AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME

Details (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

The focus will be on training students so that they become imaginative and creative and stay so at the workplaces they join. Proposal: As the IDEA Lab is going to be a long-term intervention aiming to transform education imparted in the institution, the proposal must spell out a clear vision for the Lab, plan of implementation, mobilization of resources, strength and enthusiasm of faculty, utilization and expansion of facilities, etc.

Objectives (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

• IDEA Lab can facilitate the students and faculty to "engage, explore, experience, express and excel" as desired by the Hon'ble Prime Minister in the wake of release of National Educational Policy 2020, Purpose: The purpose of IDEA Lab is to provide all facilities under one roof, for conversion of an idea into a prototype. Proposal: As the IDEA Lab is going to be a long

• term intervention aiming to transform education imparted in the institution, the proposal must spell out a clear vision for the Lab, plan of implementation, mobilization of resources, strength and enthusiasm of faculty, utilization and expansion of facilities, etc. The alignment of activities with larger national goals/ missions/ initiatives or industrial requirements or serving disadvantaged sections of society etc.

Important Features (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

• The whole idea is to transform engineering education with such a Lab in all colleges and for this they must proactively expose all students to the IDEA Lab, organize training sessions for interested students as well as support projects and by providing online learning materials.

• To be equipped with facilities, tools and consumables to support translation of an idea to prototype development or develop solution of a problem.

• To provide necessary staff and all support facilities and amenities required to operate and maintain the Lab.

Benefits (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

• Financial Assistance: Estimated project cost per AICTE Lab is ■ 1,10,00,000/

• non

• recurring expenditures (covering the cost of equipment, tools and consumables) of■ 80,00,000/

• and recurring expenditures (covering the cost of events and activities for two years) of ■ 30,000,00/

• . AICTE can provide up to 50% i.e. ■ 55,00,000/

• . Training to Faculties and Students: Various types of training will be provided to the faculties and the students on creative thinking, problem solving, collaboration, etc. Activities to be conducted by an IDEA Lab: The following table lists activities/ events and their number/ frequency in AICTE IDEA Lab and there has to be commitment to conduct minimum numbers, to be eligible for sanctioning of the project.

■ Sr. No. Event & Duration Target & Batch size Objective & Justification Frequency/Numbers 1. FDP (06 Days) Faculty (20) Faculty needs to be trained on equipment, to be able to guide students and conduct events

• including those from other institutions Twice in a year 2. Skilling Programs (06 Days) Students (20

• 30) Training in areas like electrical and electronics fabrication, embedded systems design. Embedded programming, 3D printing, robotics, welding, IOT, Machine learning, AI, bio

• engineering, biomedical, etc One per quarter 3. Bootcamps (12 Days) Faculty (05

• 10) Training of faculty (including those from other institutions, spread over a few weeks, continuing at workplaces, if required Twice a year Twice a year 4. Ideation workshops (03

• 05 Days) Students (30

- 40) To generate ideas on which students can work in the IDEA Lab, including field visits Once in three months 5. Awareness Workshops for Industry (02 Days) Industry participants (5
- 10) Publicizing IDEA Lab among industries, to encourage them to use the facilities Once in three months 6. Internships (2 to 6 months) Students(15
- 20) For hands
- on training as part of their course
- work during summer and winter vacations. Internships based on industry problems should be preferred. As per curriculum. 7. Professional Skilling Programs (12 Days) ITI students or class 10/12 pass students (5
- 10) Welding, 3D printing, mechanical fabrication. etc Once in a quarter 8. School Teachers Awareness Program (06 Days) Teachers of nearby schools Demonstration and providing hands
- on experience of facilities Twice a year (during school vacations) 9. Projects by School Students identified by schools (10
- 15) Opportunity for school students to do projects Once a year (as per convenience) 10. Open Day for school students (one day) Students (class XI
- XII) nominated by schools (25
- 30) Exposure to facilities in IDEA Lab to ignite their minds (on Science Day/Technology Day/Teachers Day/ Engineers Day) Once a year (as per convenience) 11. Participation in annual technical exhibitions Nationwide IDEA labs Technical exhibitions etc For example, Tech FEST, Mind SPARK, etc. organized by renowned Institutions/ Industries, etc to showcase activities/products/prototypes developed in IDEA labs Once in a year 12. Newsletter Nationwide IDEA labs To disseminate information to all the labs about activities of other labs, technology issues, any interesting developments, etc. Monthly/Bi
- monthly 13. Webpage All stakeholders For web
- presence of IDEA Lab, and showcasing itself before the stakeholders and other IDEA Labs Weekly/Bi
- weekly updation 14. Annual conference/ symposium of all IDEA labs All IDEA Labs, DIY labs or similar labs across the nation/outside the nation also To promote active interaction, showcase of lab activities, promote collaboration at national and international level labs Once in a year ■ ■

Eligibility (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

- AICTE
- approved engineering colleges/ university departments in existence for having at least 10 years and at least one course with live NBA accreditation. ■ Aspiring institutions shall have to muster financial contribution to the tune of at least 50% for the IDEA Lab. Weightage will be given to additional quantum of funds, coming specially from industry. The institution must provide a built
- up and furnished space of 3000 sq. ft. to house. The institution must provide all support staff, facilities and amenities required to operate and maintain the Lab.

Application Process (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

- Registration Process: Go to https://idealnet.aicte-india.org/ and click on ' Log In' then on ' Register' button. Click on Get Details button. The details of the Institute including Name, Address and Email will auto populate. Now Enter your Institute's Permanent Id. Enter all the mandatory details. Set a password for and click on ' Register'. After successful registration, the applicant will get an e-mail for the account activation to the registered Email Id during registration. Click on the ' Verify Email' button in the e-mail to activate your account. ■ Post-Registration Process: After the successful account activation, you can login to the website using the email id and password: https://idealnet.aicte-india.org/login ■ Open the side menu bar and nagigate to the follwing tabs then fill the required data Click on ' Save' button to save the details: Institute Details
- HOI & Faculty Coordinator Details
- Build Up Area Details
- Credentials of Institute/Department
- Credentials of Chief Mentor(HOI)
- Credentials of Faculty Coordinator
- Credentials of Faculty Co-coordinator
- Proposal for the Project

• Now Navigate to 'Non-Recurring Expenditure' tab, This consists of Four tabs: Part-I (Equipment)
• Part-II (Consumables)
• Part-III (Tools) and Part-IV (Optional Equipment/Consumable/Tool). Fill the required data and Click on ' Save' button to save the details. Navigate to 'Non-Recurring Expenditure' tab, using the side menu bar. This consists of two parts: Part-I and Part-II . Fill the required data and Click on ' Save' button to save the details. Navigate to "Contribution to Budget" tab, using the side menu bar. Upload the files and click on ' Save' button. Navigate to "Preview & Submit" tab, using the side menu bar, Check all the filled details and can submit the application by clicking on 'Submit' button afterchecking the declaration. You cannot edit any details once submitted.

Documents Required (AICTE-IDEA (Idea Development, Evaluation & Application) LAB SCHEME)

• Quotations of Equipment/s (All quotations must be in a single PDF file only) Industrial Contribution Commitment Letter (File should be in pdf format only) Institute Contribution Commitment Letter (File should be in pdf format only) Endorsement from the Head of Institute (File should be in pdf format only)