



HKBK COLLEGE OF ENGINEERING

7.2.1 Best Practices

Best Practice 1:

1. Title of the Practice: “Students’ Holistic Development Mentoring System”

2. Objective of the Practice

HKBK College of Engineering being a self-finance institute has the privilege to admit from a diverse spectrum of students getting eligibility from various national and international Boards of Higher secondary education and Pre-University. This scenario imposes a challenge for the faculty members to bring synergy in teaching methodology. Also, the social and geographical diversity of students pose the complex problem to the teacher to synchronize the teaching. To help students acclimatize to the environment, a two-week orientation program is conducted for the freshers. The orientation program team consist of senior faculty as coordinators, mentors, student welfare committee coordinator and student counsellor. The evaluation report helps -

- To identify the strength and weakness of each student.
- To inculcate sense of discipline and social responsibility.
- To help students choose the domains that suit them the most in their professional growth.
- To collect feedback and ensure that problems (both academic and non-academic) are addressed to the satisfaction of all stake holders.

3. The Context

The following issues prompted the Institution to adopt the holistic mentoring system.

- Some of the students lack the basic analytical and logical skills which are essential to be do well in Engineering. Such students stumble initially leading to the loss of year, or even drop out.
- Some students with weak financial and social background fall a prey to self-doubts about their skills and lose interest in studies and ultimately discontinue the program.
- Family and social pressure make the students lose track of their focus on the course. Students get astray and fail in first year.
- Conflicts in attitudes, habits, and adaptability due to cultural diversity need to be resolved and improve the learning practices among the students.

4. The Practice

In the beginning of the first semester, fifteen days orientation program is conducted. The initial classes are focused in conducting quiz; MCQ based written test and interaction of mentor faculties with students. The orientation program is based on co-academic, cultural and social outreach and extension activities. The Institute has set up various clubs in the field of art, literature, technology hobby, music and social activities. During orientation program students participate in activities like collage, debate, visit to historical places, orphanage, old-age home. The orientation program ensure that every student participate in class room, sports and social activities. Mentors/ coordinators prepare the evaluation report everyday based on activities.

At the end of orientation program, students’ strength and weaknesses are identified. Mentors interact with students on regular basis to follow up the progress of the student.

- A group of 15-20 students is assigned to mentor who is faculty member.
- The mentor is provided mentoring diaries which is regularly updated during one-on-one interaction with student whenever the IA test / Semester end results are received. The mentor advises the mentee as to how best to improve the performance
- The mentors arrange remedial and tutorial classes for slow learners.
- Mentor maintains the student information. HOD monitors the mentoring dairies periodically.

5. Evidence of Success

- Students' program dropout rate declined.
- Students' engagement in academic and co-curriculum activities increased.
- Academic performance of the students improved.

6. Problems Encountered and Resources Required

During this practice execution, various problems are encountered. Students exhibit large inertia to get into the program activities. The inspiration by mentors and diverse activities enable the students to be participative in the program. The diverse social, linguistic and geographical background was hurdle to get students together. The team building exercise through problem solving, sports events and club activities helped to overcome it. This practice requires extensive coordination between academic and supporting functions departments to ensure required logistics and resources are available in time.

Best Practice 2:

1. Title of the Practice: "To create an enabling environment within HKBKCE to foster research culture"

2. Objective of the Practice: The goal of this practice is -

To create an enabling environment within HKBKCE to foster research culture and to strengthen research in all the fields of Engineering and applied science.

2.1 Create the culture for inter-disciplinary collaborations and a platform for knowledge sharing.

2.2 Publish research findings through dissemination in peer reviewed journal.

2.3 To support scholarly development of academic staff and to encourage diversification of scholarly outcomes.

3. The Context:

- To achieve high quality research ambience, a research development committee has been established to strengthen the R &D activities within the Institute.
- Identify the thrust and emerging areas of research and development and to motivate the faculty members.
- To monitor and enhance the quality of ongoing research programmes, projects and the research Infrastructure within the Institution.
- Guiding the faculty members to develop incubation centres.
- Guiding the researcher to ensure that the research funds are spent in time to achieve the desired outcome.
- To foster the development of multi-disciplinary research endeavors across faculties and departments through maintaining a database of research and development activities.

4. The Practice

- Faculty members who have taken efforts to write and publish books / chapters are encouraged and honoured with incentive as indicated below. Contribution to full Book/chapters with ISBN or ISS are considered for rewards. Publications under "Letters to the Editor", "Editorial", "Case-study report", Communicates, etc. are not qualified for rewards.
- HKBKE will support prospective researcher who expects a significant outcome by providing suitable seeding fund and encourages the researcher with preliminary investigations such that they can approach the funding agencies

5. Evidence of Success:

- The number of publication increased.
- The number of faculty members participating in research doubled.
- The number of patents increased.
- The number of book chapters and books published by faculty members increased.

6. Problems Encountered and Resources Required:

Though the institute has research qualified faculty members and research scholars registered in institute and other university, but the research publications and patents quantum from the institute was not upto the mark. The regular motivation from institute leadership and well defined research incentivized policy helped to overcome the inertia.