS**

From Electronics and Communication Engineering with USN IRR22EC110 from RAJARAJESWARI COLLEGE OF ENGINEERING, has successfully completed the internship programme on **Social Innovation through field visit** held at Comedkares Innovation Hub, Mysore Road, Bengaluru from 27/10/23 to 24/11/23.

24 Nov 23

**Facilitator**  
COMEDKARES

**Executive Secretary**  
COMEDKARES





**COMED KARES**  
Community Centric Education

# Certificate

of participation

This is to acknowledge and commend,

**Sujith**

For their vibrant and active participation in the workshops on **TechX : Building Pick & Place Robot** held on **11th May 2024**. We are pleased to present this certificate for your participation and also extend our heartfelt appreciation for your dedication to making learning not just a process but a shared and enjoyable journey.

Congratulations on your outstanding participation!

**Dr. S. Kumar**  
Executive Secretary - Comedkares





# RajaRajeswari College of Engineering

Kumbalgodu, Bangalore-74

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

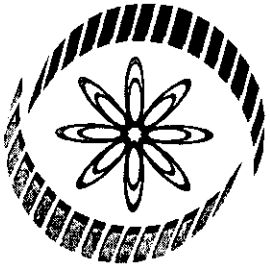
NPTEL COURSE ENROLLED AND CLEARED

YEAR 2023(JAN-APRIL)

SL. NO	COURSE NAME	NAME	CERTIFICATE TYPE
1.	Natural language processing	ABHISHEK PANDEY	Successfully completed
2.	Understanding incubation and entrepreneurship	ABHISHEK PANDEY	Elite
3.	Introduction to Internet of Things	ANUSHIA V	Elite
4.	Foundation of cloud IOT Edge ML	ANUSHA	Elite
5.	Privacy and security in online social media	ANUSHIA B AMARGATTI	Elite
6.	Ethical Hacking	ANUSHA MAHESH	Elite
7.	Python for Data Science	TEJAS V	Successfully completed
8.	Privacy and security in online social media	AVINAASI LJ	Elite
9.	Blockchain and its application	AVINAASI LJ	Successfully complete
10.	Cloud Computing and Distributed System	BHOOMIKA H K	Elite
11.	Programming in Java	CHANDANA K L	Successfully completed
12.	Privacy and security in online social media	CHITRA SHREE V	Elite
13.	Introduction to Internet of Things	DINESHIKUMAR M	Elite
14.	Introduction to Machine Learning	DURGESH BABU P	Successfully completed
15.	Programming in Java	GIRISH	Successfully completed
16.	The Joy of Computing using Python	SIDDESH GOWDA S	Elite
17.	Programming in Java	GAGAN GR	Successfully completed
18.	Introduction to Internet of Things	HARSHITHA V	Elite
19.	Cloud Computing and Distributed System	H PUSHPALATHA	Elite
20.	Introduction to Machine Learning	HIRITHIK K A	Successfully completed
21.	Foundation of cloud IOT Edge ML	JESICA G V	Elite
22.	Data Analytics with Python	SURYAKANTH MASTAPPA NAIK	Elite
23.	Foundation of cloud IOT Edge ML	KEERTHAN GOWDA HK	Successfully completed
24.	Ethical Hacking	KEERTHANA R	Successfully completed
25.	Data Analytics with Python	VISHWAS K	Elite
26.	Cloud Computing and Distributed System	KRUTHIKA S MURTHY	Elite
27.	Blockchain and its application	KRUTHIKA S MURTHY	Successfully completed
28.	Introduction to Industry 4.0 and Industrial Internet of Things	KRUTHIKA S MURTHY	Elite
29.	Foundation of cloud IOT Edge ML	LAVANYA N MURTHY	Elite
30.	Foundation of cloud IOT Edge ML	MEGHANA M POOJARI	Elite
31.	Introduction to Programming in C	MRUDULA NS	Elite
32.	Ethical Hacking	MUDASIR HASHMAT WANI	Elite
33.	Privacy and security in online social media	GUNASREE N A	Elite
34.	The Joy of Computing using Python	NAGAMALLESH N	Elite
35.	Data Analytics with Python	SAMYUKTHA R	Elite
36.	Data Analytics with Python	SAMYUKTHA S	Elite
37.	Data Analytics with Python	SHAFIYA ANSHUMA A	Successfully completed
38.	Privacy and Security in Online Social Media	SHERLIN JAGATHI J	Elite
39.	Machine Learning	SHIREESHA Y A	Successfully completed
40.	Programming in Java	SHIREYA M	Successfully completed
41.	Introduction to internet of things	SINCY ELEZEBETH	Elite
42.	Data Analytics with Python	SNEHA APARNA	Elite
43.	Data Analytics with Python	SNEHA N V	Elite
44.	Privacy and Security in Online Social Media	SRIGOWRI N	Elite

45.	Cloud computing and Distributed System	SUMANTH S	Elite
46.	Foundation of cloud IoT Edge ML	SUPRAJA AV	Elite
47.	Introduction to Programming in C	SUPRAKASH SANTRA	Elite
48.	Programming in Java	SUPRAKASH SANTRA	Elite
49.	Machine Learning	SUSHMITHA M	Successfully completed
50.	Programming in Java	VAMSHI S	Elite
51.	The Joy of computing using Python	VIDYASHREE B P	Elite
52.	Privacy and Security in Online Social Media	VISHRUTHA K S	Successfully completed
53.	Introduction to internet of things	VMSARAVANAPERUMAL	Elite
54.	Introduction to internet of things	YASHAS J	Successfully completed
55.	Cloud computing and distributed systems	YASHASWINI UB	Elite
56.	Python for Data Science	YASHIWANTH P S	Successfully completed
57.	Privacy and Security in Online Social Media	AAKASHADHITHYA D K	Elite
58.	Ethical Hacking	ABHILESH ATUL PATIL	Successfully completed

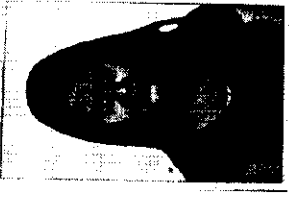




**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SAMYUKTHA R**

for successfully completing the course

## Data Analytics with Python

with a consolidated score of **67** %

Online Assignments	23.75/25	Proctored Exam	42.75/75
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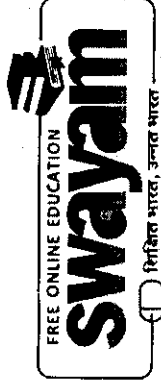
Total number of candidates certified in this course: **7860**

**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee



Indian Institute of Technology Roorkee

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee

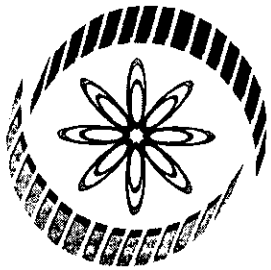


Roll No: NPTEL23CS08S13232434

To validate the certificate



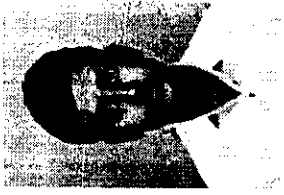
No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

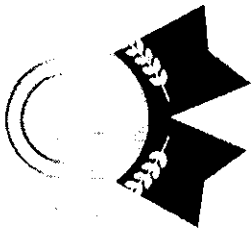
(Funded by the MoE, Govt. of India)



This certificate is awarded to

**NAGAMALLESH N**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	54/75
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Total number of candidates certified in this course: **10672**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

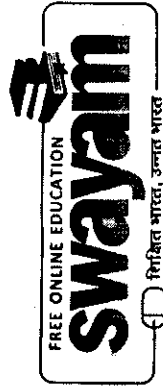
Chairperson,  
Centre for Outreach and Digital Education, IITM



Indian Institute of Technology Madras

*TH*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

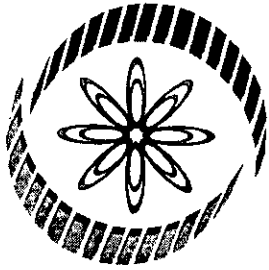


Roll No: NPTEL23CS20S13232197



To validate the certificate

No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**GUNASREE N A**

for successfully completing the course

## Privacy and Security in Online Social Media

with a consolidated score of **67** %

Online Assignments	21.63/25	Proctored Exam	44.99/75
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Total number of candidates certified in this course: **3697**

*Kishore*

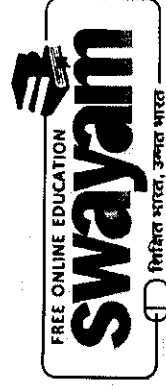
**Prof. Kishore Kothapalli**  
Professor and Dean (Academics)  
IIT Hyderabad



International Institute of Information Technology, Hyderabad

*Andrew*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



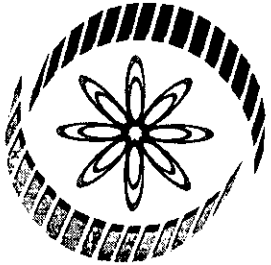
Roll No: NPTEL23CS13S33231988

To validate the certificate



No. of credits recommended: 3 or 4





**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MUDASIR HASHMAT WANI**

for successfully completing the course

## Ethical Hacking

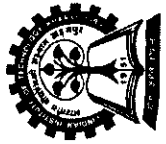
with a consolidated score of **63** %

Online Assignments	22.78/25	Proctored Exam	40/75
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Total number of candidates certified in this course: **2228**

Jan-Apr 2023

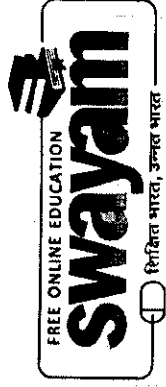
(12 week course)



Indian Institute of Technology Kharagpur

*Debjani*

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur

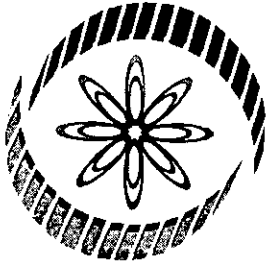


Roll No: NPTEL23CS44S54680108

To validate the certificate



No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MRUDULA NS**

for successfully completing the course

## Introduction to Programming In C

with a consolidated score of **64** %

Online Assignments	24.67/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **2097**

*Pathish*

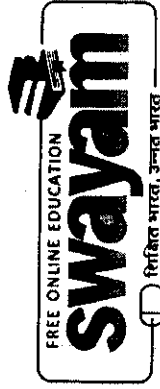
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

*Satyaki Roy*

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur

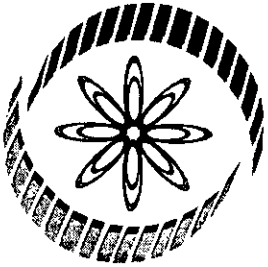


Roll No: NPTEL23CS02S14221627

To validate the certificate



No. of credits recommended: 2 or 3



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**MEGHANA M POOJARI**

for successfully completing the course

## Foundation of Cloud IoT Edge ML

with a consolidated score of **62** %

Online Assignments	14.75/25	Proctored Exam	47.45/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1649**

*Pathish*

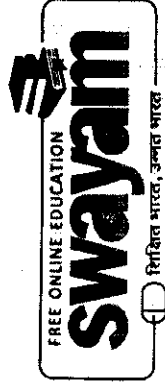
**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

*Satyaki Roy*

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



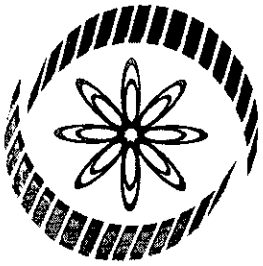
Roll No: NPTEL23CS65S33230753



To validate the certificate

No. of credits recommended: 2 or 3





**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)

This certificate is awarded to

**LAVANYA N MURTHY**

for successfully completing the course

## Foundation of Cloud IoT Edge ML

with a consolidated score of **68** %

Online Assignments	18.54/25	Proctored Exam	49.5/75
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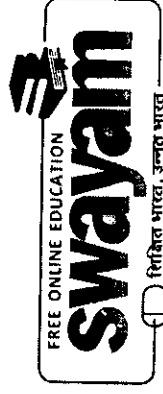
Total number of candidates certified in this course: **1649**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

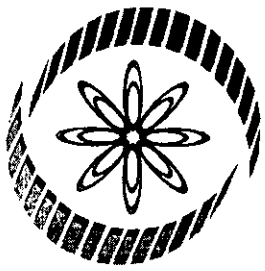
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL23CS65S43233114

To validate the certificate

No. of credits recommended: 2 or 3



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KRUTHIKA S MURTHY**

for successfully completing the course

## Introduction to Industry 4.0 and Industrial Internet of Things

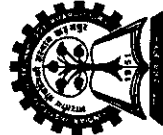
with a consolidated score of **65** %

Online Assignments	18.31/25	Proctored Exam	46.5/75
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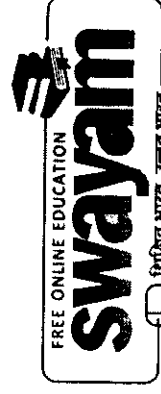
Total number of candidates certified in this course: **7689**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



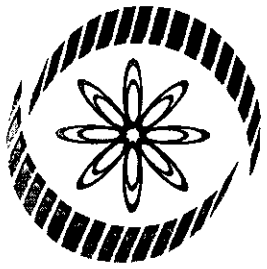
Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS52S23230094

To validate the certificate

No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KRUTHIKA S MURTHY**

for successfully completing the course

## Blockchain and its Applications

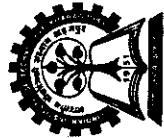
with a consolidated score of **49** %

Online Assignments	19.35/25	Proctored Exam	30/75
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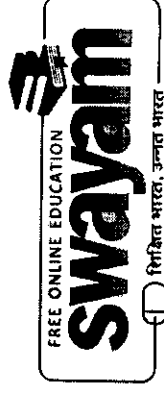
Total number of candidates certified in this course: **1891**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

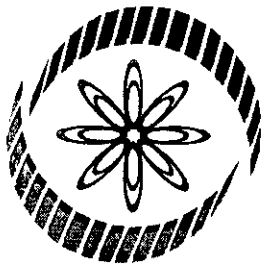


Roll No: NPTEL23CS47S33230330

To validate the certificate

No. of credits recommended: 3 or 4

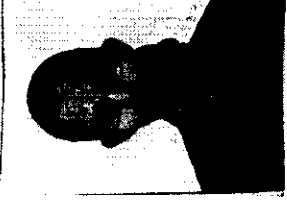




Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KRUTHIKA S MURTHY**

for successfully completing the course

## Cloud Computing and Distributed Systems

with a consolidated score of **66** %

Online Assignments	23.13/25	Proctored Exam	42.75/75
--------------------	----------	----------------	----------

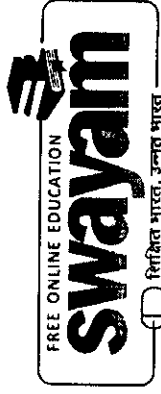
Total number of candidates certified in this course: **2219**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

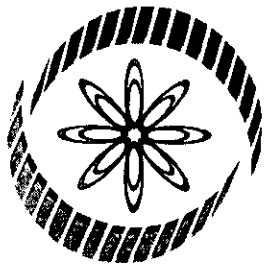
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL23CS27S44223123

To validate the certificate

No. of credits recommended: 2 or 3



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**VISHWAS K**


for successfully completing the course

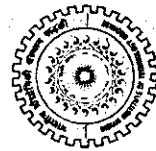
## Data Analytics with Python

with a consolidated score of **62** %

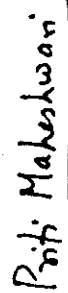
Online Assignments	23.75/25	Proctored Exam	38.25/75
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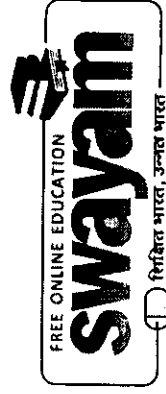
Total number of candidates certified in this course: **7860**

  
**Prof. Sanjeev Manhas**  
 Coordinator, Continuing Education Centre  
 IIT Roorkee



Indian Institute of Technology Roorkee

  
**Prof. Priti Maheshwari**  
 NPTEL Coordinator  
 IIT Roorkee

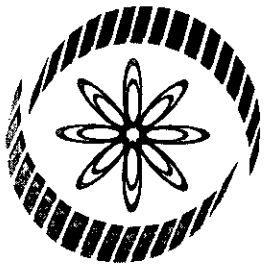


Roll No: NPTEL23CS08S23231968

To validate the certificate

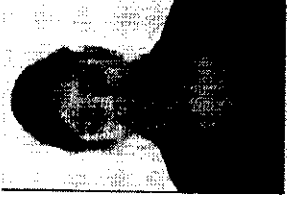


No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KEERTHANA R**

for successfully completing the course

## Ethical Hacking

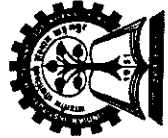
with a consolidated score of **52** %

Online Assignments	22.47/25	Proctored Exam	30/75
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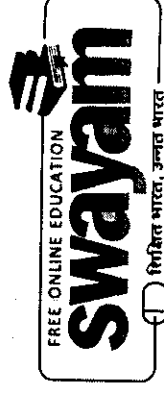
Total number of candidates certified in this course: **2228**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

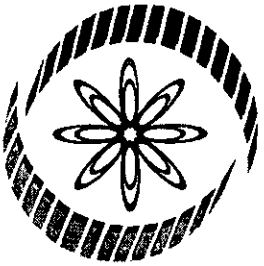


Roll No: NPTEL23CS44S23230414

To validate the certificate

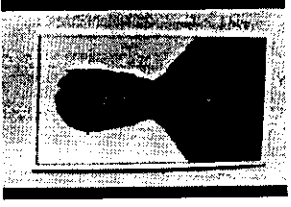
No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**KEERTHAN GOWDA HK**

for successfully completing the course

## Foundation of Cloud IoT Edge ML

with a consolidated score of **57** %

Online Assignments	18.13/25	Proctored Exam	39/75
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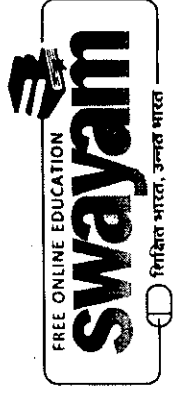
Total number of candidates certified in this course: **1649**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

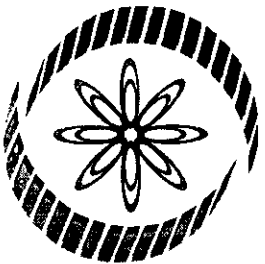
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL23CS65S43230551

To validate the certificate

No. of credits recommended: 2 or 3



Elite

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SURYAKANTH MASTAPPA NAIK**


for successfully completing the course

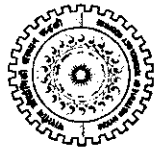
## Data Analytics with Python

with a consolidated score of **60** %

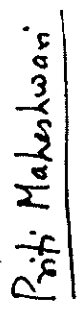
Online Assignments	23.75/25	Proctored Exam	36/75
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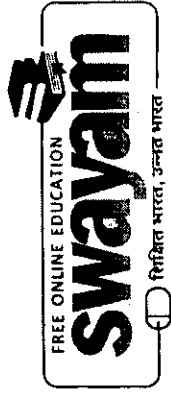
Total number of candidates certified in this course: **7860**

  
**Prof. Sanjeev Manhas**  
Coordinator, Continuing Education Centre  
IIT Roorkee



Indian Institute of Technology Roorkee

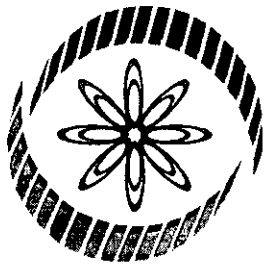
  
**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Roll No: NPTEL23CS08S13231024

To validate the certificate

No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

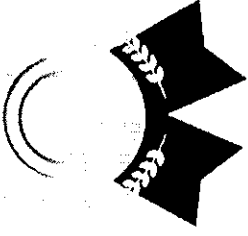
(Funded by the MoE, Govt. of India)



This certificate is awarded to

**JESICA G V**

for successfully completing the course



## Foundation of Cloud IoT Edge ML

with a consolidated score of **83** %

Online Assignments	18.13/25	Proctored Exam	64.88/75
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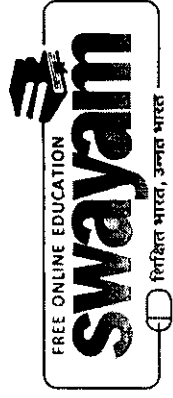
Total number of candidates certified in this course: **1649**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur

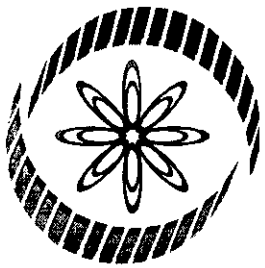


Roll No: NPTEL23CS65S43230519

To validate the certificate

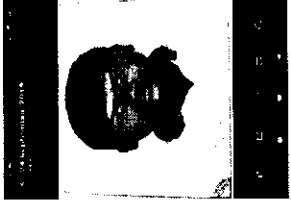
No. of credits recommended: 2 or 3





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**HRITHIK KA**

for successfully completing the course

## Introduction to Machine Learning

with a consolidated score of **56** %

Online Assignments	22.97/25	Proctored Exam	33.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **1816**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,  
Centre for Outreach and Digital Education, IITM

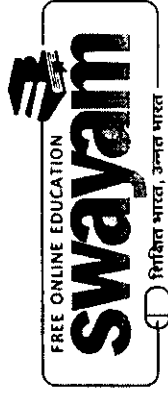


Indian Institute of Technology Madras

Jan-Apr 2023

(12 week course)

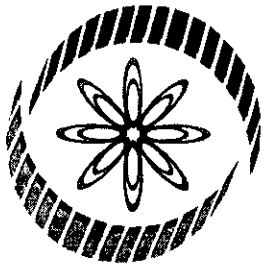
**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



Roll No: NPTEL23CS18S63230746

To validate the certificate

No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

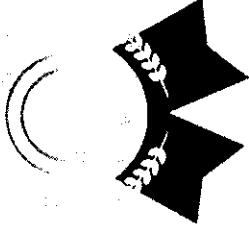
(Funded by the MoE, Govt. of India)



This certificate is awarded to

**H PUSHPALATHA**

for successfully completing the course



## Cloud Computing and Distributed Systems

with a consolidated score of **76** %

Online Assignments	25/25	Proctored Exam	51/75
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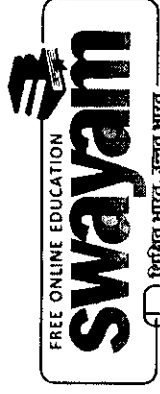
Total number of candidates certified in this course: **2219**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

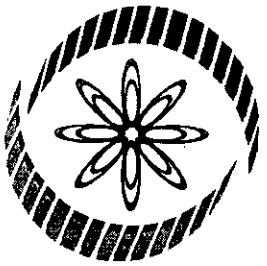
**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL23CS27S35220164

To validate the certificate

No. of credits recommended: 2 or 3



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**HARSHITHA V**

for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **62** %

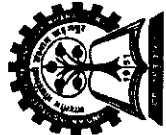
Online Assignments	24.13/25	Proctored Exam	37.5/75
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Total number of candidates certified in this course: **14770**

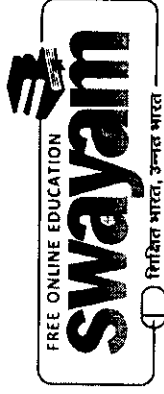
Jan-Apr 2023

(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur

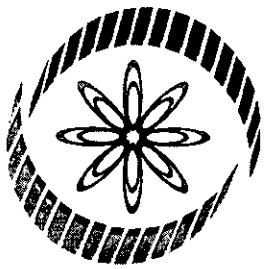


Roll No: NPTEL23CS51S23234174

To validate the certificate

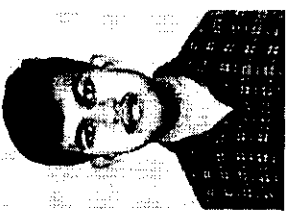
No. of credits recommended: 3 or 4





# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**GAGAN GR**

for successfully completing the course

## Programming In Java

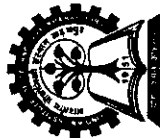
with a consolidated score of **57** %

Online Assignments	24.69/25	Proctored Exam	32/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **9357**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



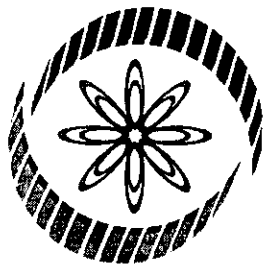
Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS49S23234101

To validate the certificate

No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

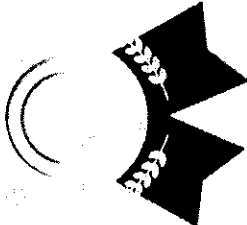
(Funded by the MoE, Govt. of India)



This certificate is awarded to

**SIDDESH GOWDA S**

for successfully completing the course



## The Joy of Computing using Python

with a consolidated score of **79** %

Online Assignments	25/25	Proctored Exam	53.57/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **10672**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,  
Centre for Outreach and Digital Education, IITM

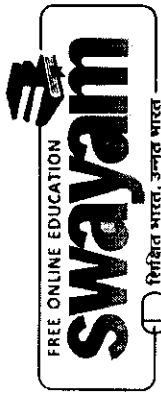


Indian Institute of Technology Madras

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

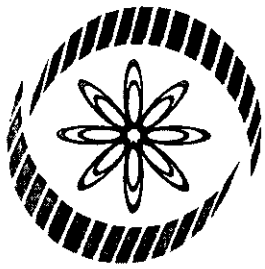
NPTEL, Coordinator  
IIT Madras



Roll No: NPTEL23CS20S23234103

To validate the certificate

No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**GIRISH**

for successfully completing the course

## Programming In Java

with a consolidated score of **56** %

Online Assignments	24.47/25	Proctored Exam	31.13/75
--------------------	----------	----------------	----------

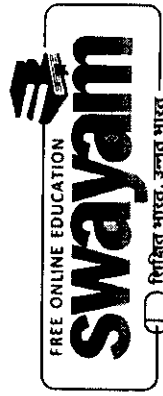
Total number of candidates certified in this course: **9357**

Jan-Apr 2023  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



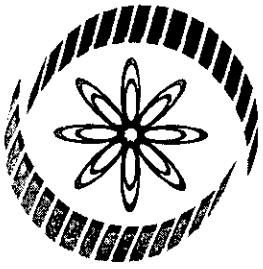
Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS49S13230981

To validate the certificate

No. of credits recommended: 3 or 4



# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DURGESH BABU P**

for successfully completing the course

## Introduction to Machine Learning

with a consolidated score of **55** %

Online Assignments	24.53/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1816**

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairperson,  
Centre for Outreach and Digital Education, IITM

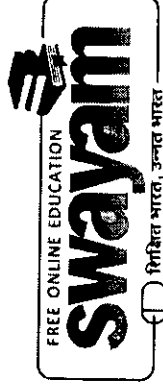


Indian Institute of Technology Madras

Jan-Apr 2023

(12 week course)

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

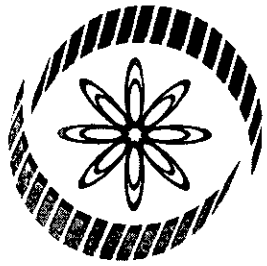


Roll No: NPTEL23CS18S63230897

To validate the certificate

No. of credits recommended: 3 or 4





**Elite**

# NPTEL Online Certification

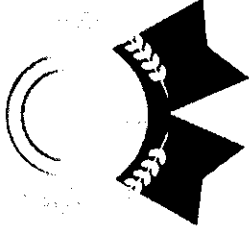
(Funded by the MoE, Govt. of India)



This certificate is awarded to

**DINESHKUMAR M**

for successfully completing the course



## Introduction to Internet of Things

with a consolidated score of **75** %

Online Assignments	23.75/25	Proctored Exam	51/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **14770**

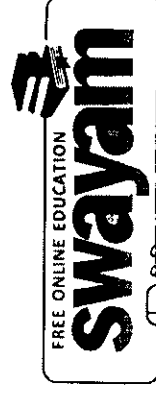
Jan-Apr 2023  
(12 week course)

*DeGauil*

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



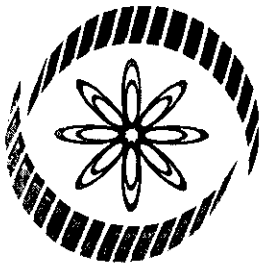
Indian Institute of Technology Kharagpur



Roll No: NPTEL23CS51S64930219

To validate the certificate

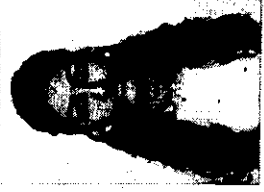
No. of credits recommended: 3 or 4



**Elite**

# NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**CHITRA SHREE V**

for successfully completing the course

## Privacy and Security in Online Social Media

with a consolidated score of **66** %

Online Assignments	18.04/25	Proctored Exam	48.08/75
--------------------	----------	----------------	----------

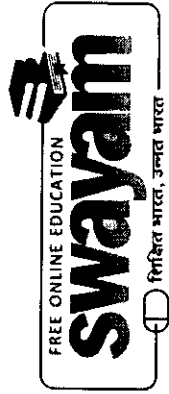
Total number of candidates certified in this course: **3697**

**Prof. Kishore Kothapalli**  
Professor and Dean (Academics)  
IIT Hyderabad

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras



International Institute of Information Technology, Hyderabad



Roll No: NPTEL23CS13S43233932

To validate the certificate

No. of credits recommended: 3 or 4



# RajaRajeswari College of Engineering

AFFILIATED TO VTU, BELGAUM, APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA

Academic year: 2023 - 2024

Subject name: Global Financial Management

Sem: IV

Subject code: 22MBAFM403

Faculty name: S. Sushma Rawath

Advanced learner IA (I/II/III): I

SL. NO	USN	STUDENT NAME	MARKS (MAX 50)
1	1RR22BA002	Akash G	49
2	1RR22BA011	Chaithra K S	50
3	1RR22BA012	Chandana H S	49
4	1RR22BA013	Chayamani K	49
5	1RR22BA028	Nisarga B K	50
6	1RR22BA034	Priyanka J	50
7	1RR22BA036	Rakesh C S	49
8	1RR22BA037	Ramya M	49
9	1RR22BA040	Sangeetha B N	50
10	1RR22BA049	Varshitha L	49
11	1RR22BA050	Varun D C	49
12	1RR22BA054	Yogaraj K	50
13	1RR22BA057	Jeevan K H	50
14	1RR22BA059	Shridhar	49

  
Signature of Faculty

  
HOD

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore 560024



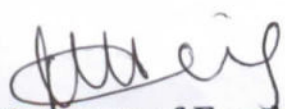
Academic year: 2023 - 2024

Subject name: Statistics for manager Sem:1<sup>st</sup>

Subject code: 22MBA14 Faculty name: Maheshwari. C

Advanced learner : I (Section A)

Sl. no	USN	Student name	Marks (Max 50)
1	1RR23BA027	HARSHITHA. G	49
2	1RR23BA003	ANKITHA. G	47
3	1RR23BA006	BRUNDA. P	47
4	1RR23BA029	JNANESH KUMAR. S	45
5	1RR23BA014	DEEPIKA S.V	44
6	1RR23BA031	KAVANA. H	44
7	1RR23BA041	M. PALLAVI	44
8	1RR23BA012	DEEPAK. K	41
9	1RR23BA017	DILEEP. K	40
10	1RR23BA009	CHETHANA M.K	40

  
Signature of Faculty

  
HOD

HOD  
Department of Management Studies  
RajaRajeswari College of Engineering  
Bangalore - 560 074.




Academic year: 2023 - 2024

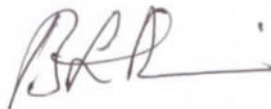
Subject name: Statistics for manager                      Sem:1<sup>st</sup>

Subject code: 22MBA14                      Faculty name: Maheshwari. C

Advanced learner : I (Section B)

Sl. no	USN	Student name	Marks (Max 50)
1	1RR23BA086	SRI CHAITANYA B L	47
2	1RR23BA052	NARESH R	46
3	1RR23BA070	S PRIYADARSHINI	46
4	1RR23BA059	POOJANA M	45
5	1RR23BA074	SANJANA B	45
6	1RR23BA063	PRIYA B	44
7	1RR23BA094	TANUSHREE K	44
8	1RR23BA075	SANJAY D B	43
9	1RR23BA066	R CHETHAN	41
10	1RR23BA055	PALLAVI M GANIGER	40

  
**Signature of Faculty**

  
**HOD**

**HOD**  
 Department of Management Studies  
 RajaRajeswari College of Engineering  
 Bangalore - 560 074.



# Raja Rajeswari College of Engineering

(An Autonomous Institute, Affiliated Visvesvaraya Technological University, Belagavi,  
Approved by AICTE, UGC & GoK, Accredited by ISO 9001-2015 Certified Institution)  
Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

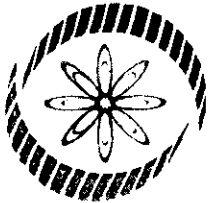


## Department of Management Studies

MOOC/NPTEL Course completion Details of PG students of Scheme-2022 - 24

Sl. No	Name	USN	Course enrolled details	Duration of the course week	Start Date	End Date	Credit earned
1	Akash G	1RR22BA002	Brand Management	8	July,2024	September,2024	3
2	Boomika B P	1RR22BA008	Brand Management	8	July,2024	September,2024	3
3	Darshan Kumar N	1RR22BA014	Brand Management	8	July,2024	September,2024	3
4	Dhananjay R	1RR22BA015	Brand Management	8	July,2024	September,2024	3
5	Harshitha N	1RR22BA018	Brand Management	8	July,2024	September,2024	3
6	Jovina J Doddamani HOD	1RR22BA019	Introduction to marketing management - I	8	March,2024	May, 2024 PRINCIPAL	3
7	Kiran HK	1RR22BA021	Brand Management	8	July,2024	September,2024	3
8	Maruthi KR	1RR22BA025	Brand Management	8	July,2024	September,2024	3
9	Neha M	1RR22BA027	Introduction to marketing management - I	8	March,2024	May, 2024	3
10	Nisarga BK	1RR22BA028	Brand Management	8	July,2024	September,2024	3
11	Ramya M	1RR22BA037	Introduction to marketing management - I	8	March,2024	May, 2024	3
12	Shreya P	1RR22BA042	Introduction to marketing management - I	8	March,2024	May, 2024	3
13	Swetha K M	1RR22BA045	Brand Management	8	July,2024	September,2024	3
14	Tamilarasi R	1RR22BA046	Introduction to marketing management - I	8	March,2024	May, 2024	3
15	Vidya M	1RR22BA051	Introduction to marketing management - I	8	March,2024	May, 2024	3
16	Soniya V G	1RR22BA058	Brand Management	8	July,2024	September,2024	3
17	Shridhar V	1RR22BA059	Brand Management	8	July,2024	September,2024	3

*ASA*  
HOD



# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

**BHOOMIKA B P**

for successfully completing the course

## Brand Management

with a consolidated score of **51** %

Online Assignments	17.92/25	Proctored Exam	33/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1426**

*Ratish*

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

*Satyaki*

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL24MG84S432003181

To verify the certificate

No. of credits recommended: 2 or 3

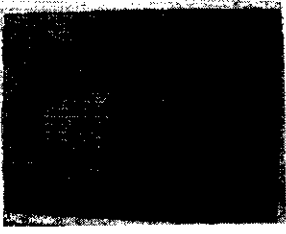


# NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



**Skill India**  
कौशल भारत - कुशल भारत



This certificate is awarded to

**DARSHAN KUMAR N**

for successfully completing the course

**Brand Management**

with a consolidated score of **57** %

Online Assignments	20.42/25	Proctored Exam	36.75/75
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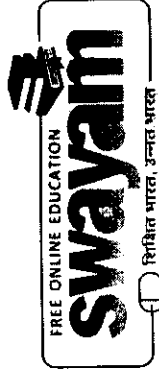
Total number of candidates certified in this course: **1426**

**Prof. B. V. Ratish Kumar**  
Chairman, Centre for Continuing Education  
IIT Kanpur



Indian Institute of Technology Kanpur

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Roll No: NPTEL24MG84S432001454

To verify the certificate

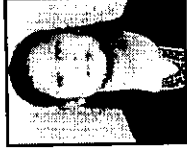
No. of credits recommended: 2 or 3





# SWAYAM ONLINE COURSE CERTIFICATION

*This certificate is awarded to  
**Jovina J Doddamani**  
 for successfully completing the 3 credit course  
**Introduction to Marketing Management - I**  
 with a consolidated score of 63%  
 from the evaluation based on continuous online assessments and the proctored  
 examination held in month of May 2024.*



Roll No. : KK04050397

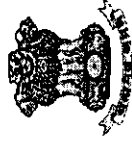
*This course was offered by **Dr. Nambram Anulkumar** of Manipal University, Imphal*

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	25	70	38	100	63

**J. B. Nadda**  
 National Coordinator  
 Consortium for Educational Communication (CEC),  
 New Delhi

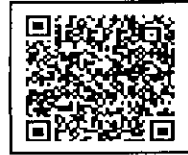


**Prof. W. C. Singh**  
 Registrar  
 Manipal University, Imphal



# SWAYAM ONLINE COURSE CERTIFICATION

This certificate is awarded to  
**Neha M**  
 for successfully completing the 3 credit course  
**Introduction to Marketing Management - 1**  
 with a consolidated score of 61%  
 from the evaluation based on continuous online assessments and the proctored  
 examination held in month of May 2024.



Roll No. : KK04050489

This course was offered by **Dr. Nambram Anulkumar of Manipur University, Imphal**

Marks in Online Assignments		Marks in Proctored Exam		Total Score	
Total	Obtained	Total	Obtained	Total	Obtained
30	25	70	36	100	61

J. B. Nadda  
 National Coordinator  
 Consortium for Educational Communication (CEC),  
 New Delhi



Prof. W. C. Singh  
 Registrar  
 Manipur University, Imphal

**RajaRajeswari College of Engineering**  
(An Autonomous Institute, Affiliated Vesswaraya Technological University, Belagavi.)

Approved by AICTE, UGC & GoK, Accredited by ISO 9001:2015 Certified Institution)


Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST




**Department of Management Studies**  
**Internship Details (2022-24)**

Sl No	USN	Student Name	Company name in which Internship have taken place
1	IRR22BA001	Abhishek Yadav A	Techno Tools Pvt Ltd
2	IRR22BA002	Akash G	Hindusthan Coca-cola Beverages Pvt Ltd
3	IRR22BA003	Ambika Hosamani	Anika Auto Mobiles Pvt Ltd
4	IRR22BA005	Ashwini S	Spectrum Tool Engineering Pvt Ltd
5	IRR22BA006	Basavaraju R	KONGOVI
6	IRR22BA007	Bharath S	Global board pvt ltd
7	IRR22BA008	Bhoomika B P	Sri Chamundeshwari Sugars Ltd
8	IRR22BA009	Bhoomika M N	Bangalore Electriccity Supply Company Ltd
9	IRR22BA010	Byresh C V	Dhanalakshmi
10	IRR22BA011	Chaithra K S	Sahaja Samrudha Organic Producer Co. Ltd.
11	IRR22BA012	Chandana H S	ABB
12	IRR22BA013	Chayamani K	Vasavi Health Care Products
13	IRR22BA014	Darshankumar N	Essen Bright Steel (p) Ltd.
14	IRR22BA015	Dhananjay R	RANGER Apperal Export Pvt Ltd
15	IRR22BA016	Gunanitha A C	Adithya Birla Fashion & Retail
16	IRR22BA017	Harsha K S	Chartered Associates
17	IRR22BA018	Harshitha N	AVASARALA Technologies Ltd
18	IRR22BA019	Jovina Joseph Doddamani	VALTEK Corporation
19	IRR22BA020	Karibasava Patil	MICROBI Agrotech Pvt Ltd
20	IRR22BA021	Kiran H K	S S Industries
21	IRR22BA022	Kirana K L	H R Enterprised Business Pvt Ltd
22	IRR22BA023	Lohith K N	ARUN IIR Solutions
23	IRR22BA024	Mallikarjuna Aradhya	Creative Manufacturers
24	IRR22BA025	Maruthi K R	ACC Ltd
25	IRR22BA026	Navyashree R	Sri Narayan Silk Mill
26	IRR22BA027	Neha M	Cure Joy Media Private Limited
27	IRR22BA028	Nisarga B K	Paramount Nutritions India Pvt Ltd
28	IRR22BA029	Nisarga K R	TELCEL Engineering (P) Ltd.
29	IRR22BA030	Palla Devi Prasanna	Royal Enfield
30	IRR22BA031	Pavan S	Sree Sai Mitra Drip Industries Pvt. Ltd
31	IRR22BA032	Prashanth K V	Peekay Steelcasting (P) Ltd.
32	IRR22BA033	Priyanka B S	Karnataka Soaps & Detergents Limited
33	IRR22BA034	Priyanka J	Ramsons Garment Finishing Equipments Pvt. Ltd
34	IRR22BA035	Raju C L	Harsha Enterprises
35	IRR22BA036	Rakesh C S	Komtech Plastics Technologies India Pvt. Ltd.
36	IRR22BA037	Ramyra M	Karnataka Powder Transportation Corporation Limited
37	IRR22BA038	Sachin	SLNS Technologies
38	IRR22BA039	Sampath C S	Pragathi Steel Castings Private Ltd

39	IRR22BA040	Sangeetha B N	Bharat Electronics Limited
40	IRR22BA041	Sanjay G I	The Mandya Dist. Co-operative Milk Producer Societies Union Limited
41	IRR22BA042	Shreya P	Sri Lakshmi Motors
42	IRR22BA043	Srikanth P C	Archidply Décor
43	IRR22BA044	Sudha M	Hyundai - Anika Auto Mobiles Pvt Ltd
44	IRR22BA045	Swetha K M	Sri Ganesh Appliances
45	IRR22BA046	Familiarasi	Arasan International
46	IRR22BA047	Tejas B	Grotek Enterprises Private Ltd
47	IRR22BA048	V Punith	Euro-Suits Manufacturing Co., Pvt Ltd.
48	IRR22BA049	Varshitha L	Phoenix Precision Parts
49	IRR22BA050	Varun D C	LAGUNA
50	IRR22BA051	Vidya M	Metro Cash & Carry pvt Ltd.
51	IRR22BA052	Vishwas D R	Hindustan Spring MFG. Co. Unit - 1
52	IRR22BA053	Yashaswini H	ITC Limited
53	IRR22BA054	Yogaraj K	Sree Gajananna Motors Transport Pvt Ltd.
54	IRR22BA056	Dilip Gowda A M	Square Engineerings
55	IRR22BA057	Jeevan K H	Powerica Ltd
56	IRR22BA058	Soniya V G	Manibhadra Bag Works
57	IRR22BA059	Shridhar	Nandi Engineering Co.

  
 HOD  
 Department of Management Studies  
 RajaRajeswari College of Engineering  
 Bangalore - 560 074.

  
 Principla  
 Principal  
 RAJARAJESWARI  
 COLLEGE OF ENGINEERING  
 Ramohalli Cross, Bengaluru-74





# RajaRajeswari College of Engineering

Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi )  
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074



## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Programs Organised for Advanced Learners

S.No	Date	Event Name	Details
1	07.08.2023	Social Entrepreneurship & Life skills for GIG Economy	Mr. R. Sathish Raj CEO, E-Crusaders, Chennai
2	23.08.2024	Two Days IoT Onsite Workshop Training Program	Enthu Technology
3	25.11.2023	Alumni Talk on " Motherboard peripherals connections and functions "	Prarthana D Raj, Debug Engineer, UST GLOBAL
4	10.02.2024	Talk on "Overview of VLSI"	ARJUN E, ASIC Design Engineer, Moschip Technologies LTD
5	08.05.2024	National Level Project Exhibition and Competition " IGNITRRON-2024 "	
6	28.05.2024	Talk on "Logical Thinking and Problem Solving"	Dr.S R Subramanya, President and CEO, Exskillence, San Diego, USA

  
HOD-ECE

**PROFESSOR & HEAD**  
DEPT. OF ELECTRONICS & COMMUNICATION ENG.  
RAJARAJESWARI COLLEGE OF ENGG,  
BENGALURU - 560 074

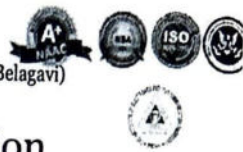


# RajaRajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## Department of Electronics and Communication Engineering



Date : 23-08-2023 & 24-08-2023

Venu : ECE Seminar Hall (Sathiyendranath bose)

Trained by: Enthu Technology

Enthu Technology Solutions India Pvt Ltd  
#88 & 89, SSN Square, Peelamedu Pudhur,  
Near RTO Office South,  
Coimbatore, Tamil Nadu - 641004,India  
GSTIN : 33AADCE9083H1ZJ



### Objectives:

The main objective is to provide the hands on experience in the field of IoT using LoRa WAN technology under the title of “Two Days IoT Onsite Workshop Training Program” for the students of ECE department.

The following mentioned titles are discussed by the trainer which are:

### Outline

Day 1	Day 2
<p><b>SESSION I(10 AM to 1:00 PM)</b></p> <ul style="list-style-type: none"> <li>• Introduction to IoT and its Application</li> <li>• Introduction to ESP32</li> <li>• Introduction to Arduino IDE &amp; Arduino programming</li> <li>• ESP32 library installation</li> <li>• Hands-On: Integration LED with WDM</li> <li>• DIY: Integration LED with WDM</li> <li>• Hands-On: Integration IR sensor with WDM</li> <li>• DIY: Integration IR sensor with WDM</li> <li>• Hands-On: Integration PIR sensor with WDM</li> <li>• DIY: Integration PIR sensor with WDM</li> <li>• Hands-On: Integration Flame sensor with WDM</li> <li>• DIY: Integration Flame sensor with WDM</li> <li>• Hands-On: Integration DHT11 sensor with WDM</li> <li>• DIY: Integration DHT11 sensor with WDM</li> </ul> <p><b>SESSION II(2 PM to 4:00 PM)</b></p> <ul style="list-style-type: none"> <li>• Hands-On: Integration Ultrasonic sensor with WDM</li> <li>• DIY: Integration Ultrasonic sensor with WDM</li> <li>• Hands-On: Integration LM35 sensor with WDM</li> <li>• DIY: Integration LM35 sensor with WDM</li> <li>• Hands-On: Integration Soil Moisture sensor with WDM</li> <li>• DIY: Integration Soil Moisture sensor with WDM</li> <li>• Hands-On: Integration MQ2 sensor with WDM</li> <li>• DIY: Integration MQ2 sensor with WDM</li> </ul>	<p><b>SESSION I(10 AM to 1:00 PM)</b></p> <p>BLE Mobile App:</p> <ul style="list-style-type: none"> <li>• Hands-On: Sending constant data from End Device to BLE Mobile App.</li> <li>• DIY: Sending constant Data from End Device to BLE Mobile App</li> <li>• Hands-On: Controlling LED from BLE Mobile App.</li> <li>• DIY: Controlling LED from BLE Mobile App.</li> <li>• Introduction to IoT Platform: Thing speak</li> <li>• Hands-On: Sending constant data from End Device to Thing speak channels.</li> <li>• DIY: Sending constant Data from End Device to Thing speak</li> <li>• Hands-On: Sending Ultrasonic sensor data from End Device to Thing speak channels.</li> <li>• DIY: Sending Ultrasonic sensor data from End Device to Thing speak channels.</li> </ul> <p><b>SESSION II(2 PM to 4:00 PM)</b></p> <ul style="list-style-type: none"> <li>• Hands-On: Sending IR sensor Data from End Device to Thing speak channels.</li> <li>• DIY: Sending IR sensor Data from End Device to Thing speak</li> <li>• Hands-On: Sending DHT11 sensor Data from End Device to Thing speak channels.</li> <li>• DIY: Sending DHT11 sensor Data from End Device to Things peak</li> <li>• Introduction to MQTT</li> <li>• Hands-On: Sending constant data from End Device to MQTT Mobile App.</li> <li>• DIY: Sending constant Data from End Device to MQTT Mobile App</li> <li>• DIY: Sending Sensor data from End Device to MQTT Mobile App.</li> </ul>





Total Number of Participants: 52 Students





**RajaRajeswari College of Engineering**  
(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)  
Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST  
Department of Electronics and Communication  
Engineering



**RAJARAJESWARI**  
**COLLEGE OF ENGINEERING**  
#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074



**Department of Electronics and  
Communication Engineering**  
Organizing

**TWO DAYS IOT ONSITE WORKSHOP  
TRAINING PROGRAM**

**BY**



**Venue: ECE Seminar Hall**

**Date : 23-08-2023 and 24-08-2023**

**Organizing committee**

- |   |   |  |
|---|---|--|
| <b>Dr. Balakrishna. R</b><br>Principal        | <b>Dr. J. Amutharaj</b><br>Vice-Principal | <b>Dr. A. K. Mariappan</b><br>Rector RRG I |
| <b>Dr. Thangadurai N</b><br>Dean - Innovation | <b>Dr. S. Usha</b><br>Dean R&D            | <b>Dr.L. Rangaiah</b><br>HOD / ECE         |

**Staff Co-ordinators**

- |  |   |
|--|---|
| <b>Dr. A. Muruganandham</b><br>Professor | <b>Dr. D. Soby</b><br>Associate Professor |
|--|---|

**Admissions Open for 2023-2024**  
**CET CODE: E145 / COMED-K: E099 / PG CET: T858**  
**Contact Number: +91-80-28437375**





# Rajajeswari College of Engineering

(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## Department of Electronics and Communication Engineering



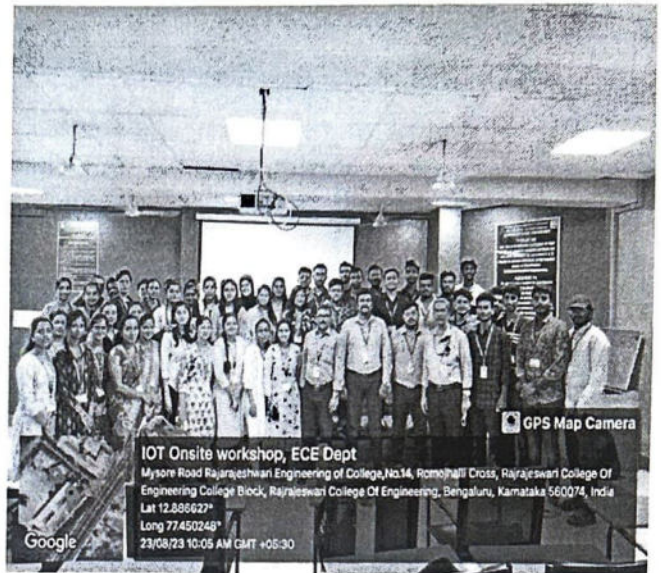
IOT Onsite workshop, ECE Dept  
Mysore Road Rajajeswari Engineering of College.No.14, Romohalli Cross, Rajajeswari College Of Engineering College Block, Rajajeswari College Of Engineering, Bengaluru, Karnataka 560074, India  
Lat 12.886627°  
Long 77.450248°  
23/08/23 09:38 AM GMT +05:30



IOT Onsite workshop, ECE Dept  
Mysore Road Rajajeswari Engineering of College.No.14, Romohalli Cross, Rajajeswari College Of Engineering College Block, Rajajeswari College Of Engineering, Bengaluru, Karnataka 560074, India  
Lat 12.886627°  
Long 77.450248°  
24/08/23 11:23 AM GMT +05:30



IOT Onsite workshop, ECE Dept  
Mysore Road Rajajeswari Engineering of College.No.14, Romohalli Cross, Rajajeswari College Of Engineering College Block, Rajajeswari College Of Engineering, Bengaluru, Karnataka 560074, India  
Lat 12.886627°  
Long 77.450248°  
24/08/23 09:20 AM GMT +05:30



IOT Onsite workshop, ECE Dept  
Mysore Road Rajajeswari Engineering of College.No.14, Romohalli Cross, Rajajeswari College Of Engineering College Block, Rajajeswari College Of Engineering, Bengaluru, Karnataka 560074, India  
Lat 12.886627°  
Long 77.450248°  
23/08/23 10:05 AM GMT +05:30

**Alumni Association - RajaRajeswari College of Engineering**  
**Department of Electronics and Communication Engineering**

**2023-24 Alumni Talk – A Report**

**Date: 25/011/2023**

**Event Name** : A Talk on " Motherboard peripherals connections and functions "  
**Venue** : Satyendranath Seminar Hall  
**Date & Time** : 25/11/2023 & 10.30am to 11.30am  
**Alumnus** : PRARTHANA D RAJ  
**Batch** : 2018 passed  
**Organization** : UST GLOBAL  
**Designation** : Debug Engineer

**Summary of the event:**

- ✦ The event started with welcoming the alumnus for the event by HoD-Dr.L Rangaiah, Dr.S.M Vijaya, Prof.Haritha, Prof.Shripathi., II year and IV year ECE Engineering students participated.
- ✦ Around 65 students from both the classes participated in the event. She went through all the challenges he came across in her engineering life that let her down and later told about the moral support she got from his mentors that made her stand in this position today.
- ✦ She let us know about the Soc validation and debugging for troubleshooting hardware and software issues.
- ✦ She even told us about the pre silicon and post silicon environments.
- ✦ She even guide us about the importance of Communication skills and presentation skills one should have while entering the industries.
- ✦ After the interaction with the students, the resource person was honored with Memento as a token of appreciation to conclude the event.



## Event poster



**RAJARAJESWARI COLLEGE OF ENGINEERING**  
AFFILIATED TO VTU, BELGAVI. APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**Prarthana D Raj**  
(RRCE- 2014 Batch)  
Debug Engineer UST  
GLOBAL

### "Technical talk on Motherboard peripherals connections and functions"

#### Contents:

- Soc validation and debugging for troubleshooting hardware and software issues.
- Pre silicon and Postsilicon environments.
- Communication skill and Presentation skill

**Dr.Rangaiah L**  
Prof. &Head  
Dept. of ECE

#### Venue:

**Satyendranath Bose Hall**

**25/11/2023**

**Time: 11 am**

**Dr. R Balakrishna**  
Principal

#### Co-ordinators:

**Dr. S.M.Vijaya.**  
Associate Professor  
Prof. Sreepathi  
Asst. Professor

#### CONTACT:

MOBILE: +91-9008845678

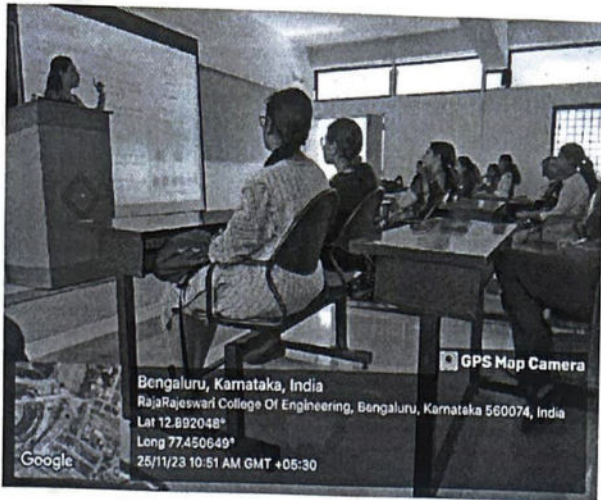
LANDLINE:+91-080-28437124/375



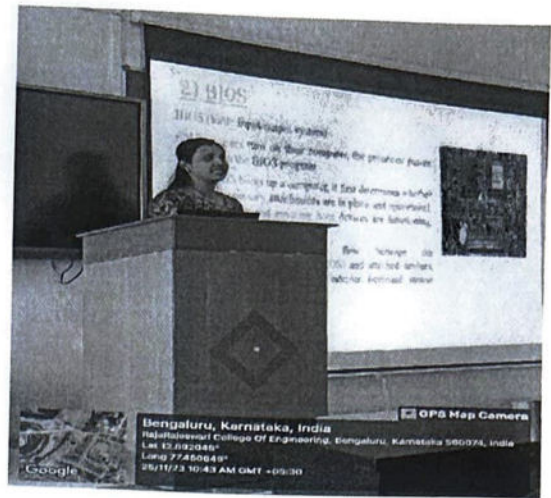
WEBSITE: [WWW.RRCE.ORG](http://WWW.RRCE.ORG)



## Photos of the Event



**Mrs. PRARTHANA D RAJ**  
Interacting with Students about herself



**Mrs. PRARTHANA D RAJ**  
Introduces to the student friends



**Alumnus interaction with the students & honored  
with Memento as a token of appreciation**

# **Alumni Association – RajaRajeswari College of Engineering**

## **Department of Electronics and Communication Engineering**

### **2023-24 Alumni Talk – A Report**

**Date: 21/12/2023**

<b>Event Name</b>	<b>: A Talk on “Overview of VLSI”</b>
<b>Venue</b>	<b>: Satyendra Nath Bose Seminar Hall</b>
<b>Date &amp; Time</b>	<b>: 21/12/2023 &amp; 11:00 am to 12:30 pm</b>
<b>Alumnus</b>	<b>: ARJUN E</b>
<b>Batch</b>	<b>: 2022 Passed</b>
<b>Organization</b>	<b>: Moschip Technologies LTD.</b>
<b>Designation</b>	<b>: ASIC Design Engineer</b>

#### **Summary of the event:**

- ✦ The event started with welcoming the alumnus by HoD-Dr. L Rangaiah and Dr. S.M Vijaya.
- ✦ III-year and IV-year ECE Engineering students participated, totaling around 100 students from both classes.
- ✦ The alumnus shared challenges he faced in his engineering life and discussed the moral support from mentors that helped him overcome obstacles.
- ✦ The session focused on an overview of VLSI, covering fundamental concepts like VLSI design flow, fabrication technologies, testing, and applications.
- ✦ Digital VLSI and Analog VLSI were also discussed during the session.
- ✦ Importance of communication skills and presentation skills for entering industries was emphasized.
- ✦ After the interaction with students, the resource person was honored with a memento as a token of appreciation, concluding the event.



## Event Poster



**RAJARAJESWARI COLLEGE OF ENGINEERING**  
AFFILIATED TO VTU, BELGAVI. APPROVED BY AICTE, NEW DELHI & GOVT. OF KARNATAKA



**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**ARJUN E**

ASIC Design Engineer  
**Moschip Technologies LTD.**  
RRCE 2022 Batch

**Technical Talk**

on

**"OVERVIEW OF VLSI"**

Contents:

The session on the overview of VLSI covers fundamental concepts such as VLSI design flow, fabrication technologies, testing, and applications, providing insights into the principles and applications of VLSI

Venue:

**Satyendra Nath Bose**

**21/12/2023**

**Time: 11:00 am**

**Dr. Rangaiah L**  
Prof. & Head  
Dept. of ECE

**Dr. R Balakrishna**  
Principal

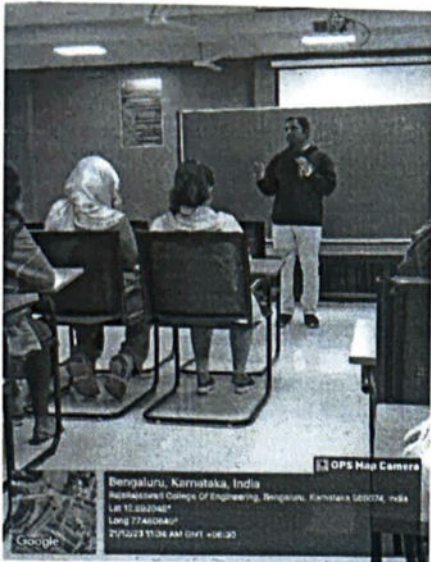
Co-ordinators:

**Dr. S.M.Vijaya**  
Associate Professor  
**Prof.Sreepathi**  
Asst. Professor

LANDLINE: +91-080-28437124/375  
CONTACT: MOBILE : +91-9008845678  
WEBSITE: WWW.RRCE.ORG



## Photos of the Event



**Mr. ARJUN E**

**Introduces himself to the students**



**Mr. ARJUN E**

**Interacting with Students about VLSI**



**Alumnus interaction with the students & honored  
with Memento as a token of appreciation**





**RAJARAJESWARI COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

*Presents*

**NATIONAL LEVEL PROJECT EXHIBITION**



**LAST DATE FOR  
REGISTRATION**

**6TH MAY, 2024**

**No Registration Fee**

**LINK FOR REGISTRATION**

**[HTTPS://FORMS.GLE/0BYCJ6FBAMEFG173R](https://forms.gle/0BYCJ6FBAMEFG173R)**



**CONVENER**

**Dr. Rangaiyah L**

**Professor and Head,  
ECE, RRCE**

**Dr. S Vijayanand**

**Executive Director, RRG**

**Dr. N Thangadurai**

**Dean (IPS), RRG**

**Dr. S Jeyabalan**

**Special Officer, RRG**

**Dr. A K Mariappan**

**Rector, RRG**

**Dr. Sunitha R, Assoc. Professor**

**Dr. Deepika J, Assoc. Professor**

**Prof. Chaithanya S, Asst. Professor**

**FACULTY CO-ORDINATORS**

**STUDENT CO-ORDINATORS**

**Varun Kumar N -9353164890**

**Md. Tahir -8088963918**

**CASH PRIZE**

**1st**

**Rs. 3000/-**

**2nd**

**Rs. 2000/-**

**3rd**

**Rs. 1000/-**

**Dr. Kari Siddappa**

**Advisor, RRG**

**Dr. Usha S**

**Dean (R&I), RRCE**

**Dr. R BalaKrishna**

**Principal, RRCE**





# RajaRajeswari College of Engineering



(Approved by AICTE, New Delhi, Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi)

Sponsored by: MOOGAMBIGAI CHARITABLE AND EDUCATIONAL TRUST

## ELECTRONICS AND COMMUNICATION ENGINEERING

Technical Talk on

### “Logical Thinking and Problem Solving”

#### REPORT

**Resource Person:** Dr.S R Subramanya, President and CEO, Exskillence, San Diego, USA

**Date:** 8th May 2024

**Time:**10:30 AM to 12:30PM

**Venue:**APJ Abdul Kalam Hall

**Organizer:** Dr. Sunitha R, Associate Professor, ECE.

**Participants:** 4<sup>th</sup> semester students

In the current information age, which is increasingly driven by technology, data, and automation, it is important for students and working professionals across disciplines, to be well grounded in logical thinking. With needs to cope with phenomenal increases in the amount of information, communication, interactions, changing and challenging societal needs and demands, logical thinking and problem solving is extremely essential and valuable for students and all professionals – scientists, engineers, doctors, lawyers, teachers, public administrators, law enforcement officials, managers, etc. It has been recognized that, for students to be successful as part of the future workforce, they must be adept at several of the “21st century skills” in order to be successful. Such skills include logical thinking and problem solving, quantitative and analytical skills, oral and written communication, team work and collaboration, etc. Among these skills, logical thinking and problem solving skills are very foundational in almost every facet of modern life.

**Outcome:** Students will be able to:

- (1) understanding of ambiguities in statements;
- (2) understanding and use of elements of propositional logic;
- (3) practice in the use of logical deduction techniques

Thanking you

Yours Sincerely

Dr. Sunitha R  
Coordinator  
(Associate Professor/ECE)

**Campus:** #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: principal@rrce.org

Website: <https://www.rrce.org>



# RajaRajeswari College of Engineering




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## ELECTRONICS AND COMMUNICATION ENGINEERING


### PHOTOS



## RajaRajeswari College of Engineering

#14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bangalore-560074  
An Autonomous Institution Approved by UGC under VTU\*, Approved by AICTE



### Department of Electronics and Communication Engineering


Cordially invites the Faculty and Students for the

## Technical Talk on

# *Logical Thinking and Problem Solving*

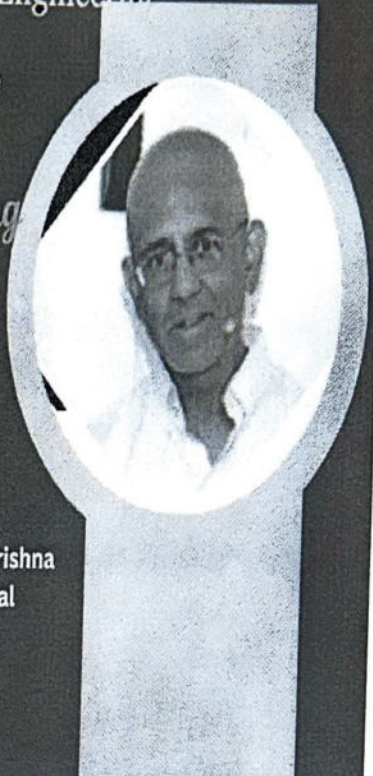
**Date**  
28/05/2024

**Time**  
10.00 AM  
to  
12.00 PM



A P J Abdul Kalam conference Hall


**Resource Person**  
*Dr. S. R. Subramanya*  
President & CEO  
Exskillence, San Diego, USA




**Dr. Sunitha R**  
Co-ordinator  
Associate Professor  
ECE, RRCE

**Dr. Rangaiah L**  
Professor and HOD  
ECE Department  
RRCE

**Dr. R Balakrishna**  
Principal  
RRCE



**for Admissions**  
Contact: 9008845678



COMED-K: E099 CET CODE: E145

[www.rrce.org](http://www.rrce.org)

**Campus:** #14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

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## ELECTRONICS AND COMMUNICATION ENGINEERING



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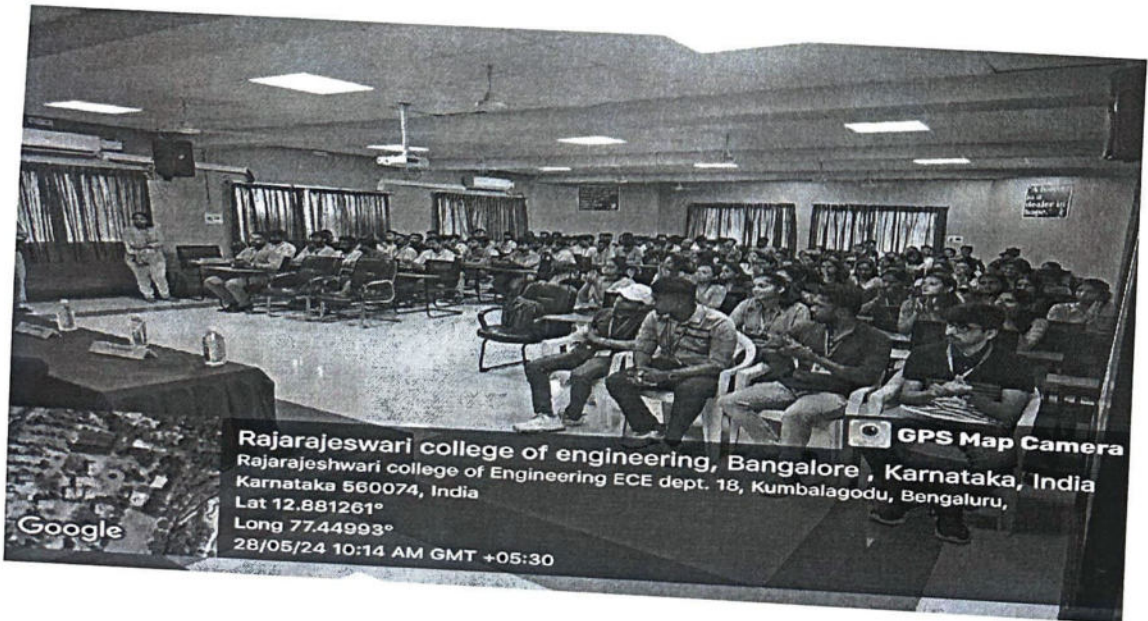
# RajaRajeswari College of Engineering



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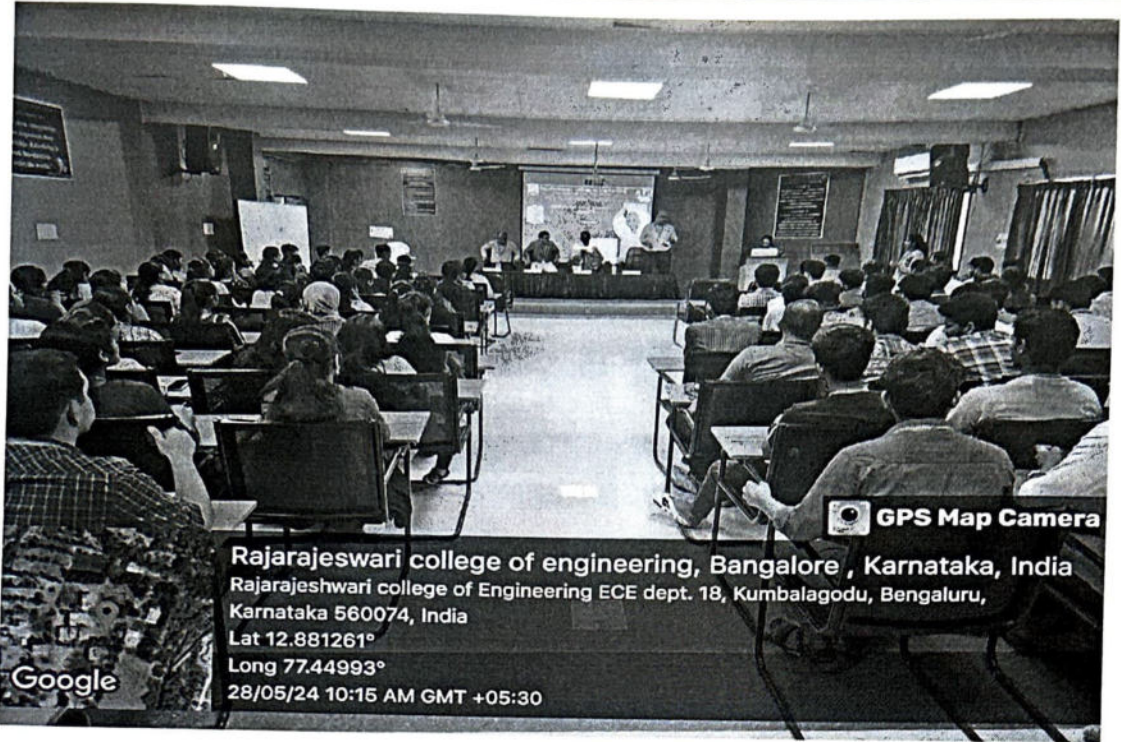
# RajaRajeswari College of Engineering



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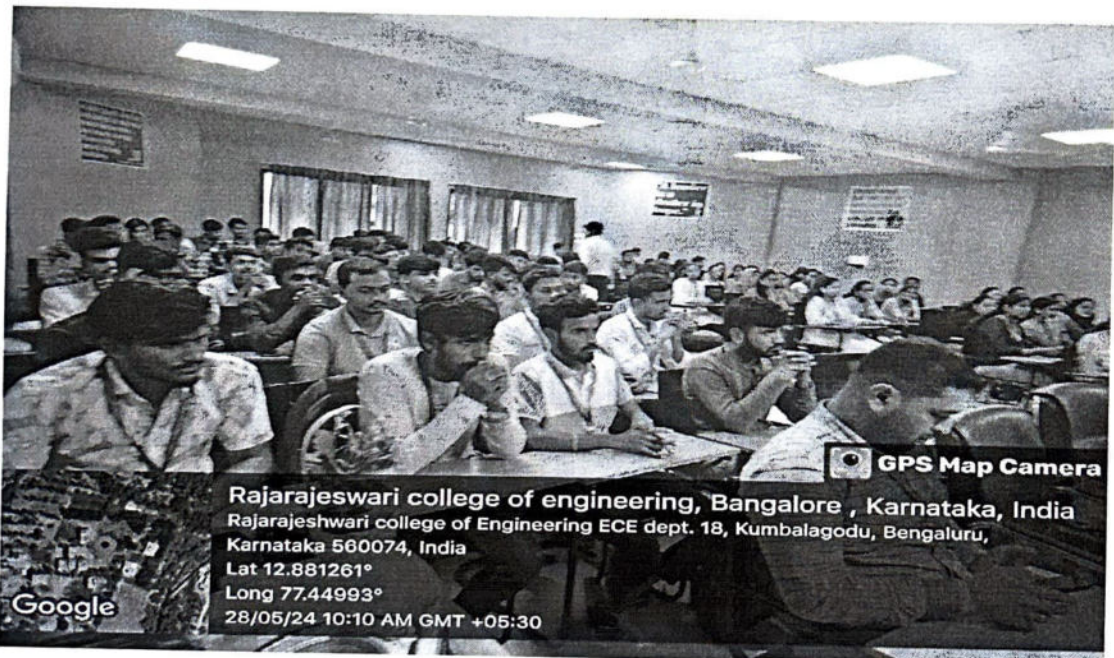
## ELECTRONICS AND COMMUNICATION ENGINEERING



GPS Map Camera

Rajarajeswari college of engineering, Bangalore , Karnataka, India  
Rajarajeshwari college of Engineering ECE dept. 18, Kumbalagodu, Bengaluru,  
Karnataka 560074, India  
Lat 12.881261°  
Long 77.44993°  
28/05/24 10:15 AM GMT +05:30

Google



GPS Map Camera

Rajarajeswari college of engineering, Bangalore , Karnataka, India  
Rajarajeshwari college of Engineering ECE dept. 18, Kumbalagodu, Bengaluru,  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AN AWARENESS SESSION ON “CAREER OPPORTUNITIES ON UPSC, KPSC, IES, RBI AND OTHER COMPETITIVE EXAMS .”

**NAME OF THE DEPARTMENT:** COMPUTER SCIENCE AND ENGINEERING

**1. TYPE OF THE EVENT:**CAREER GUIDANCE AND AWARENESS PROGRAM

**2. RESOURCE PERSON:**

Mrs.Ashasree V S

Corporate Trainer And Coach

Asha Chandra Academy,koramangala,Bangalore.

**3. DATE AND TIME:** 15<sup>TH</sup> FEBRUARY 2024 TIME 10.45 A.M TO 1.15 P.M

**4. FACULTY CO-ORDINATORS:**

Mrs.Hemavathi J

Mr. Sunil A

Mrs.Rashmi B R

**5. NO. OF STUDENTS ATTENDED:** 3<sup>rd</sup> year Students-110 Students

**6. OUTCOME OF THE PROGRAMME:**

Students gained the knowledge and gathered the information on the following:

1. An Awareness on “career opportunities on UPSC,KPSC,IES,RBI and Other Competitive Exams”.
2. Gain the knowledge about How to prepare for the Competitive Exams.
3. Importance of Aptitude solving and logical reasoning in competitive exams and placement preparation
4. Essentials and Fundamentals for preparing IES exams.
5. Preparation tips and Guidance for RBI and Banking Exams





# RajaRajeswari College of Engineering



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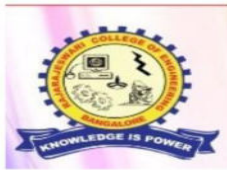
Department of Computer science and Engineering

EVENT POSTER

## RAJARAJESWARI COLLEGE OF ENGINEERING

AFFILIATED TO VTU,BELAGAVI,APPROVED BY AICTE,NEW DELHI & GOVT OF  
KARNATAKA

#14,RAMOHALLI CROSS,MYSORE ROAD,BENGALURU-560074.



Department of Computer Science and Engineering  
Organizing a Seminar On

“Career opportunities in UPSC,KPSC,IES,RBI and  
other competitive exams”

Resource Person

Date: 15/02/2024

Time: 10.45Am to 1.15Pm

Venue: Dennis Ritchie  
Seminar Hall



Mrs. Ashasree V S

Corporate Trainer

Asha Chandra Academy

Organizing Committee

Dr. S Usha, HOD-CSE

Faculty Co-ordinators

Prof. Hemavathi J

Prof. Rashmi B R

Prof. Sunil A

Campus: #14, Ramohalli Cross, Kumbalgotu, Mysore Road, Bengaluru – 560074

Phone:+91-80-28437124 / 28437375

Email Id:

Website: <https://www.rrce.org>



## ABOUT THE RESOURCE PERSON

Mrs. Asha Sree is a Corporate Trainer, Founder cum Director of Asha Chandra Academy for Competitive Exams & Campus Recruitment Training Program, pre-placement training working as a freelancer for Institutions like **M.S Ramaiah Group of Institutions, Jain University**, Sea College, RJS Institute of Management, Surana College, Bengaluru etc..

**Education:** Graduated M.Sc from Kerala University, Kerala

Mrs. Asha is a freelancer has created awareness on various competitive examinations like UPSC, KPSC, IES and RBI related Central Government jobs, financial sector jobs including Banking Examinations.

She is a reputed coach for IAS, IPS examinations. She is one of the lady members of mock interview Panel for IAS interview in Kerala samajam and visiting faculty for many IAS Coaching centers.

Serving as the Trainer for the employees of **Reserve Bank of India** for their promotional exams



## Department of Computer Science and Engineering

### DevHacks 1.0 Hackathon Report 2023

#### Hackathon Overview

**Date of Event:** 07-07-2023 to 08-07-2023

**Venue:** RajaRajeswari College of Engineering Campus, Bangalore.

**Theme of the Event:** Open Theme

#### **Teams and Participations:**

- Total Teams: 32
- Number of Projects Procured: 30
- Number of Participants: 100
- Overall Volunteers: 25

#### **Social Media Reach:**

- Overall Impressions: 19,000 Profiles
- Event Live Stream Viewers: 450
- Total Impressions: 23,000 Profiles

#### **Top 5 Teams:**

- 1) **Bit Lords** – **DRISHTI Project using ML (1<sup>st</sup> PRIZE)**
- 2) **Team Challengers** – **Traffic Management System using ML (2<sup>nd</sup> PRIZE)**
- 3) **Code Crafters** – **NEBULA for Physically Disabled People (3<sup>rd</sup> PRIZE)**
- 4) **Infinity** – **Hand Signs to Text/Speech Conversion**
- 5) **One Piece** – **Medical Hospital Chatbot**



## Department of Computer Science and Engineering

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### Purpose of the Event

The purpose of the hackathon was to bring together brilliant minds and passionate individuals who are dedicated to solving complex problems through creative thinking and coding prowess. By participating in the hackathon, participants had an opportunity to **showcase their skills, network with industry professionals, and gain hands-on experience in a competitive and dynamic environment.**

We believe that the hackathon has served as a catalyst for generating groundbreaking ideas and prototypes that have the potential to transform industries and improve people's lives. To encourage collaboration among participants, fostering a vibrant community where diverse perspectives converge to create innovative solutions that address real-world challenges.

Through this hackathon, we further aim to nurture and empower the next generation of tech leaders, providing them with a platform to unleash their potential and make a tangible impact in the world. **The hackathon was not just about winning; it was about the journey of discovery, learning, and pushing the limits to unlock one's full potential.**

We envision the hackathon as a launchpad for future entrepreneurs, giving them the opportunity to showcase their innovative ideas to potential investors and industry experts. Together, let's embrace the spirit of collaboration, curiosity, and continuous learning, as we embark on this hackathon journey to make a meaningful impact and shape the future of technology.





## Department of Computer Science and Engineering

### Team Details

**Total Colleges Participated: 15 Institutions**

**Total Team Attendance: 30 Teams**

**Total Projects: 30 Projects**

SI No	Team Name	College	Team Members
1	Byte Hogs	DBIT	5
2	Nisarga	KSIT	5
3	LEXIA	PES	4
4	Titan Coding	RRCE	3
5	Smart Crew	RRCE	5
6	Dynamite	RRCE	3
7	SPARTANS	RRCE	5
8	WEB DEV	VIT	3
9	Vivek + Venkatesh	SRM Chennai	3
10	Kumar C	RRCE	1
11	DA Hacks	RRCE	2
12	Blazing Phoenix	MS EC	2
13	SPARTANS	RRCE	4
14	STOICS	NRI	1
15	SAARTHI	KIET	1
16	Mcare	Sambram Institute of Technology	5



# RajaRajeswari College of Engineering



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## Department of Computer Science and Engineering

17	MAVERICKS	KSIT	5
18	ROCKERZ	KSIT	5
19	SP	Sambram College Of Engineering	5
20	CodeCrafters	Sambram College Of Engineering	4
21	Team Pegasus	KSIT	5
22	Manoj P	Pyspiders Basavanagudi	4
23	Team-Ashwathama	RRCE	4
24	TETRIS	KS SCHOOL OF ENGINEERING AND MANAGEMENT	2
25	One Piece	DBIT College	2
26	Team Challengers	Sahyadri college of engineering, Mangalore.	3
27	Nubula	Sahyadri college of engineering, Mangalore	3
28	Innovators	Sambhram institute of technolog	5
29	CodeCrafters	Sambhram institute of technology	5
30	Hells fire club	RRCE	4
32	Infinity	RNS Institute of Technology	2

**Campus:** #14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru – 560074

Phone: +91-80-28437124 / 28437375

Email Id: Website: <https://www.rrce.org>



## Department of Computer Science & Engineering

### Report on Mini Project Expo-24

NAME OF THE DEPARTMENT: Department of Computer Science & Engineering

1. Type of Event : Exhibition
2. Resource Person : Mrs. Vindhya D S,  
IT Analyst  
Tata Consultancy Services
4. Date of the Event : 29<sup>th</sup> February 2024
5. Faculty Coordinators: Sunil.A.,  
Assistant Professor  
Department of CSE  
RajaRajeswari College of Engineering,  
Bengaluru 560074
6. Students attended: 5<sup>th</sup> Semester of Computer Science & Engineering
7. Venue: CSE department Lobby
8. Outcome of the programme:
  - Students demonstrated the mini projects developed using IOT and gained knowledge on project development and project presentation. This helps students to acquire knowledge to convince the crowd technically.
  - Inter department students visited the exhibition and gained knowledge on IOT projects and learnt about various types of sensors used for project development.



# RajaRajeswari College of Engineering



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#14, Ramohalli Cross, Mysore Road, Bengaluru - 560074

## Department of Computer Science & Engineering

### Expo Banner



# RAJARAJESWARI COLLEGE OF ENGINEERING

Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka  
#14, Ramohalli Cross, Mysore Road, Bengaluru – 560 074






**Chief Patron**  
**Dr. A.C. Shanmugam**  
B.A. LLB, FIMSA, FRCPS (Glasgow, UK)  
Founder Chancellor & Chairman  
RajaRajeswari Group of Institutions

*Cordially invites you all for*

## IOT BASED

### MINI PROJECT EXPO - 24



**Co-Patron**  
**Sri. A.C.S Arun Kumar**  
B.Tech (Hons), LMISTE., MIET., (UK), LMCSI.,  
MIEEE, MCSI, MISTE, Ceng (India)  
**President**  
RajaRajeswari Group of Institutions

*Organized by*

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



**Chief Guest**  
**Mrs. Vindhya D S**  
IT Analyst  
Tata Consultancy Services

**Date: 29<sup>th</sup> Feb, 2024 Time : 9.30 A.M. Venue: CSE Dept. Lobby**

**Dr. S. Vijayanand, M.Tech., Ph.D**  
*Executive Director, RRG I*

**Dr. Balakrishna R**  
Principal

**Sri. C.N Seetharam, IAS (Retd.)**  
*Chief Executive Officer, RRG I*

**Dr J Amutharaj**  
Vice - Principal

**Dr. S. Jeyabalan., MBA., Ph.D**  
*Special Officer, RRG I*

**Dr. Usha S**  
Dean R & I, Prof. & HOD, Dept. of CSE

**Mr. Sunil A**  
Co-ordinator





# RajaRajeswari College of Engineering



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#14, Ramohalli Cross, Kumbalگو, Mysore Road, Bengaluru - 560074

Department of Computer Science & Engineering

## EXPO POSTER

**RAJARAJESWARI COLLEGE OF ENGINEERING**  
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
presents

**IOT-BASED  
MINI PROJECT  
EXPO-24**

**JOIN US ON 29TH FEB, 2024**

**CHIEF GUEST**  
  
Mrs Vindhya DS  
IT Analyst TCS

**VENUE :**  
**CSE DEPARTMENT LOBBY**

**Organising Committee**  
Dr Balakrishna R      Dr S Usha  
Principal , RRCE      HOD-CSE,RRCE

**Co-Ordinator**  
Mr Sunil A  
Asst Professor

**IOT - DATA SPEAKS WHERE THINGS CAN'T**



### About the Resource Person

**VINDHYA D S**

#### **Speaker Description**

- She was done her B.E and M.TECH in Visvesvaraya Technological University
- Working as IT analyst in Tata Consultancy Services on SharePoint and Powerplatform.
- Worked as a Project Manager in Nous Infosystem pvt lmt.
- Worked as a Software developer in Abhiyanth Software pvt ltd.

**Speaker Name: VINDHYA D S**

**Speaker Qualification: BE,M.TECH**

**Designation: IT Analyst, TCS**

**Work Experience: 6 years**





### Geotagged Photos of the EXPO





## Department of Computer Science and Engineering

### Report on Caggemini Women Transformation Program Advanced C# .NET Programming (Part 3 - HTML, jQuery & XML Web Services, Part4 - JavaScript, .Net Framework & Testing)

NAME OF THE DEPARTMENT: Department of Computer Science and Engineering

1. Type of Event : Caggemini Women Transformation Program  
Advanced C# .NET Programming  
(Part 3 - HTML, jQuery & XML Web Services,  
Part4 - JavaScript, .Net Framework & Testing)
2. Resource Person : Mohamed Abdul Kader A  
Technical Product Manager, Tiger Holidays
3. Date of the Programme: 03.10.2023 to 18.10.2023 & 15.11.2023 – 29.11.2023
4. Faculty Co-Ordinator : Dr.D.Kirubha  
Associate Professor  
Department of Computer Science and Engineering  
RajaRajeswari College of Engineering  
Bengaluru 560074  
  
Dr.M.Selvi  
Associate Professor  
Department of Computer Science and Engineering  
RajaRajeswari College of Engineering  
Bengaluru 560074
6. Students attended: 7<sup>th</sup> Semester of CSE Girl Students (61)

7. Outcome of the Programmme:

**Students gained information about the following:**

#### **Part 3 - HTML, jQuery & XML Web Services**

- HTML 5
- CSS 3
- HTML 5 advanced
- Interactive Bootstrap Basics
- Interactive jQuery basics
- XML Web Services

#### **Part4 - JavaScript, .Net Framework & Testing**

- JavaScript Basics
- JavaScript Objects
- JavaScript Advanced
- .NET Framework
- AJAX – Technologies
- Testing Methodologist

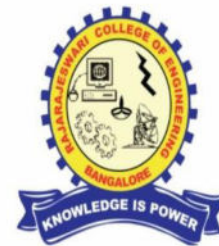




### Banner



# WOMEN TRANSFORMATION PROGRAM



# CENTER OF EXCELLENCE FOR WOMEN EMPOWERMENT





### About the Speaker

## Mohamed Abdul Kader A

mohamed.doozylabs@gmail.com

+91 93846 77007

[linkedin.com/in/mak77007](https://www.linkedin.com/in/mak77007)

### Summary

An enthusiastic and highly motivated individual with nearly 11 years of experience in the design and development of enterprise grade products. Pioneered the development of many next-generation applications for various clients ranging from leading FMCG, Retail, Banking, and E-Commerce.

A rapid learner who can able to learn and comfortable to adopt new technologies quickly. Extensively worked on Android, IOS, Java and C# .Net platforms.

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I have trained more the 400+ professionals of various experiences across the country.

I have trained more the 600+ students from various colleges across the country.

Open to challenges and opportunities.

---

## Experience

### Technical Product Manager

Tiger Holidays

Apr 2022 - Present (1 year)

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Apr 2022 - Present (1 year)

### Senior Technical Trainer

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Jan 2021 - Present (2 years 3 months)

### Lead Engineer

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Lead Engineer working in Healthcare domain, serving for HealthFirst one of the biggest healthcare service provider in New York. Responsible for maintenance and bug fixing of the HealthFirst iOS/



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Jun 2018 - May 2021 (3 years)

GAVel is an next generation AIOps platform that uses, machine learning algorithms to predict and auto resolve incidents in IT Operations.

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Vertisize Solutions

Sep 2017 - Jun 2018 (10 months)

### Senior Software Engineer

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Jan 2016 - Jul 2017 (1 year 7 months)

### Project Engineer

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May 2012 - Jan 2016 (3 years 9 months)

## Education

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2009 - 2012

### Syed Hameetha Arts and Science College, Kilakarai

B.Sc - Information Technology, Information Technology  
Jul 2006 - May 2009

## Licenses & Certifications

Learning Kotlin for Android Development - LinkedIn

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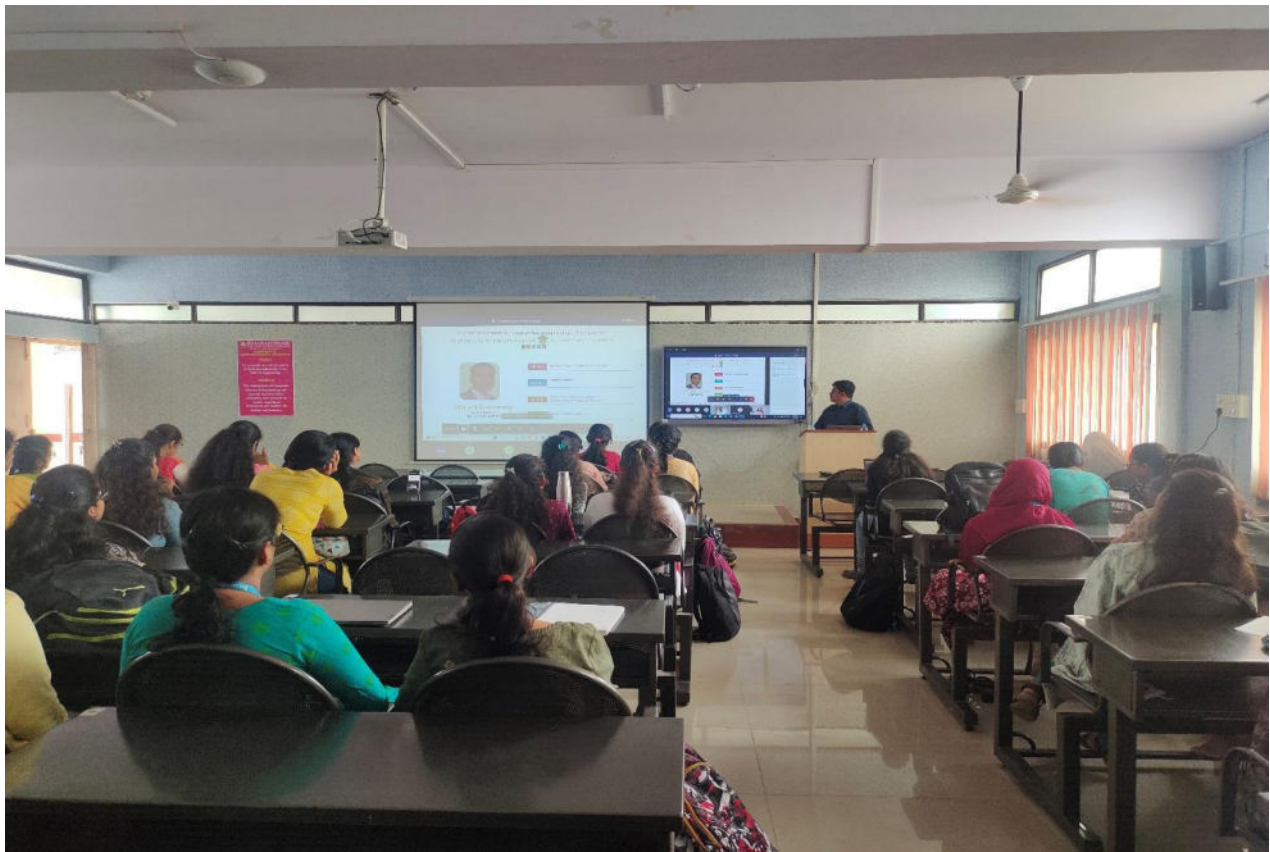
## Skills

Android Development • iOS Development • Technical Training • Spring Boot • Mobile Application Development • Web Application Development • Full-Stack Development • Customer Relationship Management (CRM) • Product Management • Product Development





### Photos of the Training Program





# RajaRajeswari College of Engineering



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#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560074

## Department of Computer Science and Engineering





### Report on Five Days Faculty Development Program on Microsoft Power BI Data Analytics

1. Type of Event : Five Days Faculty Development Program on Microsoft Power BI Data Analytics
2. Resource Person : Ms. Sumathi Jeevanandham,  
IT Trainer – Training and Development, ICT Academy.
3. Date of the Programme: 03.06.2024 to 07.06.2024
4. ICT Academy Overall Co-Ordinator: Dr.S.Usha,  
Professor & Head,  
Department of Computer Science and Engineering,  
RajaRajeswari College of Engineering,  
Bengaluru 560074.
5. ICT - Academy Co-Ordinator: Dr.D.Kirubha  
Associate Professor  
Department of Computer Science and Engineering  
RajaRajeswari College of Engineering  
Bengaluru 560074.
6. Faculties attended: 10 External Participants, 17 Internal Participants
7. Outcome of the programme:

#### **Faculties gained information about the following:**

- \* **Installation of power BI Desktop and SQL Server Express**
- \* **Prepare Data in Power BI Desktop**
- \* **Load data in Power BI Desktop**
- \* **Model Data in Power BI Desktop**
- \* **Create DAX Calculations in Power BI Desktop**
- \* **Design a report in Power BI Desktop**





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Department of Computer Science and Engineering

## Banner



Faculty Development Program on

# MICROSOFT POWER BI DATA ANALYST ASSOCIATE

03 - 07 June 2024







### About the Speaker

Ms. Sumathi Jeevanandham MCA  
IT Trainer – Training and Development  
ICT Academy

- 17 Years of Teaching Experience in various reputed Colleges and Organizations.

#### **Technical Skills**

- Cloud Computing – Azure
- Data Analytics
- Web Technologies – HTML, JS, CSS
- Operating System
- Algorithm Design & Analysis
- Software Engineering
- Internet of things
- Networking
- Database Management System

#### **Certifications**

- Certificate of Microsoft Azure AI 900 by Microsoft
- Certificate of Microsoft Azure AI 102 by Microsoft
- Certificate of Microsoft Azure DP 900 by Microsoft



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## Department of Computer Science and Engineering

### Inaugural Function Photos

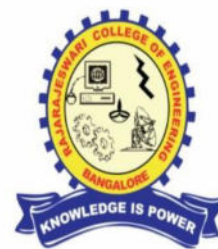




### Banner



# WOMEN TRANSFORMATION PROGRAM



# CENTER OF EXCELLENCE FOR WOMEN EMPOWERMENT







### About the Speaker

## Mohamed Abdul Kader A

mohamed.doozylabs@gmail.com

+91 93846 77007

[linkedin.com/in/mak77007](https://www.linkedin.com/in/mak77007)

### Summary

An enthusiastic and highly motivated individual with nearly 11 years of experience in the design and development of enterprise grade products. Pioneered the development of many next-generation applications for various clients ranging from leading FMCG, Retail, Banking, and E-Commerce.

A rapid learner who can able to learn and comfortable to adopt new technologies quickly. Extensively worked on Android, IOS, Java and C# .Net platforms.

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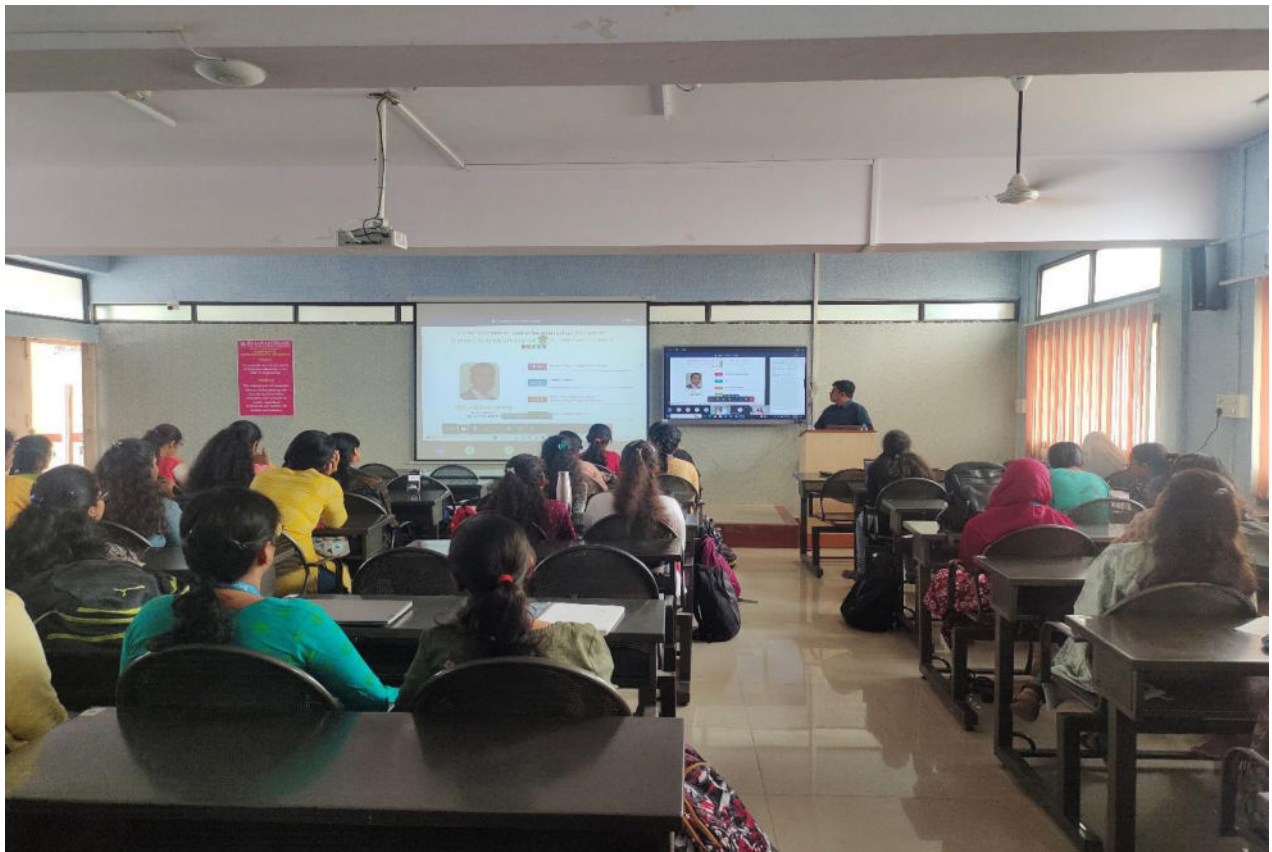
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### Photos of the Training Program







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## Department of Computer Science & Engineering

### Introduction to Python Programming Student Development Program

- Event Date: 17<sup>th</sup>, 18<sup>th</sup> and 19<sup>th</sup> AUG 2023
- Venue: Dennis Ritche Seminar Hall, RRCE, Bengaluru.
- Mode of Event: Intra College level
- Target Participants: UG first year CSE( IOT) students are invited to participate.
- Outcome of the Event:

The event started with the formal Inaugural function at 10.00a.m in Dennis Ritche Seminar Hall. On the dais Our resource person Mrs.Roopa Mahadev,CEO, Accurate Info-Solution- BENGALURU, Dr.Balakrishna R, Principal, RRCE, Dr. J Amutharaj, Vice Principal, Dr Usha Saktivel, Research Dean and HOD CSE, RRCE, , Dr.K S Krishna Kumar,HOD Physics, were present. The function started with Invocation Song by Mr.Likhith Raghav, followed by the welcome speech given by Ms.Rakshitha V of 2<sup>rd</sup> Semester CSE(IOT and cyber security including BlockChain Technology). Inspiring speech regarding the future opportunities for engineering students was given by Dr.Balakrishna R,Principal,RRCE, and also encouraged the students to utilize the opportunities provided by the college. Vote of thanks was given by the student coordinator Ms.Yashashsini L.

Three days student development program has been conducted successfully and all the students received an opportunity to learn hands on Python programming language.

The student development program 'Introduction to Python Programming' was finally ended by thanking Management, Principal, Dean, HoD, Faculties, Non-teaching staff, and all student coordinators who worked for this event to make this event a grand success.





# Rajarajeswari College of Engineering

Affiliated to VTU, Belgavi. Approved by AICTE, New Delhi & Govt. of Karnataka. Reaccredited by NAAC with 'A+' Grade, ISO 9001:2015 certified. Accredited by HLA CT, Texas, USA (Internationally) and by NBA (CSE, ECE)



Department of Computer Science and Engineering and Physics

Student Development Program on

## Python Programming and its Applications

Conducting on 17th and 18th of August 2023



Resource Person:

**Mrs. Roopa Mahadev**

**CEO, Accurate Info-Solution**

Faculty Co-ordinators:

Prof. Deepa Konnur

Prof. Vaishali R. Bote

Dr. Jobish Johns

Dr. Usha.S  
HOD CSE & Dean R&R

Dr. K.S. Krishna Kumar  
HOD Physics

Dr. J. Amutharaj  
Vice Principal

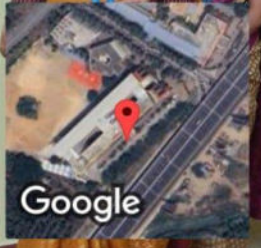
Dr. R. Balakrishna  
Principal



Admissions Opens for 2023-24

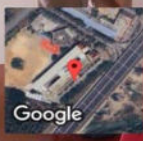
CET CODE: E145 / COMED-K: E099 / PGCET: T858

Contact Number: +91-80-28437375



**Bengaluru, Karnataka, India**  
 Rajajeswari College Of Engineering College Block, Rajajeswari College Of  
 Engineering, Bengaluru, Karnataka 560074, India  
 Lat 12.886471°  
 Long 77.450116°  
 17/08/23 10:06 ಪೂರ್ವಾಹ್ನ GMT +05:30

GPS Map Camera



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## Department of Computer Science & Engineering

### Report on Five Days SDP on “AngularJS and NodeJS”

NAME OF THE DEPARTMENT: Department of Computer Science & Engineering

1. Type of Event : SDP on AngularJS and NodeJS
2. Resource Person : Mr. Nishanth Hipparagi,  
Product Manager  
Webok Solutions
4. Date of the Event : 08<sup>th</sup> to 12<sup>th</sup> Jan 2024
5. Faculty Coordinators : Sunil.A.,  
Assistant Professor  
Department of CSE  
RajaRajeswari College of Engineering,  
Bengaluru 560074  
  
Rashmi.B.R  
Assistant Professor  
Department of CSE  
RajaRajeswari College of Engineering  
Bengaluru 560074  
  
M.Supraja.  
Assistant Professor  
Department of CSE  
RajaRajeswari College of Engineering  
Bengaluru 560074

6. Students attended: 5<sup>th</sup> Semester of Computer Science & Engineering

7. Venue: APJ Abdul Kalam Conference Hall

8. Outcome of the programme:

Students gained information about the following:

- a. Gain the knowledge about Java Script.
- b. Gain knowledge about Advanced Java Programming
- c. Worked on the programs as per VTU 5<sup>th</sup>Sem Syllabus..
- d. Skills development in Writing a programme using Java Script.
- e. Practical implementation of Core and Advanced Java Programming concepts.



**RAJARAJESWARI COLLEGE OF ENGINEERING**

**#14, Ramohalli Cross, Kumbalgodu, Bangalore -74.**

Ph. No: 080-28437124, 28437375 Fax: 080-28437373

Department of Computer Science & Engineering

(Accredited by NBA, NAAC)



~INVITATION~

*Chief Patrons:*

**Sri. A.C. Shanmugam**

(Chairman, RR Group of Institutions)

**Sri. A.C. S. Arunkumar**

(Vice Chairman, RR Group of Institutions)

*Patrons:*

**Dr. S. Vijayanand**

(Executive Director, RR Group of Institutions)

**Dr. S. Jeyabalan**

(Special Officer, RR Group of Institutions)

*CO-Patrons:*

**Dr. A.K.Mariappan,**

(Rector, RR Group of Institutions)

**Dr. R. Balakrishna**

(Principal, RRCE)

*Organizing Secretary:*

**Dr. S Usha**

(Prof. & HOD-CSE)

*SDP Coordinators:*

**Sunil A, Asst. Prof, Dept of CSE**

**Rashmi B R, Asst. Prof, Dept of CSE**

**Supraja M, Asst. Prof, Dept of CSE**

*Invitation  
for  
Five Days*

*Student Development  
Program*

*On*

*“AngularJS and NodeJS”*

**(8/01/2024)**

**Venue: APJ ABDUL KALAM HALL**

**Time: 09:00 AM**





## Department of Computer Science & Engineering

### About the Speaker

#### *NISHANT HIPPARAGI*

#### Speaker Description

- He was done his B.E in Visvesvaraya Technological University
- Working as Education Consultant & Student Mentor in BLDEA's College of Engineering from 2019 to Present.
- Working as Product Manager in Webok Solutions from 2019- Present
- Worked as a Project Manager in Wipro From 2021 to 2022
- Worked as Program Analyst Trainee in Cognizant Technology Solutions from 2020 to 2021.
- Trained Students in Aptitude, problem solving and DSA
- 4 Years industry experience
- Work history back ground:
- As a program analyst Trainee, He used to take Java full stack development, Web design and database design and developed a vehicle management system.

**Speaker Name:** *NISHANT HIPPARAGI*

**Speaker Qualification:** BE

**Designation:** Product Manager, Webok Solutions

**Work Experience:** 4 years



## Department of Computer Science & Engineering

### Geotagged Photos of the SDP

Guests are on the dais





## Department of Computer Science and Engineering

### Report on Trigger 2K24

NAME OF THE DEPARTMENT: Department of Computer science and Engineering

1. Type of Event : Trigger 2K24
2. Resource Person : Mrs. Amutha Kandaswamy,  
Senior Professional Application Delivery Manager, HP  
Bengaluru.
4. Date of the Programme: Thursday, 9<sup>th</sup> May 2024
5. Faculty Co-Ordinator: Mrs. Priyanka V. Gudada,  
Assistant Professor,  
Department of CSE  
RajaRajeswari College of Engineering  
Bengaluru 560074
6. Students attended: Presidency university, RVCE, DBIT, BMSCE, CANARA Engineering college  
Mangalore, SJBIT, T John Institute of Technology, AMC, ACS, RRMCH, RRDCH, RRCE, etc.,
7. Outcome of the Programme:
  - The symposium included many of the technical events participated by good number of students.
  - This helped the students to show their strength in technical Events: Debugging, Project, Paper Presentation, Mock-Interview, Web Page Creation & Technical Quiz.
  - The nontechnical events such as Treasure hunt, Super Minute, Volley ball, Games were challenging to students and created lot of vibrancies.
  - This event is organized, participated and planned by the students and they got to learn lot of organizing, fund generation, accounts, event coordination etc.
  - The students exhibited their talent. This is added colors to the whole event.
  - These types of activities keep the students active, encouraged, and confident

Students gained information about the following:

1. About general topics to participate Quiz Event.
2. About how to present the papers like presentation skill and improved confidence level
3. Case study about web development.
4. Skills set to be required to participate for code buzz
5. Entertainment and innovative activities.





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Department of Computer Science and Engineering

## RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramohalli cross, Kumbalagodu, Bangalore -74



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

presents

WIN EXCITING GASHPRIZES

NATIONAL LEVEL TECHNICAL SYMPOSIUM

# ತಾರಾಗೋಷ್ಠಿ ಸಂಶಯ

STUDENT COORDINATORS:

RAHUL DUBASHI - 92412 46486  
 QURRATH UL ALEN - 9620073250  
 BINETTA P BIJU - 9986125424

CONVENER :

DR. S. USHA, HOD, CSE

PRINCIPAL:

DR.R.BALAKRISHNA

FACULTY COORDINATORS :

MRS. PRIYANKA V GUDADA  
 MR. RAJKUMAR, DEPT OF CSE

DATE: 9TH MAY, 9:00AM-4:00PM VENUE: RRCE, 5TH FLOOR





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## Department of Computer Science and Engineering



# RAJARAJESWARI COLLEGE OF ENGINEERING

#14, Ramohalli Cross, Kumbalgodu, Mysore Road, Bengaluru - 560 074.



## Department of Computer Science & Engineering

*Cordially Invites*

### “National –Level Technical Symposium –Trigger-2K24”



**Chief Patron**

**Dr. A.C. Shanmugam**

*B.A. LLB, FIMSA, FRCPS (Glasgow, UK)*

**Founder Chancellor & Chairman**  
RajaRajeswari Group of Institutions



**Co-Patron**

**Sri. A.C.S Arun Kumar**

*B.Tech (Hons), LMISTE., MIET.,(UK), LMCSI.,*

**President**

RajaRajeswari Group of Institutions



**Resource Person**

**Ms. Nandini**

Innova Solutions, Bengaluru

**Date:** May 9<sup>th</sup> 2024 , Friday at 9:30AM

**Venue:** Dr. A P J Abdul Kalam Conference Hall

**Dr. S. Vijayanand**, M.Tech., Ph.D  
*Executive Director, RRG*

**Sri. C.N Seetharam**, IAS (Retd.)  
*Chief Executive Officer, RRG*

**Prof. Dr.S.Jeyabalan.**, M.E., MBA, Ph.D  
*Special Officer, RRG*

**Dr.R.Balakrishna**  
*Principal*

**Dr.J.Amutharaj**  
*Vice Principal - RRCE*

**Dr. S Usha**  
*HoD-CSE - RRCE*

**Student Co-ordinators:**

Rahul P Dubashi, Qurrath Ul Alen & Binetta P Biju

**Faculty Co-ordinators:**

Mrs.Priyanka V.Gudada  
Mr.V M Saravana Perumal

### Photos of the Event



Guests are on the dais



Lightning the lamp during the programme



S. No	Authors Name	Paper Title
1	A Sunil ,Lakshmi M Gowda,MH.Sathwik.Gowda,Prajwal N B	Affordable Cloud Server Supply for Storage And Access
2	D Kiruba,Deekshitha S,Spoorthi B S,Netra	Suspicious Activity Recognition Implementing Deep Learning Approach
3	S. Usha Darshini.HN Rifa Khanum Keerthana.G	SMART OBSTACLE AVOIDANCE WITH IOT- ENABLED ROBOT
4	D.Kirubha ,Bhoomika HK,Binetta P Biju,Divya J	PREDICTING PCOS : A2 MACHINE LEARNING APPROACH
5	V M Saravana Perumal ,Bhavya DS,Brunda Y,Harshitha v	Neonatal cardiac Monitoring for Early Intervention of Newborn Babies
6	S Usha ,Qurrath ul aien,Manasa G,Rakesh M B	Image Stenography: Advances through Dual Encryption Mechanism
7	O Josna,Harshitha V,Karuna M,Dhanushree S	VIRTUAL TRAFFIC POLICE
8	Abubhhakkar Sithiq , G Sasi Preetham , Thrisha Patil	Access control system using RFID with remote monitoring and remote access
9	M. Karuppasamy, A R Sarankumar, K Lakshmi and Kusuma M G	Sonic Insights AI-Powered Bowel Sounds Analysis for Stress Identification
10	Usha S ,Rohitjey BV ,Vikram K ,Shubam Sambyal	Real-Time Attendance System Using Alexa
11	Manasa G V Kumar ,Aishwarya K,Chandrika C,Jyothika S	DETECTION OF LUNG CANCER: A MACHINE LEARNING APPROACH
12	Rajkumar R ,Manasa T, Manjari T,Yamini G	Revolutionizing waste management: Deep learning for sewage classification
13	Kamalraj T, Shaurya KV,Swamy R,Mulinti Abhilash Reddy	IOT BASED SENSOR MODULE FOR RESPIRATORY SYSTEM.
14	Rashmi B R , Vishwas GM,Suprith R,Dheeraj R	DIABETIC RETINOPATHY INSIGHT: AN A.I-POWERED TELEOPHTHALMOLOGY SOLUTION
15	Selvi M,Kavana Ram S,Meghana M Poojari,Vishrutha K S	Monitoring Healthcare Using AI And IoT
16	T Auntin Jose,Shravya M S,Tejaswini S,Sreerama Geethanjali	ALZHEIMER DETECTION USING DEEP LEARNING
17	Mr. Sunil A ,Kavya B,Pravalika N,O A Jahnavi	SKIN CANCER DETECTION: DEEP LEARNING APPROACH
18	Deepa Konnur ,RAJ RANJAN,Patra Chinmay Mochiram,RAJ ARYAN JASROTIA	Stock Price Prediction Sentiment Analysis
19	Dr. Sivakumar D,Zeba Anjum,VARSHINI YC,Meharuk Jabeen	IoT-based Railway Track Faults Detection System
20	Prof. Auntin Jose,Varsha TN,Shraddha,Siddaveer Swamy	Intrusion Detection Model for IoT-Enabled Smart Home using ML
21	Prof. Sagar DC.MADHAN R,MOHAN D,NANDAN P	PCB Defect Detection System
22	Shashidhar V,ADI REDDY ,Sonashree C,Smita Rani	A Novel Social Behavioral Biometric for a person Identification
23	R Balakrishna,Shilpa S,Ramya S P,Lekhana NG	Advance Support for Autonomous Vehicles using YOLOv8

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# Affordable Cloud Server Supply for Storage and Access

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**ABSTRACT:** As more enterprises and organizations migrate their data to the cloud to streamline IT maintenance costs and improve data reliability, they encounter a dilemma due to the multitude of cloud vendors and their varied pricing structures. This complexity often leaves customers uncertain about which cloud provider(s) best suit their data storage needs and which hosting strategy offers the most cost-effective solution. Typically, customers opt to store their data with a single cloud provider, exposing themselves to the risk of vendor lock-in. To address these challenge, paper presents a data hosting that integrates two crucial functionalities. Firstly, it involves selecting multiple suitable cloud providers and implementing an optimal strategy to store data at minimal monetary cost while ensuring availability. Secondly, it includes a transition mechanism to dynamically redistribute data based on changes in access pattern and cloud pricing. The paper formally defines data in multi- cloud storage system, identifies potential violations, and introduce a methods to maintain data consistent within these systems. Implementation and experimentation demonstrate that the propose methods can uphold data consistent acceptable delays in data uploading, and it exhibits scalability concerning the cloud utilized and the user base. Integrates the methods into cloud storage system promises enhanced usability and reliability, addressing the challenges posed by diverse cloud environments.

**KEYWORDS:** Cost-effective cloud server provisioning, data hosting, multi-cloud storage, redundancy strategy, data consistency, cloud vendor selection, data access pattern, pricing optimization, data reliability, IT maintenance cost.

## I. INTRODUCTION

Image inpainting is a method for repairing damaged pictures or removing unnecessary elements from pictures. It recovers the missing or corrupted parts of an image so that the reconstructed image looks natural. In real world, many people need a system to recover damaged photographs, designs, drawings, artworks etc. damage may be due to various reasons like scratches, overlaid text or Sgraphics etc.

This system could enhance and return a good looking photograph using a technique called image inpainting. Image inpainting modify and fill the missing area in an image in an undetectable way, by an observer not familiar with the original image. The technique can be used to reconstruct image damage due to dirt, scratches, overlaid text etc.

Some images contain mixed text-picture-graphic regions in which text characters are printed in an image. Detecting and recognizing these characters can be very important, and removing these is important in the context of removing indirect advertisements, and for aesthetic reasons. There are many applications of image inpainting ranging from restoration of photographs, films, removal of occlusions such as text, subtitle, logos, stamps, scratches, red eye removal etc.

Paper is organized as follows. Section II describes automatic text detection using morphological operations, connected component analysis and set of selection or rejection criteria. The flow diagram represents the step of the algorithm. After detection of text, how text region is filled using an Inpainting technique that is given in Section III. Section IV presents experimental results showing results of images tested. Finally, Section V presents conclusion.





## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

# Suspicious Activity Recognize Implementing Deep Learning Approach

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**ABSTRACT:** The widget now has video and deep learning capabilities. Using the aforementioned combinations, the area has remarkable methods for distinguishing various suspicious behaviors from live photo surveillance. Human behavior is the most unpredictable, and it is quite difficult to tell whether it is suspicious or normal. In this article, we classified human activities into two categories: normal and suspicious. Common activities include sitting, walking, jogging, and waving. Running, boxing, and fighting are all examples of suspicious activities. We use convolutional neural networks to perform this classification. First, sophisticated picture features are extracted using a convolutional neural network. Convolutional network classification is assessed, and the aggregate layer's final result is extracted before making the final prediction.

**KEYWORDS:** suspicious activity, deep learning, and convolutional neural networks.

### I. INTRODUCTION

In today's environment, we can see that crime has increased despite the presence of cameras everywhere. To detect suspicious activity, a model must be created that decreases.

In this situation, the surveillance camera is in the time it takes to notice it and take action in the form of film. The most efficient technique to handle the video is to split it into images and then edit them [1], [2]. There are numerous machine learning methodologies available today for image processing, but as the dataset grows larger, the accuracy drops, thus we turned to deep learning algorithms.

Automated video monitoring can assist avoid violence caused by overcrowding and fighting in public facilities such as parking lots, jails, military bases, mosques, borders, and public transit stops. each other, and those carrying weapons capable of causing harm to others, such as bombs, robbery, vandalism, and so on [3], [4].

Video surveillance is an essential component of improving the security of banks and ATMs [5], [6]. The deployment of autonomous security cameras in banks will help avoid armed robberies and heists. ATMs are a popular target for robbers, and autonomous surveillance cameras could help to strengthen their security [7], [8].

Surveillance cameras may aid in the detection of disruptive behavior among students on campus, such as bullying and fighting [9, 10]. They can also help improve the camera's anti-theft capabilities.

Safety cameras are increasingly being used in small businesses, factories, and shopping centers [12], [13]. They're used to apprehend shoplifters and robbers, as well as to keep armed robberies at bay [14], [15]. Security cameras are also used to track supplies and inventory held in warehouses and to detect employee bribery and theft [16], [17].

Platforms, routes, roads, tunnels, and parking lots are all monitored by security cameras in railways and bus stations. Terrorists may use these areas as a staging ground for explosive attacks by leaving a bag containing explosives [4], [18].



## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

# Smart Obstacle Avoidance with IOT-Enabled Robot

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**ABSTRACT:** The rapid advancement in robotics technology has spurred the advancement of autonomous systems capable of navigating complex environments. This paper presents the design, development, and implementation of an obstacle-avoiding robot using Arduino microcontroller. The primary objective is to create an intelligent robotic system capable of autonomously avoiding obstacles in real-time. The robot is equipped with ultrasonic sensors to detect obstacles in its proximity, and an Arduino microcontroller processes the sensor data to make real-time decisions for navigation. The control algorithm employs a simple yet effective obstacle avoidance strategy, allowing the robot to adapt to dynamic environments. The hardware integration includes motor control using a motor driver module to facilitate precise movement. The software implementation involves programming the Arduino using the Arduino IDE to execute the obstacle avoidance algorithm. Experimental results demonstrate the robot's ability to navigate through an array of environments while effectively avoiding obstacles.

**KEYWORDS:** Obstacle-Avoiding, Arduino, Ultrasonic Sensor, Algorithm.

## I. INTRODUCTION

This concise abstract provides a brief overview of an obstacle-avoiding robot built using Arduino. It highlights the key components, functionality, and potential by leveraging Arduino's versatility and Obstacle-avoiding robots are often used in various applications, including educational projects, prototyping, and as a basis for more complex robotic systems. Interfacing DC motors with Arduino using the L293D DC motor driver is a straightforward process. The L298 serves as a DC motor driver, facilitating the rotation of motors in clockwise or counter clockwise directions. Its functionality extends to maneuvering the robot to the right, left, reverse, or straight directions. This component presents an excellent choice for driving multiple motors via Arduino, finding applications in projects like four-wheeled robots. The ultrasonic sensor functions as a distance measurement tool, employing ultrasonic waves for distance calculation. Specifically, the HC-SR04 ultrasonic sensor consists of both a transmitter and a receiver for ultrasonic waves. It gauges distance by measuring the reflection time of ultrasonic waves from the transmitter to the receiver.

### a. OBSTACLE AVOIDANCE

In our pursuit of achieving obstacle avoidance within the system, a critical component employed is the Ultrasonic distance sensors seamlessly integrated into the architecture. This sensor serves as the eyes of the robotic system, facilitating the detection of obstacles within its vicinity through the utilization of sonar technology. The intricate setup involves the Ultrasonic distance sensor being meticulously connected to the L298D motor shield, this subsequently led to interfaces with the Arduino UNO, orchestrating a synchronized and responsive obstacle avoidance mechanism. Functionally, the Ultrasonic distance sensor operates on the principle of non-contact ultrasound sonar to precisely gauge the gap among the robot and potential obstacles in its path. Comprising two transmitters, a sophisticated control circuit, and a receiver, the sensor emits high-frequency ultrasonic waves in to the environment. Upon encountering an obstacle, these waves bounce back and are detected by the receiver, allowing the system to calculate the distance determined by the duration of the signal to travel to the obstacle and back.

This dynamic technology ensures that the robot can intelligently perceive and respond to its surroundings, avoiding collisions by constantly evaluating the distances between itself and potential obstacles. The adaptability of the system resides within the Coding algorithm, where the user can fine-tune the parameters to customize the detection distance according to specific operational requirements. The versatility of this Ultrasonic distance sensor not only contributes to effective obstacle avoidance but also lays the foundation for a broad spectrum of uses in robotics, where precise distance measurements are paramount for safe and autonomous navigation.



# Predicting PCOS : A Machine Learning Approach

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**ABSTRACT:** Polycystic Ovary Syndrome (PCOS) is a widespread endocrine condition that affects women of reproductive age, characterized by hormonal imbalance and ovarian dysfunction. Early detection and accurate identification of PCOS are paramount for effective management and prevention of complications. In this proposal, we put forward a machine learning-based approach utilizing relevant clinical and demographic data to predict PCOS. The dataset includes features such as age, body mass index (BMI), hormonal levels (e.g., testosterone, luteinizing hormone), menstrual irregularities, and other parameter that are linked with PCOS. Gaussian Naive Bayes (GNB) algorithm is employed as the main algorithm, with feature selection performed using Chi-Square. The data is partitioned, and data visualizations including pie charts, count plots, scatter plots, lm plots, and histograms are utilized to explore correlations. Metrics for performance such as accuracy score, precision score, and recall score are assessed. Additionally, confusion matrices are generated to evaluate model performance. Our findings demonstrate the potential of the GNB algorithm in predicting PCOS with high accuracy and reliability. The developed models can aid healthcare practitioners in early identification of individuals at risk of PCOS, enabling timely interventions and personalized treatment strategies. Furthermore, findings obtained from this study contribute to a better understanding of the complex etiology of PCOS and guide future research in this domain.

**KEYWORDS:** Polycystic Ovary Syndrome (PCOS), Machine Learning, Predictive Modeling, Clinical Data Analysis, Feature Selection, Hormonal Imbalance, Feature Importance.

## I. INTRODUCTION

Polycystic Ovary Syndrome (PCOS) persists as a widespread and intricate medical condition, exerting significant impacts on the health and well-being of women during their reproductive years. Characterized by hormonal imbalances and disruptions in ovarian function, PCOS poses various challenges, from fertility issues to metabolic disturbances. Timely detection and accurate diagnosis are crucial in effectively managing PCOS and mitigating potential complications, highlighting the urgent need for innovative predictive approaches..

In response to this imperative, our study endeavors to harness the transformative potential of ML in predicting PCOS using a diverse range of health-related and demographic data. Recognizing that traditional diagnostic methods can be time-consuming and costly for both patients and healthcare providers, we aim to develop more efficient and effective predictive tools.

Central to our approach is the utilization of advanced ML algorithm, with GNB emerging as the mainstay of our predictive model. We employ a novel feature selection technique, dubbed CS-PCOS, which leverages the optimized chi-squared mechanism to identify the most salient predictors of PCOS from the dataset. By focusing on key features such as age, BMI (weight), hormonal levels, and menstrual irregularities, our model aims to distill complex clinical detail into awareness for early PCOS detection.

Furthermore, our study delves into the exploration of underlying data patterns through a comprehensive PCOS exploratory data analysis (PEDA). Through visualizations such as pie charts, count plots, scatter plots, and histograms, we seek to elucidate the intricate interplay of variables contributing to the manifestation of PCOS, thereby enhancing our awareness of the disease process.

# Neonatal Cardiac Monitoring for Early Intervention of New Born Babies

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**ABSTRACT:** Improving the accuracy of diagnostic tool detecting Early cardiac arrest in newborn babies. This includes the utilization of imaging techniques like echocardiography and computed tomography, alongside advancing the creation of a Cardiac Machine Learning model (CMLM) using statistical methods. The CMLM utilizes physiological parameters to predict cardiac arrest events in newborns within the Cardiac Intensive Care Unit (CICU). In training comparisons, the proposed CMLA achieved high performance metrics, including delta-p value of 0.912, False Discovery Rate (FDR) of 0.894, False Omission Rate (FOR) of 0.076, prevalence threshold value of 0.859, and CSI value of 0.842. Similarly, in testing comparisons, the CMLA showed promising results with a delta-p value of 0.896, FDR of 0.878, FOR of 0.061, prevalence threshold value of 0.844, and CSI value of 0.827. Executing The plan this framework in the CICU is expected to significantly reduce mortality and the morbidity linked to cardiac arrest in significant inn newborns by enabling early recognition and intervention.

## I. INTRODUCTION

Cardiac arrest occurring in newborn babies is a condition requiring early detection for optimal care and long-term health understanding associated signs and symptoms, and risk factors is vital common signs, unresponsiveness, or decreased movement, Factors increasing the risk comprise low birth weight family history, preterm birth, difficult delivery, or maternal high blood pressure.

Early detection involves regular monitoring of heart and respiratory rates using pulse oximetry or auscultation. Statistical models like Logistic Regression, Naive Bayes, and Support Vector Machines aid in early detection. These models analyse factors such as birth weight, gestational age, and gender to predict the likelihood of cardiac arrest. Machine learning further enhances early detection by analysing complex data like vital signs, allowing for timely intervention. By detecting subtle changes, high-risk babies can be identified, reducing mortality rates and improving outcomes. The proposed research automates critical sign detection, identifies subtle changes indicating cardiac arrest, and recognizes high-risk babies. Early detection enables timely interventions, reducing time and cost associated with traditional methods and improving patient outcomes. The manuscript discusses earlier works, proposes a model, provides analytical discussion, comparative analysis, results, conclusion, and future scope. I've condensed the content while retaining the key points about the importance of early detection models and machine learning. Let me know if there's anything else you need!

## II. RELATED WORK

The excerpt you provided outlines various research works and primary concerns linked to early detection in case of cardiac arrest newborn babies, utilizing machine learning techniques. Here's a summary:

1. Key Issues Identified:

1. Complexity of Data: Machine learning models must accurately interpret large and complex datasets to detect cardiac arrest in newborns.

2. Data Availability: Adequate data availability is crucial for creating accurate predictive models.



## International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

# Image Stenography: Advances through Dual Encryption Mechanism

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**ABSTRACT:** The Enhanced LSB replacement algo is a steganographic method employed to hide secret information within an image. This technique operates spatial of all domains, where slight alterations are made to the pixels of the original image in helping to embedding to covert data. Unlike traditional LSB techniques, the Enhanced LSB replacement algorithm introduces a clandestine key to shuffle the positions in given image pixels. This added layer of complexity makes it more challenging for unauthorized parties to detect the hidden information, as the changes made to the cover image become less predictable. Additionally, this algorithm integrates error-correcting codes to bolster the resilience of data that is embedded against potential distortions during transmission or compression processes. Experimental findings show us the used algo outperforms conventional LSB methods, offering increased embedding capacity and heightened security. The Enhanced LSB replacement algorithm helps out in many forms of applications, including secure communication and digital watermarking.

**KEYWORDS:** Information hiding, Audio steganography, Image steganography, Video steganography.

### I. INTRODUCTION

With the increasing prevalence of internet usage, securing the information that is passed on through internet has become important. Various methods exist to transform data into different forms, with encryption being a commonly used technique. However, encryption has a notable drawback: it doesn't conceal the presence of the data, and given enough time, encrypted data can be decrypted. To address this, steganography, hiding sensitive information within seemingly innocuous media, provides a solution.

In this context, a new data masking system is proposed, leveraging multiple image masking techniques and algorithms. This system stores data within a container image, offering increased security while minimizing memory consumption. Steganography, particularly the LSB (Least Significant Bit) algorithm, is often employed for this purpose. In LSB substitution, the lowest-order bits of digital media are replaced with hidden message bits. However, the conventional LSB substitution method has limitations such as low throughput, weak robustness, and compromised visual quality.

Due to these drawbacks, an enhanced version of the LSB substitution technique is introduced. Operating in space domain, this method directly modifies in cover image, its pixels to accommodate the hidden info. The Extended LSB Substitution Algorithm involves dividing the cover image into non-overlapping blocks, averaging the LSBs of pixels within each block to determine the max of message bits hidden be encoded, and embedding the message accordingly. By combining modified blocks, the original stegoimage is reconstructed.

The improvised algorithm along with enhancing embedding capacity but also improves resistance to attacks such as noise addition and filtering, while maintaining visual quality.





## International Journal of Multidisciplinary Research in Science, Engineering and Technology (IJMRSET)

(A Monthly, Peer Reviewed, Refereed, Scholarly Indexed, Open Access Journal)

# Virtual Traffic Police

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**ABSTRACT:** This article explores the enhancement of traffic law enforcement through utilization of augmented reality and deep learning techniques, specifically centering on the implementation of YOLOv3 for detecting violations like signal jumping, speeding, and traffic volume monitoring. The goal is to reduce traffic offenses and enhance road safety by accurately identifying and penalizing offenders. It covers the fundamentals of traffic violation detection, including image representation and the YOLOv3 algorithm, along with concrete instructions for architecture and implementation. The article emphasizes the significance of computer vision technology in overseeing and enforcing traffic regulations, showcasing its ability to detect multiple violations concurrently with great accuracy. Simulation and analysis results illustrate the effectiveness of the architecture in identifying issues such as signal irregularities, offering comprehensive insights into the detection procedure and resulting data. In summary, this piece underscores how AI and deep learning can advance traffic management and promote road safety.

**KEYWORDS:** Convolutional neural networks, traffic violation, YOLOV3.

### I. INTRODUCTION

As the vehicles increases on roads the calming of the traffic also increases. These systems are essential for calming the traffic in identifying and fining people who do not follow the instructions. In previous years, traffic violations were typically detected by police stationed at intersections, nonetheless, this step has been shown inefficient and time-consuming, especially during periods of heavy traffic. To address these challenges, the hypothesis of traffic analysis and enforcement using computer vision technology has emerged. Computer vision involves using intelligent algorithms to interpret visual data from images and videos. By employing computer vision algorithms, traffic violation detection systems can analyze video feeds from road cameras to identify and sanction drivers for infractions such as speeding or illegal crossing. Computer vision offers scalability and cost-effectiveness compared to traditional methods. These systems can work without any break with less man oversight, reducing operational expenses and improving efficiency. Moreover, this is deployed in various locations such as urban areas and highways, providing comprehensive surveillance and enforcement services. In summary, using manmade thinking tech for traffic management purposes leverages artificial intelligence and image processing to efficiently address traffic-related challenges and enhance overall road safety. The adoption of manmade thinking can completely upgrade the traffic management and upgrade traffic calming for all people.

### II. LITERATURE SURVEY

G. Sasikala et al. [3] introduced a system based on RF transmitter and receiver to enhance helmet features and provide additional protection during accidents. However, this approach may lead to an increase in helmet costs and does not provide a solution to mandate helmet usage for all riders and non-riders.. Narong Boonsirisumpun et al. [4] proposed a system using a CNN to classify helmets and motorcycles. However, CNN's performance is limited by training samples, making it prone to false recognition, especially if individuals wear different types of helmets or cover their faces. Liang-Bi Chen et al. [5] suggested a system employing IR sensors in an intelligent helmet for detecting nearby heavy vehicles and alerting riders to potential dangers. This system uses a helmet-mounted camera to identify approaching heavy vehicles. Mario Andres Varon Forero et al. [6] developed a project using CNN and background subtraction to highlight



# Access Control System Using RFID with Remote Monitoring and Remote Access

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**ABSTRACT:** This report discusses the development of a radio frequency identification device to guide door locking and unlocking capability. This door locking device allows registered users to fasten or free up doorways. If the card is legitimate, the door may be opened; otherwise it will likely be closed.

**KEYWORDS:** RFID, NFC, Sensors, Motors, Database, Remote Access, Remote Monitoring.

## I. INTRODUCTION

Rfid Is Radio Frequency Identification And Is A Contactless Or Wireless Card That Is Widely Available In Several Industries To Perform Operations Such As Staff Systems, Access Control, And Management Of The Chain, Library Management System, Gateway Systems, And More. Arduino Door Lock Systems, Especially Rfid, Are Secure And Accessible Compared To Different Door Lock Systems. With Arduino Use, It Becomes Much Easier To Use. Editing Code And Deploying It To Arduino Is Just One Type Of Plug-And-Play Device.

Identification Card Is Used In Lots Of Sectors Which Includes Personnel, Management And Control, Library Control, Door, And So On. It's Miles A Contactless Or Wireless Card Usually Used To Carry Out Obligations. Arduino Door Locks, Specially Rfid, Are More Comfortable And Less Difficult To Access Than Other Door Locks. It is Going To Be Less Complicated With Arduino. Edit The Code And Send It To Arduino As A Plug-And-Play Device. Its predominant advantage is that conversation is uninterrupted and RFID tags can paintings in any state of affairs. This suggests that the RFID machine is a reasonably-priced and fee-powerful device. every RFID tag has its very own hexadecimal code. therefore, it's miles a secure and dependable manner to lock and unencumber your door. The digital door lock is likewise used and displayed by a card reader that acknowledges and authorizes the person and presents get right of entry to the door as a result.

The machine lets in users to log inside and out quickly, securely and effectively. discover the exact fit by using scanning the cardboard. If the cardboard is permitted and meets the necessities inside the instructions, the card may be activated and the door will open. keep music of who comes and goes. examining constructing automation systems includes many complex structures. It now and again happens that the supervisor of an workplace, laboratory or library has to watch humans come and move immediately when this example happens. in line with this concept, an automated attendance gadget is proposed in addition to a system to comfortable get entry to thru RFID door locks. This directory is updated on a special web page so that it may be accessed from everywhere and from any handy internet site. the primary intention is to create a easy, less expensive device that may be without difficulty hooked up and adapted to the specific necessities of the application.