

LAL BAHADUR SHASTRI GOVERNMENT DEGREE COLLEGE

SARASWATI NAGAR-171206

DISTT. SHIMLA H.P.

7.2.1 BEST PRACTICES

1. TITLE: OUTREACH PROGRAMS FOR CLASS XTH STUDENTS OF NEARBY SCHOOLS

Objectives: To motivate Higher Secondary Students to opt for Science Discipline and to increase the strength in Science Stream in our institution

Context: Students become aware of various experimental activities and gets exposed to the scopes of science in their lives. Institution provides a better platform to the students opting for the Science in their higher studies.

Practice: The Department of Chemistry, organized a session on **Two-Days Experiential Chemistry Workshop**, for higher secondary students on 17.10.22 & 20.10.22. Mrs. Anjana Rathore (TGT Arts) & Mrs. Gautam Devi (Craft Teacher) from Govt. Model Sr. Sec. School, Saraswati Nagar joined the event along with their 20 students of Class X, whereas, Day-2 (20.10.22) witnessed the turnout of 42 students of Class X from D.A.V. Sr. Sec. Public School, Saraswati Nagar along with Mr. Vinay (TGT Science). A splendid powerpoint presentation was delivered by Dr. Shallu which exposed the students to science in daily lives and the laboratory practices. Main focus of the event was to motivate Higher Secondary Students to opt for science discipline in their higher education and to overcome their fear of science inculcated due to lack of practical experience amid COVID-19. The motto was well taken care of by science students from B.Sc. 1, B.Sc. 2 and B.Sc. 3 of our college by enthusiastically performing various experimental activities designed for the workshop such as, Measuring pH of different substances like Coffee, Milk, Curd, Dove Soap, Patanjali Soap, Detergent, Vinegar, Baking powder, Lemon Juice, Water, etc., Acid-Base Neutralisation, Lime Water Experiment, Elephant's Toothpaste, Lava Lamp, Artificial Volcano, Blue Bottle Experiment, Fire Experiment, Bollywood Blood and Blood Group Test. All these MAGIC EXPERIMENTS were conducted for making the students understand the LOGIC behind the MAGIC. The school students were also given a Hands-On the experiments so as to promote learning through experience.

Evidence of Success: A total of 20 students of class X with their teachers Mrs. Anjana Rathore (TGT Arts) & Mrs. Gautam Devi (Craft Teacher) from Govt. Model Sr. Sec. School, Saraswati Nagar joined the event on day 1, whereas, Day-2 (20.10.22) witnessed the turnout of 42 students of Class X from D.A.V. Sr. Sec. Public School, Saraswati Nagar along with Mr. Vinay (TGT Science). All the students were enthusiastically watching and understanding the experiments.

Problems Encountered and Resources Required: People in this area have orchards as their economic source so the students lack interest in the subjects like sciences and maths. They are also not much aware of the scopes and future of sciences. Students need to be motivated at junior school level about sciences. Career counseling and remedial classes must be provided to the students to overcome their doubts and queries.

DAY-1 (17.10.22)





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Note : CHEMISTRY WORKSHOP DAY 1

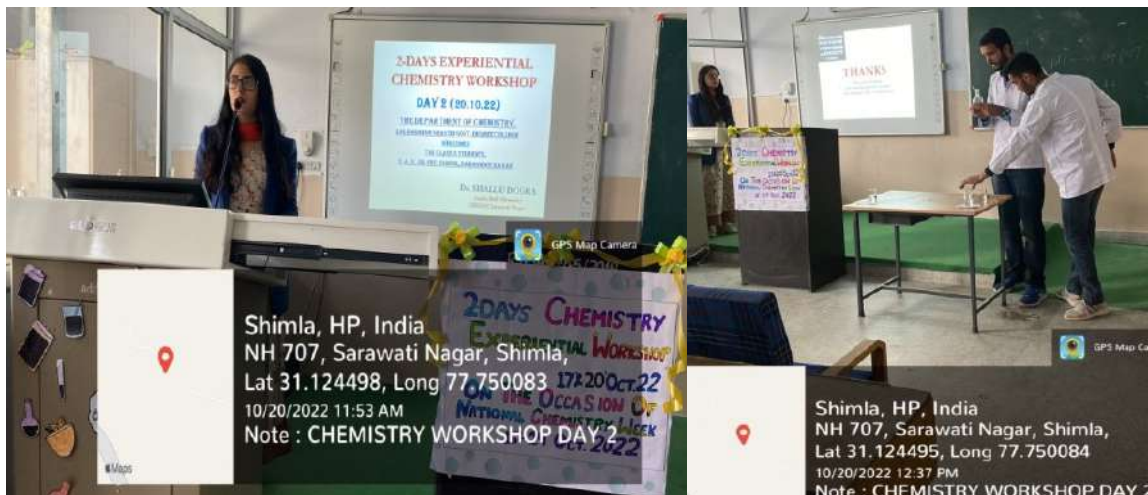


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DAY-2 (20.10.22)



2. TITLE: EXPERIENTIAL LEARNING

Objectives: 1) To motivate students to learn through observation and by doing not just mere reading

2) To have a better understanding of the course material

Context: In the modern education system the teaching learning process has shifted from the old rote learning method to experiential learning. So this is a need of hour to practice the same in each classroom for the effective understanding.

Practice: A session of 'Experiential Learning' was conducted for the students of Science, Arts and Commerce on 20th August, 2022.

Dr Poonam Mehta, Dept. of Philosophy, conducted a Seminar cum Workshop on the topic 'An Exploration into one's Potentialities and Means to their Actualisation' for BA III Students. The students were first educated about the concepts of Svabhava, Svadharma and Purusharthas. They were educated by giving several illustrations about the importance of identifying one's Svabhava, following one's Svadharma and leading one's life in accordance with Purusharthas. They were motivated to explore into their Svabhava and then explore into viable options for their Svadharma, in other words, professions best suited to their temperament. The students were provided a thorough insight into the invariable truth that the secret to a happy, stress free and a contented life lies in the practical application of these concepts. They were also motivated to become self-disciplined and to do Yoga everyday in order to become physically fit and to make mind clear, focused and peaceful. The Session ended with the chanting of Gayatri Mantra.

Asstt Prof Ravi Prakash, Dept of Hindi conducted Seminar cum Workshop for BA 1st & 2nd Year Students. Students were taught to use Google Docs, to create notes in Google Docs, to change the color of words, to change the size of characters, to add pictures and links etc. to notes, to edit a file of note, to save the notes on the phone and sent in popular forms like Word and PDF on mediums like WhatsApp, Telegram and email

Asstt. Prof Sandeep Thakur, Dept of Commerce conducted a Seminar cum Workshop on the Income Tax, Entrepreneurship, E-commerce and online shopping for Commerce Students. They were educated by giving several illustrations about the importance of Online Business, ITR and Marketing through internet. In these classes, students learnt various aspects of online Marketing and E- Business.

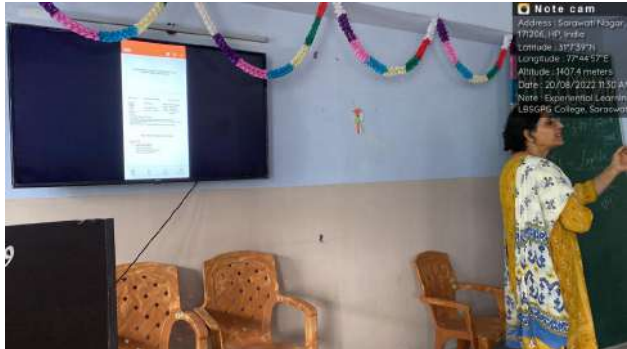
Dr Shallu Dogra, Dept of Chemistry, conducted a Seminar cum Workshop and also presented a paper on the 'Experiential Learning in Science' for the Science Students. The event was further divided into some sub-topics i.e., Science In Daily Life, Acid Rain, Synthetic Milk, Measuring pH Of Different substances like Milk, Curd, Dove Soap, Patanjali Soap, Detergent, Yeast solution, Vinegar, Baking powder solution, Lemon Juice, Tomato Juice, Water, etc. Heart Health & CPR Technique was elaborated to students through a video as well as via verbal explanation. Soil samples from three different places i.e. Hatkoti, Badhawali and the College were analyzed by taking their pH, and studying their Microbial Diversity and Water Retention. Study of live active cultures of Milk, Curd, Yeast and Soil samples was also conducted under the microscope. Some Magic Experiments like Blue –Bottle Experiment, Hot Ice, Paper burning etc. were also conducted for making the students understand the Logic behind the Magic. It was a very engrossing session and our students came up with a lot of enthusiasm to perform all these experiments that gave them a meaning of science in their daily lives and extracted maximum out of this session.

Evidence of Success: These sessions on experiential learning were attended by 36 Students of BA III with Dr Poonam Mehta, 96 Students of BA I & II with Asstt. Prof. Ravi Prakash, 22 Commerce students with Asstt. Prof. Sandeep Thakur and 39 Students of Science Stream with Dr Shallu Dogra. There was lot of enthusiasm among the students while learning so much new things and it was immensely beneficial for the students. It was helpful for them to understand their course material more deeply and increased their insight to many new things to explore.

Problems Encountered and Resources Required: Lack of awareness about many new technological aspects and inhibition in the minds of the students has been observed. More and more such awareness programs are required in future to acquaint them with all the new techniques and innovations in the teaching learning process.

EXPERIENTIAL LEARNING

Dr Poonam Mehta, Dept. of Philosophy (BAIII Students)



Asstt. Prof Ravi Prakash, Dept of Hindi (BA I & II Students)



Asstt. Prof Sandeep Kumar, Dept of Commerce (Commerce Students)



Dr Shallu Dogra, Dept of Chemistry (Science Students)



MICROBIAL DIVERSITY OF COLLEGE SOIL



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