Learning Together: College Students Nurturing Young Minds in Rural Areas"

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**INTRODUCTION:**

The SVPCET (St. Vincent Pallotti College of Engineering and Technology) has adopted a village initiative in which college students impart technical knowledge and skills to students from a local school in the village of Manapur, Nagpur. The initiative focuses on delivering core technical programs and practical learning experiences, with an emphasis on fostering skills in various areas of technology. This report outlines the key details of the program, the targeted outcomes, and its future goals**.**

**PROGRAM OVERVIEW:**

The technical program at Daulatkar Public School is conducted on weekends, specifically every Saturday and Sunday. It targets students from grades 7 to 10, providing them with exposure to critical technical subjects and skills. The initiative is led by a team of six student coordinators from SVPCET, who guide and support the students throughout the sessions. The program aims to provide a hands-on learning experience, focusing on practical applications in electronics, programming, and technology.

**PROGRAM STRUCTURE:**  
The program runs on weekends (Saturday and Sunday) for students in grades 7 to 10. It focuses on practical learning through hands-on experiments, with a project-based approach, where students apply their knowledge to real-world scenarios. The program is led by six student coordinators from SVPCET, ensuring continuous support and engagement.

**Core Technical Programs:**

1. **Electronics Fundamentals**: Basics of electronics and circuit design.
2. **Internet of Things (IoT)**: Sensor integration and IoT applications.
3. **Arduino Programming**: Programming basics using Arduino.
4. **Raspberry Pi Technology**: Hands-on projects using Raspberry Pi.
5. **3D Printing Technology**: 3D modeling and printing techniques.

**Additional Initiatives:**

* **STEM Workshops**: Promoting interest in science, technology, engineering, and mathematics.
* **Career Guidance**: Offering advice on career paths in tech fields.
* **Soft Skills Development**: Building communication, leadership, and teamwork skills.
* **Project-Based Learning**: Students apply technical knowledge to real projects.

**Impact Assessment:**  
The program has positively impacted students by enhancing their technical skills and fostering creativity through hands-on projects. Many students have successfully completed projects and developed a stronger understanding of technology, while also increasing community engagement and interest in STEM education.

**Future Goals:**

* **Expand Reach**: Increase program participation and geographic coverage.
* **Establish a Permanent Lab**: Set up a dedicated technical learning space.
* **Create an Online Platform**: Develop an accessible platform for remote learning and resources.
* **Form Industry Partnerships**: Collaborate with industry leaders for internships and career opportunities.

**Conclusion:**  
This program has significantly benefited students by providing hands-on exposure to essential technical skills and fostering critical soft skills. With its planned expansion and future goals, the initiative promises to further enrich students' learning experiences and inspire future careers in STEM.