



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.



Criterion: 2.3.1

Academic Years: 2023-24

2.3.1 - Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

## LIST OF DOCUMENTS (2023-24)

|                                      | Sl. No. | Documents   |
|--------------------------------------|---------|---|
| <b>Experiential learning</b>         | 1       | Sample report of Seminar given by Students  |
|                                      | 2       | Sample report of Seminar given by Guest Lecturer  |
|                                      | 3       | Sample copy of Industrial Visit   |
|                                      | 4       | Sample copy of Lesson Plan  |
|                                      | 5       | Sample copy of Assignments and submission report  |
| <b>Participative learning</b>        | 6       | Sample copy of Quiz and marks Allocation  |
|                                      | 7       | Sample report of Mini Project Expo 2023-24  |
|                                      | 8       | Sample copy of Public Awareness Under a Rural Outreach Program                                      |
|                                      | 9       | Sample copy of Contribution of National Level Initiative Swachh Bharat                              |
|                                      | 10      | Sample copy of Awareness program Marketing of Rural Produce   |
|                                      | 11      | Sample copy of Planation and Adoption of Plants   |
| <b>Problem solving methodologies</b> | 12      | Sample copy of Clean Campus Mission   |
|                                      | 13      | Sample copy of Paper Presentation by Student  |
|                                      | 14      | Sample copy of Projects Batches and Guide   |
|                                      | 15      | Sample copy of Mini-Projects Batches and Guide  |
|                                      | 16      | Sample copy of Internship Batches and Guide   |
|                                      | 17      | Sample copy of Guiding Government School Rejuvenation & helping them to Achieve Good Infrastructure |

  
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Criterion: 2.3.1

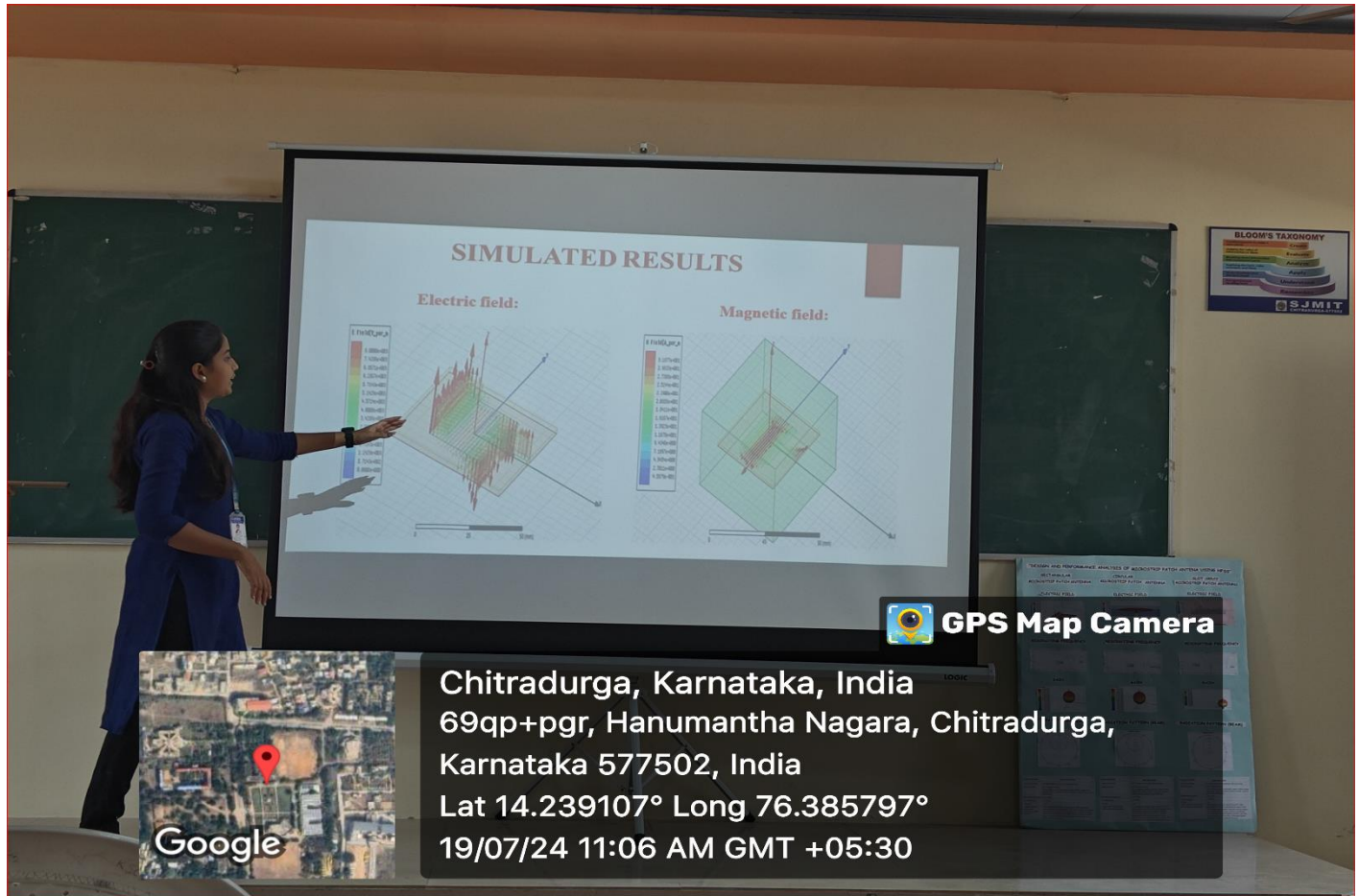
Academic Years: 2023-24

## SAMPLE REPORT OF SEMINARS GIVEN BY STUDENTS

**Subject:** Mini Project presentation

**Faculty Name:** Prof. Chethan S

**Class:** VI Semester



**Topic:** Design and performance analysis of microstrip patch antenna for wireless communication

**Student Name:** Nidhi V M

**USN:** 4SM21EC034

  
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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE REPORT OF SEMINARS GIVEN BY GUEST LECTURER



Chitradurga, Karnataka, India

69QP+PGR, Hanumantha Nagara, Chitradurga, Karnataka 577502, India

Lat 14.2391°

Long 76.385798°

20/11/23 11:06 AM GMT +05:30

Google

**Topic: "Cyber Security and its Applications"**

**Guast Name: Dr. Manjunatha P**

In-charge Principal,  
JNN College of Engineering,  
Shivamogga

  
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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF INDUSTRIAL VISIT

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
JNANA SANGAMA, BELAGAVI -590 014




**ACTIVITY**  
On  
**"TECHNICAL TRIP ON READY MIX CONCRETE PLANT"**  
*A report submitted in partial fulfillment of the requirements for the Award of  
Degree of*

**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

Submitted by  
**RITHIK P T**  
(4SM22CV412)

Submitted to  
**Prof. Hussain Imran K M**  
Asst Prof Dept. of Civil Engg  
SJMIT, Chitradurga



2023-2024

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S.J.M VIDYAPEETHA®  
**S.J.M INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF CIVIL ENGINEERING**  
(Affiliated to Visvesvaraya Technological University, Belagavi, Recognized by  
AICTE, New Delhi and Approved by Government of Karnataka)  
NAAC Accredited with 'B<sup>++</sup>' Grade  
P.B No.73, NH4 Bypass Road, Chitradurga – 577 502.





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Academic Years: 2023-24



  
 H.O.D  
 Head of the Dept,  
 Electronics & Commn. Engg  
 S.J.M.I.T.,  
 CHITRADURGA - 577502.

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



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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF LESSON PLAN

SJM Vidyapeetha (Regd.)

### **SRI JAGADGURU MALLIKARJUNA MURUGHARAJENDRA INSTITUTE OF TECHNOLOGY**

(Affiliated to Visvesvaraya Technological University, Belagavi, Recognised by AICTE, New Delhi & Approved by Government of Karnataka)

**P. B. No. 73, CHITRADURGA-577502, Karnataka State, INDIA**



### LESSON PLAN

|                       |   |
|-----------------------|---|
| DEPARTMENT :          | ELECTRONICS & COMMUNICATION ENGINEERING |
| NAME OF THE FACULTY : | RAGHU S                                 |
| SEMESTER :            | III, 'B' Section                        |
| SUBJECT :             | Network Analysis                        |
| SUBJECT CODE :        | BEC304                                  |

  
H.O.D  
Head of the Dept.  
Electronics & Commn. Engg  
S.J.M.I.T.,  
CHITRADURGA - 577502.





## LESSON PLAN & EXECUTION

|  |   |                                      |   |
|--|---|--------------------------------------|---|
| <b>Subject : Network Analysis</b>  |   | <b>Subject Code : BEC304</b>         |   |
| <b>Date of Commencement : 15/11/2023</b>   |   | <b>Last Working Day : 09/03/2024</b> |   |
| <b>Text Books, References and Source Materials Used For Lesson Plan &amp; Execution:</b> | <b>Text Books</b>   |                                      | <b>Reference Books:</b>   |
|  | <ol style="list-style-type: none"> <li>M.E.Van Valkenburg (2000), Network Analysis, Prentice Hall of India, 3rd edition, 2000, ISBN:9780136110958.</li> <li>Roy Choudhury-Networks and Systems, 2nd edition, New Age International Publications, 2006, ISBN: 9788122427677</li> </ol> |                                      | <ol style="list-style-type: none"> <li>Hayt, Kemmerly and Durbin-Engineering Circuit Analysis, TMH7th Edition, 2010.</li> <li>J.David Irwin/ R.Mark Nelms- Basic Engineering Circuit Analysis JohnWiley,8th,2006.</li> <li>Charles K Alexander and Mathew NO Sadiku-Fundamentals of Electric Circuits, Tata McGraw-Hill,3rd Ed,2009.</li> </ol> |

| PLAN    |          |                |   |                  | EXECUTION |                |   |                  |
|---------|----------|----------------|---|------------------|-----------|----------------|---|------------------|
| Sl. No. | Date     | Time           | Topics to be Planned  | Source materials | Date      | Time           | Topics Covered  | Source materials |
| 1       | 15/11/23 | 11:15<br>12:15 | <b>Bridge Course:</b> Discuss about Elements of Electric Circuits | 1,2              | 15/11/23  | 11:15<br>12:15 | Bridge course: Discuss about elements of Electric Circuits                    | 1,2              |
| 2       | 16/11/23 | 12:15<br>1:15  | <b>Bridge Course:</b> Discuss about Ohm's Law, KCL, KVL           | 1,2              | 16/11/23  | 12:15<br>1:15  | Bridge course: Discuss about ohm's Law, KCL, KVL,                             | 1,2              |
| 3       | 17/11/23 | 9:00<br>10:00  | <b>Bridge Course:</b> Discuss about Branches, Mesh, Node          | 1,2              | 17/11/23  | 9:00<br>10:00  | Bridge course: Discuss about Branches, Mesh, Node, current & voltage division | 1,2              |

| PLAN    |          |                |   |                  | EXECUTION |                |   |                  |
|---------|----------|----------------|---|------------------|-----------|----------------|---|------------------|
| Sl. No. | Date     | Time           | Topics to be Planned  | Source materials | Date      | Time           | Topics Covered  | Source materials |
| 4       | 21/11/23 | 12:15<br>1:15  | <b>Module-1</b><br><b>Basic Concepts:</b> Practical sources                             | 1,2              | 20/11/23  | 10:00<br>11:00 | Module-1:<br>Basic Concepts: Practical sources  | 1,2              |
| 5       | 22/11/23 | 11:15<br>12:15 | Source transformations with problems  | 1,2              | 21/11/23  | 12:15<br>1:15  | Source transformations with problems  | 1,2              |
| 6       | 24/11/23 | 9:00<br>10:00  | Network reduction using Star - Delta transformation derivation                          | 1,2              | 20/11/23  | 11:15<br>12:15 | Network reduction using Y-Δ to Δ-Y derivation   | 1,2              |
| 7       | 27/11/23 | 10:00-11:00    | Problems  | 1,2              | 24/11/23  | 10:00-11:00    | Problems  | 1,2              |
| 8       | 29/11/23 | 11:15<br>12:15 | Loop analysis with linearly independent sources for DC with problems                    | 1,2              | 27/11/23  | 10:00<br>11:00 | Loop analysis with linearly independent sources for DC with problems                    | 1,2              |
| 9       | 1/12/23  | 9:00<br>10:00  | Loop analysis with linearly dependent and independent sources for DC with problems      | 1,2              | 28/11/23  | 12:15<br>1:15  | Loop analysis with linearly dependent and independent sources for DC with problems      | 1,2              |
| 10      | 4/12/23  | 10:00<br>11:00 | Loop analysis with linearly dependent and independent sources AC networks with problems | 1,2              | 1/12/23   | 9:00<br>10:00  | Loop analysis with linearly dependent and independent sources AC networks with problems | 1,2              |
| 11      | 5/12/23  | 12:15<br>1:15  | Node analysis with linearly independent sources for DC with problems                    | 1,2              | 4/12/23   | 10:00<br>11:00 | Node analysis with linearly independent sources for DC with problems                    | 1,2              |
| 12      | 6/12/23  | 11:15<br>12:15 | Node analysis with linearly dependent and independent sources for DC with problems      | 1,2              | 5/12/23   | 12:15<br>1:15  | Node analysis with linearly dependent and independent sources for DC with problems      | 1,2              |
| 13      | 8/12/23  | 9:00<br>10:00  | Node analysis with linearly dependent and independent sources AC networks with problems | 1,2              | 6/12/23   | 11:15<br>12:15 | Node analysis with linearly dependent and independent sources AC networks with problems | 1,2              |
| 14      | 11/12/23 | 10:00-11:00    | Problems  | 1,2              | 8/12/23   | 9:00-10:00     | Problems  | 1,2              |





| PLAN    |          |                |  |                  | EXECUTION |                |  |                  |
|---------|----------|----------------|--|------------------|-----------|----------------|--|------------------|
| Sl. No. | Date     | Time           | Topics to be Planned   | Source materials | Date      | Time           | Topics Covered                                 | Source materials |
| 15      | 12/10/23 | 12:15<br>1:15  | <b>Module-2</b><br>Network Theorems:                                 | 1,2              | 11/10/23  | 10:00<br>11:00 | problems                                       | 1,2              |
| 16      | 15/12/23 | 09:00<br>10:00 | Superposition Theorems<br>derivation                                 | 1,2              | 12/12/23  | 12:15<br>1:15  | module-2. Network-theorems                     | 1,2              |
| 17      | 18/12/23 | 10:00-11:00    | Problems   | 1,2              | 13/12/23  | 11:15<br>12:15 | Superposition-theorems derivation              | 1,2              |
| 18      | 19/12/23 | 12:15<br>1:15  | Millman's theorems derivation  | 1,2              | 15/12/23  | 9:00<br>10:00  | problems                                       | 1,2              |
| 19      | 20/12/23 | 12:15<br>1:15  | Problems   | 1,2              | 18/12/23  | 10:00<br>11:00 | Millman's theorems derivation                  | 1,2              |
| 20      | 22/12/23 | 9:00<br>10:00  | Thevenin's theorems derivation                                       | 1,2              | 19/12/23  | 10:15<br>11:15 | problems                                       | 1,2              |
| 21      | 26/12/23 | 12:15<br>1:15  | Problems   | 1,2              | 20/12/23  | 11:15<br>12:15 | Thevenin's theorems derivation                 | 1,2              |
| 23      | 27/12/23 | 11:15-12:15    | Norton's theorems derivation   | 1,2              | 26/12/23  | 12:15<br>1:15  | problems                                       | 1,2              |
| 24      | 29/12/23 | 9:00<br>10:00  | Problems   | 1,2              | 27/12/23  | 11:15<br>12:15 | Norton's theorems derivation                   | 1,2              |
| 25      | 11/1/24  | 10:00<br>11:00 | Maximum Power transfer theorem<br>derivation                         | 1,2              | 29/12/23  | 9:00<br>10:00  | problems                                       | 1,2              |
| 26      | 3/1/24   | 12:15-1:15     | Problems   | 1,2              | 2/1/24    | 10:00<br>11:00 | problems                                       | 1,2              |
| 27      | 3/1/24   | 11:15<br>12:15 | <b>Module-4</b><br><b>Laplace Transformation &amp; Applications:</b> | 1,2              | 3/1/24    | 11:15<br>12:15 | maximum power transfer theorem derivation      | 1,2              |
| 28      | 5/1/24   | 9:00<br>10:00  | Solution of networks with<br>Problems                                | 1,2              | 8/1/24    | 10:00<br>11:00 | problems                                       | 1,2              |
| 29      | 8/1/24   | 10:00-11:00    | Problems   | 1,2              | 9/1/24    | 12:15<br>1:15  | problems                                       | 1,2              |
| 30      | 9/1/24   | 12:15<br>1:15  | Step, ramp and impulse<br>responses                                  | 1,2              | 10/1/24   | 9:00<br>10:00  | module-4: Laplace Transformation & Application | 1,2              |
| 31      | 10/1/24  | 11:15-12:15    | Problems   | 1,2              | 22/1/24   | 10:00<br>11:00 | Solution of networks                           | 1,2              |
| 32      | 12/1/24  | 9:00-10:00     | Waveform Synthesis   | 1,2              | 23/1/24   | 11:15<br>12:15 | problems                                       | 1,2              |
| 33      | 16/1/24  | 12:15-1:15     | Problems   | 1,2              | 24/1/24   | 10:00<br>11:00 | problems                                       | 1,2              |
| 34      | 17/1/24  | 11:15-12:15    | Problems   | 1,2              |           |                |  |                  |

| PLAN    |         |                      |  |                  | EXECUTION |                |  |                  |
|---------|---------|----------------------|--|------------------|-----------|----------------|--|------------------|
| Sl. No. | Date    | Time                 | Topics to be Planned   | Source materials | Date      | Time           | Topics Covered   | Source materials |
| 35      | 22/1/24 | 10:00<br>11:00       | <b>Module-5</b><br><b>Resonance: Series Resonance:</b>   | 1,2              | 29/1/24   | 10:00<br>11:00 | step, ramp, impulse response, problems                                   | 1,2              |
| 36      | 23/1/24 | 12:15<br>1:15        | Variation of Current and Voltage<br>with Frequency, Selectivity and<br>Bandwidth,  | 1,2              | 30/1/24   | 12:15<br>1:15  | Initial value theorem<br>Final value theorem<br>problems                 | 1,2              |
| 37      | 24/1/24 | 11:15<br>to<br>12:15 | Q-Factor, Circuit Magnification<br>Factor, Selectivity with Variable<br>Capacitance, Selectivity with<br>Variable Inductance | 1,2              | 2/2/24    | 9:00<br>10:00  | wave form synthesis<br>, problems  | 1,2              |
| 38      | 27/1/24 | 10:00<br>11:00       | <b>Parallel Resonance:</b> Selectivity and<br>Bandwidth, Maximum Impedance<br>Conditions with C, L and f Variable            | 1,2              | 5/2/24    | 10:00<br>11:00 | module-5: Resonance<br>Series Resonance,<br>Variation of I, V, f, Q, BW  | 1,2              |
| 39      | 2/2/24  | 9:00<br>10:00        | Current in Anti-Resonant Circuit,<br>The General Case-Resistance<br>Present in both Branches.                                | 1,2              | 6/2/24    | 12:15<br>1:15  | Derivation $f_0 = \frac{1}{\sqrt{LC}}$<br>$BW = \frac{f_0}{Q}$ , $Q_0$ , | 1,2              |
| 40      | 5/2/24  | 10:00<br>11:00       | <b>Two port network parameters:</b><br>Definition of Z, Y, h and<br>Transmission parameters with<br>Problems                 | 1,2              | 7/2/24    | 11:15<br>12:15 | Problems on Series<br>Resonance  | 1,2              |
| 41      | 6/2/24  | 12:15<br>1:15        | Z, Y parameters Modelling with<br>these parameters with Problems   | 1,2              | 9/2/24    | 9:00<br>10:00  | Parallel Resonance:<br>variation of I, V, f, Q, BW                       | 1,2              |
| 42      | 7/2/24  | 11:15<br>12:15       | h and Transmission parameters<br>Modelling with these parameters<br>with Problems  | 1,2              | 13/2/24   | 10:00<br>11:00 | Practical Resonance<br>Derivations -                                     | 1,2              |



| Sl. No. | PLAN    |                |  |                  | EXECUTION          |                                 |  |                  |
|---------|---------|----------------|--|------------------|--------------------|---------------------------------|--|------------------|
|         | Date    | Time           | Topics to be Planned   | Source materials | Date               | Time                            | Topics Covered   | Source materials |
| 43      | 12/2/24 | 10:00<br>11:00 | <b>Module-3</b><br>Transient behavior and initial conditions:                                    | 1,2              | 13/2/24<br>14/2/24 | 12:15<br>1:15<br>11:15<br>12:15 | Parallel Resonance problems<br>Practical Problems                                | 1,2              |
| 44      | 13/2/24 | 10:15<br>1:15  | Behavior of circuit elements under switching condition and their Representation                  | 1,2              | 15/2/24            | 9:00<br>10:00                   | Module-3<br>Transient behavior and initial conditions                            | 1,2              |
| 45      | 14/2/24 | 11:15<br>12:15 | Problems   | 1,2              | 16/2/24            | 10:00<br>11:00                  | Behavior of circuit element under switching condition                            | 1,2              |
| 46      | 16/2/24 | 9:00<br>10:00  | Evaluation of initial and final conditions in RL, RC and RLC circuits for AC.                    | 1,2              | 20/2/24            | 12:15<br>1:15                   | Problems<br>Evaluation of initial and final conditions in RL, RC, and RLC for AC | 1,2              |
| 47      | 19/2/24 | 10:00<br>11:00 | Problems   | 1,2              | 21/2/24            | 11:15<br>12:15                  | Problems   | 1,2              |
| 48      | 20/2/24 | 12:15<br>1:15  | Evaluation of initial and final conditions in RL, RC and RLC circuits for AC and DC excitations. | 1,2              | 23/2/24<br>26/2/24 | 9:00<br>10:00<br>10:00<br>11:00 | Evaluation of initial and final conditions in RL, RC and RLC for AC & DC         | 1,2              |
| 49      | 21/2/24 | 11:15<br>12:15 | Problems   | 1,2              | 27/2/24            | 12:15<br>1:15                   | Problems   | 1,2              |
| 50      | 23/2/24 | 9:00<br>10:00  | Problems   | 1,2              | 28/2/24            | 11:15<br>12:15                  | Problems   | 1,2              |

| Other Academic Particulars                | Planned                  |          |                        | Actual      |                      |          | Remarks |
|---|--------------------------|----------|------------------------|-------------|----------------------|----------|---------|
| Special Classes :                         | 05                       |          |                        | 03          |                      |          |         |
| Tutorials :                               | -                        |          |                        | -           |                      |          |         |
| Assignments :                             | 02                       |          |                        | 02          |                      |          |         |
| I.A. Tests Date & Time :                  | I Test                   | II Test  | III Test               | I Test      | II Test              | III Test |         |
|   | 27/12/23                 | 23/01/24 |                        | 18/01/2024  | 05/03/2024           |          |         |
| Portions covered in the entire semester : | 5 Modules                |          |                        | 4.8 modules |                      |          |         |
| <b>Course Effectiveness</b>               |                          |          |                        |             |                      |          |         |
| Students Feed Back :                      | 3.73                     |          |                        |             |                      |          |         |
| Students Response :                       | Good                     |          |                        |             |                      |          |         |
| Result :                                  | No. of Students appeared |          | No. of Students Passed |             | Percentage of Result |          |         |
|   | 93                       |          | 45                     |             | 48.38                |          |         |

*S. Raju..*  
Signature of the Faculty In - Charge

*[Signature]*  
Signature of the HOD

*[Signature]*  
PRINCIPAL  
Signature of the Principal





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### Assignment -I

|                                 |                         |                                     |   |  |  |
|---------------------------------|-------------------------|-------------------------------------|---|--|--|
| <b>Department: ECE</b>          |                         |                                     | <b>Name of the faculty: Jayadev R S</b>   |  |  |
| <b>Course Title: CO&amp;ARM</b> |                         |                                     | <b>Course Code : 21EC52</b>               |  |  |
| <b>Semester :V</b>              | <b>Section: A&amp;B</b> | <b>Date of assignment: 2-1-2024</b> | <b>Last date for submission:11-1-2024</b> |  |  |

| Q.No. | QUESTIONS  | Marks | CL | CO | PO      | PSO |
|-------|--|-------|----|----|---------|-----|
| 1     | Explain the basic operation of concepts of computer with neat diagram. | 10    | R  | 1  | 1,3     | 1   |
| 2     | Explain single bus architecture.                                       | 10    | R  | 1  | 1,3,4   | -   |
| 3     | Explain the basic performance equation.                                | 10    | R  | 1  | 1,2,3,4 | 1   |
| 4     | Explain the access of I/O devices.                                     | 10    | U  | 2  | 2,3,4   | 1   |
| 5     | Explain the Interrupt Hardware.  | 10    | U  | 2  | 1,3,4   | 1   |
| 6     | Define DMA. Explain the operation DMA transfer.                        | 10    | U  | 2  | 1,3,4   | 1   |
| 7     | Explain the centralized arbitration.                                   | 10    | U  | 2  | 1,3,4   | 1   |
| 8     | Explain the interfacing of keyboard to processor.                      | 10    | U  | 2  | 1,2,3,4 | 1   |
| 9     | Explain the PCI bus.   | 10    | U  | 2  | 1,2,3,4 | 1   |
| 10    | Explain the concept & working of USB.                                  | 10    | U  | 2  | 1,2,3,4 | 1   |

**(CL) Cognitive Level**

**(R):** Remembering, **(U):** Understanding, **(Ap):** Apply, **(A):** Analysis, **(E):** Evaluation, **(C):** Creation.

#### COURSE OUTCOMES (COs) COVERED

**CO1:** Basic organization of a computer system

**CO2:** Functioning of different sub systems, such as processor, Input/output, and memory

**Note: Submit the assignment in A4 size sheets with cover page.**

  
Academic Coordinator

  
HOD





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### Assignment -I

|                      |              |                              |                                    |  |  |
|----------------------|--------------|------------------------------|------------------------------------|--|--|
| Department: ECE      |              |                              | Name of the faculty: Jayadev R S   |  |  |
| Course Title: CO&ARM |              |                              | Course Code : 21EC52               |  |  |
| Semester :V          | Section: A&B | Date of assignment: 4-3-2024 | Last date for submission:16-3-2024 |  |  |

| Q.No. | QUESTIONS   | Marks | CL | CO | PO      | PS O |
|-------|---|-------|----|----|---------|------|
| 1     | Explain ARM-based embedded device with neat diagram.  | 10    | U  | 3  | 1,3,4   | -    |
| 2     | Explain the AMBA bus protocol.  | 10    | U  | 3  | 3,4     | -    |
| 3     | Explain the components of embedded system software.   | 10    | U  | 3  | 1,2,3,4 | 1    |
| 4     | Explain the ARM core dataflow model with block diagram.   | 10    | U  | 3  | 1,3,4   | 1    |
| 5     | Explain the CPSR of ARM Processor.  | 10    | U  | 3  | 1,3     | 1    |
| 6     | Define pipeline. Explain the concept of pipelining.   | 10    | U  | 3  | 1,3     | 1    |
| 7     | Explain the data processing Instructions of ARM processor.  | 10    | U  | 4  | 1,3     | 1    |
| 8     | Explain the stack instructions in THUMB ISA.  | 10    | U  | 4  | 1,2,3,4 | 1,3  |
| 9     | Explain Basic C Data Types.   | 10    | U  | 5  | 1,2,3,4 | 1,3  |
| 10    | Explain the following relate C looping structures.<br>(i) Loops with a Fixed Number of Iterations<br>(ii) Loops Using a Variable Number of Iterations<br>(iii) Loop Unrolling | 10    | U  | 5  | 1,2,3,4 | 1,3  |

**(CL)** Cognitive Level

**(R):** Remembering, **(U):** Understanding, **(Ap):** Apply, **(A):** Analysis, **(E):** Evaluation, **(C):** Creation.

#### COURSE OUTCOMES (COs) COVERED

**CO3:** Explain ARM design philosophy, embedded system hardware and ARM processor fundamentals.

**CO4:** Describe the instructions set of ARM processor.

**CO5:** Apply the knowledge gained for Programming ARM processor for different applications.

**Note:** 1. Submit the assignment in A4 size sheets with cover page.

2. CO & ARM IPCC lab programs may appear in SEE Examination.

  
Academic Coordinator

  
HOD



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Department of Electronics & Communication Engg.  
S.J.M.I.T., Chitradurga - 577502

17

Assignment submission report  
V SemSUB: CO & ARM  
Sub Code: 21EC52

| Sl No. | USN        | Name                  | assignment1 | assignment2 | Average | Sign           |
|--------|------------|-----------------------|-------------|-------------|---------|----------------|
| 1      | 4SM20EC030 | AJAY R                | 10          | 10          | 10      | Jay R          |
| 2      | 4SM21EC002 | ABHISHEK G B          | 10          | 10          | 10      | Abhi           |
| 3      | 4SM21EC003 | AISHWARYA C K         | 10          | 10          | 10      | Aishwarya      |
| 4      | 4SM21EC004 | AKASH S KADEMANE      | 10          | 10          | 10      | Akash          |
| 5      | 4SM21EC005 | AKSHA KEERTHANA C A   | 10          | 10          | 10      | Aksha          |
| 6      | 4SM21EC006 | AMBIKA H              | 10          | 10          | 10      | Ambika.H       |
| 7      | 4SM21EC007 | AMULYA K              | 10          | 10          | 10      | Amulya         |
| 8      | 4SM21EC008 | AYISHA SIDDIQA        | 10          | 10          | 10      | Ayisha         |
| 9      | 4SM21EC009 | BALAJI B R            | 10          | 10          | 10      | Balaji.B.R.    |
| 10     | 4SM21EC010 | BHAGYALAKSHMI KAMBALI | 10          | 10          | 10      | Bhagyalakshmi  |
| 11     | 4SM21EC011 | CHEZHAN KUMAR P       | 10          | 10          | 10      | Chethan        |
| 12     | 4SM21EC012 | DEEPIKA D             | 10          | 10          | 10      | Deepika        |
| 13     | 4SM21EC013 | DEEPTHI T R           | 10          | 10          | 10      | Deepthi        |
| 14     | 4SM21EC014 | DEVIKA S              | 10          | 10          | 10      | Devika S       |
| 15     | 4SM21EC015 | DILEEP R PAWAR        | 10          | 10          | 10      | Dileep R Pawar |
| 16     | 4SM21EC016 | DIVYA B S             | 10          | 10          | 10      | Divya.B.S      |
| 17     | 4SM21EC018 | HARSHA B K            | 10          | 10          | 10      | Harsha.B.K.    |
| 18     | 4SM21EC019 | HARSHITHA B           | 10          | 10          | 10      | Harshitha      |
| 19     | 4SM21EC020 | HARSHITHA G K         | 10          | 10          | 10      | Harshitha      |
| 20     | 4SM21EC021 | HEMA B T              | 10          | 10          | 10      | Hema           |
| 21     | 4SM21EC022 | HIMA J                | 10          | 10          | 10      | Hima           |
| 22     | 4SM21EC023 | JAGADISH R            | 10          | 10          | 10      | Jagadish R     |
| 23     | 4SM21EC024 | JYOTHIBAI S           | 10          | 10          | 10      | Jyothibai S    |
| 24     | 4SM21EC025 | KARTHIK L G           | 10          | 10          | 10      | Karthik L G    |
| 25     | 4SM21EC026 | LIKHITH K J           | 10          | 10          | 10      | Likhith        |
| 26     | 4SM21EC027 | MANUPRIYA P           | 10          | 10          | 10      | Manupriya P    |
| 27     | 4SM21EC028 | MATHURA YADAV P V     | 10          | 10          | 10      | Mathura        |
| 28     | 4SM21EC030 | MOINUDDIN T A         | 10          | 10          | 10      | Moinuddin      |
| 29     | 4SM21EC031 | NANDAN KUMAR V        | 10          | 10          | 10      | Nandan         |
| 30     | 4SM21EC032 | NANDINI M H           | 10          | 10          | 10      | Nandini        |
| 31     | 4SM21EC033 | NAVEEN S T            | 10          | 10          | 10      | Naveen S.T     |
| 32     | 4SM21EC034 | NIDHI V M             | 10          | 10          | 10      | Nidhi          |
| 33     | 4SM21EC035 | NIKHITHA P H          | 10          | 10          | 10      | Nikhitha       |
| 34     | 4SM21EC036 | NITHIN KUMAR K N      | 10          | 10          | 10      | Nithin         |
| 35     | 4SM21EC037 | NITIN D               | 10          | 10          | 10      | Nitin D        |
| 36     | 4SM21EC038 | PALLAVI S A           | 10          | 10          | 10      | Pallavi        |





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|    |            |                    |                    |          |    |             |  |
|----|------------|--------------------|--------------------|----------|----|-------------|--|
| 37 | 4SM21EC039 | PARVATHI C M       | 10                 | 10       | 10 | Parvathi    |  |
| 38 | 4SM21EC040 | PAVITHRA R         | 10                 | 10       | 10 | Pavithra    |  |
| 39 | 4SM21EC041 | POORNIMA T         | 10                 | 10       | 10 | Poornima    |  |
| 40 | 4SM21EC043 | PRUTHVIRAJ G       | 10                 | 10       | 10 | Pruthviraj  |  |
| 41 | 4SM21EC044 | PURUSHOTHAM T P    | 10                 | 10       | 10 | Purushotham |  |
| 42 | 4SM21EC045 | RAGHU R            | 10                 | 10       | 10 | Raghu       |  |
| 43 | 4SM21EC046 | RAMYA R            | 10                 | 10       | 10 | Ramya       |  |
| 44 | 4SM21EC047 | ROOPA G D          | 10                 | 10       | 10 | Roopa       |  |
| 45 | 4SM21EC048 | SANGEETHA M R      | 10                 | 10       | 10 | Sangeetha   |  |
| 46 | 4SM21EC049 | SANIYA B           | 10                 | Detained |    |             |  |
| 47 | 4SM21EC050 | SATHISH H          | 10                 | 10       | 10 | Sathish     |  |
| 48 | 4SM21EC051 | SATHISHA K         | 10                 | 10       | 10 | Sathisha    |  |
| 49 | 4SM21EC052 | SHAIENDRA S        | 10                 | 10       | 10 | Shaiendra   |  |
| 50 | 4SM21EC053 | SHIVANANDA GOWDA B | 10                 | 10       | 10 | Shivananda  |  |
| 51 | 4SM21EC054 | SNEHA B            | 10                 | 10       | 10 | Sneha       |  |
| 52 | 4SM21EC055 | SNEHA M            | 10                 | 10       | 10 | Sneha       |  |
| 53 | 4SM21EC057 | SUHAS P M          | 10                 | 10       | 10 | Suhas       |  |
| 54 | 4SM21EC058 | SUJITH G R         | 10                 | 10       | 10 | Sujith      |  |
| 55 | 4SM21EC059 | SUNIL R            | 10                 | 10       | 10 | Sunil       |  |
| 56 | 4SM21EC060 | TANUSHREE S        | 10                 | 10       | 10 | Tanushree   |  |
| 57 | 4SM21EC061 | THANUSHREE K V     | 10                 | 10       | 10 | Thanushree  |  |
| 58 | 4SM21EC062 | THANUSHREE M       | 10                 | 10       | 10 | Thanushree  |  |
| 59 | 4SM21EC063 | VAISHNAVI M M      | 10                 | 10       | 10 | Vaishnavi   |  |
| 60 | 4SM21EC064 | VARSHA D           | 10                 | 10       | 10 | Varsha      |  |
| 61 | 4SM21EC066 | VINAY M S          | 10                 | 10       | 10 | Vinay       |  |
| 62 | 4SM21EC067 | YASHASWINI H M     | 10                 | 10       | 10 | Yashaswini  |  |
| 63 | 4SM21EC068 | YASHAWANTH M       | 10                 | 10       | 10 | Yashawanth  |  |
| 64 | 4SM21EC069 | ZAIBA BANU Z       | 10                 | 10       | 10 | Zaiba       |  |
| 65 | 4SM22EC400 | AMEER AHAMED       | Chosen for college |          |    |             |  |
| 66 | 4SM22EC401 | ANUSHA C           | 10                 | 10       | 10 | Anusha      |  |
| 67 | 4SM22EC402 | ANUSHA S Y         | 10                 | 10       | 10 | Anusha      |  |
| 68 | 4SM22EC403 | AYESHA SIDDIQA A   | 10                 | 10       | 10 | Ayesha      |  |
| 69 | 4SM22EC404 | CHANDAN M L        | 10                 | 10       | 10 | Chandan     |  |
| 70 | 4SM22EC405 | CHANDANA U         | 10                 | 10       | 10 | Chandana    |  |
| 71 | 4SM22EC406 | DADHAM NIKHITHA    | 10                 | 10       | 10 | Nikhitha    |  |
| 72 | 4SM22EC407 | DEEPIKA T R        | 10                 | 10       | 10 | Deepika     |  |
| 73 | 4SM22EC408 | GAGAN H R          | 10                 | 10       | 10 | Gagan       |  |
| 74 | 4SM22EC409 | GANESH V           | 08                 | 10       | 10 | Ganesh      |  |
| 75 | 4SM22EC410 | KARTHIK N          | 10                 | 10       | 10 | Karthik     |  |
| 76 | 4SM22EC411 | KAVYA P            | 10                 | 10       | 10 | Kavya       |  |





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|    |            |                |    |    |    |               |
|----|------------|----------------|----|----|----|---------------|
| 77 | 4SM22EC412 | KOUSALYA N     | 10 | 10 | 10 | Kousalya, N   |
| 78 | 4SM22EC413 | LOKESHNAIK N V | 10 | 10 | 10 | Lokesh        |
| 79 | 4SM22EC414 | MADHUKESHAVA M | 10 | 10 | 10 | Madhukeshava  |
| 80 | 4SM22EC415 | MAHESH V       | 10 | 10 | 10 | Mahesh V      |
| 81 | 4SM22EC416 | MANJUNATHA T   | 10 | 10 | 10 | Manjunatha    |
| 82 | 4SM22EC417 | POOJA B        | 10 | 10 | 10 | Pooja B       |
| 83 | 4SM22EC418 | PREETHAM Y G   | 10 | 10 | 10 | Preetham Y G  |
| 84 | 4SM22EC419 | PRIYANKA N     | 10 | 10 | 10 | Priyanka N    |
| 85 | 4SM22EC420 | RANJITHA A K   | 10 | 10 | 10 | Ranjitha A K  |
| 86 | 4SM22EC421 | SIDDESH T M    | 10 | 10 | 10 | Siddesh T M   |
| 87 | 4SM22EC422 | SNEHA A        | 10 | 10 | 10 | Sneha A       |
| 88 | 4SM22EC423 | SOWMYA B       | 10 | 10 | 10 | Sowmya B      |
| 89 | 4SM22EC424 | SREENIVASA R   | 10 | 10 | 10 | Sreenivasa R  |
| 90 | 4SM22EC425 | SRINIVASA K R  | 10 | 10 | 10 | Srinivasa K R |
| 91 | 4SM22EC426 | SUFIYA MUSKAN  | 10 | 10 | 10 | Sufiya muskan |
| 92 | 4SM22EC427 | USHA R         | 10 | 10 | 10 | Usha R        |
| 93 | 4SM22EC428 | VASANTH V      | 10 | 10 | 10 | Vasanth V     |
| 94 | 4SM22EC429 | ZUVERIYA M     | 10 | 10 | 10 | Zuveriya M    |

Faculty In-charge

H.O.D  
Head of the Dept.  
Electronics & Commn. Engg  
S.J.M.I.T.,  
CHITRADURGA - 577502.

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



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## SAMPLE COPY OF QUIZ AND MARKS ALLOCATION



29/02/2024, 12:30

Quiz: Network Analysis (BEC304)

## Quiz: Network Analysis (BEC304)

III semester, E&CE department, SJMIT, Chitradurga, conducted on 5th February 2024

\* Indicates required question

1. Email \*

\_\_\_\_\_

2. USN: \*

\_\_\_\_\_

3. Student Name \*

Kindly write in capital letters

\_\_\_\_\_

4. Section \*

Mark only one oval.

A

B

5. 1. By using source transformation voltage source in series resistor is replaced by \_\_\_\_\_ \*

1 point

Mark only one oval.

Voltage source in series with a resistor

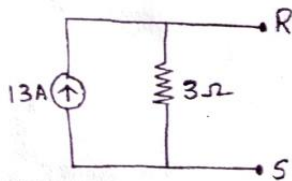
Current source in parallel with a resistor

Voltage source in parallel with a resistor

Current source in series with a resistor

6. 2. Using source transformation, calculate the voltage terminals R S. \*

1 point



Mark only one oval.

4.33V

39V

0.230V

36V

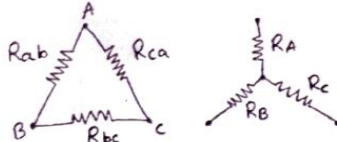




24, 12:30

Quiz: Network Analysis (BEC304)

7. 3.  $R_{ab}$  is the resistance between the terminals A and B,  $R_{bc}$  between B and C and  $R_{ca}$  between C and A. \* 1 point  
These 3 resistors are connected in delta connection. After transforming to star, the resistance at A will be?



Mark only one oval.

- $R_{ab} \cdot R_{ac} / (R_{ab} + R_{bc} + R_{ca})$   
  $R_{ab} / (R_{ab} + R_{bc} + R_{ca})$   
  $R_{bc} \cdot R_{ac} / (R_{ab} + R_{bc} + R_{ca})$   
  $R_{ac} / (R_{ab} + R_{bc} + R_{ca})$

8. 4. Mesh analysis is generally used to determine \_\_\_\_\_. \* 1 point

Mark only one oval.

- Voltage  
 Current  
 Resistance  
 Power

9. 5. A supermesh is created if \* 1 point

Mark only one oval.

- a voltage source is common to two loops  
 a current source is common to two loops  
 a current source is common to two nodes  
 a voltage source is common to two nodes

10. 6. A supernode is created if \* 1 point

Mark only one oval.

- a voltage source is common to two loops  
 a current source is common to two loops  
 a current source is common to two nodes  
 a voltage source is common to two nodes



29/02/2024, 12:30

Quiz: Network Analysis (BEC304)

11. 7. Three equal resistances are connected in star. If this star is converted into equivalent delta, the resistance of both the networks will be..... \* 1 point

Mark only one oval.

- Equal  
 Zero  
 Vive-versa  
 None of the above

12. 8. Superposition theorem requires as many circuits to be solved as there are \* 1 point

Mark only one oval.

- Loops  
 Nodes  
 Sources  
 None of the above

13. 9. Millman's theorem is applicable during determination of \* 1 point

Mark only one oval.

- Load current in a network of generators and impedances with two output terminals.  
 Load conditions for maximum power transfer.  
 Dual of a network.  
 Load current in a network with more than one voltage source

14. 10. Application of Thevenin's theorem in a circuit results in \* 1 point

Mark only one oval.

- a voltage source and an impedance in series  
 a current source and an impedance parallel  
 an ideal current source  
 an ideal voltage source

15. 11. Application of Norton's theorem in a circuit results in \* 1 point

Mark only one oval.

- an ideal current source  
 an ideal voltage source  
 a voltage source and an impedance in series  
 a current source and an impedance in parallel



24, 12:30

Quiz: Network Analysis (BEC304)

16. 12. While calculating  $R_{th}$  in Thevenin's theorem and Norton equivalent \* 1 point

Mark only one oval.

- all independent sources are made dead
- only current sources are made dead
- only voltage sources are made dead
- all voltage and current sources are made dead

17. 13. As  $X_L = X_C$  in a series resonance circuit, the impedance is \_\_\_\_\_ \* 1 point

Mark only one oval.

- purely capacitive
- purely inductive
- purely resistive
- capacitive and inductive

18. 14. The circuit is said to be in resonance if the current is \_\_\_\_ with the applied voltage \* 1 point

Mark only one oval.

- in phase
- out of phase
- $45^\circ$  out of phase
- $90^\circ$  out of phase

19. 15. The power factor is unity for the \_\_\_\_\_ resonant circuit \* 1 point

Mark only one oval.

- Series
- Parallel
- both a & b
- none is correct

20. 16. How do the series resonant circuit behave under the resonance condition? \* 1 point

Mark only one oval.

- Current amplifier
- Transconductance
- Voltage regulator
- Voltage amplifier





29/02/2024, 12:30 Quiz: Network Analysis (BEC304)

21. 17. The expression of resonant frequency  $f_0$  in a series resonant circuit is \* 1 point

Mark only one oval.

$1/(2\pi\sqrt{C})$

$1/(2\pi\sqrt{L})$

$2\pi\sqrt{LC}$

$1/(2\pi\sqrt{LC})$

22. 18. Current at resonance in a series circuit is \_\_\_\_\_ and in a parallel circuit is \_\_\_\_\_ \* 1 point

Mark only one oval.

Minimum, maximum

Maximum, minimum

Maximum, maximum

Minimum, minimum

23. 19. The phenomena of resonance is used in a \* 1 point

Mark only one oval.

Radio

Capacitor

Transformer

Amplifier

24. 20. Laplace transform changes the \_\_\_\_ domain function to the \_\_\_\_ domain function. \* 1 point

Mark only one oval.

time, time

time, frequency

frequency, time

frequency, frequency

25. 21. The Laplace transform of the unit function  $u(t)$  is given by \* 1 point

Mark only one oval.

$1/s$

$1/(s^2)$

$s$

$1$

12.3 26. 22. Mark



24. 12:30

Quiz: Network Analysis (BEC304)

26. 22. Find the Laplace transform of  $\delta(t)$ . \*

1 point

Mark only one oval.

- 1/s  
 0  
 s  
 1

27. 23. If  $F(s)$  is the Laplace Transform of function  $f(t)$ , then L.T of  $df(t)/dt$  is \*

1 point

Mark only one oval.

- 1/s F(s)  
 0  
 sF(s) - f(0)  
 1

28. 24. If the Laplace transform of function  $f(t)$  is given by  $(s+3)/(s+1)(s+2)$ , then  $f(0)$  is \*

1 point

Mark only one oval.

- 32  
 12  
 0  
 1

29. 25. If the Laplace transform of function  $f(t)$  is given by  $(s+8)/s(s+2)$ , then  $f(\infty)$  is \*

1 point

Mark only one oval.

- 32  
 4  
 0  
 1

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| SI No | USN           | Students Name           | Marks   | Section |
|-------|---------------|-------------------------|---------|---------|
| 1     | 4SM22EC072    | SUSHMITHA R             | 23 / 25 | A       |
| 2     | 4SM22EC023    | KANAKA .S               | 25 / 25 | A       |
| 3     | 4sm22ec025    | KEERTHANA M L           | 25 / 25 | A       |
| 4     | 4SM22EC011    | CLERA GEORGE            | 25 / 25 | A       |
| 5     | 4SM22EC048    | REHANA BANU             | 23 / 25 | A       |
| 6     | 4SM22EC006    | ARUNA G                 | 21 / 25 | A       |
| 7     | 4sm22ec035    | MURALI MADAKARI D T     | 21 / 25 | A       |
| 8     | 4SM22EC078    | VASUDEV M.N.            | 25 / 25 | B       |
| 9     | 4sm22Ec083    | MITHIL S J              | 22 / 25 | B       |
| 10    | 4SM22EC015    | DHANUSHA S              | 23 / 25 | A       |
| 11    | 4SM22EC058    | SHIVA KUMAR B N         | 23 / 25 | B       |
| 12    | 4SM22EC049    | RUCHITHA D K            | 23 / 25 | B       |
| 13    | 4SM22EC069    | SURYA HK                | 23 / 25 | B       |
| 14    | Lateral       | CHIRANTH KT             | 22 / 25 | B       |
| 15    | 4SM22EC056    | SHAILA N                | 23 / 25 | B       |
| 16    | 4sm22ec016    | DISHA C                 | 25 / 25 | A       |
| 17    | 4SM22EC037    | NAJMA BANU              | 24 / 25 | A       |
| 18    | 4SM22EC062    | SINDHU                  | 19 / 25 | B       |
| 19    | 4SM22EC073    | SWATHI V S              | 24 / 25 | B       |
| 20    | 4SM22EC051    | S T HEMANTH RAJ         | 23 / 25 | B       |
| 21    | 4sm22ec053    | SAMUDA                  | 21 / 25 | B       |
| 22    | 4SM22EC081    | VISHNU B                | 24 / 25 | B       |
| 23    | 4SM22EC027    | KSHAMA N S              | 24 / 25 | A       |
| 24    | 4sm22ec034    | MONISHA Y S             | 24 / 25 | A       |
| 25    | 4SM22EC047    | RASHMI N                | 24 / 25 | A       |
| 26    | 4SM23EC       | LIKHITH                 | 22 / 25 | B       |
| 27    | 4SM22EC041    | PRIYANKA.N              | 25 / 25 | A       |
| 28    | 4SM22EC002    | Ajith Ningappa Jayagond | 25 / 25 | A       |
| 29    | Lateral entry | Mohammed Ali jb         | 23 / 25 | B       |
| 30    | 4SM22EC010    | CHANDANA M              | 25 / 25 | A       |
| 31    | 4SM22EC024    | KARTHIK.S               | 19 / 25 | A       |
| 32    | 4SM22EC066    | SRUSHTI. P. S           | 25 / 25 | B       |
| 33    | 4SM22EC046    | RANJITHA B H            | 21 / 25 | B       |
| 34    | 4SM22EC033    | MANOJ GOWDA B S         | 25 / 25 | A       |
| 35    | 4SM22EC043    | RAKSHA UL               | 25 / 25 | A       |
| 36    | 4SM22EC060    | SHREYA H E              | 24 / 25 | B       |
| 37    | 4SM22EC045    | RAKSHITHA R             | 25 / 25 | B       |
| 38    | 4SM22EC071    | SUSHMITHA D             | 25 / 25 | B       |
| 39    | 4SM22EC068    | SRUSTI.S.R              | 25 / 25 | B       |
| 40    | 4SM22EC074    | SYEDA BI BI AYESHA      | 24 / 25 | B       |
| 41    | 4SM22EC019    | JEEVANKUMAR A T         | 22 / 25 | A       |
| 42    | 4SM22EC020    | JEEVAN.S.S              | 25 / 25 | A       |



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Academic Years: 2023-24

|    |            |                       |         |   |
|----|------------|-----------------------|---------|---|
| 43 | 4SM22EC052 | SAI KIRAN P           | 24 / 25 | B |
| 44 | 4SM22EC077 | VARSHITHA N N         | 18 / 25 | B |
| 45 | 4SM22EC038 | NAVEEN KUMAR G R      | 25 / 25 | A |
| 46 | 4SM22EC054 | SANDHYA S             | 25 / 25 | B |
| 47 | 4SM22EC005 | ANKITHA. K            | 25 / 25 | A |
| 48 | 4SM22EC063 | SNEHA.S               | 25 / 25 | B |
| 49 | 4SM22EC064 | SOUNDARYA A           | 25 / 25 | B |
| 50 | 4SM22EC070 | SUSHMITA              | 22 / 25 | B |
| 51 | 4SM22EC061 | SHWETHA K R           | 21 / 25 | B |
| 52 | 4SM22EC055 | SHABAZ KHAN           | 20 / 25 | B |
| 53 | 4SM22EC040 | PRIYANKA.B            | 24 / 25 | A |
| 54 | 4SM22EC018 | HIMA SHREE M          | 24 / 25 | A |
| 55 | 4 Sm 23EC  | SAGAR. S              | 24 / 25 | B |
| 56 | 4SM23EC    | ABISHEK M             | 25 / 25 | B |
| 57 | 4SM22EC022 | K S KEERTHANA         | 19 / 25 | A |
| 58 | 4SM22EC065 | SRI NIDHIR            | 21 / 25 | B |
| 59 | 4SM22EC032 | MANOJ G R             | 25 / 25 | A |
| 60 | 4SM23EC    | THIPPESHA P           | 25 / 25 | B |
| 61 | 4SM22EC039 | PAVITRA H S           | 21 / 25 | A |
| 62 | 4SM22EC031 | MANOJ A               | 25 / 25 | A |
| 63 | 4SM23EC    | AISHWARYA A           | 25 / 25 | B |
| 64 | 4SM22EC007 | AYESHA BANU           | 23 / 25 | A |
| 65 | 4SM22EC013 | DARSHAN L BUDIHAL     | 25 / 25 | A |
| 66 | 4SM22EC057 | SHARANAPPAGOUDA PATIL | 24 / 25 | A |
| 67 | 4SM22EC004 | ANKITH M S            | 25 / 25 | A |
| 68 | 4SM22EC026 | Khadarvali            | 25 / 25 | A |
| 69 | 4SM22EC003 | AKANKSHA J V          | 20 / 25 | A |
| 70 | 4SM22EC012 | DARSHAN K.K           | 23 / 25 | A |
| 71 | 4SM23EC    | THIMMAREDDY. V        | 25 / 25 | A |
| 72 | 4SM22EC036 | NAGARAJ H Kuravatti   | 25 / 25 | A |
| 73 | 4SM22EC076 | TEJASWINI V           | 24 / 25 | B |
| 74 | 4SM22EC029 | LOHITH SUBASH         | 25 / 25 | A |
| 75 | 4SM23EC    | JAYANTH V             | 23 / 25 | B |
| 76 | 4SM23EC    | YASHWANATH L          | 25 / 25 | B |
| 77 | 4SM22EC008 | CHAITRA R H           | 25 / 25 | A |
| 78 | 4SM23EC    | CHETHAN KUMAR S       | 24 / 25 | B |
| 79 | 4SM22EC080 | VENNALA RL            | 23 / 25 | B |
| 80 | 4SM23EC    | HEMANTH Y             | 24 / 25 | B |
| 81 | 4SM22EC067 | SRUSTI RK             | 23 / 25 | B |
| 82 | 4SM23EC    | DINESH H M            | 24 / 25 | B |
| 83 | 4EC23EC    | VARSHATH.R            | 24 / 25 | B |
| 84 | 4SM22EC030 | MANJUNATHA V R        | 25 / 25 | A |
| 85 | 4SM22EC059 | SHIVA KUMAR M         | 25 / 25 | B |
| 86 | 4SM23      | Suprit S Patil        | 25 / 25 | B |
| 87 | 4SM22EC075 | TEJASWINI E           | 20 / 25 | B |
| 88 | Lattrel    | MOHAMMED SUHEL N      | 25 / 25 | B |
| 89 | 4SM22EC021 | JHANSI M.C            | 21 / 25 | A |
| 90 | 4SM22EC009 | Chandana H            | 22 / 25 | A |
| 91 | 4SM22EC044 | RAKSHITHA JH          | 15 / 25 | B |

  
H.O.D  
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PRINCIPAL  
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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE REPORT OF MINI PROJECT EXPO 2023-24

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“Accredited by the NAAC”



**ELECTRONICS & COMMUNICATION ENGINEERING DEPARMENT**

|   |                           |  |
|---|---------------------------|--|
| 1 | <b>TYPE OF ACTIVITY</b>   | PROJECT EXIBHITION   |
| 2 | <b>DATE</b>               | 27-07-2024   |
| 3 | <b>ACTIVITY HELD AT</b>   | DIGITAL ELECTRONICS LAB, E&CE DEPARTMENT                     |
| 4 | <b>YEAR/ CLASS</b>        | 3 <sup>ed</sup> YEAR, 6 <sup>th</sup> SEMESTER E&CE STUDENTS |
| 5 | <b>NUMBER OF STUDENTS</b> | 95   |
| 6 | <b>ACTIVITY INCHARGE</b>  | Prof. SUDARSHAN M K,<br>Prof. CHETAN S<br>Prof. RAGHU S      |

**TITLE:**

**“TECHNOVISION MINI-PROJECT EXPO 2K24”**

**POSTER:**

The poster features a decorative background with geometric shapes in orange, blue, and grey. At the top center, it reads 'SJM Vidyapeetha®' and 'SJM Institute of Technonogy' (with a typo) followed by '“Accredited by NAAC”'. To the right is the institute's logo. Below this, it says 'Department of Electronics & Communication Engineering Organizes'. The main title is '“Technovision Mini-Project Expo 2K24”' in a large, stylized font. Underneath, it states '27<sup>th</sup> July 2024 @ 9:00 am onwards' and 'Heartily Welcome You All'. At the bottom, there are three columns of text: 'Program Co-ordinaters Prof. Sudarshan M K, Prof. Chetan S, Prof. Raghu S'; 'Dr. Siddesh KB, HoD, Dept., E&C, SJMIT'; and 'Dr. Bharath P B, Principal, SJMIT'.



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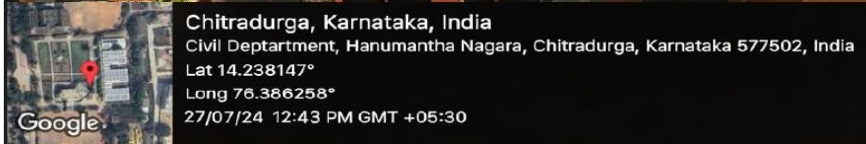


Criterion: 2.3.1

Academic Years: 2023-24

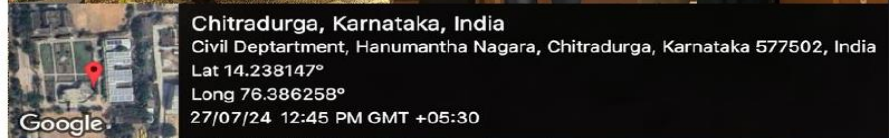


**"First Prize  
Distribution for  
Mini-Project  
2K24:  
Celebrating  
Excellence with  
Memorable  
Photos"**



Chitradurga, Karnataka, India  
Civil Department, Hanumantha Nagara, Chitradurga, Karnataka 577502, India  
Lat 14.238147°  
Long 76.386258°  
27/07/24 12:43 PM GMT +05:30

**"Second Prize  
Distribution  
Ceremony for  
Mini-Project  
2K24 Photo  
Contest"**



Chitradurga, Karnataka, India  
Civil Department, Hanumantha Nagara, Chitradurga, Karnataka 577502, India  
Lat 14.238147°  
Long 76.386258°  
27/07/24 12:45 PM GMT +05:30





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Academic Years: 2023-24

## PHOTOGRAPHS:







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Criterion: 2.3.1

Academic Years: 2023-24



**Chitradurga, Karnataka, India**  
 No 1 Sathyasagara, SJMIT circle Davangere road, Hanumantha Nagara, Chitradurga,  
 Karnataka 577502, India  
 Lat 14.238813°  
 Long 76.385522°  
 27/07/24 10:30 AM GMT +05:30




  
 H.O.D  
 Head of the Dept,  
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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF PUBLIC AWARENESS UNDER A RURAL OUTREACH PROGRAM

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590 014



AICTE Activity Report

on

**"PUBLIC AWARENESS UNDER RURAL OUTREACH PROGRAM"**

*Submitted in partial fulfillment of the requirement for the award of degree of*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

NAME: **SUJITH G R**

USN: **4SM21EC058**

**HOD**

**Dr. Siddesh K B**

Prof & Head, Dept. of E&CE

SJMIT, Chitradurga



2023-2024

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

(Affiliated to Visvesvaraya Technological University, Belagavi, Recognized by AICTE,  
New Delhi and Approved by Government of Karnataka)

NAAC Accredited with 'B<sup>++</sup>' Grade

P.B No.73, NH4 Bypass Road, Chitradurga – 577 502



## BRIEF REPORT

The Rural Outreach Program has also focused on providing basic healthcare facilities to people living in rural areas. This includes setting up health camps and mobile clinics that provide medical services to people who are unable to access healthcare facilities due to their remote location.

The program has also provided training to local healthcare workers to improve their skills and knowledge. This has led to an increase in the number of trained healthcare professionals in rural areas, which has improved the quality of healthcare services.

In addition to healthcare, the program has also focused on providing education and vocational training to people living in rural areas. This has helped in creating job opportunities and improving the overall economic condition of rural areas.

The program has also focused on improving the infrastructure in rural areas, such as roads, electricity, and water supply. This has led to an increase in connectivity and accessibility, which has improved the overall standard of living of people living in rural areas.

### **1. Women Empowerment:**

The Rural Outreach Program has also focused on empowering women in rural areas by providing them with education and vocational training. This has led to an increase in the number of women who are now able to earn a livelihood and contribute to their family's income. The program has also created awareness about women's rights and encouraged their participation in decision-making processes.

### **2. Agriculture and Livelihood:**

The Rural Outreach Program has also focused on improving the agricultural practices in rural areas. This includes providing farmers with modern farming techniques, seeds, and fertilizers. The program has also encouraged the formation of farmer cooperatives, which has led to an increase in the bargaining power of farmers. This has helped in improving the overall economic condition of rural areas.

### **3. Clean Energy:**

The Rural Outreach Program has also promoted the use of clean energy in rural areas. This includes setting up solar power plants and promoting the use of biogas for cooking. This has not only reduced the dependence on fossil fuels but has also provided a source of income for people living in rural areas.

### **4. Disaster Management:**

The Rural Outreach Program has also focused on disaster management in rural areas. This includes creating awareness about natural disasters and providing training to local communities on how to respond to emergencies.



## 5. Digital Literacy:

The Rural Outreach Program has also focused on promoting digital literacy in rural areas. This includes providing access to computers and the internet, and training people on how to use them. This has helped in bridging the digital divide between urban and rural areas and has opened up new opportunities for people living in rural areas.

### RELATED PHOTOS:

Image-1:







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Criterion: 2.3.1

Academic Years: 2023-24

Public awareness under a rural outreach program

2022-23

Image-2:



Image-3:





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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF CONTRIBUTION OF NATIONAL LEVEL INITIATIVE SWACHH BHARAT

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590 014



AICTE Activity Report

on

**“Contribution of national Level Initiative Swachh Bharat”**

*Submitted in partial fulfillment of the requirement for the award of degree of*

**BACHELOR OF ENGINEERING  
IN  
ELECTRONICS AND COMMUNICATION**

Submitted by

NAME: ROOPA G D

USN: 4SM21EC047

**HOD**

**Dr Siddesh K B** M.Tech,Ph.D.

Asso. Prof & Head, Dept. of E&C Engineering,  
SJMIT, Chitradurga



2022-2023

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**COMMUNICATION ENGINEERING**

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Criterion: 2.3.1

Academic Years: 2023-24

*Contribution of national Level Initiative Swachh Bharat*

**2023-24**



## **Description of Activity with Photographs:**

In day , we cleaned our street. There is a tree on our street. It sheds a lot of leaves. and we cleaned the plastics surrounding to the street.

We cleaned up as the leaves and plastics occupied the road. Street sweeping not only makes the streets cleaner, it is an important part of storm water pollution prevention.





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Criterion: 2.3.1

Academic Years: 2023-24

*Contribution of national Level Initiative Swachh Bharat*

**2023-24**



It prevents unwanted materials from flowing into the storm drains and polluting our bays and causing backups and flooding.

First of all, we have to understand the importance of this mission and actively participate in cleaning their own space first. The main purpose of this program was to create awareness among the students regarding cleanliness and its benefits.

  
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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF AWARENESS PROGRAM MARKETING OF RURAL PRODUCE

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590 014



AICTE Activity Report

on

**"MARKETING OF RURAL PRODUCE"**

*Submitted in partial fulfillment of the requirement for the award of degree of*

**BACHELOR OF ENGINEERING  
IN  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

NAME: SUJITH G R

USN: 4SM21EC058

**HOD**

**Dr.Siddesh K B**

Prof & Head, Dept. of E&CE  
SJMIT, Chitradurga



2023-2024

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## STRATEGIES FOR MARKETING RURAL PRODUCE

### 1. Market Research and Consumer Preferences:

- **Conducting Market Surveys and Assessing Demand:** Perform comprehensive market surveys to understand consumer preferences, market trends, and potential demand for rural produce. This information helps align production and marketing strategies accordingly.
- **Identifying Unique Selling Points of Rural Produce:** Highlight the distinctive qualities of rural produce, such as organic, locally sourced, or traditional farming practices. Emphasize the cultural significance and benefits of supporting rural communities to create a strong value proposition for consumers.
- **Analyzing Competitors and Market Opportunities:** Analyze the competitive landscape and identify market opportunities for rural produce. This includes understanding the strengths and weaknesses of competitors and identifying market gaps that can be capitalized on.

### 2. Product Differentiation and Branding:

- **Identifying Unique Selling Points:** Identify and promote the unique qualities of rural produce, such as superior taste, freshness, nutritional value, or sustainable production methods. Differentiate the products from those available in urban areas or industrial farming systems.
- **Developing Branding Strategies:** Develop branding strategies that resonate with target markets and highlight the story behind the product. This includes creating a compelling brand identity, logo, packaging, and messaging that convey the values, heritage, and quality of rural produce.
- **Creating Value Propositions for Target Markets:** Understand the needs and preferences of target markets, such as health-conscious consumers or those seeking locally sourced and sustainable products. Develop value propositions that emphasize how rural produce meets those specific needs and offers unique benefits.

### 3. Distribution Planning and Supply Chain Management:

- **Developing Efficient Distribution Channels:** Identify and establish efficient distribution channels to ensure timely delivery of rural produce to target markets. This may involve partnering with local retailers, wholesalers, or distributors, or exploring direct-to-consumer models such as farmers' markets, online platforms, or community-supported agriculture programs.
- **Exploring Direct-to-Consumer Models:** Participate in farmers' markets, set up farm stands, or create online platforms to connect directly with consumers. This allows rural producers to establish personal connections, receive feedback, and build brand loyalty.





Addressing Storage and Processing Challenges: Improve storage and processing facilities to maintain product quality and extend shelf life. This can involve investing in cold storage, packaging technologies, or value-added processing capabilities to add convenience and value to the produce.

#### **4. Promotional Activities and Marketing Channels:**

- Online Marketing and E-commerce Platforms: Leverage digital marketing tools, including social media, websites, and e-commerce platforms, to increase the visibility and accessibility of rural produce. Engage with online communities, influencers, and food bloggers to create brand awareness and attract a wider customer base.
- Farmers' Markets and Local Food Networks: Participate in local farmers' markets and collaborate with community-supported agriculture programs. These platforms allow direct interaction with consumers, build relationships, and create opportunities for showcasing and selling rural produce.
- Collaborating with Retailers and Wholesalers: Establish partnerships with retailers, supermarkets, and wholesalers to expand market reach and gain access to established distribution networks. Collaborative efforts can enhance product placement, promotion, and sales.

### *Competitive Strategy For Rural Market*



- Supplier
- Customer power
- Potential Entrants
- Alternative Products
- Competitor



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Criterion: 2.3.1

Academic Years: 2023-24

Marketing of rural produce

2023-24

Image-5:



Image-6:





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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF PLANTAION AND ADOPTION OF PLANTS

24/04/08/23

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590 014



#### NSS Report

on

#### “PLANTATION AND ADOPTION OF PLANTS”

A report submitted in partial fulfillment of the requirements for the Award of  
Degree of

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by  
**NSS VOLUNTEERS**

  
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Principal SJMIT,  
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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

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NAAC Accredited with 'B++' Grade

P.B No.73, NH4 Bypass Road, Chitradurga-577502





## NSS Plantation

### Poster



### About Event

Tree plantation is the process of transferring of seedlings from one place to another for different purposes. Furthermore, there are various reason behind treeplantation but the most important are forestry, land reclamation, and landscaping. Each process of tree plantation is important and unique in its own way.

A plantation is an agricultural estate, generally cantered on a plantation house, meant for farming that specializes in cash crops, usually mainly planted with a single crop, with perhaps ancillary areas for vegetables for eating and so on. Thecrops that are grown include cotton, cannabis, coffee, tea, cocoa, sugar cane, opium, sisal, oil seeds, oil palms, fruits, rubber trees and forest trees. Protectionist policies and natural comparative advantage have sometimes contributed to determining where plantations are located.



### Event Inauguration Photo

The National Service Scheme (NSS) is a voluntary programme that aims to develop the personality and social consciousness of the students through community service. One of the major activities of NSS is the special camping programme, which provides unique opportunities to the students for group living, collective experience sharing and constant interaction with the community.

The NSS unit of SJM Institute of Technology Chitradurga organised a special camp on the theme of 'Plantation' on 2 October 2023 at SJMIT Campus, Chitradurga, Karnataka. The main objective of the camp was to create awareness among the students about the importance of planting and preserving trees, and to involve them in various plantation activities for environmental conservation and rural development.

The principal of SJM Institute of Technology Chitradurga, Dr. Bharath P B, also addressed the gathering and expressed his support for the camp. He urged the students to learn from the activity and to contribute to their development. He also thanked the NSS leaders and the management authorities of college for their cooperation and assistance.







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Criterion: 2.3.1

Academic Years: 2023-24

NSS Plantation

## Photos of the Event



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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF CLEAN CAMPUS MISSION

*date 26/08/23*

### VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590 014



#### NSS REPORT

on  
Clean Campus Mission

A report is submitted in partial fulfillment of the requirements for the Award of  
Degree of BACHELOR OF ENGINEERING IN ELECTRICAL AND  
ELECTRONICS ENGINEERING

Submitted by  
NSS Volunteers

HASNAIN TAJ M  
NIVEDITHA S  
POOJA P  
QURATH ULAAIN

4SM22EE404  
4SM22EE408  
4SM22EE409  
4SM22EE410

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Principal

Dr. Bharath P B.M.Tech.Ph.D.  
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2023-2024

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National Service Scheme

2023-24

## POSTER



## About Event

The National Service Scheme (NSS) of SJMIT involves in various activities towards the “*Clean Campus Mission*”. In order to keep the campus clean, students and staffs of the SJMIT are actively involved in Swachh Bharat activities, plantation, creating awareness on waste disposal (degradable and non-degradable), ground water harvesting, etc. We ensure the cleanliness of, not only the surroundings, but also the class rooms, library, laboratories and auditorium. We also invite locally available eminent speakers to interact with our student volunteers on their current interests.

Very recently, as a part of the cleanliness drive, NSS organized Swachh Bharat activities within the college campus. On the day of Swachh Bharat Fortnight inauguration, students and faculty members took pledge of cleanliness. A signature campaign was also organized to create an awareness on keeping the





## National Service Scheme

2023-24

### Event Inauguration Photo

Further to the inaugural event, a seminar was conducted on “Awareness on Green Environment”. Department of EEE students are engaged themselves in various activities including cleaning the surroundings of library building, department buildings and administrative building. Apart from these, students were involved in removal of mesquite trees from the college campus and planting saplings in both academic and residential campuses. Awareness programmes and competitions were also conducted for students to bring about visible changes in the surroundings and to efficiently deal with waste disposal



GPS Map Camera  
Chitradurga, Karnataka, India  
Electrical Dept., Hanumantha Nagara, Chitradurga, Karnataka 577502,  
India  
Lat 14.237644°  
Long 76.380287°  
26/08/23 11:20 AM GMT +05:30





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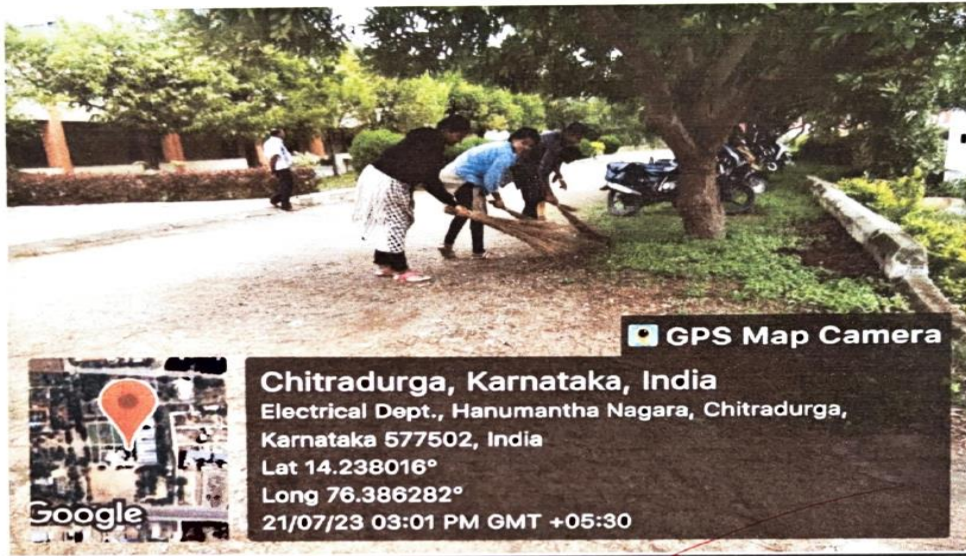
Criterion: 2.3.1

Academic Years: 2023-24

National Service Scheme

2023-24

## Photos of the Event





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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF PAPER PRESENTAION BY STUDENTS

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INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH IN ENGINEERING & MANAGEMENT  
An Open Access Scholarly Journal || Index in major Databases & Metadata

**CERTIFICATE OF PUBLICATION**

International Journal of Scientific Research in Engineering & Management is hereby awarding this certificate to

**Karthik N D L**

in recognition to the publication of paper titled

**E-suite for Soldiers based on Photovoltaic Cells**

published in IJSREM Journal on *Volume 08 Issue 05 May, 2024*

www.ijsrem.com  Editor-in-Chief  
IJSREM Journal e-mail: editor@ijsrem.com

**Topic: E-suite for Soldiers based on Photovoltaic Cells**

**Student Name: KARTHIK N D L**

**USN: 4SM20EC006**

  
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Academic Years: 2023-24

**SAMPLE COPY OF PROJECTS BATCHES AND GUIDE**

Date: 15-11-2023

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

| Sl. No. | USN        | NAME                | Name of the Guide         | Title  |
|---------|------------|---------------------|---------------------------|--|
| 1       | 4SM19EC022 | SWATHI B M          | Dr. Siddesh K B           | Lidar based object detection military spying using Robot                   |
|         | 4SM20EC009 | MOUNIKA E           |                           |  |
|         | 4SM20EC025 | TEJU R              |                           |  |
|         | 4SM20EC029 | SRIDEVI M P         |                           |  |
| 2       | 4SM20EC016 | SAHANA M            | Prof. Roopa S             | Smart bed: Automated bed control with health tracker                       |
|         | 4SM20EC013 | RAJATH SANTHOSH N T |                           |  |
|         | 4SM20EC017 | SIMRAN A            |                           |  |
|         | 4SM21EC403 | SANTHOSHA C         |                           |  |
| 3       | 4SM18EC050 | TEJASHWINI K S      | Prof. Chetan S            | Implementation of humanoid Robot for preventing children accidents         |
|         | 4SM20EC010 | NALINA D            |                           |  |
|         | 4SM20EC014 | REKHA B V           |                           |  |
|         | 4SM20EC024 | SYEDA NEHA          |                           |  |
| 4       | 4SM20EC002 | GANESHA P R         | Prof. Farzana Parveen B A | Efficient varialbe IoT for Heart Attack Prediction                         |
|         | 4SM20EC020 | SUDARSHAN S R       |                           |  |
|         | 4SM21EC406 | YATHISH B           |                           |  |
| 5       | 4SM21EC400 | ANOOP M             | Prof. Jayadevappa R S     | IOT based monitoring system for comatose patients                          |
|         | 4SM21EC402 | SACHIN P            |                           |  |
|         | 4SM21EC404 | SWAMY M             |                           |  |
|         | 4SM21EC405 | VAIJAYANTH V P      |                           |  |
| 6       | 4SM20EC001 | CHETHAN M           | Prof. Lavakumar T B       | IOT based smart fishery management system                                  |
|         | 4SM20EC012 | PAVAN KUMAR V       |                           |  |
|         | 4SM20EC028 | SHIVAKUMAR NAIK     |                           |  |
|         | 4SM21EC401 | BASAVARAJA B N      |                           |  |
| 7       | 4SM19EC016 | RAHUL KOLE          | Prof. Sudharshan M K      | Deep learning and IOT based visually impaired assistant                    |
|         | 4SM20EC004 | HARSHAVARDHAN A     |                           |  |
|         | 4SM20EC015 | S ARUN              |                           |  |
|         | 4SM20EC027 | YOGENDRA O          |                           |  |
| 8       | 4SM20EC008 | LOKESH R            | Prof. Sandeep V R         | IOT based forest fire prevention system with anti smuggling identification |
|         | 4SM20EC022 | SWAMY T N           |                           |  |
|         | 4SM20EC026 | YASHAVANTHA N       |                           |  |
| 9       | 4SM20EC005 | HEMA R S            | Prof. Tanuja T            | E Suit for soldiers using Aurdiono and PV cells                            |
|         | 4SM20EC006 | KARTHIK N D L       |                           |  |
|         | 4SM20EC007 | KAVANA M            |                           |  |

  
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## SAMPLE COPY OF MINI-PROJECTS BATCHES AND GUIDE

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Accredited by NAAC

**Mini Project  
( 21ECMP67 )****6th Semester  
'A' & 'B' Sections**

| Sl. | USN        | NAME               | Mini Project Title   | Name of the Guide         |
|-----|------------|--------------------|--|---------------------------|
| 1   | 4SM21EC059 | SUNIL R            | Finger print door lock system using Arduino  | Dr. Siddesh K B           |
|     | 4SM21EC037 | NITIN D            |  |                           |
|     | 4SM21EC009 | BALAJI B R         |  |                           |
|     | 4SM21EC023 | JAGADISH R         |  |                           |
| 2   | 4SM21EC058 | SUJITH G R         | Solar tracking system using Arduino  | Prof. Roopa S             |
|     | 4SM21EC044 | PURUSHOTHAM T P    |  |                           |
|     | 4SM21EC053 | SHIVANANDA GOWDA B |  |                           |
|     | 4SM21EC050 | SATHISH H          |  |                           |
| 3   | 4SM21EC055 | SNEHA M            | LPG gas leakage detection with auto off regulator using Arduino                        | Prof. Farzana Parveen B A |
|     | 4SM21EC054 | SNEHA B            |  |                           |
|     | 4SM21EC047 | ROOPA G D          |  |                           |
|     | 4SM21EC048 | SANGEETHA M R      |  |                           |
| 4   | 4SM21EC008 | AYISHA SIDDIQA     | Home automation system using Arduino   | Prof. Jayadevappa R S     |
|     | 4SM21EC012 | DEEPIKA D          |  |                           |
|     | 4SM21EC005 | AKSHAKEERTHANA C A |  |                           |
|     | 4SM21EC011 | CHEZHAN KUMAR P    |  |                           |
| 5   | 4SM22EC408 | GAGAN H R          | Automatic plant watering system  | Prof. Lavakumar T B       |
|     | 4SM22EC414 | MADHUKESHAVA M     |  |                           |
|     | 4SM22EC425 | SRINIVASA K R      |  |                           |
|     | 4SM22EC413 | LOKESHNAIK N V     |  |                           |
| 6   | 4SM22EC424 | SREENIVASA R       | Music reactive LED cube  | Prof. Sudharshan M K      |
|     | 4SM22EC416 | MANJUNATHA T       |  |                           |
|     | 4SM22EC417 | POOJA B            |  |                           |
|     | 4SM22EC426 | SUFIYA MUSKAN      |  |                           |
| 7   | 4SM21EC032 | NANDINI M H        | Smart billing trolley using Arduino  | Prof. Sandeep V R         |
|     | 4SM21EC045 | RAGHU R            |  |                           |
|     | 4SM21EC028 | MATHURA YADAV P V  |  |                           |
|     | 4SM21EC043 | PRUTHVIRAJ G       |  |                           |
| 8   | 4SM21EC069 | ZAIBA BANU Z       | Automatic railway gate control system  | Prof. Tanuja T            |
|     | 4SM22EC403 | AYESHA SIDDIQA A   |  |                           |
|     | 4SM22EC401 | ANUSHA C           |  |                           |
|     | 4SM22EC406 | DADHAM NIKHITHA    |  |                           |
| 9   | 4SM21EC025 | KARTHIK L G        | Design and performance analysis of microstrip patch antenna for wireless communication | Prof. Chetan S            |
|     | 4SM21EC030 | MOINUDDIN T A      |  |                           |
|     | 4SM21EC034 | NIDHI V M          |  |                           |
|     | 4SM21EC036 | NITHIN KUMAR K N   |  |                           |
| 10  | 4SM21EC024 | JYOTHIBAI S        | Advanced footstep power generation system  | Prof. Raghu S             |
|     | 4SM21EC035 | NIKHITHA P H       |  |                           |
|     | 4SM21EC027 | MANUPRIYA P        |  |                           |
|     | 4SM21EC038 | PALLAVI S A        |  |                           |
| 11  | 4SM22EC415 | MAHESH V           | Laser based security system with Arduino Nano  | Prof. Nandini G R         |
|     | 4SM22EC423 | SOWMYA B           |  |                           |
|     | 4SM22EC427 | USHA R             |  |                           |
|     | 4SM22EC429 | ZUVERIYA M         |  |                           |

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|    |            |                  |  |                          |
|----|------------|------------------|--|--------------------------|
| 12 | 4SM22EC418 | PREETHAM Y G     | Scrolling LED matrix display using Arduino Uno                         | Prof. Pradeep Kumar V H  |
|    | 4SM22EC419 | PRIYANKA N       |  |                          |
|    | 4SM22EC422 | SNEHA A          |  |                          |
|    | 4SM22EC428 | VASANTH V        |  |                          |
| 13 | 4SM21EC040 | PAVITHRA R       | Smart irrigation system  | Prof. Santhosh Kumar G S |
|    | 4SM21EC039 | PARVATHI C M     |  |                          |
|    | 4SM21EC031 | NANDAN KUMAR V   |  |                          |
| 14 | 4SM21EC022 | HIMA J           | Smart vaccum cleaner   | Prof. Roopa S            |
|    | 4SM21EC063 | VAISHNAVI M M    |  |                          |
|    | 4SM21EC062 | THANUSHREE M     |  |                          |
|    | 4SM21EC007 | AMULYA K         |  |                          |
| 15 | 4SM21EC010 | BHAGYALAKSHMI    | Grass cutter using Arduino   | Prof. Jayadevappa R S    |
|    | 4SM21EC061 | THANUSHREE K V   |  |                          |
|    | 4SM21EC041 | POORNIMA T       |  |                          |
| 16 | 4SM21EC046 | RAMYA R          | Anti sleep alarm for drivers   | Prof. Lavakumar T B      |
|    | 4SM21EC021 | HEMA B T         |  |                          |
|    | 4SM22EC410 | KARTHIK N        |  |                          |
|    | 4SM22EC412 | KOUSALYA N       |  |                          |
| 17 | 4SM22EC421 | SIDDESH T M      | Fire fighting robot using Arduino autofire chaser and extinguisher     | Prof. Sudharshan M K     |
|    | 4SM22EC420 | RANJITHA A K     |  |                          |
|    | 4SM20EC030 | AJAY R           |  |                          |
|    | 4SM21EC018 | HARSHA B K       |  |                          |
| 18 | 4SM22EC404 | CHANDAN M L      | Automatic street light   | Prof. Sandeep V R        |
|    | 4SM21EC068 | YASHWANTH M      |  |                          |
|    | 4SM22EC402 | ANUSHA S Y       |  |                          |
|    | 4SM22EC407 | DEEPIKA T R      |  |                          |
| 19 | 4SM21EC004 | AKASH S KADEMANE | Smart parking  | Prof. Tanuja T           |
|    | 4SM22EC409 | GANESH V         |  |                          |
|    | 4SM21EC002 | ABHISHEK G B     |  |                          |
|    | 4SM21EC042 | VARSHA D         |  |                          |
| 20 | 4SM21EC019 | HARSHITHA B      | Water pump control and level monitoring using Arduino                  | Prof. Chetan S           |
|    | 4SM21EC013 | DEEPTHI T R      |  |                          |
|    | 4SM22EC405 | CHANDANA U       |  |                          |
|    | 4SM22EC411 | KAVYA P          |  |                          |
| 21 | 4SM21EC052 | SHAIENDRA S      | Smart blind stick with GPS tracker                                     | Prof. Raghu S            |
|    | 4SM21EC051 | SATHISHA K       |  |                          |
|    | 4SM21EC003 | AISHWARYA C K    |  |                          |
|    | 4SM21EC014 | DEVIKA S         |  |                          |
| 22 | 4SM21EC020 | HARSHITHA G K    | RFID attendance system using Arduino                                   | Prof. Nandini G R        |
|    | 4SM21EC016 | DIVYA B S        |  |                          |
|    | 4SM21EC006 | AMBIKA H         |  |                          |
|    | 4SM21EC033 | NAVEEN S T       |  |                          |
| 23 | 4SM21EC049 | SUHAS P M        | Smart bridge automatic height increase when flooding using Arduino Uno | Prof. Pradeep Kumar V H  |
|    | 4SM22EC400 | VINAY M S        |  |                          |
|    | 4SM21EC026 | LIKHITH K J      |  |                          |
|    | 4SM21EC015 | DILEEP R PAWAR   |  |                          |
|    | 4SM21EC060 | TANUSHREE S      |  |                          |
|    | 4SM21EC067 | YASHASWINI H M   |  |                          |

Mini Project Coordinator

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Criterion: 2.3.1

Academic Years: 2023-24

## SAMPLE COPY OF INTERNSHIP BATCHES AND GUIDE

Date: 02-02-2024

Department of Electronics & Communication Engg.  
S.J.M.I.T., Chitradurga - 577502

### Internship Seminar Schedule

| Sl. No. | USN        | NAME                | Name of the Guide         | Date / Time                 |
|---------|------------|---------------------|---------------------------|-----------------------------|
| 1       | 4SM18EC050 | TEJASHWINI K S      | Dr. Siddesh K B           | 22/02/2024<br>02:30 - 05:30 |
|         | 4SM19EC016 | RAHUL KOLE          |                           |                             |
|         | 4SM19EC022 | SWATHI B M          |                           |                             |
|         | 4SM20EC001 | CHETHAN M           |                           |                             |
| 2       | 4SM20EC002 | GANESHA P R         | Prof. Roopa S             |                             |
|         | 4SM20EC004 | HARSHAVARDHAN A     |                           |                             |
|         | 4SM20EC005 | HEMA R S            |                           |                             |
|         | 4SM20EC006 | KARTHIK N D L       |                           |                             |
| 3       | 4SM20EC007 | KAVANA M            | Prof. Chetan S            | 23/02/2024<br>02:30 - 05:30 |
|         | 4SM20EC008 | LOKESH R            |                           |                             |
|         | 4SM20EC009 | MOUNIKA E           |                           |                             |
|         | 4SM20EC010 | NALINA D            |                           |                             |
| 4       | 4SM20EC012 | PAVAN KUMAR V       | Prof. Farzana Parveen B A |                             |
|         | 4SM20EC013 | RAJATH SANTHOSH N T |                           |                             |
|         | 4SM20EC014 | REKHA B V           |                           |                             |
| 5       | 4SM20EC015 | S ARUN              | Prof. Jayadevappa R S     |                             |
|         | 4SM20EC016 | SAHANA M            |                           |                             |
|         | 4SM20EC017 | SIMRAN A            |                           |                             |
|         | 4SM20EC020 | SUDARSHAN S R       |                           |                             |
| 6       | 4SM20EC022 | SWAMY T N           | Prof. Lavakumar T B       |                             |
|         | 4SM20EC024 | SYEDA NEHA          |                           |                             |
|         | 4SM20EC025 | TEJU R              |                           |                             |
|         | 4SM20EC026 | YASHAVANTHA N       |                           |                             |
| 7       | 4SM20EC027 | YOGENDRA O          | Prof. Sudharshan M K      | 27/02/2024<br>02:30 - 05:30 |
|         | 4SM20EC028 | SHIVAKUMAR NAIK     |                           |                             |
|         | 4SM20EC029 | SRIDEVI M P         |                           |                             |
|         | 4SM21EC400 | ANOOP M             |                           |                             |
| 8       | 4SM21EC401 | BASAVARAJA B N      | Prof. Sandeep V R         |                             |
|         | 4SM21EC402 | SACHIN P            |                           |                             |
|         | 4SM21EC403 | SANTHOSHA C         |                           |                             |
| 9       | 4SM21EC404 | SWAMY M             | Prof. Tanuja T            |                             |
|         | 4SM21EC405 | VAIJAYANTH V P      |                           |                             |
|         | 4SM21EC406 | YATHISH B           |                           |                             |

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## SAMPLE COPY OF GUIDING ON GOVERNMENT SCHOOL REJUVENTATION & HELPING THEM TO ACHIEVE GOOD INFRASTRUCTURE

date 30/08/2023

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**JNANA SANGAMA, BELAGAVI -590 014**



**NSS Report**

**on**

***“GOVERNMENT SCHOOL REJUVENTATION & HELPING THEM TO ACHIEVE GOOD INFRASTRUCTURE”***

*A report submitted in partial fulfillment of the requirements for the Award of Degree of*

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

**Prepared by**  
NSS volunteers,  
Dept. of ECE  
S.J.M.I.T, CHITRADURGA

**Head of Department**

**Dr Siddesh K B , M.Tech,Ph.D**  
**Professor and Head, Dept. of ECE**  
**S.J.M.I.T, Chitradurga.**

**Approved by**  
**Dr.Niranjana , M.Sc,Ph.D**  
**NSS officer**  
**S.J.M.I.T, CHITRADURGA**

**Principal**

**Dr.Bharath P B, M.Tech,Ph.D**  
**S.J.M.I.T, Chitradurga**  
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Page No: 2/2

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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**Event inauguration photo**

The whole event in charge is taken by the NSS volunteers.

Under the guidance of experienced painters, the NSS volunteers commenced the process of painting the classrooms. They started by preparing the walls, ensuring they were clean and free from any imperfections. The volunteers then applied fresh coats of paint, utilizing vibrant and engaging colours that would create a conducive atmosphere for learning and creativity.

Throughout the day, the volunteers worked diligently, paying attention to detail and ensuring the paint was applied evenly.

Their collective efforts brought about a remarkable transformation in the classrooms, leaving behind vibrant and visually appealing walls. The impact of this initiative goes beyond aesthetics, as it has the potential to positively influence the students' engagement and overall learning experience





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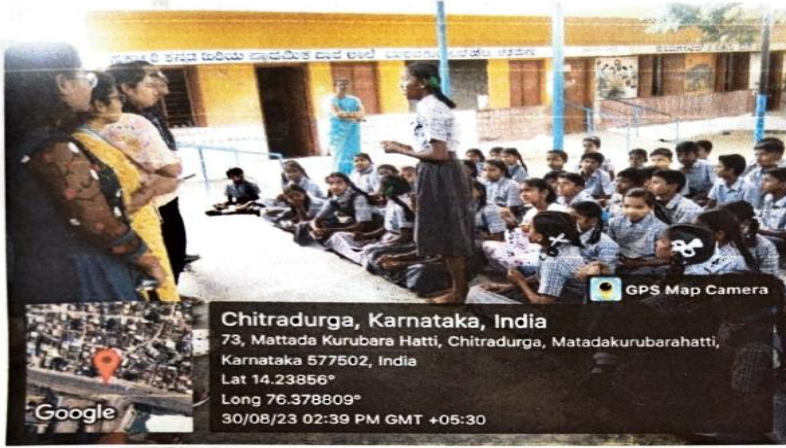
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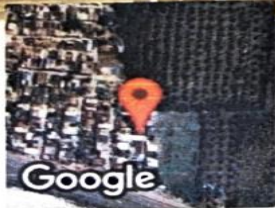






Throughout the day, the volunteers worked diligently, paying attention to detail and ensuring the paint was applied evenly. Their collective efforts brought about a remarkable transformation in the classrooms, leaving behind vibrant and visually appealing walls. The impact of this initiative goes beyond aesthetics, as it has the potential to positively influence the student's engagement and overall learning experience.

The event's significance lies in the collaborative effort of the NSS volunteers and the Yuva Brigade in promoting education and improving the educational infrastructure. By dedicating their time and energy to this social service project, the volunteers have demonstrated their commitment to social welfare and community development.



**Chitradurga, Karnataka, India**

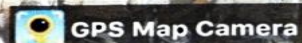
69QJ+C94, Mattada Kurubara Hatti, Chitradurga, Karnataka

577502, India

Lat 14.238608°

Long 76.380911°

30/08/23 02:56 PM GMT +05:30



**Group Photo**