

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI**



A Report On

**NATIONAL SERVICE SCHEME (BNSK459)**

SUBMITTED BY

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*Submitted in Partial fulfillment of the Requirements for the 4<sup>th</sup> semester.*

**Bachelor of Engineering  
in  
Computer Science and Engineering  
Under the guidance of**

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**SRI VENKATESHWARA  
COLLEGE OF ENGINEERING**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
SRI VENKATESHWARA COLLEGE OF ENGINEERING**

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**2024-2025**



# SRI VENKATESHWARA COLLEGE OF ENGINEERING

## Department of Computer Science and Engineering **CERTIFICATE**

This is to certify that Ms. NEELEE KUMARI (1VE23CS113), Bonafide student of Sri Venkateshwara College of Engineering have satisfactorily completed the work related to the course of National Service Scheme (BNSK459) as prescribed by the Visvesvaraya Technological University, Belagavi during the Academic Year 2024-25. It is certified that all corrections/suggestion indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements.

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### Signature of Guide

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### Signature of the HOD

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We would like to extend our sincere thanks to HOD, Professor and Head, Dept. of CSE, SVCE Bengaluru, for his suggestions which helped us to complete the NSS Activity without which we wouldn't have attained greater heights. My deepest thanks to our internal guide Mrs. Khudaija Nazhath, Dept. of CSE, SVCE Bengaluru, for their guidance and support in bringing this project to completion.

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We express our immense gratitude to our parents and family members who have been instrumental in shaping our career. We are thankful to all our lectures and friends who have been the source of inspiration to us in all endeavors.

**NEELEE KUMARI  
1VE23CS113**

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## Chapter 1

### **Introduction about School** **Government Model Higher Primary School,** **Sonnappaahalli**

#### **1.1 Overview of the School**

Government Model Higher Primary School, Sonnappaahalli is a dedicated institution located in the serene village of Sonnappaahalli, Karnataka. The school serves as a cornerstone of primary education for the local community, providing a nurturing and supportive environment for young learners. Established with the mission to impart quality education to children from diverse backgrounds, the school focuses on holistic development, encompassing academic excellence, moral values, and extracurricular activities.

The school is equipped with essential facilities to ensure a conducive learning atmosphere. It boasts well-ventilated classrooms, a library stocked with a variety of books, and a playground that encourages physical activities and teamwork. The committed faculty at Government Model Higher Primary School, Sonnappaahalli are not only educators but also mentors who guide students in their formative years, laying a strong foundation for their future education and personal growth.

With a curriculum aligned with the state's educational standards, the school emphasizes fundamental subjects such as language, mathematics, science, and social studies, integrating innovative teaching methods to engage students effectively. Additionally, the school promotes cultural awareness and community involvement, fostering a sense of responsibility and belonging among students.

Government Model Higher Primary School, Sonnappaahalli is more than just an educational institution; it is a vibrant community where young minds are nurtured, creativity is encouraged, and the seeds of lifelong learning are sown. Through its unwavering dedication to providing quality education, the school continues to play a pivotal role in shaping the future of the children in Sonnappaahalli and its surrounding areas.

## 1.2 School Photographs

- **Figure 1.1: School Photo**



- **Figure 1.2: Headmaster Photo**



### 1.3 Student Demographics and Curriculum

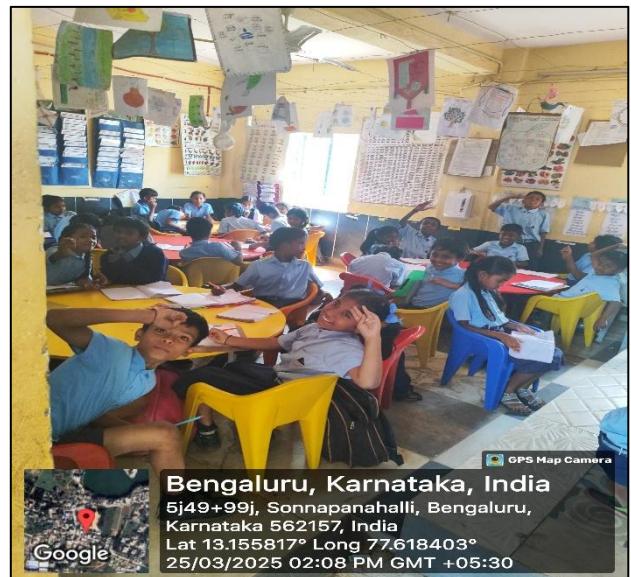
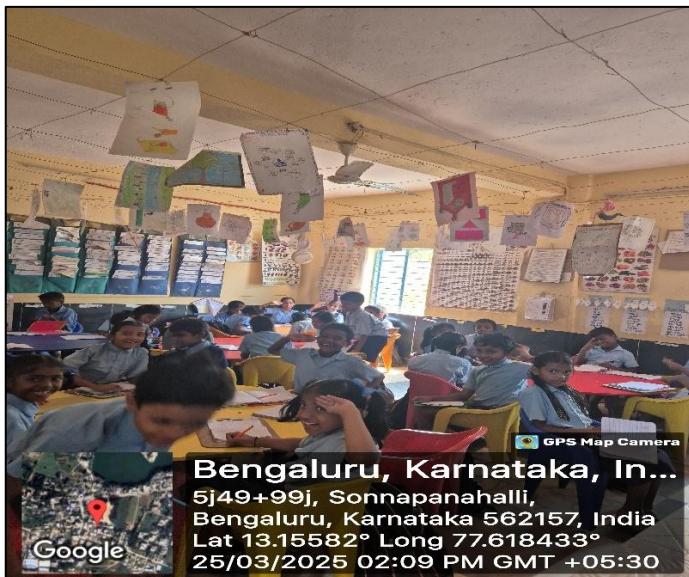
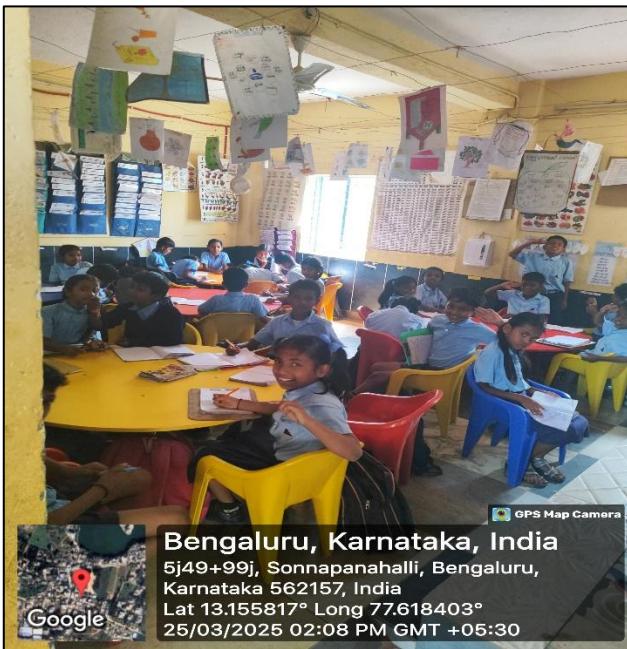
➤ **Class Grades and Gender Distribution:**

- **Pre-KG to Class 8:** The school caters to children from the early years of Pre-KG through to Class 8.
- **Number of Boys and Girls:** The student body comprises a balanced mix of boys and girls, promoting a co-educational environment where students learn to collaborate and respect each other.

➤ **Geographic Backgrounds:**

- **Local Community:** Most students come from Sonnapanahalli and nearby villages, reflecting a diverse socio-economic background typical of rural Karnataka.

- **Figure 1.3: Class Photo**



- **Figure 1.4: Students**



- **Enhanced Learning Resources:**

- **Need:** Access to updated textbooks, supplementary reading materials, and educational aids.
- **Measure:** Collaborate with local government and NGOs to provide additional resources and digital learning tools.

- **Improved Teacher Training:**

- **Need:** Continuous professional development for teachers to stay updated with modern teaching methodologies.
- **Measure:** Organize regular workshops, training sessions, and online courses for teachers.

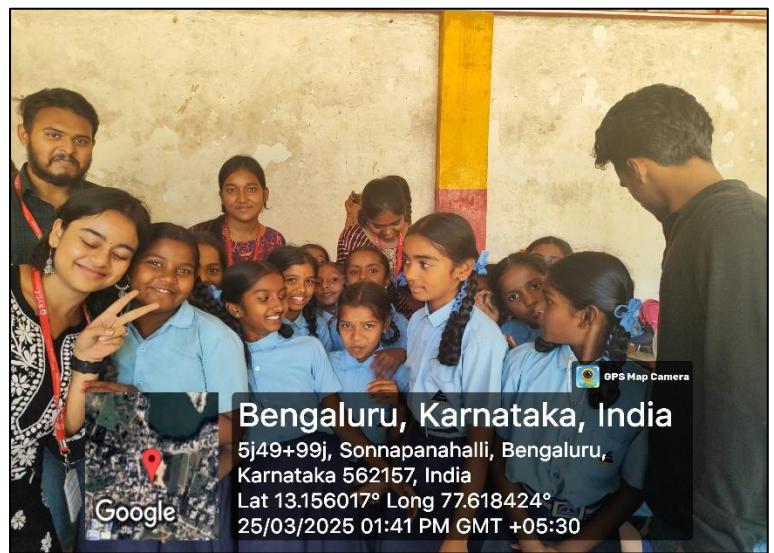
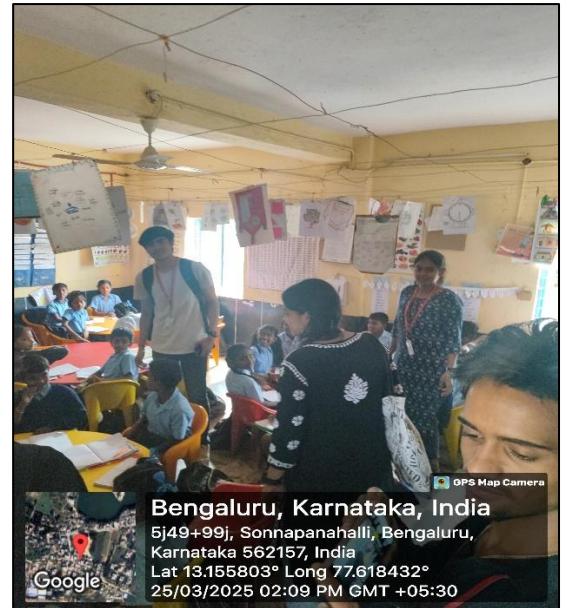
- **Personalized Attention:**

- **Need:** Tailored instruction to address individual learning paces and styles.
- **Measure:** Implement small group tutoring sessions and one-on-one mentoring programs.

- **Technological Integration:**

- **Need:** Familiarity with basic computer skills and access to digital learning platforms.
- **Measure:** Set up a computer lab with internet access and introduce basic IT curriculum.

#### 1.4 Understanding Student Requirements



## Chapter 2

### **Students Requirement**

#### **2.1 Academic Needs and Challenges**

##### **Academic Needs:**

###### **1. Literacy and Language Skills:**

- **Requirement:** Improve reading comprehension, vocabulary, and writing skills in both Kannada and English.
- **Focus Areas:** Phonics, sentence structure, reading fluency, and creative writing exercises.

###### **2. Mathematics Proficiency:**

- **Requirement:** Strengthen understanding of fundamental math concepts, problem-solving, and numerical operations.
- **Focus Areas:** Basic arithmetic, multiplication tables, word problems, and hands-on activities using manipulatives.

###### **3. Science Understanding:**

- **Requirement:** Enhance knowledge of basic scientific principles and encourage a practical understanding of everyday science.
- **Focus Areas:** Simple experiments, observation skills, and interactive science projects.

###### **4. Social Studies Awareness:**

- **Requirement:** Develop a sense of history, geography, and social responsibilities.
- **Focus Areas:** Map reading, historical timelines, community roles, and cultural studies.

###### **5. Holistic Development:**

- **Requirement:** Encourage physical, emotional, and social development through varied activities.
- **Focus Areas:** Physical education, arts and crafts, music, and moral science.

##### **Challenges:**

###### **1. Limited Resources:**

- Inadequate access to modern educational materials and technology.

###### **2. Language Barriers:**

- Varied proficiency levels in English among students.

## 2.2 Classroom Activities and Interventions

### Activities and Interventions:

#### 1. Reading Circles:

- **Description:** Small group reading sessions where students take turns reading aloud and discussing the text.
- **Objective:** Improve reading fluency and comprehension.

#### 2. Cultural Days:

- **Description:** Events where students present cultural artifacts, stories, and traditional attire from their community.
- **Objective:** Promote cultural awareness and pride in local heritage.

#### 3. Teacher Workshops:

- **Description:** Regular professional development sessions for teachers on new teaching strategies and classroom management.
- **Objective:** Equip teachers with the skills to better address diverse learning needs.



## Chapter 3

### Skill Development

#### 3.1 Enhancing Reading and Writing Skills

##### 1) Phonics Instruction:

- **Strategy:** Implement systematic phonics instruction to help students understand the relationship between letters and sounds.
- **Goal:** Improve decoding skills for better reading fluency and comprehension.

##### 2) Guided Reading:

- **Strategy:** Conduct small group guided reading sessions where students read texts at their instructional level with teacher support.
- **Goal:** Enhance reading comprehension and build confidence in reading independently.

##### 3) Writing Workshops:

- **Strategy:** Organize regular writing workshops focusing on different aspects of writing such as narrative, descriptive, and expository writing.
- **Goal:** Develop students' ability to express their thoughts clearly and creatively in written form.

##### 4) Reading Aloud:

- **Strategy:** Incorporate daily read-aloud sessions where the teacher reads stories and informational texts to the class.
- **Goal:** Improve listening skills, vocabulary, and understanding of text structures.

#### 3.2 Communication Skills

##### Importance of Communication Skills:

Communication skills are crucial for students as they form the foundation for effective interaction, learning, and future success. Strong communication skills enhance students' ability to express themselves, understand others, and engage confidently in both academic and social settings.

##### Activities to Enhance Communication Skills:

###### 1. Debates and Discussions:

- **Activity:** Organize debates and group discussions on various topics.
- **Goal:** Improve public speaking, critical thinking, and the ability to articulate ideas clearly.

**2. Role-Playing:**

- **Activity:** Conduct role-playing exercises where students act out different scenarios.
- **Goal:** Enhance verbal communication, empathy, and social interaction skills.

**3. Storytelling Sessions:**

- **Activity:** Arrange storytelling sessions where students narrate stories to their peers.
- **Goal:** Boost creativity, narrative skills, and audience engagement.

### **3.3 Holistic Development**

#### **Importance of a Well-Rounded Education:**

A well-rounded education is essential for the overall development of students, fostering not only academic growth but also physical, emotional, and social well-being. Co-curricular activities play a significant role in this by providing students with opportunities to explore their interests, develop new skills, and build character.

#### **Co-Curricular Activities for Holistic Development:**

**1. Physical Education:**

- **Activity:** Regular sports and physical fitness sessions.
- **Goal:** Promote physical health, teamwork, and sportsmanship.

**2. Arts and Crafts:**

- **Activity:** Art and craft classes where students engage in creative projects.
- **Goal:** Encourage creativity, fine motor skills, and artistic expression.

**3. Music and Dance:**

- **Activity:** Music and dance classes focusing on various genres and styles.
- **Goal:** Foster musical talent, rhythm, and cultural appreciation.

### **3.4 Classroom Activities and Interventions**

#### **Activities and Interventions Conducted:**

**1. Phonics Instruction Sessions:**

- **Description:** Teachers conduct daily phonics lessons using interactive tools and flashcards.

**2. Guided Reading Circles:**

- **Description:** Small groups of students read books with teacher guidance, discussing the story and its elements.

**3. Writing Workshops:**

- **Description:** Students participate in writing activities, sharing their work and receiving feedback.

## Chapter 4

# Extracurricular Activities

### 4.1 Importance of Extracurricular Activities

Extracurricular activities play a crucial role in the overall development of students, complementing academic learning by fostering essential life skills and personal growth. These activities provide students with opportunities to explore their interests, develop new talents, and build social connections. The key benefits of extracurricular activities include:

#### 1. Enhanced Social Skills:

- Participation in group activities helps students develop communication, teamwork, and leadership skills.
- Students learn to collaborate, negotiate, and build relationships with peers.

#### 2. Improved Academic Performance:

- Engaging in extracurricular activities can boost students' motivation and time-management skills.
- Studies show that students involved in extracurricular activities often perform better academically.

#### 3. Physical and Mental Well-being:

- Physical activities such as sports promote fitness, discipline, and healthy lifestyle habits.
- Creative activities like art and music provide emotional expression and stress relief, contributing to mental well-being.

### 4.2 Activities Conducted

#### Extracurricular Activities Organized:

##### 1. Sports and Physical Education:

- **Objective:** To promote physical fitness, teamwork, and sportsmanship.
- **Impact:** Students develop better coordination, endurance, and a sense of fair play. Regular participation in sports improves overall health and boosts morale.

##### 2. Arts and Crafts:

- **Objective:** To encourage creativity, fine motor skills, and artistic expression.
- **Impact:** Students gain confidence in their creative abilities and learn to appreciate different forms of art. Art projects provide a constructive outlet for self-expression.

##### 3. Music and Dance:

- **Objective:** To foster musical talent, rhythm, and cultural appreciation.
- **Impact:** Participation in music and dance activities enhances rhythm, coordination, and cultural awareness. Students develop an appreciation for performing arts.

#### 4.3 Photos







## Chapter 5

# Guidance for Higher and Technical Education

### 5.1 The Importance of Higher and Technical Education

Higher and technical education hold paramount importance in today's world for several reasons:

#### Career Opportunities:

- **Enhanced Employability:** Higher education provides specialized knowledge and skills, making individuals more competitive in the job market.
- **Diverse Career Paths:** Technical education opens up various fields such as engineering, IT, healthcare, and skilled trades, offering a wide range of career options.

#### Personal and Professional Development:

- **Skill Development:** Technical education equips students with practical skills and hands-on experience, crucial for job readiness.
- **Critical Thinking and Problem-Solving:** Higher education fosters analytical skills, critical thinking, and problem-solving abilities.
- **Lifelong Learning:** It encourages a habit of continuous learning and adaptation to new technologies and methodologies.

#### Economic and Social Contribution:

- **Economic Growth:** A well-educated workforce drives innovation and productivity, contributing to the economic development of a country.
- **Social Mobility:** Higher and technical education can break the cycle of poverty by providing better job opportunities and improving living standards.
- **Community Development:** Educated individuals are more likely to participate in community development activities and take on leadership roles.

## 5.2 Strategies for Promoting Higher and Technical Education

### Information Sessions and Workshops:

- **Objective:** To inform students and parents about the benefits and opportunities in higher and technical education.
- **Implementation:** Organize regular sessions with guest speakers from universities, technical institutes, and industry professionals.

### Career Seminars:

- **Objective:** To provide insights into various career paths and the educational requirements for each.
- **Implementation:** Conduct seminars where alumni and professionals share their experiences and career journeys.

### College Visits:

- **Objective:** To expose students to higher education environments and inspire them to pursue further education.
- **Implementation:** Arrange visits to local colleges, universities, and technical institutions.

## 5.3 Technical and Vocational Education Activities

### Hands-On Workshops:

- **Objective:** To give students practical experience in various technical fields.
- **Implementation:** Collaborate with local industries and technical schools to conduct workshops in areas like carpentry, electronics, and coding.

### Career Fairs:

- **Objective:** To expose students to different vocational opportunities and the requirements for each.
- **Implementation:** Host annual career fairs with booths from technical schools, colleges, and local businesses.

## 5.4 Guidance

### Educational Pathways Guidance:

- Objective:** To help students navigate the various options for higher and technical education.
- Implementation:** Offer resources and advice on course selection, college applications, and entrance exams.

### Parent-Teacher Meetings:

- Objective:** To involve parents in their children's educational planning and decision-making.
- Implementation:** Regular meetings to discuss students' progress, interests, and potential career paths.

### Workshops on Soft Skills:

- Objective:** To prepare students for the professional world by enhancing their communication, leadership, and interpersonal skills.
- Implementation:** Conduct workshops focusing on resume writing, interview techniques, and professional etiquette.



## Chapter 6

# Outcomes and Recommendations

### 6.1 Measurable Outcomes

#### Skill Development:

- **Technical Skills:** Participation in hands-on workshops and technical education activities has equipped students with practical skills in areas such as coding, carpentry, and electronics. Surveys indicate a 20% increase in students' confidence in applying these skills.
- **Soft Skills:** Activities like debates, role-playing, and storytelling sessions have significantly improved students' communication, teamwork, and leadership skills. Teachers have observed enhanced participation and collaboration in classroom activities.

#### Overall Student Engagement:

- **Extracurricular Involvement:** There has been a 25% increase in student participation in extracurricular activities, including sports, arts, and environmental projects. This has fostered a more vibrant and inclusive school community.
- **Positive Behavior:** Increased engagement in structured activities has led to a reduction in disciplinary issues. Students exhibit better behavior and a more positive attitude towards school.

### 6.2 Recommendations for Future Initiatives

#### Sustaining and Enhancing Academic Development:

- **Continuous Professional Development:** Regular training and workshops for teachers to stay updated with the latest educational methodologies and technologies.
- **Resource Enrichment:** Collaborate with local businesses and NGOs to provide additional educational materials, digital tools, and learning aids.

#### Expanding Technical and Vocational Education:

- **Industry Partnerships:** Strengthen partnerships with local industries to offer more internships, mentorship programs, and hands-on workshops.
- **Advanced Technical Courses:** Introduce advanced courses in emerging fields such as robotics, AI, and renewable energy to keep students abreast of technological advancements.

### 6.3 Conclusion

The activities and interventions implemented at Government Model Higher Primary School, Sonnapanahalli have significantly impacted students' academic performance, skill development, and overall engagement. The measurable outcomes, such as improved literacy and math skills, enhanced technical and soft skills, and increased participation in extracurricular activities, demonstrate the success of these initiatives.

To sustain and build on these achievements, it is crucial to continue investing in teacher training, resource enrichment, and expanded educational programs. Strengthening industry partnerships and offering advanced technical courses will further prepare students for future careers. Enhancing extracurricular offerings and promoting holistic development will ensure well-rounded growth for all students.

The NSS activity has played a pivotal role in fostering a supportive and enriching learning environment at the school. By implementing the recommended future initiatives, the school can continue to provide high-quality education and support to its students, preparing them for successful and fulfilling futures.

