

Best Practice 1

1. **Title of the Practice:** Financial assistance to students

2. **Objectives of the Practice:** • To motivate meritorious students for higher studies • To provide financial support to needy students • To motivate students for excellence in studies

3. **The Context:** The institute, with its vision to empower women is continuously working on making women education affordable to needy. Students admitted to the college are from varied background and from different regions. Financially weak students are not capable of paying tuition/ hostel fees and other fees. Hence such students are required to be supported financially for continuing their education. With this objective various scholarship programs have been initiated by college, parent organization and Cummins India foundation to support needy and deserving students viz Cummins nurturing brilliance scholarship, Persistent Scholarship, Paranjape scholarship and free-ship by MKSSS.

4. The Practice

I. Cummins Nurturing Brilliance Scholarship: This Scholarship from Cummins India Foundation is awarded to students from socially and economically disadvantaged background for pursuing diploma/ degree in Engineering or any other professional degree programs. The Scholarship includes the tuition fees, examination fees, expenses for stationery and books. Students are also gifted with a laptop. At the beginning of every academic year, students register online to submit their academic progress and proof of family income for getting the financial support. For selecting needy and deserving students, aptitude test is conducted for all the aspiring eligible students. Students shortlisted in aptitude are interviewed by Expert committee from Cummins India limited to select the beneficiaries.

II. Paranjape Scholarship: Manav Seva foundation had donated to Samstha in the name of Mr. Paranjape to help needy and deserving students of the institute. At the beginning of every academic year, students apply for financial assistance at the institute along with their academic progress and proof of their family income. Based on the submitted documents, students are shortlisted for interview. A college committee conducts interviews to select

needy and deserving students who are given financial assistance from the interest amount earned from the deposit of the donated amount by Manav Seva foundation.

III. Scholarship by Persistent foundation: "KIRAN": Girl's scholarship program First year engineering girls pursuing computer science/ IT with 70 marks in 10th and 12th standard and direct second year students with 60 in diploma having annual family income below 5 lakhs are eligible for this scholarship. Online registration and application starts in the month of August. Shortlisted candidates appear for first and second round of interview.

IV. Freeship by Samstha: Maharshi Karve Stree Shikshan Samstha provides a financial assistance to needy students by providing free-ship in their tuition fees/ hostel fees/ bus fees based on their academic achievements and financial conditions. V. Donations in kind by Philanthropists: Donations in kind received by samstha from time to time are also utilized for giving financial support to the most needy and deserving students of the institute.

V.LPF scholarship: Leela poonawala scholarship is given to students who belong to economically weak students. It is the scholarship provided on need base and first come first serve basis. Based on personal interview the students get scholarship for four years of graduation.

5. Evidence of Success: The students benefitted from various scholarships are doing well in their studies and completing their education with good academic record without any financial hurdle.

6. Problems Encountered and Resources Required: Large number of students requires financial assistance to continue higher education. But fund allocation is limited and hence institute is not able to help all needy and deserving students.

Best Practice 2

1. **Title of the Practice:** Exposure to students through projects under industry mentors

2. **Objectives of the Practice:** • To give exposure to students through projects • Industry-institute interaction • Make industry mentors available to the students

3. **The Context:** MKSSS' Cummins College of Engineering for Women, Nagpur is hosting **Innovex C2P 2021** event under IEEE Technology & Engineering Management Society (**TEMS**) in association with IEEE Nagpur subsection. The event is for taking **Concept to Product (C2P)** and has been planned to encourage product development at college level leading to entrepreneurship. The event will involve team of students coming forward with concept of product development, Academic mentor teacher and guide of the project from college, Mentor from Industry for product design and Venture Capitalist (in the final stage) as an angel investor to market the product. Entries are invited from students through Google form – {<https://bit.ly/3fj1SBY> }, to choose their project in any of the following sectors –

- **Emerging Technology** – AI/ ML/ IOT/ 3DP/ Robotics/ AR/ VR/ AI Cosmology/ Quantum Computing
- **Smart City** – Apps for Citizen facilitation/ Security/ Feedback to NMC/ Safety, Security, Pandemic Management/ Recycling of building material/Jaljivan Mission/Green building.
- **Health & Life Sciences** – Devices for health care/ diagnosis/ Covid 19 control/ ICU equipments, Genetics, Bio-engineering, herbal processing and extraction etc.
- **Agriculture** – Crop management/ Fertilizer management/ Equipment for crop handling/ Equipment for crop processing at farm/ Equipment for harvesting/ Water management
- **Lab2Land** – Experimentation set up/ Tools for activity-based learning for college/ schools' usage.
- **Societal Usage** – Apps, equipment's, instruments for giving solutions to day-to-day problems of general public, senior citizens, women, children/Domestic waste management.

4. **The Practice I.** The IEEE Engineering Management Society (EMS) was founded in 1951, becoming the Technology Management Council (TMC) in 2007. In 2015 it transitioned to the Technology and Engineering Management Society. IEEE TEMS Chair was introduced at IEEE Nagpur Subsection during slate formation for 2021. TEMS primarily works to foster active knowledge transfer between the academic and practicing communities with focus on Moving Product/Services from Idea to Market, Developing from Engineer to Leader and Integrating Technology for Capability and Productivity while Identifying and Implementing Successful Projects, and Systems. The event of Innovex C2P 2021 is

planned to be held from July onwards as a TEMS activity. This event is not a Hackathon. Rather it is ED promotional program involving inculcation of leadership qualities for product design and marketing.

The event will be held in three stages – Ideation; Product Development and Marketing. The first is the ideation stage to identify good C2P ideas. The presentations of ideas by students will be held on 30th & 31st July 2021 in sector wise breakout sessions. Each group shall present their idea in 5 minutes and mentors shall guide them about the product design flow for 15 minutes. The second stage will be prototyping and product development which will be of 4 to 5 months duration. The mentors will be associated with the student's group throughout the product development stage. The third stage will be Product marketing event to be held in December 2021, where Angel Investors will evaluate the product potential for large scale manufacturing and marketing.

IEEE student members shall register by paying fees of Rs. 100/- per students and Non-IEEE member student shall pay Rs.200/- per head. Academic mentor and industry mentors do not have to pay any fees. Students may bring their own Industry mentor or shall be nominated by event organizers. The academic mentors shall be compulsorily from the same college the student/s belongs to. Exciting cash prizes can be won by students presenting best C2P ideas. IEEE Student branch are advised to conduct ideation competition at their institution level to select best C2P ideas from their college.

5. Evidence of Success

The institute got a good response for this competition in terms of entries. It was categorised into 5 different categories viz

1. Societal use
2. Emerging Technology
3. Smart City
4. Health and Life Sciences
5. Agriculture And Lab to Land/Industry Applications

In total 70 to 75 students in 25 groups took part in the challenge and tried to give best solutions from their side to the problem statements.




Industry mentors were allotted to each group which was found a boost to the research for these students and every mentor guided the students by engaging their precious time in discussion with them in frequent meetings and sessions arrange

6. Problems encountered and resources required:

The ongoing pandemic was a big challenge in organising the event . Because all the students, academic and industry mentors were physically unable to meet and interact with each other. The online meetings wa sthe only solution. But the institute was able to manage these challenges even in a pandemic and overcome them by allowing frequent visits to industries and college facilities for the students.

The coordinating persons encountered certain issues like losing the students in the middle of the challenge due to their mindset of fear about completing the task. The industry mentors and coordinators with the help of academic mentors overcame this by counselling them and making them ready again to participate.

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A Complete Toolkit For
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Idea presentation categories

1. Agriculture
2. Societal Usage
3. Smart City
4. Health
5. Emerging Technology
6. Industry Applications

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For more details contact us
Mrunmayee Deshpande
70381 87133
Vanshika Trivedi
76675 23751



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Press note for INNOVEX

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Apla Nagpur | 2021-07-16 | Page-3
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कमिन्स महिला महाविद्यालयात 'इनोव्हेक्स कन्सेप्ट'

◆ नागपूर, १५ जुलै

कमिन्स अभियांत्रिकी महिला महाविद्यालय येथे आयईईई टेक्नॉलॉजी अँड इंजिनीअरिंग मॅनेजमेंट सोसायटीच्या अंतर्गत 'इनोव्हेक्स कन्सेप्ट टू प्रॉडक्ट' कार्यक्रमाचे आयोजन करण्यात येणार आहे.

या कार्यक्रमात कन्सेप्ट टू प्रॉडक्ट या विषयासोबतच महाविद्यालय स्तरावर प्रॉडक्ट डेव्हलपमेंट करून उद्योजकतेकडे जाण्यासाठी कसे नियोजन करावे याचीही माहिती देण्यात येणार आहे. तसेच उत्पादनाच्या विकासाची संकल्पना, शैक्षणिक मार्गदर्शक आणि शिक्षक, प्रकल्पाचे मार्गदर्शक, उत्पादनाच्या

डिझाईनसाठी उद्योगातील मेंटार आणि व्हेंचर कॅपिटॅलिस्ट, उत्पादनाची बाजारपेठ करण्यासाठी एंजेल इन्व्हेस्टर म्हणून विद्यार्थ्यांचा समावेश असेल. सहभागी उद्योन्मुख तंत्रज्ञान, स्मार्ट सिटी, आरोग्य व जीवन विज्ञान, कृषी, लॅब टू लॅब व सामाजिक उद्योग यापैकी संबंधित क्षेत्राशी निगडित कोणत्याही प्रोजेक्टची निवड करू शकेल. कार्यक्रम कल्पना, उत्पादन विकास आणि विपणन या तीन टप्प्यात केला जाईल. पहिल्या टप्प्यात योग्य सी २ पी मधील कल्पना ओळखण्यासाठी भर देण्यात येईल. सेक्टरनिहाय ब्रेअकॉट सत्रामध्ये विद्यार्थ्यांनी केलेल्या कल्पनांचे सादरीकरण ३० व ३१ जुलै २०२१ रोजी करण्यात

येईल. प्रत्येक गट आपली कल्पना पाच मिनिटांत सादर करेल आणि सल्लागार त्यांना पंधरा मिनिटांच्या उत्पादनाच्या डिझाईनच्या प्रवाहासाठी मार्गदर्शन करेल. दुसरा टप्पा प्रोटोटायपिंग आणि उत्पादन विकास असेल त्याकरिता चार ते पाच महिन्यांचा कालावधी असेल. तिसरा टप्पा डिसेंबर २०२१ मध्ये प्रॉडक्ट मार्केटिंग इव्हेंट असेल ज्यात एंजेल इन्व्हेस्टर मोठ्या प्रमाणात उत्पादन आणि विपणन यांच्या संभाव्यतेचे मूल्यांकन करतील. उत्कृष्ट कल्पना सादर करणाऱ्या विद्यार्थ्यांना रोख बक्षिसे दिली जातील, असेही कमिन्स महाविद्यालयाने सांगितले.

◀(तभा वृत्तसेवा)