

Best Practices (2019-20)

In our college we conduct TWO best practices. • Science Association • Research Motivation Scheme for Budding researcher

1) Title - Science Association

Science Association is an extension programme. In order to inculcate scientific temper among the students and to reveal the scientific principles through hands on experiments. The College aspires to focus on the over all personality development of the students along with the academic excellence. It is one of the best practices used to realize the goals of the college the empowerment of rural student and bringing about social changes. Context In the direction to achieving goal, at the starting of college, a science association is established. In this Principal of college appoint one Assistant professor as a coordinator of science association. The Coordinator make different committees of students like refreshment committee, Rangoli committee, Stage decoration and Arrangement committee etc. Initially a tentative schedule of programs is prepared, then coordinator assign responsibility of each activity or Programmes to one teacher of science association committee as an observer and guide.

Objective 1. To motivate students to collect and communicate scientific information and update their knowledge about science and technology. 2. To acquaint students to the thrust areas of science there by develop their scientific temperament. 3. To sensitize students towards current global environmental issues like plastic waste, environmental pollution, electronic waste, sustainable biodiversity protection. 4. To provide students an opportunity to interact with experts from different spheres of science. 5. To inculcate interest and build confidence among the students whose academic performance is average or below average. 6. To create interlink between UG and PG students. 7. To give encouragement to innovative ideas of students. 8. To bring forth the team spirit and leadership qualities of the students.

The Practice –

The goal of the practice is to ensure all round participation, Over the last years, the college has been organizing different programs and activity under science association conducted and managed by the students and teachers. Initially association makes a tentative schedule of programs or activity taken. Last two-year association conduct following activity. i) *Power point presentation competition for B.Sc. students* -Microsoft power point presentation Is an easy program to use for presenting and sharing their ideas and information, to creates curacity and creativity to create self-confidence when presenting their ideas on power point presentations, to create awareness about preparing power point presentation, animations, ii) *Cyber Security Awarness*- cyber security awareness refers to how much end users know about cyber security threads there networks face and the risks they introduce, which are the precautions need during the online payments apps are used to pay bills, and how to protects their network from outside threads and reduce vulnerability (harmful effects)to create responsibilities among the students while handling the electronic gadgets, to create social awareness and social responsibilities while using internet and mobiles, to create awareness about cyber security and cyber laws, iii) *World Ozone day celebration* – to provide information about their role in maintaining the healthy earths it is celebrated to spread awareness among students about depletion of the ozone layer and search possible solutions to preserve it. Ozone layer acts as shield to protect earth's surface from the harmful ultraviolet radiations, students should know about how to protect ozone layer, the collective decisions and action, guided by science are the only way to solve major global crises, the ozone layer a fragile shield of gas protects the earth from the harmful portion of the rays of sun and helping to save life on the planet. A number of chemicals have been found to be extremely damaging to the ozone layer. iv) *Model presentation*

competition-making a working model of science create a fun, new excitement towards students. To motivate the students to create and transform their ideas in making model. To create self-confidence while preparing their model also create social awareness and cooperation among the group members, V) *Aptitude test of basic science for B.Sc. and B.A. student*. To create an interest and check primary basic knowledge of student chemistry association organizes aptitude test for all B.Sc. and B.A. students. The paper of this test is completely set by M.Sc. student also they run exam and evolution of paper too. Paper of aptitude test is based on basic knowledge of mathematics, science, computer science, environmental, general knowledge, history and other basic question. vi) *Seminar competition for students*. In today's education system communication skill and presentation is a most important part of personality development. For that association organized seminar competition of student. Topic of seminar competition related to prescribed syllabus. iv) *Essay competition*. For a different latest issue, we invite essay from B.Sc. and B.A. student and it is evaluated by expert from college. vii) *Science day celebration*. This is the last activity of Science association on the occasion of science day we invite a guest talk on science, recent trends in science, what is contribution of India research in today's science.

Obstacle Encountered and Resources Required

1. Most of students of college are living outside the town, so they cannot give extra time for programs of activity of association because their bus esteeming. 2. For many Works College students are depends on other because they don't have some equipment like Laptop, Computer, and Xerox. 3. College has a very small auditorium. 4. Association does not have sponsor.

Impact of the practice

1. The college motivates the students to have increased involvement in the programs organized by the chemistry association. 2. Student response is very good that's why we teachers feel very satisfactory.

Resources required

A college requires a separate auditorium equipped with all audio visual facilities to conduct different programs of the association

2) Title Research Motivation Scheme for Budding researcher

It is an appropriate forum to promote research-oriented study amongst U.G. and P.G. Students. This venture will go a long way in creation of conducive research atmosphere among student's community

Context

In the direction to achieving goal, at the starting of college each department select some students which have interested in research. A topic of small research project, survey, field project is given to students. Teacher observes each activity of students and guides them to prepare a project or a review article on the research topic.

Objective

1) To Strengthen the research activity 2) To encourage Students and motivate them towards research 3) Improving Participation of Students of U.G. level in interdisciplinary research activities. 4) Creating an interest in research in students through individual or group research project.

The Practice

In order to inculcate scientific temper among the students and to create interest in research a college decided to start a Research Motivation Scheme for the students of undergraduate level. The teachers of the college motivate students of S.Y. and T.Y.B.Sc. to use ICT tools for collection of research articles, thesis different types of eresources. Some Departments arrange guest lectures of eminent personalities on the subject related to research activity. The activity likes preparation of review article, a small research project a ppt presentation on various current issue are performed under this scheme

Obstacle Encountered and Resources Required

1) Lack of equipment like Laptop, Computer, and Xerox. 2) Less no of research journal 3) Insufficient amount of funds to carry out research project.

Impact of the practice

1) The college motivates the students to do research. 2) After doing such a research activity at undergraduate level it becomes easy for the students to perform their research project while doing their M.Sc. 3) Students get familiar with various scientific techniques.

Resources required

A college required Research laboratories equipped with relevant scientific equipment