



BHARTIYA VIDYABHAVAN – DAKOR KENDRA

**BHARTIYA VIDHYA BHAVAN'S
SHRI ISHVARLAL L. P. ARTS, SCIENCE & SMT. J. SHAH COMMERCE COLLEGE DAKOR**

CRITERION – 7

KEY INDICATOR – 7.2 :- Best Practices

2017-18 to 2021-22

Best Practices

Higher education has become competitive and in order to survive the competition, institutions have to improve the quality of education imparted by them. Level of skill required in securing employment for students, institutions develop innovations and best practices which add value to education. Science and technology are growing alarmingly and consequently the knowledge base of all disciplines are fast expanding. The educational system is invested with the responsibility of absorbing, assimilating and delivering the new knowledge to its students. Student centric focus is gradually shifting to student friendly approaches as a result of which innovations and best practices are adopted to add value and get more mileage in delivering the knowledge.

Bhavan's College, Dakor was established by a great visionary and founder of Bhartiya Vidya Bhavan Kulpati Dr K.M. Munshi. The institute strives to instill fundamental values of education and cultural aspects associated with it. The institute offers bachelor and master degree programme in Science. The institute supports research based learning, exposure based learning, experiential learning, and laboratory based learning. Value addition is incorporated in teaching through adding extra sessions over and above the prescribed syllabus for insight development. Weak students and slow learners are supported through tutorials, counseling and mentoring.

Title of the Practice: Bhavan's Science Community Center

Goal: The goal of Bhavan's Science Community Center in this practice is to avail opportunity for students who want to excel in science faculty with high aspirations. The role of Bhavan's Science Community Center is to focus on activities apart from formal classroom teaching for students which shape the attitude as well as career of the student. Bhavan's Science Community Center focuses on three main areas:

1) Support system for competitive exams : The students through appearance in such exams test their capability. Competitive exams encourage students to work hard , improve their knowledge and skills. The goal of this practice is to identify shortcomings

and concentrate to rectify it. The goal is to promote healthy competition amongst students and competition builds confidence as well as sharpens skills which raise their level from other students on the same platform.

2) Arrange expert lectures on current trends in science: Guest lecturers at a college are usually experts or well-known in their field of expertise who provide insight in current trends in science, significance of events . They provide valuable Information from their experiences which would be a real help to the students.

3) Celebration of National Science Day: National Science day is celebrated by Bhavan's Science Community Center every year in the month of February. National Science Day is celebrated in India on 28 February each year to mark the discovery of the Raman effect by Indian physicist Sir C. V. Raman on 28 February 1928.

Context: Students who have studied in vernacular medium at secondary and higher secondary level at rural place find difficult to grasp essence of the core subject. They are sometimes burdened by this mismatch and are not sure how to prepare the subject in its totality. Activities by Bhavan's Science Center have an important role to play in shifting educational landscape for students. It helps to develop a scientific temper and attitude among students. They also find it difficult to correlate various concepts within the discipline. Students when appear for competitive exams such as NGPE, Minaxi-Lalit, CPEX, realize the future scope available to them. They are also unaware about their career prospects and preparation for such exams boosts their confidence regarding career prospects. Students are also encouraged to design innovative experiments in laboratory and participate in completion so that they can conceptualize theory into practical skills. Expert lectures keep students updated about the current trend in their respective fields and also guide them about future prospects in their career. Participation in activities related to National Science Day helps to spread a message about the importance of

science used in the daily life of the people. It is celebrated to encourage the students as well as popularize science and technology.

The Practice:

1) Support system for competitive exams :

Bhavan's Science Community Center informs the students about the following exams:

- **NGPE:** National Graduate Physics Examination (NGPE) conducted by Indian Association of Physics Teachers (IAPT) It is conducted on 3rd Sunday of January each year. Scholarships are offered to students. Since last ten years, Bhavan's College, Dakor has been recognized as an examination center and favorable response has been received from students to enroll for the examination.
- **CPEX:** Competition on Physics Experiments is conducted by Indian Association of Physics Teachers(IAPT). According to the framework of the competition, first a cluster level (institutes affiliated with same University or proximity)competition is held and from winners from various clusters , a state level competition is held among the winners and winners from state level are sent to national level competition. In the inaugural year of the competition 2017,Bhavan's College, Dakor won the cluster level as well as state level completion .
- **NCEWP:** National Competition for Essay Writing in Physics(NCEWP) is one of the three national competitions being held by IAPT every year. The competition is open to college students. Attractive cash prizes plus books / CD will be awarded to the winners separately in categories and the prize distribution takes place during the annual convention of IAPT. Students from Bhavan's College, are encouraged to participate in the exam .Since

2017 students have responded and are eager to participate in this competition . The submission of essay along with one day seminar sponsored by Gujarat Council on Science and Technology(GUJCOST) and Indian Association of Physics Teachers (IAPT-RC7) is held at Science City, Ahmedabad in the month of July.

- Minaxi Lalit Exam: These exam is conducted by Sardar Patel University

- 2) Arrange expert lectures on current trends in science:** Bhavan's Science Community Center invites experts from various disciplines to conduct guest lectures, seminars, and workshops on various topics and trends related to the current curriculum. Experts act as resource person in the enhancement of the student's educational experience. Launching of Chandrayaan-II was live telecast in the classroom and latter on an expert lecture was arranged to reveal significance of the mission to students. Director of Community Science Center, Sardar Patel University was invited to inspire students for a visit to Community Science Center and participate in various activities conducted by it. Faculty members from Postgraduate Departments of various institutes were invited in the field of Chemistry to reveal their expertise to the students.
- 3) Celebration of National Science Day:** Bhavan's Science Community Center celebrates National Science Day every year with various activities like Poster Competition Experimental Models and interactive talk from invited guest . A day long activities motivate the students for participation with their creative ideas in poster presentation and science models related to Chemistry. They are judged by distinguished guests from various institutes invited to interact with students and guide them in the right direction with suggestions, advice and cautions.

Evidence of Success:

Students have shown remarkable change in approach towards their studies. They are eager to interact more with the faculty members with new ideas. Students who participated in events like CPEX realized how students of other institutes prepare themselves for the competition and they learn new ideas and methods from while interacting with those students. The results of their university examination also reflect the success of this practice. One of the most important benefits derived from having expert lectures is the enhancement of the student's educational experience. Students attend these lectures for current trends and challenges of their field. Students have become more vocal in their demand for increase in such activities.

Problems encountered and Resources required: Constraint of time plays a major role for students as they are attending the college from a distant place with rural background. The semester system of education leaves little room for preparation. They face language barrier as their schooling, communication is in vernacular language and so resources available are limited.

Title of the Practice: Mentorship Programme.

Goal: A mentor is an “experienced and trusted adviser”. The goal of adopting this practice is to build confidence, develop resilience and character apart from academic skills of the students. Effective mentoring is pivotal for the development of students. Mentoring is a learning process where helpful, personal, and reciprocal relationships are built while focusing on achievement; emotional support is a key element. It is a relationship designed to build confidence and support the student so they are able to take control of their own development. The goal of the mentor is to listen, ask questions, provide advice on career development, offer different perspectives, provide support and encouragement, provide an insight into students work and career.

Context: Mentoring is a valuable strategy to provide students with emotional and instrumental support needed to achieve the goal of a college degree. By providing information, guidance, and encouragement, mentors can play an important role in nurturing students. Students need mentors to assist in navigating the complexities of higher education, and the uncertainty as well as anticipation of they will face after during and after college life. Mentors keep students’ best interests, abilities, skills and talents in mind, giving them the influence and guidance they need to reach their highest potential. Whether students enter college with a clear career path in mind, or they are confused with their options, mentors can help them discover and develop their interests and innermost passions. Mentoring for students in college helps them to feel more connected and engaged on campus, which can ultimately improve student outcomes. College mentors can have a life-changing effect on a student’s career by empowering them with the guidance, confidence and skills necessary to succeed.

Practice: Initially students are explained the concept of mentoring. They are given examples of certain situations where they might need someone to talk and how they can confide to mentors about their confusion such as choice of career, exam preparation, goal setting, interview skills or unforeseen circumstance which may lead to stress. They are also provided a feedback form related to express their views about the institution and its environment. Students are engaged in discussions and a bond is bridged between the mentor and the student. They are asked to approach the mentor anytime and are assured of availability when needed. Students are assured that the problems discussed with the mentor will be confidential if they wish to seek guidance. Periodically at the end of the lecture in the classroom views of students are solicited by the mentor regarding any event occurred in the institution and their opinion about it. Students are encouraged to be more vocal about their views .

Evidence of Success: The self-esteem and confidence of the student has become positive. Their awareness about their limitations has improved and they have started exhibiting a mature approach to any situation being face by them. Students very easily connect with their mentors and do not hesitate in discussing their problems and also exhibit fresh ideas, views regarding it. Students are now more focused about their individual development. A distinct change in routine behavior of some students is seen. Their communication with the mentors has improved and their relation is now more vibrant.

Problems encountered and Resources required: Sometimes due time is not allotted to the mentorship program because of academic schedule followed. Time management is required to implement the practice more effectively.