

Best practices

The College has efficiently sustained the quality of education and has always worked in achieving the institutional objectives. Efforts are made in order to enhance the quality of college activities by the virtue of which the institutional objectives are achieved. Best practices are in process to develop the scientific temper and research culture among students and impact of the same on the disadvantaged section of the society.

Best Practice-I

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Title of the Practice: “Popularization of Basic Science among Rural High School Students”

Objectives

- To propagate scientific temper among rural high school students.
- To create an inquisitiveness and excitement in learning science through hands-on experiments.
- To educate basic science avenues.
- Application of scientific concepts in day today life.
- To relate learning of science to the environmental consciousness.
- The popularization of basic science among rural high school students, who represent the future of the country, is of strategic significance to us. It offers immediate platform for education, communication, and inculcating scientific temper among rural high school students.

The Context:

This practice is aimed at creating science awareness among the rural high school students, which will play an important role in supplementing classroom science teaching, the beneficiary of this practice are the ones who are deprived of laboratories and practical exposure to scientific equipments.

Our faculty actively participates in science experimental demonstrations to students for teaching the basic concepts of science. In high school education and later on, basic science education is an important subject in which science and its applications can be brought to student's attention to make them more aware of such subjects and hopefully encourage them to choose basic science related subjects and studies later on in their future career.

The ultimate aim of this is to enable the rural students to take up learning in basic sciences would create a generation of scientists and professionals who are proficient in the field of science.

The Practice:

For popularization of Basic Science in rural villages "Basic Science Popularization Cell"

has been established in our college to organize the programme "Popularization of Basic Science among Rural High School Students". The Cell includes the expertise from various departments. This cell identifies the target beneficiaries, prepares the plan of action and monitors the execution of set plan. The expert teachers of our college interact with the students to arouse interest and curiosity in basic science subjects through presentations, experimental demonstrations, and use of models, charts, video clips with a live interactive session. In the interactive sessions, students were well responded and got the adequate answer with experimental proof with our resource persons. Encourage rural students to choose basic science related subjects in their higher studies. The hands on training help in OBE (outcome based education) which is in tune with the National policy of higher education.

The Constraints / limitations encountered during this practice are interrupted power supply in rural area during the experimental demonstration and presentation and difficulty in getting permission from school administration.

Evidence of Success:

As per the objectives of this best practice, the team of expert faculty visited rural high schools and able to achieve the following set targets.

- Students were motivated to prepare and exhibit science models in regional and state level science exhibitions.
- Improvement in examination performance in science subjects.
- Increase in the enrollment of students for basic science subjects.
- Observed enhanced creativity and learning ability
- Enhancement in environmental consciousness

Problems encountered and resources required: Difficulty in getting permission from school administration.

- Need to have mobile laboratory
- Due to time constraint it is difficult to conduct programs during the regular college hours by the expert teachers of our college.

Notes:

In view of change in syllabus at high school level, the college has provided the platform for training teachers to update their knowledge.

- The college regularly organizes exhibition for the students to exhibit their scientific models
- The college is already engaged in sharing this best practice with other colleges and their staff. Our faculty members have been invited by other colleges to motivate this type of best practices in their college.

Best Practice – II

Title of the Practice: “Class Room Seminars”

In the global scenario, the students of our college are exposed to need based employable curriculum; ICT based teaching learning devices and projects to inculcate research culture. In this backdrop to develop global competence the college is practicing class room seminars to achieve the following objectives.

Objectives

- To strengthen communicative skills - power of speaking.
- To provide a platform to overcome a stage phobia.
- To develop self confidence, presentation skills and data-mining skills.
- To encourage for self study and reading reference books.
- To use computer and internet facilities for updating the knowledge.
- To develop intellectual and professional competence.
- To ultimately generate scientific minded citizens to take up higher studies and research.

The Context:

The college has many best practices which are beneficial to students and is leading us to achieve good results in their academic and overall performance of the student there by helping them to be socially responsible citizens. The best practice “**Class Room Seminars**” plays an important role in supplementing student’s academic excellence.

Class room seminars are helps to UG and PG students to improve and develop self-management skills, critical-thinking skills, practice oral, written communication skills to explore and engage in higher order thinking activities related to a topic from an academic area for the global competence.

The Practice:

In today's complex and competitive academic environment in higher education in India, specialized approaches and best practices alone can act as catalysts for quality improvements in the system as a whole. Thus, the college has the policy and culture to motivate and promote the participation of students in seminars. The faculty members of each department guide/prepare the UG and PG students in presentation of seminars in their subjects. Since, presentation of seminar is an important part of the third component of continuous internal assessment (CIA) of a student; each student is presenting a seminar in disciplinary-based or popular topic. Standard set of objectives have been approved, monitored and evaluated by the faculty of the respective department of the College.

By presenting seminars students are able to develop –

- Academic survival and success strategies (e.g., active reading, deep learning techniques, oral and written communication skills).
- Self-management skills necessary for academic success (e.g., time-management and goal setting, motivation, self-responsibility and concentration).

- Academic disciplines, faculty expectations, and academic integrity.
- Explore their strengths and learning styles and engage in higher order thinking activities related to a topic from an academic area.
- Interaction with faculty member and peer academic leader.

Evidence of Success:

- Improvement in data mining, Presentation and communication skill.
- Use of ICT based tools.
- Great academic strides can be made when two or more minds come together, which makes the students advising relationship one of great importance for the advancement of one's field.
- Increase in count of students participate and presenting in seminars and conferences.
- Increase in student awards for oral and poster presentation in seminar and conference.

Problems encountered and resources required:

Maximum man-hours are a constraint, faculty along with daily teaching, organizes the event to train the students. Due to increase in the strength of the students it is difficult to conduct seminars during the regular college hours by the faculty. Initially the response of students' was not encouraging, so faculty felt that the students were unable to come forward due to lack of communication skills and English language. Hence the faculty emphasizes to motivate and encourage students to develop these skills with the help of language teachers but after motivation and encouragement by the faculty, students have come forward to present seminars and also presented research/review papers in national/international seminars/conferences.

Notes:

- The college regularly encourages the students to present seminars and papers in national seminars and conferences.
- The college provides financial help to present their seminars/papers in national seminars and conferences.