
Sant Shiromani Guru Ravidas Government College, Sargaon
Dist-Mungeli (C.G.)

Dr. N. K. Singh
Assistant Professor
Department of Botany
Extension Activities and Social Services

File No.....

Sant Shiromani Guru Ravidas Government College,
Sargaon, Dist-Mungeli (C.G.)

One Day Seminar
on
Science in Daily Life

Organized by Faculty of Science
(Departments of Botany, Zoology & Chemistry)

Date:- 28th Feb 2022

Time:- 12:00 AM

Mode:- Online Digital Google Meet



Dr. S.P. Ambasth
Principal & Patron



Resource Person
DR. R. V. Shukla
Retd. Professor of Botany
CMD PG College, Bilaspur, C.G.



Dr. N. K. Singh
Asst. Professor,
Department of Botany



Prof. A. K. Toppo
Asst. Professor,



Dr. Sandhya Patre
Asst. Professor.

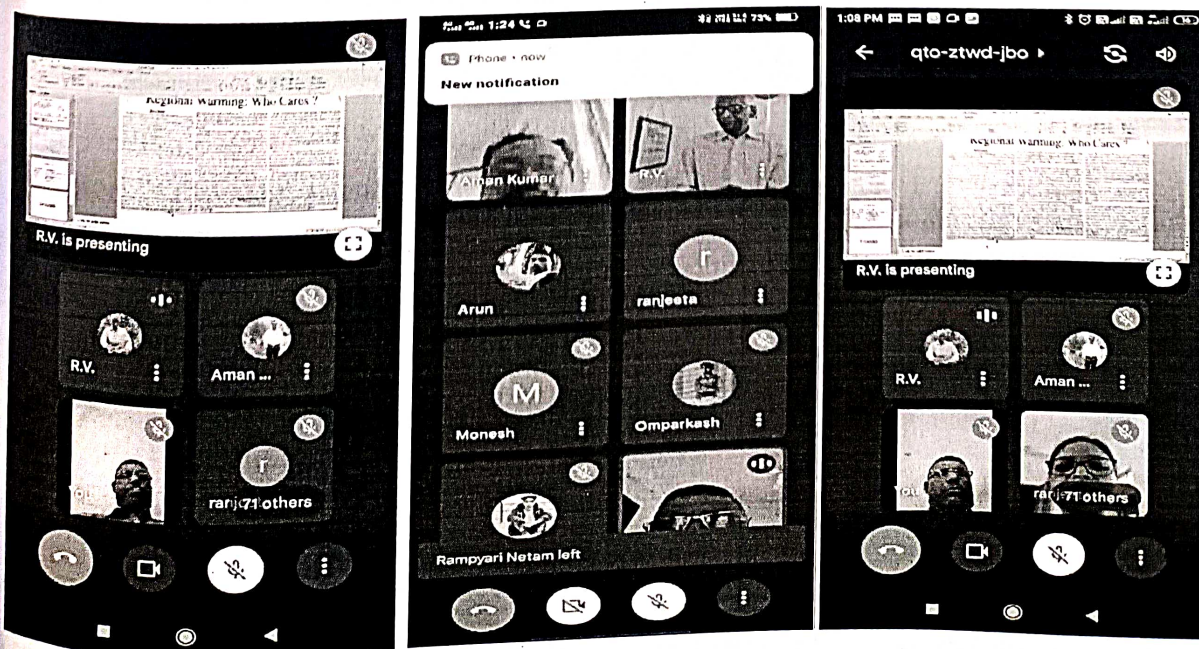
Office of the Principal
Sant Shiromani Guru Ravidas Government College Sargaon, Dist-Mungeli (C.G.)
 (College Code-2904) www.ssgrgcsargaon.ac.in email- ssrgovtcollegesargaon@gmail.com

Sargaon, Date 28.02.2022

Report of the Seminar /Webinar held on the National Science Day, 28/02/2022

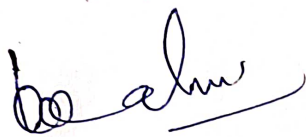
A one day seminar/webinar was organized on the National Science Day, 28/02/2022 by the faculty of science (Departments of Botany, Zoology & Chemistry). The chief guest and resource person of the seminar was Dr. R. V. Shukla, retired Professor of Botany, CMD P.G. College, Bilaspur, C.G. Participants were the teachers of science faculty and students of B.Sc.-I, II and III. Due to limited space of 100 participants on google meet, the students of other faculties were not invited. In the beginning, Dr. N. K. Singh, Assistant Professor of Botany introduced the chief guest to the participants. The Principal and Patron of the seminar, Dr. S. P. Ambasth addressed the participants and requested them to utilize the teachings of Dr. Shukla. During his speech, Dr. Shukla covered following current topics –

1. The interdependence of plants (forest), animals and mankind over the planet.
2. Impact of deforestation on environment and human beings.
3. Environmental changes and onset of viral and other epidemics.
4. Hazards of traditional agriculture which is based on the use of chemical fertilizers and many other agrochemicals.
5. Need of organic farming in agriculture based countries like India.



Further, he quoted the phrase "LAUT KE BUDDHU GHAR KO AAYE" which is very much popular all over India while mentioning the necessity of cow dung compost in agriculture. Since the time immemorial, such composts are being used for this purpose. Interestingly, he suggested the participants to adopt environment friendly habits in our daily life. Being the Head of the Department of Chemistry, Dr. Sandhya Patre explained how the chemical fertilizers are damaging the fertile soil and changing its chemical and physical properties.

At the end of the seminar, Prof. Aman Kumar Toppo, Assistant Professor of Zoology presented vote of thanks to the resource person and the participants.



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REPORT OF THE EXTENSION ACTIVITY

Date : 30.11.2021

Venue : Panchayat Bhavan, Salfa, Sargaon, Dist-Mungeli, (C.G)

Topic of Discussion : Organic Farming

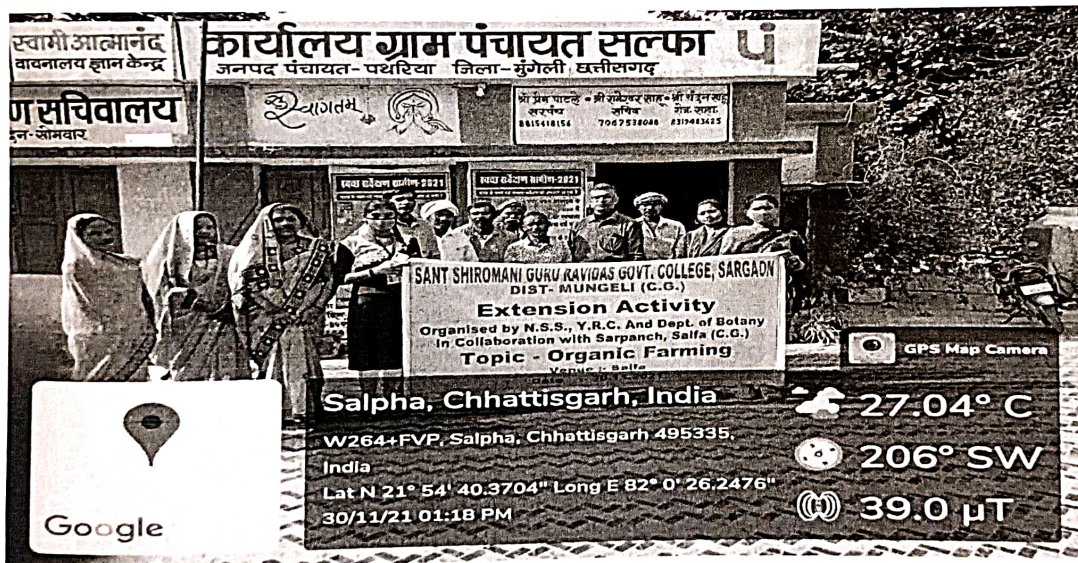
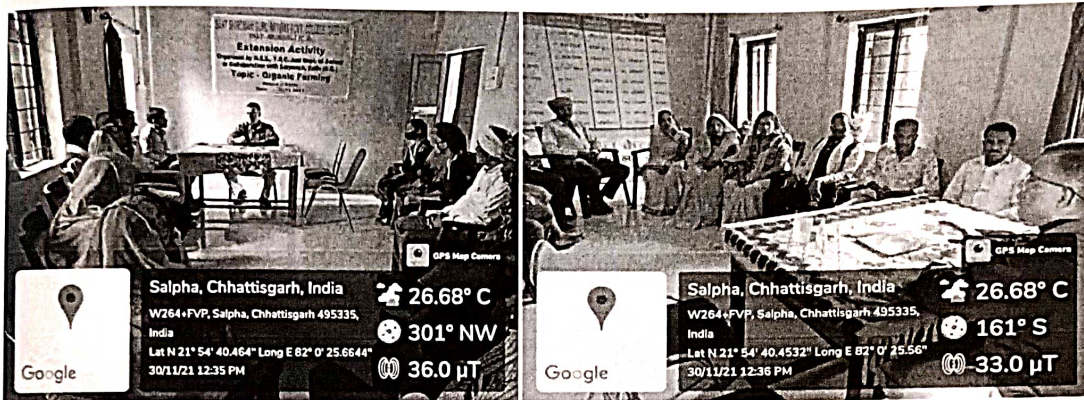
Organised by N.S.S.,Y.R.C. and the Deptt. of Botany in collaboration with Sarpanch, Salfa (C.G.)

Topic – Organic Farming

An activity under extension program was organized by NSS, YRC and the department of Botany on the date 30.11.2021 in Salfa village which is located near our college. Prior information was given to the Sarpanch after which he gave the approval for this extension activity. They provided the space for discussion on the topic “Organic Farming” in Panchayat Bhavan of the Village. Prof. Anuradha Diwan and 17 students were also associating with Dr. N.K.Singh, the resource person of this program. About 20 villagers including male and female participated in this program. After explaining the objectives of extension activities, the necessity and benefits of organic farming were explained to the farmers. The chemical composition of the crop produce including rice and wheat, hazards of chemical fertilizers, pesticides, insecticides, fungicides, plant hormones and other agrochemicals was also explained by speaker. The discussion also included the national and international scenario of trade of food grains and other agricultural produce.

In the course of discussion, we came to know about the scheme of organic farming being run by the state government in the villages of Chhattisgarh. The village krishak mitra (farmer’s friend) deputed by the panchayat told that over 100 acres of land in Salfa village is under the system of organic farming. Farmers are getting special assistance of Rs. 10,000/- per acre for organic farming from the government. They also

shared their views about the limitations. They told that they are not getting organic fertilizers/compost as per the demand. It has resulted into the loss in per acre production of paddy crop. Remedies for improving the crop yield was given to farmers by Dr. Singh. The program was very fruitful for the villagers.





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**List of students who participated in the Extension Activity organized
in the village Salfa, Sargaon, Dist. – Mungeli on 30.11.2021**

1. Manisha Sahu, B.Sc. I
2. Maithili Sahu, B. Sc. II
3. Neha Sahu, B. Sc. II
4. Durgeshwari Nishad, B. Sc. II
5. Ajay Sahu, B. Sc. II
6. Lala Sahu, B. Sc. II
7. Karan Kumar Kaushal, B. Sc. II
8. Anjali, B. Com I
9. Ekta Sahu, B. Com II
10. Jyoti Koshle, B. Com II
11. Chandan Rajput, B.A. III
12. Rupa Sahu Sahu, B. Com. II
13. Durga, B.A. III
14. Rashmi Lahre, B. Sc. II
15. Shweta Jaltare, B. A. III
16. Sanju Verma, B.Sc. II
17. Rahul Verma, B. Sc. II


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**REPORT OF THE ONE DAY SEMINAR
(Organised by the Faculty of Science)**

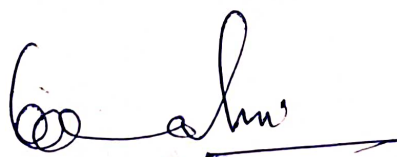
On the Topic

Interdisciplinary Nature of Chemistry

Resource Person : Dr. M. R. Augar,

Department of Chemistry, Government Agrasen College, Bilha, District – Bilaspur, C.G.

On the eve of the National Science Day (28th of February, 2021), an one day seminar/webinar for our B.Sc. students was organized online on the date 24.02.2021). Dr. M.R. Augar, Head of the Department of Chemistry, Govt. Agrasen College, Bilha, Bilaspur was the chief guest and resource person of the event. The topic of the seminar was “Interdisciplinary Nature of Chemistry”. In the beginning, Dr. S. P. Ambastha, Principal and Patron of the program welcomed the guest speaker and conveyed well wishes for all the participants. Dr. Sandhya Patre, Asstt. Professor, Chemistry of this college introduced the guest with the participants. She also briefed about the scope of Chemistry and its interrelationship with other branches of science. In his speech, Dr. Augar emphasized that chemistry is related to the structure and chemical and physical properties of all types of molecules. Henceforth, it may be regarded as the mother branch of science. The success story of molecular biology and medical sciences is in fact the story of the development in the field of chemical sciences. All the discoveries like development of antibiotics, antibodies, antigen related vaccines, monoclonal antibodies and the active biomolecules/compounds which are used in the treatment of various ailments are the products of chemical researches. Even a living cell may be regarded as a chemical factory from where thousands of chemicals are being produced at a time. The live properties of a cell are due to the intricate mechanisms of DNA, RNA duplication/replication and biosynthesis of active proteins which themselves control enormous biochemical reactions inside the living cell.



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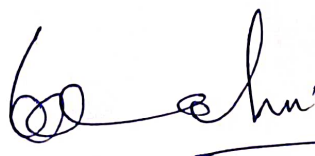
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REPORT OF CO-CURRICULAR ACTIVITY

Collection and Identification of plants as Herbarium specimen from the area around the college campus

As a curricular/co-curricular part of Botany practical activity, collection of plants in the area of 1.00 km around the college campus was organized for B.Sc. II year students twice in the session 2021-22. The first activity was carried out after the rainy season on the date 26 October, 2021 and the second one was organized after the harvest of paddy crop on 20 December, 2021. Before, the students were taught about herbaria and the herbarium specimen. The technique of herbarium specimen preparation was also taught in the class. Knowledge of information technology was also used for the purpose of identification of plants. I along with all the students were delighted to see the taxonomic details of plants just after getting the photograph from their mobile sets. Following plants were collected as the specimen of herbarium-

1. *Cyperus rotanrous* - Cyperaceae
2. *Cynodon dactylon* - Graminaceae
3. *Heliotropium europeanum* - Boraginaceae
4. *Eclipta alba* - Asteraceae
5. *Parthenium arvensis* - Asteraceae
6. *Cassia tora* - Fabaceae, Caesapinoideae
7. *Alternanthera sessilis* - Amaranthaceae
8. *Achyranthus aspera* - Achyranthaceae
9. *Boerhavea diffusa* - Nyctaginaceae
10. *Ipomoea spp.* - Convolvulaceae
11. *Echinocloa spp.* - Graminaceae




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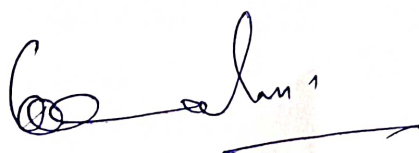
REPORT OF CO-CURRICULAR ACTIVITY


Identification of weeds prevalent in paddy fields of Sargaon Area

Chhattisgarh is popularly known as the “bowl of rice” due to large scale production of rice in the state. As a natural phenomenon, many weeds grow in the paddy fields which affect the production the crop. Therefore, weeding is essential for better paddy production. An activity of identification of weeds prevalent in the paddy fields of Sargaon was conducted on the date 17.09.2021 for the students of B.Sc. III. The paddy field located in the west of college campus was selected for this purpose. Almost 42 students of the class were present during the activity. Weeds from the crop field were weeded out and carried to the laboratory for the purpose of identification. They were identified manually and also with the help of certain apps like plantnet and plantsnap. Following weeds were collected and identified from the field-

1. *Cyperus rotandrous* (Motha grass) - Cyperaceae
2. *Asteracantha longifolia* () - Acanthaceae
3. *Marsilea quadrifolia* (Charpania Bhaji) - Marsileaceae
4. *Echinicloa colonum* (Wild rice or Barnyard grass) - Graminaceae
5. *Cynodon dactylon* (Doob grass) - Graminaceae
6. *Scirpus* spp. (Club rushes) - Cyperaceae

At the end of the activity, students were taught about the importance of weeds. The physiology of weed plants that how these affect the production of the crop was described. The necessity of weeding was also explained to the students.




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