

Report on Activities of the Fabrication Technology & Erection Engineering Department (FT&EE)

Student-Led Infrastructure Development as Social Responsibility

1. Introduction

The Fabrication Technology and Erection Engineering Department offers 3 years duration Diploma Programme at Government Polytechnic Panaji affiliated to the Board of Technical Education, Goa State and is A.I.C.T.E. approved programme.

The Department has consistently encouraged students to integrate academic learning with practical application. One of the most impactful initiatives undertaken by the department is the involvement of final-year students in projects aimed at developing and improving the physical infrastructure of the college. This initiative is rooted in the philosophy of social responsibility and the idea of “giving back” to the institution that has played a vital role in shaping their academic and professional journey.

2. Objective of the Initiative

The primary objectives of this initiative are:

- To provide students with hands-on, real-world engineering and technical experience.
- To foster a sense of ownership and responsibility towards the institution.
- To improve and modernize campus infrastructure through innovative, cost-effective solutions.
- To encourage teamwork, problem-solving, and project management skills among students.

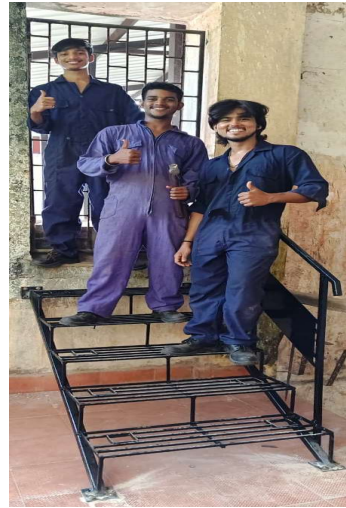
3. Nature of Activities

As part of Students Social Responsibility (S.S.R) students are encouraged to provide real life solutions by undertaking projects which improves the physical infrastructure of the Institute in a gesture to give back to the institution which has provided them with the platform to gain knowledge and skills. The Fabrication Technology & Erection Engineering (FT&EE) final year students over the years have Designed, Fabricated and Commissioned various projects, some of which are shown below:

- **Infrastructure Enhancement Projects**

Caption:
Steel Staircase
providing access for
rooftop solar unit

Batch: 2025-26



Caption:
Wheel Chair Access for
Main Building

Batch: 2024-25



Caption:
Steel Staircase for Main
Building (side entrance)

Batch: 2023-24



Caption:
Steel Chajja for Extension
wing Building

Batch: 2022-23



Caption:
Decorative Grills for
Outdoor Gas Bank of
Canteen

Batch: 2020-21



Caption:
Decorative Gate for
Auditorium

Batch: 2020-21



Caption:
Wheelchair Access for
College Library

Batch: 2020-21



Caption:
Shed for Garbage
Segregation Unit

Batch: 2019-20



4. Learning Outcomes for Students

Participation in these projects enables students to:

- Apply theoretical knowledge to real-life challenges
- Gain experience in planning, execution, and maintenance of projects
- Develop leadership and collaboration skills
- Understand budgeting, resource management, and time constraints
- Build a sense of pride and connection with the institution

5. Impact on the Institution

The initiative has led to significant improvements in the college environment:

- Enhanced quality of infrastructure with minimal cost
- Increased sustainability and efficient resource utilization
- Creation of a more engaging and modern learning environment
- Strengthening of the relationship between students and the institution

6. Social Responsibility and Value Building

This initiative instills in students the values of gratitude, responsibility, and community service. By contributing to the institution's growth, students learn the importance of giving back to society and using their skills for the greater good. It also encourages a culture where future batches are motivated to continue this legacy.

7. Challenges and Solutions

While the initiative is highly beneficial, it also presents challenges such as:

- Limited budgets
- Time constraints alongside academic commitments
- Technical and logistical hurdles

These challenges are addressed through:

- Faculty mentorship and guidance
- Proper planning and phased execution
- Collaboration among student teams

8. Conclusion

The FTEE Department's initiative of involving final-year students in infrastructure development projects is a commendable model of experiential learning combined with social responsibility. It not only enhances the campus facilities but also shapes students into responsible professionals who value contribution and community development. This initiative was possible due to support and encouragement from The Principal, stores department and with constant and active participation of Head of Department, Faculty, Technical and Supporting Staff and stands as a testament to the department's commitment to the overall holistic development of the Students laying a strong foundation for the Professional Growth along with Social responsibility towards society.

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I/c H.O.D

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G.P.P