## A proposal

## For

## By

**TECMPN B, Batch 4, group 4**

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## St. Francis Institute of Technology

## Borivali (W) Mumbai 400 103

**Executive Summary**

1. Project title: Modernization of Classrooms
2. Name of proposers: Group 4, Batch 4, TECMPN B
3. Address of Institution St. Francis institute of Technology, Borivali (W), Mumbai
4. Duration of project One year
5. Program cost Hardware cost INR 2,73,000

Networking cost INR 50,000(excluding internet cost)

Maintenance cost (as per need)

1. Brief Description

Current systems which we have in our class rooms for power point presentations are inefficient. One such system consists of CPU, keyboard, mouse and projector which costs around INR 10,000. To keep system operational, regular maintenance is necessary which gets added into original price. Slides are not visible properly on the last rows because of interference with classroom lights. All these problems can be solved by introducing tablet based presentation system in class. Tablets are cheaper than existing system and are easy to operate. Tablets will also facilitate e-learning with internet. Teacher can mail presentations to students and they can view those presentations on tablets, without having to stress their eyes for long periods looking at a particular section on the wall.

**Problem statement**

Computer systems which we use in classes are old and not based on modern technology. Systems require lots of maintenance to keep them operational and also have visibility problem which is a major drawback. These problems should be addressed in order to provide effective learning environment to students.

**Objective**

The objective of this proposal is to introduce a system which can provide an effective way of presentation and e-learning. Tablets will be the most cost-efficient option. Using tablets, students can view the presentations on their benches without stressing their eyes. They don’t have to look at the screen for the entire lecture. Apart from this, tablets can be used to surf online study materials provided by different universities. Teachers can also refer published papers from different organizations like IEEE and CSI etc to expand their knowledge of subjects. Overall objective is to make learning for students and teaching for professors easy, efficient and paperless.

**Technical plan**

We propose to implement it in one class first and then system can be introduced in all departments of the college according to feedback from teachers and students. The equipments which are required at present are listed below:

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| Equipments | Cost (In Lakhs) |
| Akash Tablets(78 pieces) | 2.73 |
| Networking charges | 0.50 |
| Cost of wiring | 0.07 |

After detailed study of the outcomes, cost of introduction in all three departments can be estimated and funds can be allocated.

**Management plan**

College administration can place the order for the tablets online which can be done directly on the website of Datawind Inc. Payment will be made on delivery. Since smart phones and tablets are very common among students, therefore no additional training will be required. Tablets can be networked indirectly via wifi routers which are already installed in building enabling students to share notes, study materials with each other. To restrict access to only informative websites software blocking systems can be deployed. For proper distribution, collection and maintenance of system pieces, a team of 10 people can be hired.

As per the syllabus of Mumbai University for TE IT and Computer Engineering, we propose to introduce this system as pilot project in any one class of TE IT or TE CMPN. Effects of this approach will be studied after one semester and evaluation will be done on the basis of class results and teachers feedback. If we get approval from administration, this system can be deployed in each and every class room within a time frame of one year.

**Cost estimate**

As initial estimate suggests, upgrading one class will cost the college around INR3.30 Lakhs. System does not has a fixed maintenance cost, maintenance will be necessary only if any piece is damaged. Wiring will be necessary to charge tablets in class room so this will be an additional investment.

Tablets will require less energy as compared to projector and CPU, so energy consumption will go down if we are the using new system. Maintenance cost of the new system is much less as compared to the existing one. Considering all these aspects it will be a onetime investment for college.

**Conclusion**

The aim of introducing a new system for presentations and e-learning based on modern technology in lectures is to make learning interesting, stress free and to reduce burden on teachers. Taking this approach we can also introduce distant learning to students. E-learning will help students to learn out of syllabus and to expand their scope of knowledge.