



SJM VIDYAPEETHA®

# S J M INSTITUTE OF TECHNOLOGY

(Recognized by AICTE, New Delhi and Affiliated to Visvesvaraya Technological University, Belagavi)  
NH-4 Bypass, P.B.No:73, CHITRADURGA -577502, Karnataka State



## LIST OF DOCUMENTS

	Sl. No.	Documents
<b>Experiential learning</b>	1	Sample report of Seminars given by Students
	2	Sample report of Seminars given by Guest Lecturer
	3	Sample copy of Assignments and submission report
<b>Participative learning</b>	4	Sample copy of Quiz and marks Allocation
	5	Sample copy of Awareness Program about First Aid, Gas Leakage Protection, Snake Bite And Social Services by NSS
	6	Sample report of Project Expo 2022-23
	7	Sample copy of Tree Plantation Drive by NSS
	8	Sample copy of Swacha Bharath Abhiyan
	9	Sample copy of Awareness Program on Education & Social Media to students
	10	Sample copy of Awareness program on Rain Harvesting
	11	Sample copy of Awareness program on Digital India
<b>Problem solving methodologies</b>	12	Sample copy of Paper Presentation by Students
	13	Sample copy of Projects Batches and Guide
	14	Sample copy of Mini-Projects Batches and Guide
	15	Sample copy of Internship Batches and Guide
	16	Sample copy of Career guidance & Computer guidance to school students

  
**PRINCIPAL**  
S.J.M.I.T, CHITRADURGA



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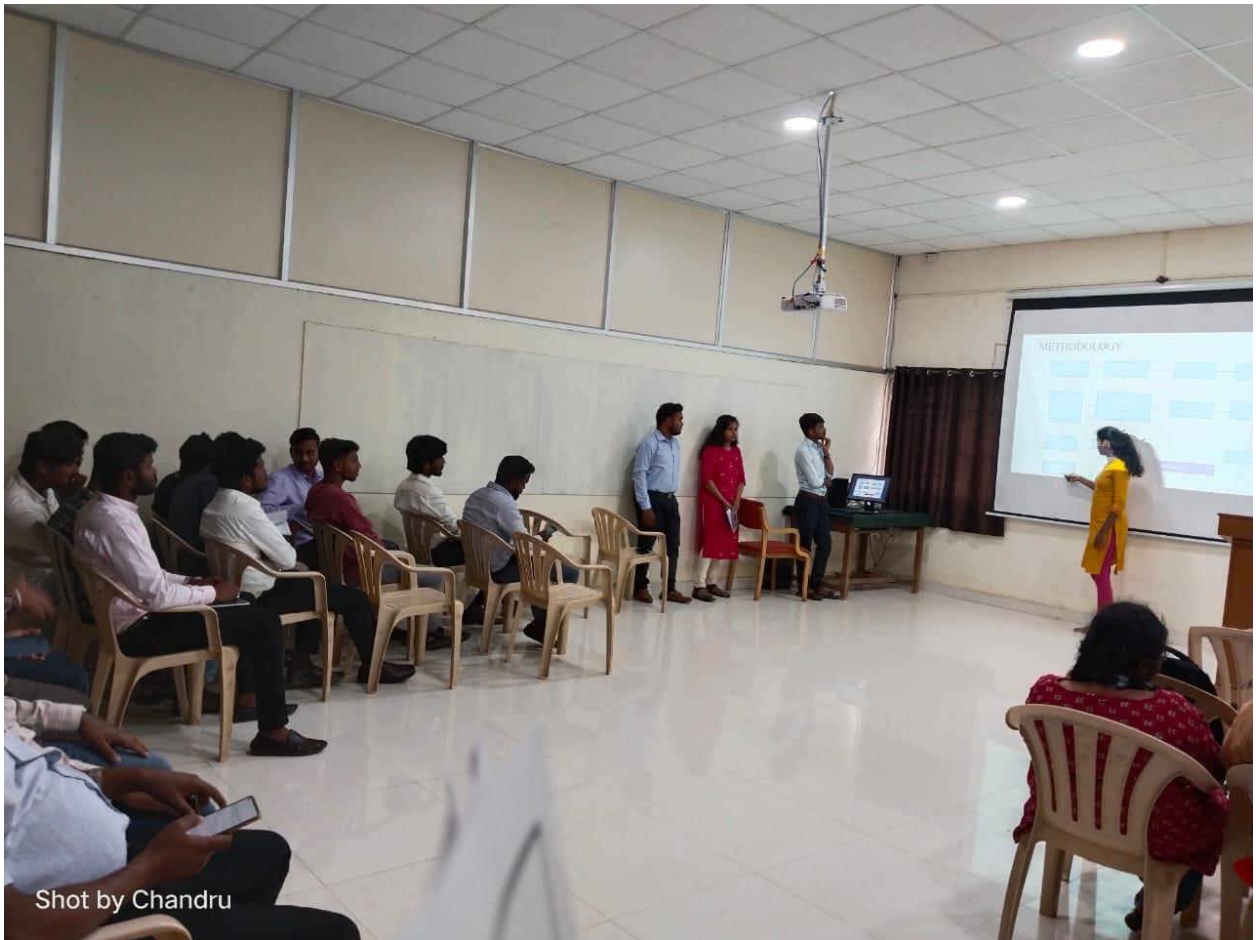


## SAMPLE REPORT OF SEMINARS GIVEN BY STUDENTS (2022-23)

**Subject:** Project Work Phase - 1 (18EEP78)

**Faculty Name:** Prof. Chandrashekar Kambali

**Class :** VII semester



**Topic:** Power Generation from Waste and Heat.

**Student Name:** Sangeetha A

**USN:** 4SM20EE407



**Topic:** Design and Performance Analysis of Solar Concentrated Collector.

**Student Name:** Rakshitha G K

**USN:** 4SM20EE406



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## SAMPLE REPORT OF SEMINARS GIVEN BY GUEST LECTURER (2022-23)



**Topic:** Challenge of Facing The Interview

**Guast Name:** Dr. B S Nagendra Parashar,  
Vice Chancellor, Bahra University, Shimla,  
Himachal Pradesh

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## Department of Mechanical Engineering

**Subject:** Metal cutting and metal forming

**Semester:** 4 th

**Subject Code:** 18ME45A

**Date:** 04-07-2022

### Assignment No. 1

#### Answer the following Questions.

- 1) Explain the difference between orthogonal cutting and Oblique cutting.
- 2) Draw the neat sketch of a single point cutting tool indicating its complete geometry. Explain the following (i) Back rake angle (ii) End clearance angle (iii) Side cutting edge angle (iv) Nose radius.
- 3) What is meant by tool signature. Explain each term of tool designated 8-12-6-6-6-10-1.
- 4) With a neat sketch, explain different types of chips that are formed during metal cutting.
- 5) Draw a merchant's circle diagram and write the expression of different forces acting on Single point cutting tool.
- 6) List different types of cutting tool material, Briefly explain the desirable properties of cutting tool materials.
- 7) Name are the different types of lathe. How do you specify a lathe machine?
- 8) Explain with a neat sketch the following lathe accessories. (a) Lathe centres (b) chucks (c) Mandrels (d) Rests.
- 9) List the various operation performed on lathe. Explain the following operation (a) Taper turning (b) Facing (c) Knurling (d) Thread cutting.
- 10) How do you make comparison between Turret lathe and Capstan Lathe.

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## **Department of Mechanical Engineering**

**Subject:** Metal cutting and metal forming

**Semester:** 4 th

**Subject Code:** 18ME45A

**Date:** 28-07-2022

### **Assignment No. 2**

#### **Answer the following Questions.**

- 1) Differentiate between UP Milling and Down Milling, show the chips cross section with figure for both the operations.
- 2) List various milling machine operations. Explain any three milling operations with a neat sketch.
- 3) What is Indexing? Name different methods of Indexing. Briefly explain Compound Indexing method.
- 4) Differentiate between Drilling, Boring and Reaming operations.
- 5) Explain with a neat sketch the following shaper operations (a) Machining horizontal Surface (2) Machining angular surface (c) Machining Keyways and grooves.
- 6) How do you classify different types of grinding machines. Explain the construction and working of centreless grinding machine with a neat sketch.
- 7) List and explain different types of Tool Wear.
- 8) List and explain Tool wear mechanism.
- 9) List and explain different process parameters that effect on tool life.
- 10) List and explain different types of cutting fluids and their applications.

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## **Department of Mechanical Engineering**

**Subject:** Metal cutting and metal forming

**Semester:** 4 th

**Subject Code:** 18ME45A

**Date:** 25-08-2022

### **Assignment No. 3**

#### **Answer the following Questions**

1. Explain briefly how the metal working process are classified on the basis of force applied. Draw necessary sketches
2. Mention the advantages and disadvantages of Metal working process?
3. Explain briefly how the metal forming process are classified on the basis of working temperature
4. Differentiate between cold working and hot working process.
5. Differentiate between Wrought product and Cast product
6. Explain with a neat sketches the following forging process (i) open die forging (ii) closed die forging
7. With a neat sketch explain the working of (a) Board drop hammer and (b) steam hammer
8. Explain with a neat sketches Hydraulic press and Mechanical press.
9. Mention the advantages and disadvantage of forging.
10. Explain briefly different types of forging defects



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**Department of Mechanical Engineering**

Subject: Metal cutting and metal forming

Semester: 4th

Subject Code: 18ME45A

**Assignments Submission Report (2022-23)**

Sl.No	USN	Student Name	04-07-22	28-07-22	25-08-22	AVG	Student's Sign
			Assign I	Assign II	Assign III		
1	4SM20ME001	PRAMODA N	10	10	10	10	Pramoda N
2	4SM20ME002	SWAMY NAGARJUNA B V	10	10	10	10	Swamy Nagarjuna
3	4SM20ME004	VARUN S	10	10	10	10	Varun S
4	4SM21ME400	ABDUL RAZZAQ	10	10	10	10	Abdul Razzaq
5	4SM21ME401	BALAJI T.S	10	10	10	10	Balaji T.S
6	4SM21ME402	CHANDAN C R	10	10	10	10	Chandan C.R
7	4SM21ME403	CHIRANJEEVI B.H	10	10	10	10	Chiranjeevi B.H
8	4SM21ME404	KIRAN S	10	10	10	10	Kiran S
9	4SM21ME405	KUMARA H.B	10	10	10	10	Kumara H.B
10	4SM21ME406	MD.ADNAN SHEIK	10	10	10	10	Adnan Sheik
11	4SM21ME407	NARASIMHA S	10	10	10	10	Narasimha S
12	4SM21ME408	PAVANKUMAR S	10	10	10	10	Pavankumar S
13	4SM21ME409	PRABHAVATHI	10	10	10	10	Prabhavathi
14	4SM21ME410	PRUTHVI M.M	10	10	10	10	Pruthvi M.M

*N. Jayaram*  
30/8/2022  
Faculty Signature

HOD/ Coordinator



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Bypass, P.B.No: 73, Chitradurga - 577502, Karnataka State

Name of the Faculty: Usman Ali A R

## Department: Electronics and Communication Engineering

Course: Universal Human Values

### Quiz

Sem: IV

Code: 21UHV49

Max Marks: 20

Time: 1 Hour

Date: 25/08/2023

Choose the correct answer from the following questions:- Marks : 1×20=20M

1. Which core universal values were identified by the Parliamentary Committee on Value Education under the Chairpersonship of Mr. S.B.Charan.

- (A) Truth
- (B) Righteous conduct
- (C) Peace
- (D) Love
- (E) Non- violence

Choose the correct answer from the options given below :

- 1. (A), (B), (C), (D), (E) only
- 2. (A), (B), (C) only
- 3. (A), (B), (C), (D) only
- 4. A), (B), (E) only

2. The main purpose of establishing Navodaya school

- 1. Promoting universal literacy
- 2. Providing good education in rural areas
- 3. Reduce dropout rates among rural youth
- 4. Increase number of schools in rural areas

3. Which one of the following is the aim of Value Education?

- 1. To inculcate moral values
- 2. To inculcate social values
- 3. To inculcate political values
- 4. To inculcate economic values

4. Which of the following categories of colleges is primarily intended for creating work ready manpower on a large scale?

1. Autonomous college
2. Community college
3. Agriculture college
4. Technical college

5. Which one of the following is NOT considered a part of technical education in India?

1. Medical
2. Management
3. Pharmaceutical
4. Aeronautical

6. Each human being is co-existence of the ----- and the-----

1. Cost, Value
2. Self, Body
3. Evaluation, Material
4. None of these

7. ----- is the feeling of responsibility for nurturing, protecting and right utilizing of the body.

1. Work
2. Understanding
3. Sanyam
4. None of the above

8. The system of the body works in a ----- way.

1. Understanding
2. Self organized
3. Self Investigated
4. Right Evaluation

9. The power capacity for selecting/tasting is -----

1. Understanding
2. Expectation
3. Value Education
4. Right Evaluation

10. ----- is the capacity of -----

1. Cost, Value
2. Expectation, Selecting/tasting
3. Evaluation, Material
4. None of these

11. Which feelings are naturally acceptable-

1. Struggle for Existence
2. Survival of the Fittest
3. Be the Best
4. Relationship, Harmony, and Co-existence

12. With right understanding the basis for Selecting/Tasting will be

1. Goal, Value guided Sensation
2. Sensory pleasure guided sensation
3. Senses, Health, Profit
4. Coexistence, Harmony, Justice guided Senses, Health, Profit

13. To live in co-existence (relationship) with human -beings- family to world family-

1. Knowledge
2. Resolution
3. Undivided Human Society
4. Universal Human Order

14. Aspects to understand any unit are-

1. Form, Property, Natural Characteristics, Innateness & Co-existence
2. Form, Property, Natural Characteristics, Innateness
3. Form, Property & Natural Characteristics
4. Form & Property

15. Which parameters are definite, continuous and same for all the units in nature

1. Natural Characteristics, Innateness & Co-existence
2. Form, Property, Natural Characteristics & Innateness
3. Form, Property & Natural Characteristics
4. Form, Property & Coexistence

16. When nature is submerged in space it is known as

1. Conformance
2. Acceptance
3. Mixing
4. Co-existence

17. Which is the third order of nature?

1. Plant order
2. Human order
3. Animal order
4. Material order

18. What is the name given to conformance of animal order?

1. Constitution Conformance
2. Seed Conformance
3. Breed Conformance
4. Sanskar Conformance

19. Which conformance is present in human beings?

1. Sanskar
2. Seed
3. Breed
4. Constitution

20. Recognizing and fulfillment are the basic activities of which order?

1. Animal
2. Plant
3. Human
4. Material



**S J M INSTITUTE OF TECHNOLOGY**  
**CHITRADURA-577502**  
**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**UNIVERSAL HUMAN VALUES INTERNAL ASSESSMENT (IA) MARKS LIST**

**SUB CODE: 21UH49**  
**YEAR:2022-2023**

**IV SEM**


Sl No	Branch	Name of the Student	USN	Quiz Marks
1	LCE	AJAY R	4SM20EC030	19
2	LCE	ABHISHEK G B	4SM21EC002	11
3	ECE	AISHWARYA C K	4SM21EC003	19
4	ECE	AKASH S KADEMANE	4SM21EC004	20
5	LCE	AKSHAKEERTHANA C A	4SM21EC005	20
6	LCE	AMBIKA H	4SM21EC006	20
7	LCE	AMULYA K	4SM21EC007	19
8	ECE	AYISHA SIDDIQA	4SM21EC008	16
9	ECE	BALAJI B R	4SM21EC009	20
10	ECE	BHAGYALAKSHMI	4SM21EC010	18
11	LCE	CHETHAN KUMAR P	4SM21EC011	19
12	LCE	DEEPIKA D	4SM21EC012	10
13	LCE	DEEPTHI T R	4SM21EC013	19
14	LCE	DEVIKA S	4SM21EC014	20
15	ECE	DILEEP R PAWAR	4SM21EC015	18
16	ECE	DIVYA B S	4SM21EC016	20
17	LCE	HARSHA B K	4SM21EC018	20
18	ECE	HARSHITHA B	4SM21EC019	20
19	LCE	HARSHITHA G K	4SM21EC020	10
20	LCE	HEMA B T	4SM21EC021	20
21	ECE	HIMA J	4SM21EC022	20
22	ECE	JAGADISH R	4SM21EC023	11
23	ECE	JYOTHIBAI S	4SM21EC024	20
24	LCE	KARTHIK L G	4SM21EC025	18
25	ECE	LIKHITH K J	4SM21EC026	15
26	LCE	MANUPRIYA P	4SM21EC027	20
27	LCE	MATHURA YADAV P V	4SM21EC028	10
28	ECE	MOINUDDIN T A	4SM21EC030	13
29	ECE	NANDAN KUMAR V	4SM21EC031	20
30	LCE	NANDINI M H	4SM21EC032	19
31	LCE	NAVEEN S T	4SM21EC033	10
32	ECE	NIDHI V M	4SM21EC034	20
33	ECE	NIKHITHA P H	4SM21EC035	20
34	ECE	NITHIN KUMAR K N	4SM21EC036	20
35	ECE	NITIN D	4SM21EC037	19
36	LCE	PALLAVI S A	4SM21EC038	19
37	LCE	PARVATHI C M	4SM21EC039	19
38	ECE	PAVITHRA R	4SM21EC040	19
39	ECE	POORNIMA T	4SM21EC041	20
40	ECE	PRUTHVIRAJ G	4SM21EC043	19
41	ECE	PURUSHOTHAM T P	4SM21EC044	20
42	LCE	RAGHU R	4SM21EC045	19

*Ulman*  
**Faculty Signature**

**HOD**  
Head of the Dept.  
Electronics & Comm. Engg  
S.J.M.I.T.,  
CHITRADURGA-577502.

43	ICI	RAMYA R	4SM21EC046	20
44	ICI	ROOPA G D	4SM21EC047	19
45	ICI	SANGEETHA M R	4SM21EC048	20
46	ICI	SANIYA B	4SM21EC049	10
47	ICI	SATHISH H	4SM21EC050	20
48	ICI	SATHISHA K	4SM21EC051	19
49	ICI	SHAILENDRA S	4SM21EC052	20
50	ICI	SHIVANANDA GOWDA B	4SM21EC053	19
51	ECE	SNEHA B	4SM21EC054	20
52	ECE	SNEHA M	4SM21EC055	20
53	ECE	SUHAS P M	4SM21EC057	20
54	ECE	SUJITH G R	4SM21EC058	19
55	ECE	SUNIL R	4SM21EC059	20
56	ICI	TANUSHREE S	4SM21EC060	10
57	ICI	THANUSHREE K V	4SM21EC061	10
58	ECE	THANUSHREE M	4SM21EC062	11
59	ECE	VAISHNAVI M M	4SM21EC063	13
60	ECE	VARSHA D	4SM21EC064	20
61	ICI	VINAY M S	4SM21EC066	20
62	ICI	YASHASWINI H M	4SM21EC067	20
63	ICI	YASHWANTH M	4SM21EC068	19
64	ICI	ZAIBA BANU Z	4SM21EC069	17
65	ECE	AMEER AHAMED	4SM22EC400	20
66	ECE	ANUSHA C	4SM22EC401	17
67	ECE	ANUSHA S Y	4SM22EC402	20
68	ECE	AYESHA SIDDIQA A	4SM22EC403	13
69	ICI	CHANDAN M L	4SM22EC404	20
70	ICI	CHANDANA U	4SM22EC405	17
71	ICI	DADHAM NIKHITHA	4SM22EC406	20
72	ECE	DEEPIKA T R	4SM22EC407	20
73	ECE	GAGAN H R	4SM22EC408	10
74	ECE	GANESH V	4SM22EC409	17
75	ICI	KARTHIK N	4SM22EC410	19
76	ICI	KAVYA P	4SM22EC411	13
77	ICI	KOUSALYA N	4SM22EC412	19
78	ICI	LOKESHNAIK N V	4SM22EC413	20
79	ICI	MADHUKESHAVA M	4SM22EC414	19
80	ECE	MAHESH V	4SM22EC415	16
81	ECE	MANJUNATHA T	4SM22EC416	10
82	ECE	POOJA B	4SM22EC417	18
83	ECE	PREETHAM Y G	4SM22EC418	18
84	ECE	PRIYANKA N	4SM22EC419	20
85	ECE	RANJITHA A K	4SM22EC420	18
86	ECE	SIDDESH T M	4SM22EC421	19
87	ECE	SNEHA A	4SM22EC422	20
88	ECE	SOWMYA B	4SM22EC423	20
89	ECE	SREENIVASA R	4SM22EC424	17
90	ICI	SRINIVASA K R	4SM22EC425	19
91	ECE	SUFIYA MUSKAN	4SM22EC426	19
92	ICI	USHA R	4SM22EC427	20
93	ICI	VASANTH V	4SM22EC428	20
94	ICI	ZUVERIYA M	4SM22EC429	12

Ullman  
Faculty Signature

  
HOD  
Head of the Dept.  
Electronics & Comm. Engg.  
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# National Service Scheme



**Dr. Bharath P. B.**<sub>M. Tech Ph.D</sub>

Principal SJMIT

**Dr. E.Niranjan**<sub>M.Sc Ph.D</sub>

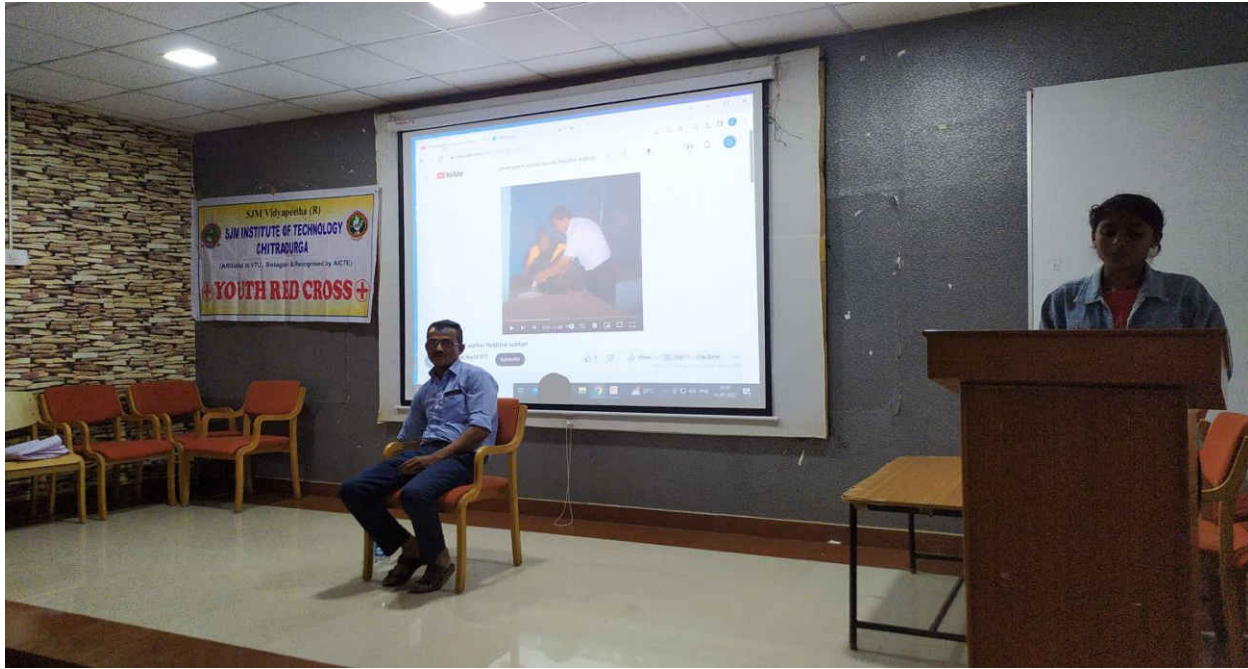
NSS Coordinator

**Date: 14-09-2023**

**AWARENESS PROGRAM ABOUT FIRST AID, GAS LEAKAGE  
PROTECTION, SNAKE BITE AND SOCIAL SERVICES.**

Place: CIVIL Seminar hall, SJMIT Chitradurga.

Time: 3PM to 5PM





The awareness program about first aid, gas leakage protection, snake bite and social services was conducted for the students of SJMIT. The Mr. **Subhan** had given awareness about first aid, gas leakage protection, snake bite and social services more the 200 students were present on the occasion.

  
PRINCIPAL  
S.J.M.I.T, CHITRADURGA

**SJM Vidyapeetha ®**  
**S.J.M. Institute of Technology, Chitradurga**  
**Department of Electronics & Communication Engg**

**PROJECT EXPO 2022-23**

**On**

**“SEMICONDUCTORS AND EMBEDDED  
SYSTEMS”**





**S.J.M. Institute of Technology, Chitradurga**  
**Department of Electronics & Communication Engg.**

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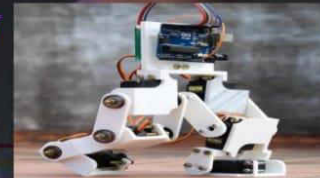
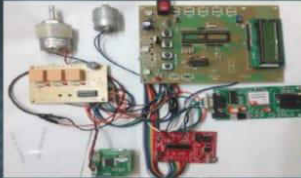


**PROJECT EXPO 2022-23**

ON

**"SEMICONDUCTORS AND EMBEDDED SYSTEMS"**

All are Cordially  
Invited



**Date: 19<sup>th</sup> May 2023**

**Time: @ 10:00 A.M**

**Dr. Siddesh K B**  
H.O.D, Dept of ECE

**Faculty Coordinators**  
Prof. Roopa S  
Prof. Tanuja T  
Prof. Chetan S  
Prof. Nandini G R

**Dr. Bharath P B**  
Principal

# INAUGURATION OF PROJECT EXPO2022-23







## ಎಸ್‌ಜಿಎಂ ಕಾಲೇಜಿನಲ್ಲಿ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋ

■ **ವಿಕ ಸುದ್ದಿಯೊಳ** ಚಿತ್ರದುರ್ಗ ನಗರದ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದಿಂದ ಶುಕ್ರವಾರ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋ-2022 ಆಯೋಜಿಸಲಾಗಿತ್ತು. ಪ್ರದರ್ಶನದಲ್ಲಿ ಅಂತಿಮ ವರ್ಷದ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದ ವಿದ್ಯಾರ್ಥಿಗಳು ತಯಾರಿಸಿದ ಐಟಿ ಆಧಾರಿತ ಮಳೆ ನೀರು ಕೊಯ್ಲು ತಂತ್ರಜ್ಞಾನ, ಫೈರ್ ಫೈಟಿಂಗ್ ರೋಬೋಟ್, ಮೆಟ್ರಿಬುಗಳನ್ನು ಹತ್ತಿಬಲ್ಲ ರೋಬೋಟ್, ಎಸ್‌ಟಿಎಂ32 ಮೈಕ್ರೋ ಕಂಟ್ರೋಲರ್ ಆಧಾರಿತ ಬೀದಿ ದೀಪ ಬೆಳಕಿನ ನಿಯಂತ್ರಣ ಹಾಗೂ ಏದ್ಯುತ್ ಉಳಿತಾಯ, ಅಪಘಾತಗಳನ್ನು ತಪ್ಪಿಸಲು ಇಂಟಲಿಜೆಂಟ್ ಟ್ರೈನ್ ಎಂಜಿನ್ ಮತ್ತು ರೈಲ್ವೆ ಗೇಟ್

ಕಂಟ್ರೋಲಿಂಗ್, ಹಾಗೂ ಏವಿಲ್ ಎಸ್‌ಐ ಟೆಕ್ನಾಲಜಿ ಆಧಾರಿಸಿ ತಯಾರಿಸಿದ ಮತ್ತಿತರ ಉಪಕರಣಗಳನ್ನು ಪ್ರಾಚಾರ್ಯ ಡಾ.ಪಿ.ಬಿ.ಭರತ್, ಬಿಎಸ್‌ಎಲ್ ಎಲ್ ಉಪವಿಭಾಗೀಯ ಎಂಜಿನಿಯರ್ ಎಚ್. ಸುನೀತಾ ಚಾಲನೆ ನೀಡಿದರು. ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ. ಕೆ.ಬಿ.ಸಿದ್ದೇಶ್, ಕಾರ್ಯಕ್ರಮ ಸಂಚಾಲಕ ಪ್ರೊ. ಎಸ್.ರೂಪಾ, ಪ್ರೊ.ಟಿ.ತನುಜಾ, ಪ್ರೊ.ಎಸ್. ಚೇತನ್, ಪ್ರೊ.ಬಿ.ಆರ್.ನಂದಿನಿ, ಉಪನ್ಯಾಸಕರು ಹಾಗೂ ಸಿಬ್ಬಂದಿ ವರ್ಗದವರು ಉಪಸ್ಥಿತರಿದ್ದರು. ಪ್ರಾಜೆಕ್ಟ್‌ಗಳನ್ನು ತಯಾರಿಸಿದ್ದ ವಿದ್ಯಾರ್ಥಿಗಳು ತಮ್ಮ ಪ್ರಾಜೆಕ್ಟ್‌ಗಳ ಬಗ್ಗೆ ಗಣ್ಯರು, ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಮಾಹಿತಿ ನೀಡಿದರು.

ಚಿತ್ರದುರ್ಗದ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದಿಂದ ಶುಕ್ರವಾರ ಆಯೋಜಿಸಿದ್ದ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋ-2022 ರಲ್ಲಿ ಗಣ್ಯರು ಪ್ರಾಜೆಕ್ಟ್‌ಗಳನ್ನು ವೀಕ್ಷಿಸಿದರು.



ಚಿತ್ರದುರ್ಗ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದಲ್ಲಿ ಶುಕ್ರವಾರ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋ-2022ನ್ನು ಏರ್ಪಡಿಸಲಾಗಿತ್ತು. ಪ್ರದರ್ಶನ ಉದ್ಘಾಟಿಸಿದ ಬಿಎಸ್‌ಎನ್‌ಎಲ್ ಉಪವಿಭಾಗೀಯ ಇಂಜಿನಿಯರ್ ಎಚ್.ಸುನೀತಾ, ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಕೆ.ಬಿ.ಸಿದ್ದೇಶ್, ಕಾರ್ಯಕ್ರಮ ಸಂಚಾಲಕರಾದ ಪ್ರೊ.ಎಸ್.ರೂಪಾ, ಪ್ರೊ.ಟಿ.ತನುಜಾ, ಪ್ರೊ.ಎಸ್.ಚೇತನ್, ಪ್ರೊ.ಬಿ.ಆರ್.ನಂದಿನಿ ಇತರರಿದ್ದರು.

ವಿಜಯವಾಣಿ ಜಿಲ್ಲೆ  
S20 FE 5G

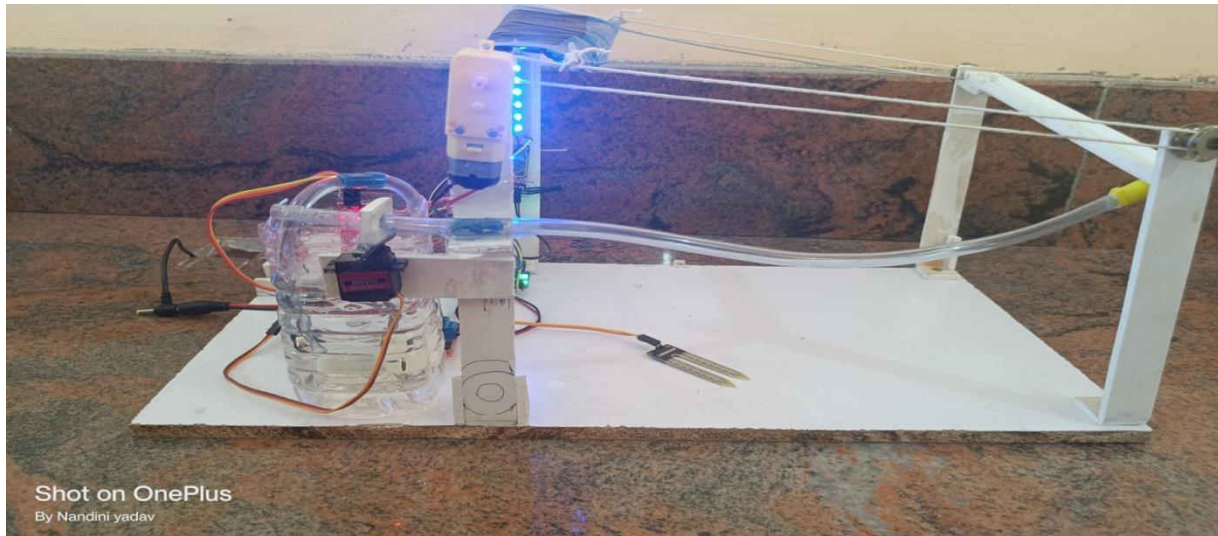


ಚಿತ್ರದುರ್ಗ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದಲ್ಲಿ ಹಮ್ಮಿಕೊಂಡಿದ್ದ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋಗೆ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಪಿ.ಬಿ.ಭರತ್, ಬಿಎಸ್‌ಎನ್‌ಎಲ್ ಉಪವಿಭಾಗೀಯ ಎಂಜಿನಿಯರ್ ಎಚ್. ಸುನೀತಾ ಚಾಲನೆ ನೀಡಿದರು.

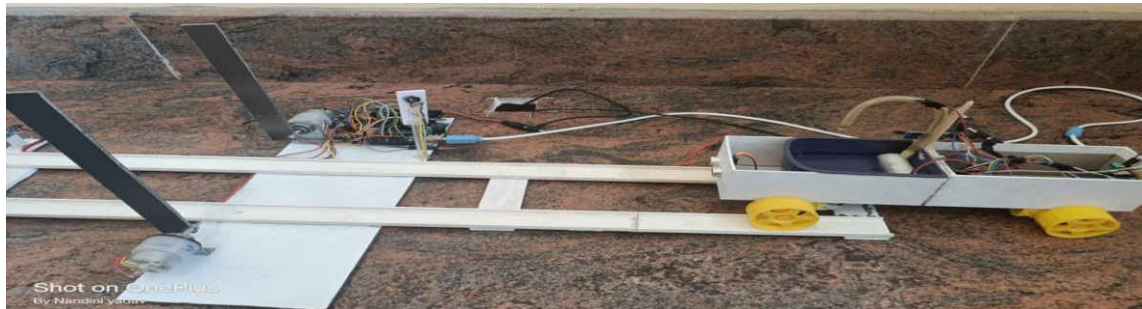
**ಪ್ರಜಾವಾಣಿ ವಾರ್ತೆ**  
ಚಿತ್ರದುರ್ಗ: ಇಲ್ಲಿನ ಎಸ್‌ಜಿಎಂ ತಾಂತ್ರಿಕ ಮಹಾವಿದ್ಯಾಲಯದ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ಮತ್ತು ಕಮ್ಯೂನಿಕೇಷನ್ ವಿಭಾಗದ ವತಿಯಿಂದ ಶುಕ್ರವಾರ ಹಮ್ಮಿಕೊಂಡಿದ್ದ ಪ್ರಾಜೆಕ್ಟ್ ಎಕ್ಸ್‌ಪೋ ತಾಂತ್ರಿಕ ನೈಪುಣ್ಯ ಪ್ರದರ್ಶನಕ್ಕೆ ವೇದಿಕೆ ಒದಗಿಸಿತು.  
ಮಳೆ ನೀರು ಸಂಗ್ರಹ ತಂತ್ರಜ್ಞಾನ, ಅಗ್ನಿನಂದಕ ರೋಬೋಟ್, ಬೀದಿ ದೀಪ ನಿಯಂತ್ರಣಾ ವ್ಯವಸ್ಥೆ ಹಾಗೂ ಏದ್ಯುತ್ ಉಳಿತಾಯ, ಅಪಘಾತಗಳನ್ನು ತಪ್ಪಿಸಲು ರೈಲ್ವೆ ಎಂಜಿನ್ ಹಾಗೂ ರೈಲ್ವೆ ಗೇಟ್ ನಿಯಂತ್ರಣಾ ವ್ಯವಸ್ಥೆ ಸೇರಿ ಹಲವು ಮಾದರಿಗಳು ಗಮನ ಸೆಳೆದವು.  
ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಪಿ.ಬಿ.ಭರತ್, ಬಿಎಸ್‌ಎನ್‌ಎಲ್ ಉಪವಿಭಾಗೀಯ ಎಂಜಿನಿಯರ್ ಎಚ್.ಸುನೀತಾ ಪ್ರದರ್ಶನಕ್ಕೆ ಚಾಲನೆ ನೀಡಿದರು. ವಿಭಾಗದ ಮುಖ್ಯಸ್ಥ ಡಾ.ಕೆ.ಬಿ.ಸಿದ್ದೇಶ್, ಪ್ರೊ.ಎಸ್.ರೂಪಾ, ಪ್ರೊ.ಟಿ.ತನುಜಾ, ಪ್ರೊ.ಎಸ್.ಚೇತನ್, ಪ್ರೊ.ಬಿ.ಆರ್.ನಂದಿನಿ ಇದ್ದರು.

Sl. No.	NAME	USN	Titles
1	4SM19EC013	MEGHA M	A FULLY STATIC TOPOLOGICALLY COMPRESSED FLIP FLOP WITH MAXIMUM POWER SAVING
	4SM19EC014	NAGAVENI D N	
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7	4SM19EC003	AKHILA DEVI S N	DESIGN OF CLOCK GLITCH DETECTION CIRCUIT
	4SM19EC005	BHARATHI P	
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	4SM19EC009	HARSHITHA S R	
	4SM19EC018	SAHANA T D	
	4SM19EC026	VINAYA KRISHNAVENI S U	
9	4SM18EC001	AKASH B R	RAIN WATER HARVESTING TECHNOLOGY BASED ON IOT
	4SM18EC016	KARTHIKRAJA V L	
	4SM18EC040	SHIVARAJ BARKI	

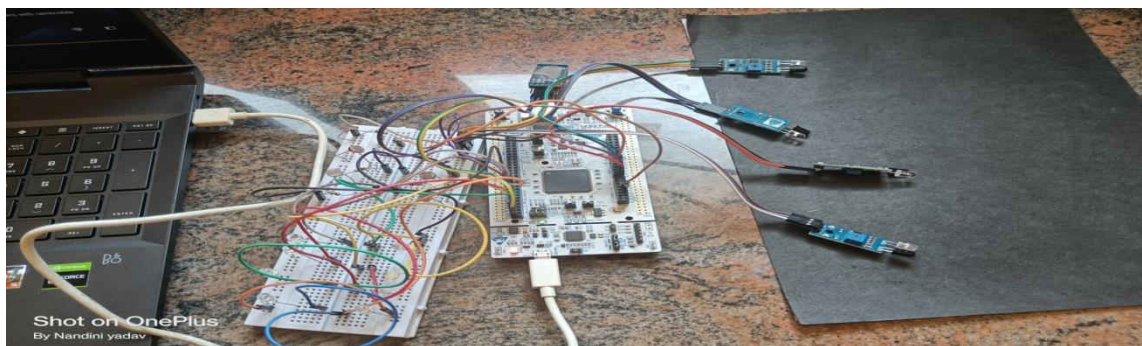
# 1. "RAIN WATER HARVESTING TECHNOLOGY BASED ON IOT"



# 2. "INTELLIGENT TRAIN ENGINE TO AVOID ACCIDENTS AND RAILWAY GATE CONTROLLING"

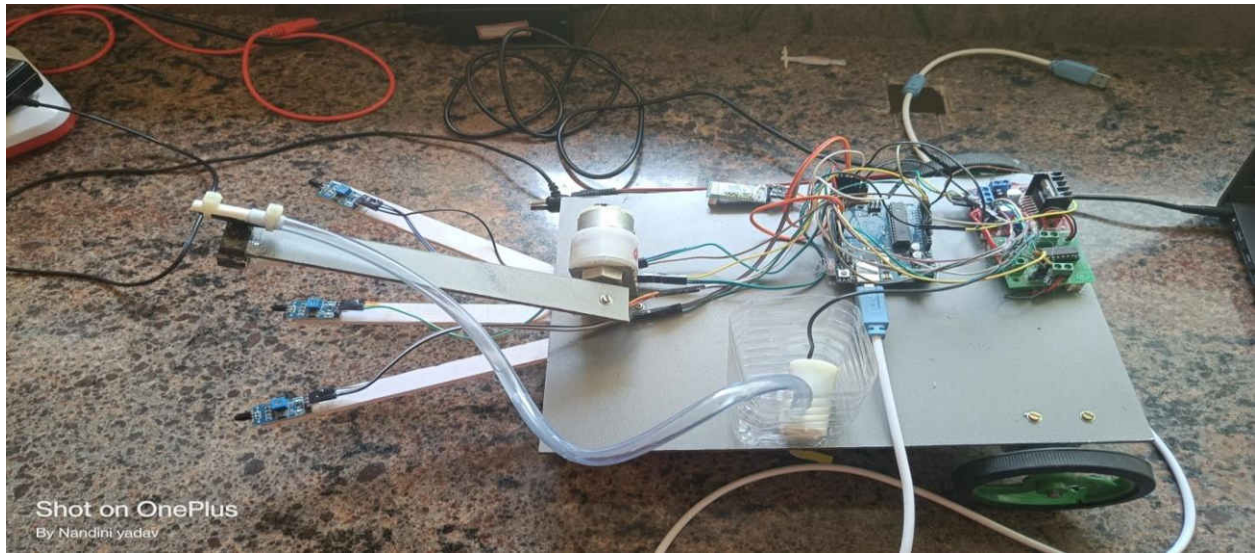


# 3. "POWER OPTIMIZATION OF STREET LIGHT CONTROL USING STM32 MICROCONTROLLER"





## 4. "FIRE FIGHTING ROBOT"



Group Photo



SJM Vidyapeetha®

# S J M INSTITUTE OF TECHNOLOGY

(Recognized by AICTE, New Delhi and Affiliated to Visvesvaraya Technological University, Belagavi)

NH-4 Bypass, P.B.No:73, CHITRADURGA -577502, Karnataka State

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# National Service Scheme



## “Tree Plantation Drive”

**Dr. Bharath P. B.**<sub>M. Tech Ph.D</sub>

Principal SJMIT

**Dr. E.Niranjan**<sub>M.ScPh.D</sub>

NSS Coordinator

## **Plantation Drive**

Trees represent life, growth, peace and nature. They produce oxygen, clean soil, prevent drought, control flood related disasters, prevent soil erosion, improve physiological, mental and spiritual health, and also reduce carbon footprints. Keeping this in mind the campaign for the One-Student plantation programme was initiated by the SJMIT Chitradurga on 11<sup>th</sup> September 2023. The following activities have been undertaken so far to promote this campaign: - All students were informed about the “Plantation Programme under the NSS” through telephone conversation to motivate them to plant saplings of trees. - A “Tree Plantation Drive was organized on 11<sup>th</sup> September 2023 under by Dr. P.B. Bharath Principal, Dr. Jaganath. N (IQAC Coordinator) Dr. E. Niranjana (NSS Coordinator) supported the tree sapling plantation drive and motivated the students to take care of the saplings so that they grow into healthy trees. Free saplings were requested from the Government Nursery. The students were motivated and advised to take care of the saplings planted by them. The students also took the Oath: “I will plant a tree sapling and take care of the sapling such that it grows into a mature tree” The students were encouraged to plant tree saplings. All students took oath for planting tree saplings. “Love the trees until their leaves fall Off, then encourage them to try again next year”.





**Tree plantation by students**



**Tree plantation by Faculty**





**Tree plantation by Faculty**



**Tree plantation by students**





Tree plantation by students

  
PRINCIPAL  
S.J.M.I.T, CHITRADURGA

## CONTRIBUTION TO NATIONAL LEVEL INITIATIVE OF GOVERNMENT OF INDIA SWACHH BHARATH

*Venue : SJMIT Campus, Chitradurga*

*Date: 21/05/2022 and 22/05/2022*

### **Programme Schedule:**

The students and Faculty of Department of Civil Engineering of S.J.M INSTITUTE OF TECHNOLOGY conducted Cleaning programme in *SJMIT Campus, Chitradurga* for activity of Swachh Bharat Abhiyan, The major objective of the Swacch Bharat Abhiyan is to spread the awareness of cleanliness and segregation of dry waste and wet waste and maintenance of Hygiene and clean practices in the institution.



**Cleaning the campus & surroundings with dry & wet waste**





**View of Campus after cleaning**

## CONTRIBUTION TO NATIONAL LEVEL INITIATIVE OF GOVERNMENT OF INDIA SWACHH BHARATH

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**Swachh Bharat Abhiyan by students**





**Swachh Bharat Abhiyan by students**



**Swachh Bharat Abhiyan by students**

  
**PRINCIPAL**  
**S.J.M.I.T, CHITRADURGA**

## **CREATING AWARENESS OF EDUCATION AND SOCIAL MEDIA TO STUDENTS**

*Venue: SJS English Medium School, Chitradurga Taluk*

*Date: 31<sup>st</sup> May 2023*

### **Programme Schedule:**

Students of Department of Civil Engineering of S.J.M INSTITUTE OF TECHNOLOGY conducted Awareness Programme regarding Social Media and importance of Education. The main objective of the Awareness programme is to enhance the interest in Higher education and to educate the students about advantages and disadvantages of Social Media.



SJMIT students at S J S English medium school



SJMIT students at S J S English medium school





S J S English Medium school students



Teaching students about social media awareness

## CREATING AWARENESS ABOUT RAINWATER HARVESTING

Venue: Medehalli, Chitradurga

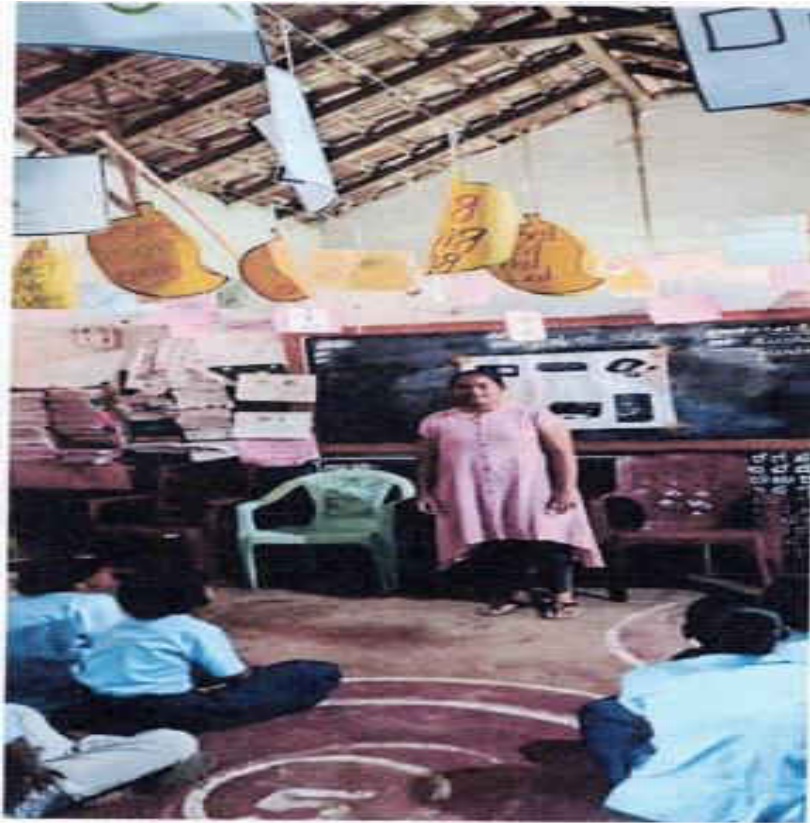
Date: 31<sup>st</sup> May 2023

### Programme Schedule:

The students and Faculty of Department of Electronics and Communication Engineering of S.J.M INSTITUTE OF TECHNOLOGY conducted awareness about Rain Water Harvesting in *Medehalli, Chitradurga*. The main objective of this programme is to create awareness about the importance of Rain water, its storage and conservation.



Presentation & tools used



**Photos of the activity carried out**



## **CREATING AWARENESS ABOUT DIGITAL INDIA**

**Venue: Hireguntanuru Village, Chitradurga**

*Date: 30<sup>th</sup> May 2023*

### **Programme Schedule:**

The students and Faculty of Department of Electronics and Communication Engineering of S.J.M INSTITUTE OF TECHNOLOGY conducted awareness about Digital India in *Hireguntanuru Village, Chitradurga*. The main motto of the Digital India Mission is 'Power to Empower'. The three core components of Digital India initiative are Digital Infrastructure creation, digital delivery of services and Digital literacy.



**Photos of the activity carried out & Presentation**





**Awareness program conducted at hireguntanuru village**

  
**PRINCIPAL**  
**S.J.M.I.T, CHITRADURGA**



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NAAC Accredited with B++ Grade



## SAMPLE COPY OF PAPER PRESENTAION BY STUDENTS (2022-23)



### 2<sup>nd</sup> International Conference on Engineering Innovation ICEI-2023



*Organized by*  
Jain Institute of Technology, Davanagere

*In Association with*  
Technical Institute for Engineers, Bangalore

*This Certificate is presented to Dr./Prof./Mr./Mrs.*

Vennela D N

*For His/Her Paper Titled*

Smart Traffic Signal and Intelligent Street Light Management System based on the IoT

in the 2<sup>nd</sup> International Conference on Engineering Innovation (ICEI-2023), organized by the Jain Institute of Technology, Davanagere, India in association with Technical Institute for Engineers on 2<sup>nd</sup> June, 2023.

Dr. Hemalatha K.L.  
President  
Technical Institute for Engineers

Dr. Santosh Herur  
Associate Professor and Head,  
Department of Electronics and Communication Engineering,  
Jain Institute of Technology, Davanagere, India

Dr. Ganesh D.B.  
Principal,  
Jain Institute of Technology, Davanagere, India

**Topic:** Smart Traffic Signal and Intelligent Street Light Management System based on the IoT

**Student Name:** Vennela D N

**USN:** 4SM19EE019

**Department of Electronics & Communication Engg.**  
**S.J.M.I.T., Chitradurga - 577502**  
**Project Batches with Titles 2022-2023**

Sl. No.	NAME	USN	Titles	Name of the Guide
1	4SM19EC013	MEGHA M	A FULLY STATIC TOPOLOGICALLY COMPRESSED FLIP FLOP WITH MAXIMUM POWER SAVING	Dr. Siddesh K B
	4SM19EC014	NAGAVENI D N		
	4SM19EC017	ROOPA J		
	4SM19EC023	UMME HUMERA		
2	4SM19EC008	DISHA N	ASCI IMPLEMENTATION OF DUTY CYCLE MEASUREMENT AND CORRECTION CIRCUIT	Dr. Pavan Kumar D
	4SM19EC019	SAMARTH M		
	4SM19EC021	SWETHA G TIGADI		
	4SM19EC027	MOHAMED RUTHAB		
3	4SM19EC007	DEEPTHI G	FIRE FIGHTING ROBOT	Prof. Roopa S
	4SM19EC020	SHASHANK YADAV N		
	4SM19EC024	VARSHA S		
	4SM19EC025	VASANTH KUMAR P		
4	4SM19EC004	ANANYA S V	POWER OPTIMIZATION OF STREET LIGHT CONTROL USING STM32 MICROCONTROLLER	Prof. Sridhar S N
	4SM19EC010	HARSHITHA Y T		
	4SM19EC011	KAVANA S		
	4SM20EC403	RADHA M		
5	4SM19EC002	ADHARSH H	LOW POWER PULSE TRIGGERED FLIP FLOP DESIGN WITH CONDITIONAL PULSE ENHANCEMENT SCHEME	Prof. Farzana Parveen B A
	4SM20EC400	MARUTHI K		
	4SM20EC401	PAVANKUMAR P		
	4SM20EC402	PRASAD SWAMY P		
6	4SM19EC015	PRAJWAL C T	STAIRS CLIMBING ROBOT USING AURDUINO	Prof. Jayadevappa R S
	4SM19EC028	ANARGHYA SIRI R		
	4SM19EC029	ABHINANDAN R J		
	4SM20EC404	SEEMA K N		

7	4SM19EC003	AKHILA DEVI S N	DESIGN OF CLOCK GLITCH DETECTION CIRCUIT	Prof. Lavakumar T B
	4SM19EC005	BHARATHI P		
	4SM19EC006	DEEPAK B V		
	4SM19EC012	KIRANKUMARA D C		
8	4SM19EC001	ABHISHEK M	INTELLIGENT TRAIN ENGINE TO AVOID ACCIDENTS AND RAILWAY GATE CONTROLLING	Prof. Sudharshan M K
	4SM19EC009	HARSHITHA S R		
	4SM19EC018	SAHANA T D		
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9	4SM18EC001	AKASH B R	RAIN WATER HARVESTING TECHNOLOGY BASED ON IOT	Prof. Sandeep V R
	4SM18EC016	KARTHIKRAJA V L		
	4SM18EC040	SHIVARAJ BARKI		



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**Topics of Mini Project**

**Year: 2022-23**

Sl. No.	USN	NAME	Title of the Mini Project	Name of the Guide
1	4SM19EC022	SWATHI B M	LPG Leakage detector	Dr. Siddesh K B
	4SM20EC009	MOUNIKA E		
	4SM20EC025	TEJU R		
	4SM20EC029	SRIDEVI M P		
2	4SM20EC005	HEMA R S	Alcohol sensing and engine blocking system	Dr. Pavan Kumar D
	4SM20EC007	KAVANA M		
	4SM20EC016	SAHANA M		
	4SM20EC017	SIMRAN A		
3	4SM19EC016	RAHUL KOLE	Motion based automatic door opener	Prof. Roopa S
	4SM20EC001	CHETHAN M		
	4SM20EC012	PAVAN KUMAR V		
4	4SM18EC050	TEJASHWINI K S	Temperature based automatic fan control system	Prof. Sridhar S N
	4SM20EC010	NALINA D		
	4SM20EC014	REKHA B V		
	4SM20EC024	SYEDA NEHA		
5	4SM20EC002	GANESHA P R	Bluetooth control home automation	Prof. Farzana Parveen B A
	4SM20EC006	KARTHIK N D L		
	4SM20EC020	SUDARSHAN S R		
	4SM21EC406	YATHISH B		

6	4SM21EC400	ANOOP M	Distance calculation meter	Prof. Jayadevappa R S
	4SM21EC402	SACHIN P		
	4SM21EC404	SWAMY M		
	4SM21EC405	VAIJAYANTH V P		
7	4SM20EC013	RAJATH SANTHOSH N T	Fire detection and alarm using arduino	Prof. Lavakumar T B
	4SM20EC028	SHIVAKUMAR NAIK		
	4SM21EC401	BASAVARAJA B N		
	4SM21EC403	SANTHOSHA C		
8	4SM20EC004	HARSHAVARDHAN A	Solar tracking system	Prof. Sudharshan M K
	4SM20EC015	S ARUN		
	4SM20EC027	YOGENDRA O		
9	4SM20EC008	LOKESH R	Automatic irrigation system	Prof. Sandeep V R
	4SM20EC022	SWAMY T N		
	4SM20EC026	YASHAVANTHA N		



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List of Internship Batches with titles

Sl. No.	NAME	USN	Title	Name of the Guide
1	4SM19EC013	MEGHA M	Realtime embedded system with STM32 Nucleo board	Dr. Siddesh K B
	4SM19EC014	NAGA VENI D N		
	4SM19EC017	ROOPA J		
	4SM19EC023	UMME HUMERA		
2	4SM19EC008	DISHA N	Rain water harvesting using STM 32F429 Z IT6	Dr. Pavan Kumar D
	4SM19EC019	SAMARTH M		
	4SM19EC021	SWETHA G TIGADI		
	4SM19EC027	MOHAMED RUTHAB		
3	4SM19EC007	DEEPTHI G	Rain water harvesting using STM 32F429 Z IT6	Prof. Roopa S
	4SM19EC020	SHASHANK YADAV N		
	4SM19EC024	VARSHA S		
	4SM19EC025	VASANTH KUMAR P		
4	4SM19EC004	ANANYA S V	Realtime embedded system with STM32 Nucleo board	Prof. Sridhar S N
	4SM19EC010	HARSHITHA Y T		
	4SM19EC011	KAVANA S		
	4SM20EC403	RADHA M		
5	4SM19EC002	ADHARSH H	Autonomous wheel chair under free defined environment using STM 32F429 Z IT6	Prof. Farzana Parveen B A
	4SM20EC400	MARUTHI K		
	4SM20EC401	PAVANKUMAR P		
	4SM20EC402	PRASAD SWAMY P		
6	4SM19EC015	PRAJWAL C T	Autonomous wheel chair under free defined environment using STM 32F429 Z IT6	Prof. Jayadevappa R S
	4SM19EC028	ANARGHYA SIRI R		
	4SM19EC029	ABHINANDAN R J		
	4SM20EC404	SEEMA K N		
7	4SM19EC003	AKHILA DEVI S N	Energy efficient smart street light for smart city using STM 32F429 Z IT6	Prof. Lavakumar T B
	4SM19EC005	BHARATHI P		
	4SM19EC006	DEEPAK B V		
	4SM19EC012	KIRANKUMARA D C		
8	4SM19EC001	ABHISHEK M	Density based room light control using STM 32F429 Z IT6	Prof. Sudharshan M K
	4SM19EC009	HARSHITHA S R		
	4SM19EC018	SAHANA T D		
	4SM19EC026	VINAYA KRISHNAVENI S U		
9	4SM18EC001	AKASH B R	Rain water harvesting using STM 32F429 Z IT6	Prof. Sandeep V R
	4SM18EC016	KARTHIKRAJA V L		
	4SM18EC040	SHIVARAJ BARKI		





## **CAREER GUIDANCE AND COMPUTER GUIDANCE TO SCHOOL STUDENTS**

*Venue: Bruhanmatta Government Higher Primary School, Mill area, Chitradurga.*

*Date: 21<sup>st</sup> April 2023*

### **Programme Schedule:**

Students of Department of Electrical and Electronics Engineering of S.J.M INSTITUTE OF TECHNOLOGY conducted Career guidance and Computer guidance to school students. The main objective of the Awareness programme is to enhance the potential of each individual. It provides an array of services that cater for the development needs of young minds.



**Students giving PPT Presentation**



**Awareness Program By students**

  
**PRINCIPAL**  
S.J.M.I.T, CHITRADURGA