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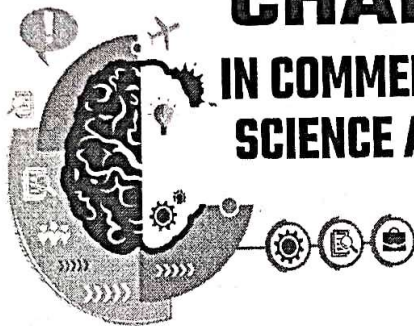
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ICCHST-2022



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Innovative Ways to Teach Chemistry: A Case Study

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Abstract:

Teaching any subject in inspiring, innovative and creative manner is the need of time. Various authorities like UGC, NAAC focus on Teaching, Learning and Evaluation to great extent. In addition to classroom teaching if we inculcate the subject in creative way then students can understand it and remember it and can do application of it in better way.

Keywords: Teaching Method, Innovative Activities, Learning, Evaluation.

Introduction:

Chemistry is recognized from the scientific community as a 'central science', since it connects different disciplines such as biology and medicine, nanoscience and material science.^{1,2} Traditional teaching method, static textbook, lack of interactivity and difficulty in visualization of the abstract chemical concepts makes the subject chemistry less interesting.³

It is established fact that well-implemented innovative learning material is effective to improve the students' competence; learning outcome in experimental class is found higher than that in control class; the guided task in the learning package facilitates the students to learn the selected Chemistry topic independently which in turn shifts student learning style from lecturer-oriented to student-oriented; the guided task not only made the students be familiar with searching for scientific documents to complete the given tasks but also improve the students' ability to write and organize their assignments.⁴ Improving students competence to provide appropriate knowledge and skills to deal with professional works becomes a challenge in education nowadays.⁵

Taking into consideration syllabus of undergraduate Chemistry various activities are planned and implemented. The Arts, Science and Commerce College, Chikhaldara has developed the concept of teaching the subject Chemistry in innovative manner. Every year Department of Chemistry organizes different competition related to subject in which students take part in enthusiastic manner.

Poster Presentation:

During the academic year 2015-2016, Poster Presentation Competition was organized for all the students of B.Sc.III(S5) in the subject Chemistry. In this theme of competition was scientist. Total 22 students participated in this competition.⁶ All the students choose different scientists like C.V. Raman, Rutherford, Thomas Edison, Homi Bhabha, D Broglie, Venkatraman Ramakrishnan, Dalton, Marie Curie, Lord Kelvin, Dr.A.P.J. Abdul Kalam, Mendeleev etc for their posters. The students made posters in different manner. Posters were put on display in campus. All the students of the college watch these posters and got inspiration to participate in such activities when their turn comes. In the afternoon, through the panel 03 judges all posters and presentation were evaluated and top three students were awarded with prizes. We found students were very much happy for being the part of this activity.

Periodic Table Poster Competition:

During the academic year 2016-2017, Poster Competition was organized for all the students of B.Sc.II(S4) in the subject Chemistry. In this theme of competition was Periodic Table. Total 44 students participated in this competition.⁷ In this competition as per the theme students choose different sections of periodic table to be focus on. The different sections of focus was d-block, 3d-series, halogens, noble gases, 5d-series, s-Block elements, Carbon family, Oxygen family, Boron family, p-Block element,

ML



Modern form of periodic table etc. Most of the posters were very very beautiful, colourful and magnificent. Some of the students use three dimension effects to present their drawing of posters. On watching all the posters we came to conclusion that students are more creative and imaginative than we ever think about them.

Element Presentation:

During the academic year 2017-2018, Element Presentation Competition was organized for all the students of B.Sc.II(S4) in the subject Chemistry. The students were asked to prepare T-shirts with the symbol and name of an element printed on it. The students discussed among themselves and choose elements so that they all get different elements. On the day of presentation students were asked to wear these T-shirts for full day in the college. Presentation was in afternoon session till then all the students of the college were curious about these kind of T-shirts. Presentation was organized in open space so that not only students of B.Sc.II(S4) can see the presentation but all the students can watch the activity. Now, student present himself/herself as though he/she is the element printed on his/her T-shirt. As the presentation moves on students started enjoying the presentation very much. All the students present the elements in very unique, enjoyable and beautiful manner that we can not imagine. This activity proved to be very innovative. Total 46 students took part in this activity.⁸ On listening the element presentation we came to conclusion that students are more creative and artistic than we ever think about the them.

Geometry Representation Using Balloons:

During the academic year 2018-2019, Geometry Representation Using Balloons Competition was organized for all the students of B.Sc.II(S4) in the subject Chemistry. The students were asked to select any geometry/structure of their interest. The students discussed among themselves and choose geometry so that they will cover all the different geometries.

The students were asked to use balloons to present geometries. On the day of presentation students brought their balloon models of geometries from their place of stay. All those who saw these models were curious about it. Presentation was in afternoon session till then all the students of the college were curious about these kinds of geometry models. Presentation was organized in open space so that not only students of B.Sc.II(S4) can see the presentation but all the students can watch the activity. As the presentation moves on students started enjoying the presentation very much. All the students present the geomerty in very distinctive, agreeable and striking manner that no one can imagine. This activity proved to be very innovative. Total 44 students took part in this activity.^{9,10,11} On listening and watching the geometry presentation we came to conclusion that students are more innovative and imaginative than we ever think about the them.

Phytochemical Investigation of Medicinal Plants:

During the academic year 2019-2020, Phytochemical Investiation of Medicinal Plant Competition was organized for all the students of B.Sc.II(S4) in the subject Chemistry. The students were asked to select any medicinal plant of their liking. The students discussed among themselves and choose plant so that they all get different plant. All the students were provided a format for phytochemical investigation of medicinal plant. The format includes common name of plant, botanical name, family, morphology, phytochemical present, uses etc. All students brought sapling of the selected plant in the college for presentation. All students are made to present their findings and knowledge about the plant as if they themselves are plants. Students have done presentation enthusiastically. Evaluation of the presentation was done with the criterion having titles such as presentation, correctness of data, plant knowledge, questions and answers, time management and script. The prizes were awarded to top two students. Total 36 students took part in this activity.¹²

Conclusion:

The students took part in these innovative activities viz. Poster Presentation, Element Presentation, Geometry Representation Through Balloon, Phytochemical Investigation of Medicinal Plants, Poster Making Competition enthusiastically. During the process of activities students shows keen



interest to better their performance. After completion of activities students always asked for such activities in regular manner. Considering the interest and enthusiasm of students we are doing different kinds of innovating activities to teach chemistry.

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