

# Reboot

## Novel Innovation Nexus

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### **Purpose:**

Reboot is a general club designed to evolve the technical calibre of every member. The platform focuses on the development and innovation in the novel researches happening today. With maximum efficiency and passion we plan to build the fundamental platform for novel innovations in Model engineering college.

### **Objective:**

- Introducing every member to the world of scientific journal articles and current trends in scientific research.
- Providing hands on prototype making experience on the latest projects done by world renowned institutions.
- Promoting novel and innovative ideas into working projects.
- Providing work experience on the latest and most debated feasible technologies of the decade.
- Providing a platform for encouraging the passion for design and innovation among members.
- Providing support for start-up plans among members.

### **NIN protocol:**

- Novel and innovative projects having technology as the backbone with either exceptional quality or researched and published in the last decade are only considered.
- Each project is expected to be enhanced by at least one innovative concept and to be made open source if possible.
- Maximum allowable completion time for a project is 120 days.
- The projects and activities conducted by the club will be published in the club website.

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# Activity Procedure

The major activity conducted by the club will be product development. The activity is conducted in 4 phases:

- Phase 1: Project/Idea selection.
- Phase 2: Team formation.
- Phase 3: Development.
- Phase 4: Assessing improvement and implementation feasibilities.

## **Project/Idea selection:**

- The project selection should meet the requirements of NIN protocol.
- Current capital and funding procedures should be validated before starting a project.
- Project proposals should be assessed and studied thoroughly by the core team before accepting the same.
- The feasibility and time constraints should be calculated beforehand.

## **Team formation:**

- A typical team will be allotted 10 members (Depending on the project the number of member participation can vary) selected by the core panel.
- The team will be subdivided into groups, to work on specific parts of the project.
- During each meet-up the teams are compelled to present their work progress with the team members.
- Each team will have at least one core member for overall managing.

## **Development:**

- The project development is expected to be completed under 60 days
- Maximum allowable time for a project is 120 days.
- Documentation on work progress has to be published every 2 week by each group of a team accessible by the whole team.
- Electrical and electronic components required for projects will be provided by the core panel.
- Physical design and body of the product is expected to be done by the members using the Fabrication Lab facilities provided by the college.

## **Assessing Improvement and Implementation Feasibilities:**

- After prototype completion each project will be assessed for scopes in improvement and implementation feasibilities.
- If the projects are found implementable, then the necessary support for implementing the innovative product will be done.
- Implementation of the project can be done by incorporating the project plans into a start-up.

## **Member Contribution**

The member contribution for the project development by providing innovative ideas can be done via the official application or the official mailbox of the club. The ideas provided by the members can be an improvement to the existing projects or an innovative idea to be made into a new project. The innovative ideas of a member which is accepted by the core team for development will have the same member in its overall managing team. Every member in the team is to be mentioned in the documentations prepared by the team. The documentation procedures will be notified by the core team.

## **Institutional Support**

The institutional support is the fundamental backbone of the club.

- The club plans to conduct a weekly one hour meet up after class.
- We would like access to a room with projector functionalities for better communication regarding the activities.
- Better access to FabLab facilities.
- Appreciable institutional support for the promotional activities.

## **Organisation Structure**

Reboot is a general club, hence at least 2 members; preferably a male and a female, from each department, that is, Biomedical, Computer Science, Electrical and Electronics, Electronics and Communication and Mechanical engineering departments, will be made part of the core team. The club will be having a student as the Chair person and a working staff of Model engineering college as the Staff-In-Charge of the club, for overall managing of the club activities. Each core member will be selected by the previous core team enabling the club to continue its activities in the future.

## **Core Team**

The core team is the decision panel of the club consisting of at least 11 members of the club. The panel is formed to evaluate the project plans in terms of its feasibility, cost-effectiveness and value. The team is also responsible for conducting various events and activities as part of the club.

## **Online Content**

The club website will be hosted beforehand to the club inauguration. The activities done at the club will be regularly updated via the club website or the official club mobile application. The regular team documentation is visible via the app or the website under required restrictions. Innovative online activities are also promoted via the official website or the app.

## **Capital Management**

The club plans to collect a onetime registration fee of 200 INR for becoming a member of the club. This is the only fund directly raised by the club for its project related activities. The collected fund will be documented and saved only by the core panel. The fund will be used only for procuring the electronic and electrical components, tools and other materials required for the projects. The core panel can collect extra fund by notifying the members about its objective and requirement.

## **Connected Clubs**

The connected clubs is an innovative concept to connect the existing clubs in the institute to the new Reboot club for better and efficient functioning of every club. The Reboot club only provide hands on experience on the novel innovations. Workshops to teach the fundamental concepts of the technology used or funding for further expansion on the project into a business model doesn't come under the obligation or activities conducted by the club. The connected clubs is the solution for the above problem. Other functional clubs in the institute will be contacted if a workshop on a required subject is required. IEEE and IEDC units (or any other) in the institution will be approached if funding is necessary for implementing an innovative project.

## **Social Initiatives**

Innovative projects for social betterment will be the major criteria while selecting a project. At least one out of 10 prototypes successfully done is expected to be implemented.

## **Promotional Activities**

Hackathons, Online contests and other challenging events will be organised periodically for the promotion of the club. Every activity done under the club will be updated via the official website.