

e-Yantra Farm Setup Initiative (eFSI)

Model of engagement

- e-Yantra project develops know-how for setting up an automated agriculture project testbed to address **real world problem and hands-on learning for students** to apply theory in a **fun and productive manner**.
- This entails first generating a rich growing medium (soil) through **recycling dry biomass (leaves) and resource recovery of garden and kitchen waste** which is in sync with the municipal solid waste management agenda of both the central and state government and consistent with “Swachh Bharat Abhiyan”.
- Plan and execute the creation of beds for growing plants.
- Making the gadgets, tools, networked devices for **maintaining and monitoring the growth of plants**.

e-Yantra Role?

- e-Yantra **transfers this know-how** to interested eLSI colleges. This project Seeds as a live demo in the eLSI college where students “own” this project which serves as a base for **innovative projects which may also be presented as original fina BE projects**.
- Complete hand-holding in the **setting up of the demo-project** in the college premises for a fixed period of time.
- Providing documented procedures for the various steps involved.
- Provide a **list of required materials**, consumables etc for setting up the test bed.
- **Three day workshop** on Python and IoT, at various location preferably during the month of May/December.

What is expected of interested eLSI colleges

- Expression of interest – through a **letter of intent**, Committing resources and manpower, appoint a teacher as a coordinator of this project. Provide a caretaker for this project and a team of students comprising third year and second year students.
- Allocate garden or terrace space for this project to setup basic farm, which will include irrigation facility. We suggest the college to allocate approximately **150 sq. ft** of space, and **Rs. 25,000**. (This does not include land cost and supporting staff cost)
- The college should attend the 3-Day workshop conducted by e-Yantra.
- Develop/Implement a project provided to the college after the workshop.