

Y.A. GOVT COLLEGE FOR WOMEN, CHIRALA
DEPARTMENT OF BOTANY



FROM OCTOBER 2021-2022

Submitted by

G.Nirmala Kumari

Lecturer in Botany

&

K.Vedasri

Lecturer in Horticulture

Departmental Activities 2021-2022 from October 2021- 20th January 2022

S.No	Name of the Activity	Date/Year	Organiser/Guest/Incharge
1.	Two-day webinar	23 rd & 24 th November, 2021	Dr.Ch.Ramanamma G.Nirmala Kumari
2.	Field Trip	06/02/2022	G.Nirmala Kumari
3.	Student Seminars	10/12/2021 16/12/2021 30/12/2021 06/01/2022 07/01/2022 09/02/2022 10/02/2022 16/02/2022 23/02/2022	G.Nrmala Kumari K.Vedasri
4.	Group Discussion	29/10/2021 30/11/2021 30/12/2021	G.Nirmala Kumari
5.	Plant Exhibition	28/02/2022	K.Vedasri
6.	Field work		K.Vedasri

Activity Name: Two-day National; Webinar on “Recent Advances in Plant Sciences”.

Date: 23-11-2021 & 24-11-2021

Description: The two day webinar was organized by the Department of Botany, YAGC(W)Chirala on 23rd and 24th November, 2021 at 11.00AM in its endeavor to empower students and the faculty about the recent advances in plant sciences. On the first day the first session was started by our Principal and the convener of the webinar madam Dr.Ch.Ramanamma. Our principal has warmly welcomed the guests and the participants to get benefited from the lectures of the resource persons of the webinar. The first day of webinar took place on 23rd November, 2021. On the first day, Prof.N.Savitramma garu, Principal, College of Sciences, Tirupati and Dr.P.Ponmurugan, Associate Professor, Bharathiyar University delivered their lectures. The second day of webinar took place on the 24th November, 2021. Dr.P.Ponmurugan from Bharathiyar University, Dr.A.Sabitha Rani, Associate Professor, UCS, Osmania University, Telangana, Dr.V.Madhuri, Assistant professor, Krishna University, Machilipatnam participated in the webinar as resource persons for the second day.

67 participants registered their names using registration link. Out of them, 27 are students and 40 are faculty. 76 participants connected to the webinar. Many students viewed it virtually in their respective colleges. 63 members filled the feedback forms and got the certificates. All the participants benefited from the lectures delivered in the webinar. They appreciated the topics selected and gave positive feedback about the webinar.

Y. A. Government College for Women, Chirala
Prakasam Dist., Andhra Pradesh, India
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Department of Botany cordially invites to a
Two Day National Webinar
on
"Recent Advances of Plant Sciences"
23rd & 24th November, 2021 | 11:00 AM to 01:00 PM

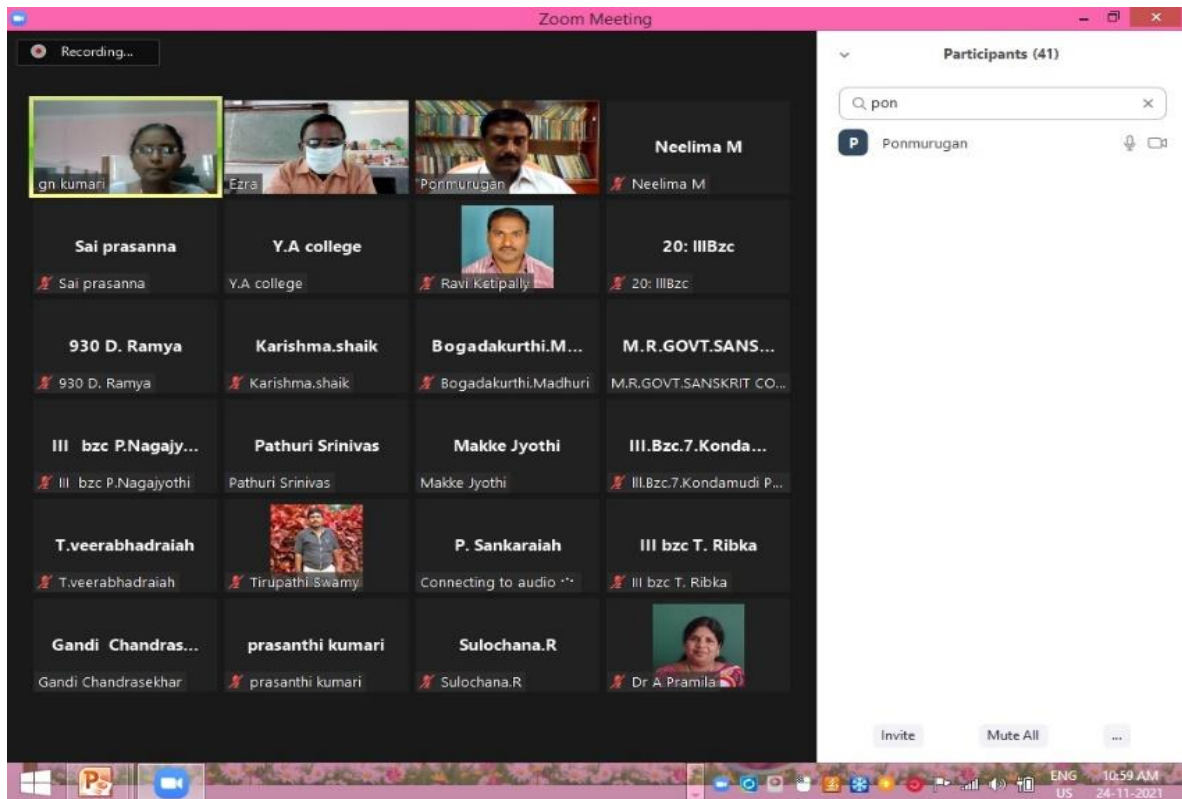
Registration Link :
<https://forms.gle/vaaqnyrHCiWjgVdz5>

Invited Speakers

- Prof. N. Savitramma**
Principal,
College of Sciences,
S. V. University, Tirupati, A.P.
- Dr. V. Madhuri**
Assistant Professor,
Dept. of Biosciences & Biotechnology,
Krishna University
- Dr. P. Ponmurugan**
Associate Professor,
Department of Botany,
Bharathiar University, Coimbatore,
Tamilnadu, India
- Dr. A. Sabitha Rani**
Associate Professor,
Department of Botany,
UCS, Osmania University, Hyderabad,
Telangana, India
- Dr. Ch. Ramanamma**
Principal
Y. A. Govt. College for Women, Chirala
- Organising Secretary**
Smt. G. Nirmala Kumari
Y. A. Govt. College for Women,
Chirala
Contact No. : 9959016410
Email ID : gnkacc@gmail.com

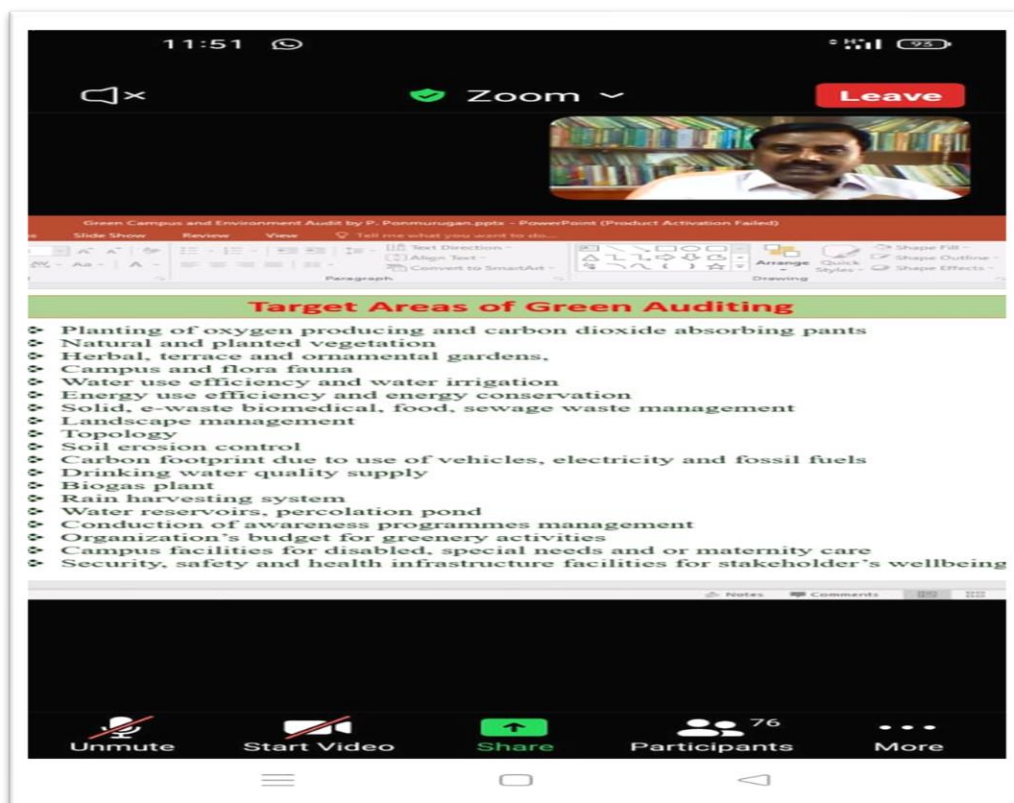
NAAC - B

Plants play a vital role in our life. The study of plant science helps to know how the plants are used to produce food, alter environment, restore damaged landscapes, improve health and wellbeing, improve community environment and provide recreational and practical benefits to the public. Though the study of core topics provides us the knowledge of fundamental and natural phenomena, processes of plant life. The classification and description of plant diversity, the research in applied branches like Biotechnology, Horticulture, Ethnobotany, Micropropagation, Agronomy, Plant breeding etc., and Organizational topics like Lichens, Agrobiology are helpful in providing economic benefit. Apart from traditional and conventional methods, a lot of new innovations in agriculture, tissue culture, medicinal botany etc., have come which are enabling the plant sciences more advanced. Agricultural Biotechnology is helpful to produce stronger crops, in creating new biopesticides to reduce the use of chemicals by farmers. Marine biotechnology helps in creating alternative sources of energy. Tissue culture allows large scale micropropagation applications to produce large number of plants with a comparable genotype. Genetic engineering made it possible to produce GMOs for better yield of crops, reduced need of pesticides, nutrient composition enhancement, pest resistance, medical benefits etc. The agronomic application of nanotechnology in plants has the potential to alter conventional plant production systems, allowing for the controlled release of agrochemicals and target specific delivery of biomolecules. In combination with improved and automated phenotyping assays and functional genomic studies, genomics is providing new foundations for crop breeding systems. Agriculture genomics help to improve the productivity and sustainability in crop and livestock production. Genomics helps to identify numerous proteins that play crucial role in plant growth and development, to analyze the mechanisms by which the pathogen attacks cereal crops etc. Bioinformatics helps in development of new plant diagnostic tools to facilitate and analyze the data created by genomics and proteomics and in various fields. With the development of modern science, a number of drugs owe their discovery and development to ethnobotany. In view of all these advantages of plant science, a national seminar on "Recent advances in plant sciences" is being organized to acquire the current knowledge which will help us to understand the importance of plant science in our life.



Dr.P.Ponmurugan is lecturing on

“Energy Audit,Green Audit & their importance in Educational Institutions”



Prof..N.Savitramma on “ Applications of Nanotechnology in Present Scenario”

13:05 75%

Combinations of nano and biotechnology for the development of nanomedicine

739053's screen

Dr.P.Ponmurugan is lecturing on “Applications of Lichens”

Assessment of Microbial load

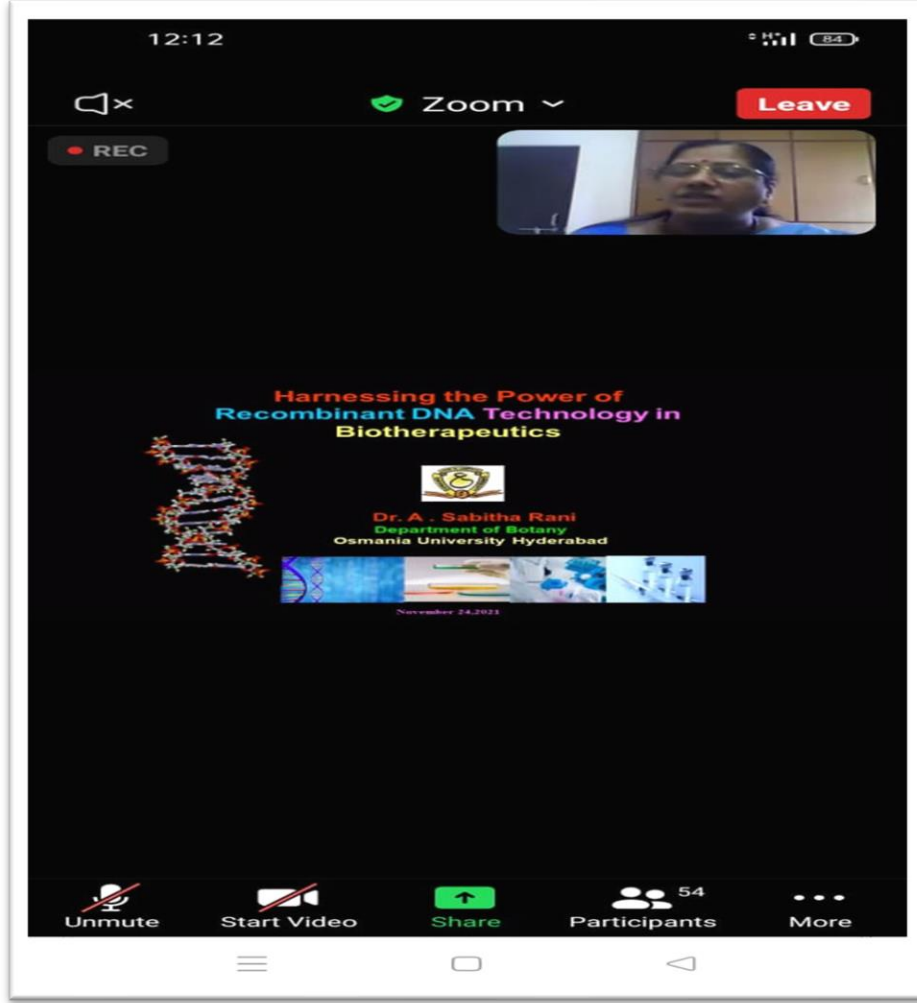
Number of Bacteria, fungal and actinomycetes in different places	Number of Microorganisms (colony forming units)	High / Moderate / Low* (As per WHO Standards)
1. Dining Halls, Canteen, Seminar halls, Class rooms, Laboratories, Offices		

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Bacteria	Fungi	Actinomycetes
Nutrient Agar 24-48 H, 35°C	Potato Dextrose Agar medium (PDA), 3-5 days 25°C	Casein Nitrate Agar (CNA) 3-5 days 25°C

Dr.A.Sabitha Rani lecturing on

“Harnessing the Power of r DNA technology in Biotherapeutics”



Dr.V.Madhuri is lecturing on

“Plant cell cultures-Phytochemical factories of secondary metabolites

Press Report

మహిళా డిగ్రీ కాలేజీలో వెబ్ నాన్

టీరాల అధ్యక్షుడు పట్టణంలోని వైఎస్ ప్రభుత్వ మహిళా డిగ్రీ కాలేజీలో రీసెంట్ అడ్వాన్స్ ఆఫ్ ప్లాంట్ సైన్సెస్ పై రెండు రోజుల సేషన్ లో వెబ్ నాన్ ను మంగళవారం ప్రారంభించినట్లు ప్రిన్సిపాల్ సీహెచ్ రమణమ్మ తెలిపారు. కళాశాలలోని బోటనీ అధ్యాపకురాలు జి.నిర్మలాకుమారి అధ్యక్షతనలో వెబ్ నాన్ నిర్వహించారు. మొదటి రోజు కొయంబత్తూరులోని భారతీయర్ యూనివర్సిటీ ప్రొఫెసర్ పి.పాన్మురుగున్ ప్రసంగించారు. పర్యావరణ సమతుల్యతను కాపాడేందుకు చేపట్టాల్సిన కార్యాచరణలో భాగంగా డీన్ ఆడిట్, నీటి పరిరక్షణ గురించి వివరించారు. పర్యావరణ పరిరక్షణకు మొక్కలు నాటాల్సిన అవశ్యకత ఉందన్నారు. వ్యర్థాల రీసైక్లింగ్ విధానాలు తెలిపారు. తిరుపతి ఎస్సీ యూనివర్సిటీ ప్రొఫెసర్ ఎన్.సావిత్రిమ్మ మాట్లాడుతూ వివిధ రంగాల్లో నానా దిక్పాలజీ ప్రాముఖ్యతను వివరించారు. వైద్యరంగంలో నానో రోబోట్స్, యాంటీ క్యాన్సర్ టెరపీలో నానో దిక్పాలజీ పాత్ర వివరించారు. సేషన్ లో వెబ్ నాన్ కు వివిధ కళాశాలల అధ్యాపకులు, విద్యార్థులు హాజరయ్యారు.

జనరల్ నోటీస్

ప్రభుత్వ శిక్షా, హార్దిమ మండలం, మండల పంచాయతీ, తూర్పుగోదావరి జిల్లా విద్యా కేంద్రంపై ఉన్నప్పుడు ఉపాధ్యక్షులు హాజరైతే రాతి అద్దం వివరాలు తెలియజేసి ఈ క్రింది విధంగా తెలియజేస్తున్నాము. నా క్రియంటు ద్వారా పేర్కొన్న రాతి అద్దాలను కేంద్రంపై క్రియాశీలం ఉపాధ్యక్షులు క్రియాశీలంపై చర్చించి రిజిస్టర్ విధియించినట్లు 3808/2021, రిజిస్టర్ నెంబీఎంబీ రిస్కీ-ఎంబీ 3809/2021 రాతి పాండి పాండియన్లను లో ఉన్నారు. నయ దిక్పాలజీ రిస్కీ దిక్పాలజీ అయినా కేంద్రంపై క్రియాశీలంపై నేరుడ ఉన్న నెంబీఎంబీ రిస్కీ-ఎంబీ 155/1988, 157/1989 నా క్రియంటు హార్దిమ అలోలో వచ్చి

Certificate



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Two Day National Webinar
on
"Recent Advances of Plant Sciences"
organised by **Department of Botany**

CERTIFICATE OF PARTICIPATION

This is to certify that Prof. / Dr. / Mr. / Mrs. / Miss. _____
of _____ has participated
in the Two Day **National Webinar** on **"Recent Advances of Plant Sciences"** on 23rd & 24th
November, 2021.

Smt. G. Nirmala Kumari
Organising Secretary

Dr. Ch. Ramanamma
Principal & Convenor

Name of the Activity: Field Trip to Home Herbal Garden, Akkai palem, Chirala

Date: 06-01-2022

Aim & objectives: Objectives :

- To learn the conservation of biodiversity & medicinal plants
- To know the various methods of propagation of plants.

Report : As a part of curriculum, dept. of Botany and Horticulture organised the field trip to Home herbal garden. Home herbal garden is maintained by S. Chandra Reddy, Protect NGO, working under National Biodiversity Board, Chirala. He is conserving 17 types of medicinal plants. II BHC & IIBZC students attended. They are accompanied by G. Nirmala Kumari (Botany lecture), Vedasri (Horticulture), Santhoshi Kumari (former Botany lecturer). S. Chandra Reddy explained briefly about conservation of biodiversity in general and of medicinal plants by telling the names of plants and their medicinal properties.

Learning outcomes :

- Students observed the plants enthusiastically which they never saw before.
- Learnt the names of different medicinal plants.
- Learnt various techniques of propagation of plants like cuttings, layering, germination etc.

No. of students participated: 32

IIBHC & IIBZC students with Mr. S. Chandra Reddy, lecturers G. Nirmala Kumari, Vedasri and Santhoshi Kumari.



Name of the Activity : Student seminars

Dates :10-12-2021;16-12-2021;31-12-2021;06-01-2022;07-12-2022,

Aim & objectives: 1.To encourage the students to improve their communication skills.

2.To improve their understanding and knowledge of the subject..

Report: G. Nirmala Kumari ,Botany lecturer conducted seminars for IIIBZC students. They enthusiastically participated in class seminars. They gave seminars on different topics.

Outcome:The students came forward courageously to give seminars and prepared well for the presentation which inturn helped them learn the topic.

Participants:III BZC students

On 10-12-2021

K. Sailaza gave seminar on “Growth Curves “



M. Neelima is giving seminar on “Griffith &Hershey Chase experiment”



On 16-12-2021

N. Vijaya kumari is giving seminar on” Structure of DNA”



On 30-12-2021

M. Mounika is giving seminar on “Structure & function of Chromosome”



On 06-01-2022

D.Ruthi is giving seminar on “ Structure & types of RNA”



G.Lavanya is giving seminar on “Dihybrid cross”



Y. Sailaja is giving seminar on "Light as climatic factor"



T. Ribka is giving seminar on "Soil Profile"



On 07-02-2022

Md. Fahimidha begum is giving seminar on "Plasma Membrane"



Y. Joy angel is giving seminar on "Biodiversity hotspots"



Sk. Karishma is giving seminar on “Chromosome theory of Inheritance”



D.Himaja is giving seminar on “Monohybrid cross”



N.Siva Tulasi is giving seminar on “Seedbank”



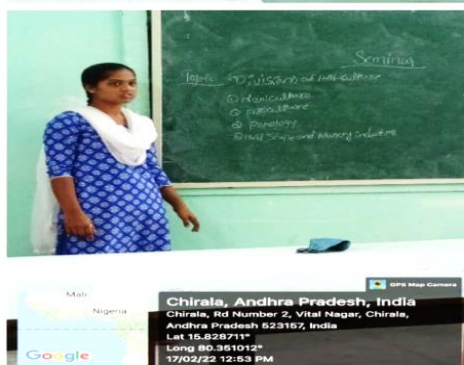
V. Maheshwari is giving seminar on “Selection”



I BHC STUDENT SEMINARS



I BHC STUDENT SEMINARS



Name of Activity: Group discussion

Dates:29-10-2021,30-11-2021,30-12-2021

Aim & objectives:1.To encourage the students who may otherwise timid, to participate.
2. To encourage students to share their knowledge for better understanding.
3.To learn easily by discussing the topic.

Report: II BHC and IIBZC students participated in group discussions in their respective classes.They discussed on relevant topics from their subject the details of which are given below.

Out come: It is a better platform for the students to exchange their ideas. Students engaged interestingly in group discussions & exchanged their knowledge with each other.

Participants: II BHC and IIBZC students

On 29-10-2021

5 Groups of I BZC students are involved in Group discussions” Anamalous growth in Boerhaavia”



On 30-11-2021

3 Groups of III BZC students are discussing about Pure Line selections in Group discussion



On 30-12-2021

4 Groups of IIIBZC students are involved in Group discussion “Biodiversity”



Name of the Activity: Plant Exhibition conducted by dept. of Botany and Horticulture on National Science day

Date:28-02-2022

Aim & objectives:

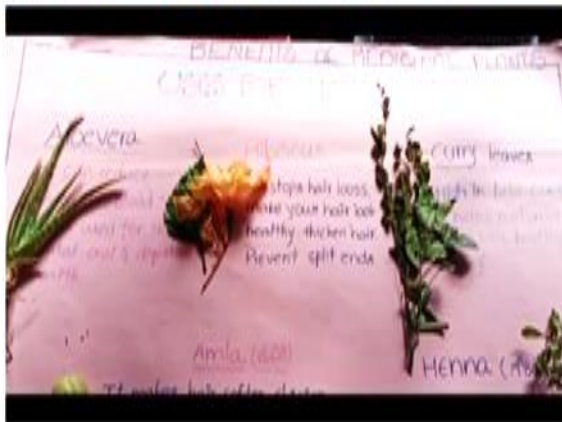
- 1.To help people appreciate the plant world and how important it is for us all to care for it.
- 2.To encourage students to understand the aspects of Botany & horticulture and develop interest in it.

Report:National science is celebrated to mark the invention of the Raman effect.The day is aimed at spreading the message of importance of science and its application in human life.So Y.A.Govt.degree college for women celebrated the National Science Day by conducting Plant Exhibition to bring awareness among the students about the role of plants in our daily life.Students explained various topics like the importance of cereals,millets,pulses,medicinal plants,role of plants in reducing pollution on earth,Hydrosere .All I &IIBHC,IIBZC students and horticulture lecturer Veda Sri participated in the exhibition.

Outcome: Many students from surrounding Educational institutes visited the exhibition.They asked about each exhibit and gathered knowledge.

No.of students participated: I &II BHC, I BZC &IIBZC students-61









Name of the Activity: Field work

Date: 16-02-2022

Aim & objectives: 1. To make the students learn gardening.

2. To motivate them to maintain home garden.

Report: As a part of curriculum, IBHC students are working in the plot allotted to them to maintain their own garden under the supervision of K. Veda Sri, lecturer in horticulture.

Outcome: Students cleared the ground for plantation.

No. of students participated: 09 of IBHC.

IBHC Students cleaning the allotted plot

