



SRR & CVR GOVERNMENT DEGREE COLLEGE

(AUTONOMOUS)

ESTD:1937

VIJAYAWADA, NTR DIST., A.P

Institution is ranked by NIRF 101-150 band at NIRF 2020

WEBSITE. www.srrcvr.ac.in E-Mail. srrandcvr@gmail.com

NAAC 4th CYCLE



SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Dates	October 2017
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Extension activity/ Skill development
Title of the Activity	Drip irrigation in Bottle garden
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students participated	45
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Mrs M. Sravana Valli Lecturer In Charge Mrs D. Jyothi, Lecturer in Botany
Remarks	Drip irrigation was a success and students involved with much interested in this activity

Department of Botany SRR & CVR Govt Degree College initiated maintenance of medicinal plants, a skill development activity in October 2017.

Pre Preparation /Action Plan :

Students and Faculty initiated the skill development activity on the concept of drip irrigation .
III BZC students took an active part in this activity



III BZC students participating in Drip irrigation activity in Dept premises

Motive of this program:

Making the students aware about the concept of drip irrigation and the significance of water usage .

Significance and Report:

Drip irrigation is the most efficient water and nutrient delivery system for growing crops. It delivers water and nutrients directly to the plant's root zone, in the right amounts, at the right time, so each plant gets the accurate needed amount for optimal growth .

Drip irrigation involves placing tubing with emitters on the ground alongside the plants. The emitters slowly drip water into the soil at the root zone. Because moisture levels are kept at an optimal range, plant productivity and quality improve.

students used consumed/waste water bottles for practicing drip irrigation in dept premises,



Due to increasing water scarcity we need a way to increase agricultural productivity *and* resource efficiency.

Students got plastic bottles , cleaned the bottle thoroughly with water, and removed the label.

Poked 4 to 5 holes in the cap. Removed the cap and set it down on a piece of scrap wood. Used a nail and hammer to poke several holes into it. Place the cap back onto the bottle.

Cut the bottom off of the bottle. with a knife or scissors about 2.54 centimeters at the bottom of the bottle .

Dig a hole into the soil about 4 to 6 inches (10.16 to 15.24 centimeters) away from the plant's stem.

Place the bottle into the hole, cap-side-down. screw the cap back onto the bottle. Flip the bottle upside down, and insert it cap-side-down into the hole. Gently pat the soil down around the bottle.

Fill the bottle with water, and invert the bottom of the bottle so it rests on the water, ready to catch any debris that would otherwise sink and clog the system.

Advantages of drip irrigation:

- **High availability of water and nutrients**
- **Doses of water and nutrients tailored to plant's development needs**
- **No saturation and good soil aeration**
- **Avoids high salinity caused by excessive fertilizer application**
- **No wetting of foliage that can result in fungal diseases**

Drip irrigation changed the economics of global agriculture by allowing farmers to produce more calories per hectare and cubic meter of water.

- **Reduce impact of drought and climate change on food production**
- **Avoid contamination of groundwater and rivers caused by fertilizer leaching**
- **Support rural communities, reduce poverty, reduce migration to cities**

SRR & CVR Government Degree College

An Autonomous & ISO 9001:2015 Certified Institution. Ranked by NIRF in 101-150 band in NIRF 2020 & 151-200 band in NIRF 2019. NAAC accredited Institution with grade B3 with CGPA 2.6 during March, 2012.
Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY



S.R.R. & C.V.R. GOVT. DEGREE COLLEGE

Autonomous & ISO900: 2015 Certified Institution,
NIRF -2020 ranked 101-150 band and NIRF - 2019: 151-200 rank band Institution

NAAC accredited with 'B+' Grade

Machavaram, VIJAYAWADA - 520 004. Krishna District.

Ph : 0866-2430060, Fax : 0866-2441092, www.srrcvr.org, srrandcvr@gmail.com



DEPARTMENT OF ZOOLOGY

WASTE RECYCLING

Department of Zoology has initiated the practice of recycling the organic waste produced in the college like dry leaves, twigs, paper waste, fruit and vegetable wastes etc., through vermiculture since 2017 onwards

SOLID WASTE MANAGEMENT

Solid-waste management, the collecting, treating, and disposing of solid material that is discarded because it has served its purpose or is no longer useful. Improper disposal of solid waste can create unsanitary conditions, and these conditions in turn can lead to pollution of the environment and to outbreaks of vector-borne disease—that is, diseases spread by rodents and insects.

VERMICOMPOSTING

Vermicomposting is an ecofriendly, low cost productive technique which converts solid waste materials like agricultural and kitchen wastes into useful organic manure by earthworms. As we all know earthworms play a key role in improving the fertility of the soil. They feed on any organic waste, consume 2-5 times their body weight and after using 5 – 10 percent of the feed stock for their growth excrete the mucus coated undigested matter in the form of pellets called worm castings. The nutrients present in worm castings are readily soluble in water for the uptake of plants. Worm casts are a rich source of macro and micronutrients, vitamins, enzymes, growth hormones and a good amount of microbial components.

STEPS INVOLVED IN THE PROCESS

Identification of Earthworms

Collection and preparation of bedding materials

Preparation of beds for vermicompost

Inoculation

Separation of worms and vermicompost

Maintenance of vermiculture



S.R.R. & C.V.R. GOVT. DEGREE COLLEGE

Autonomous & ISO900: 2015 Certified Institution,
NIRF -2020 ranked 101-150 band and NIRF - 2019: 151-200 rank band Institution

NAAC accredited with 'B+' Grade

Machavaram, VIJAYAWADA - 520 004. Krishna District.

Ph : 0866-2430060, Fax : 0866-2441092, www.srrcvr.org, srrandcivr@gmail.com



Preservation and packing of vermicompost



SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



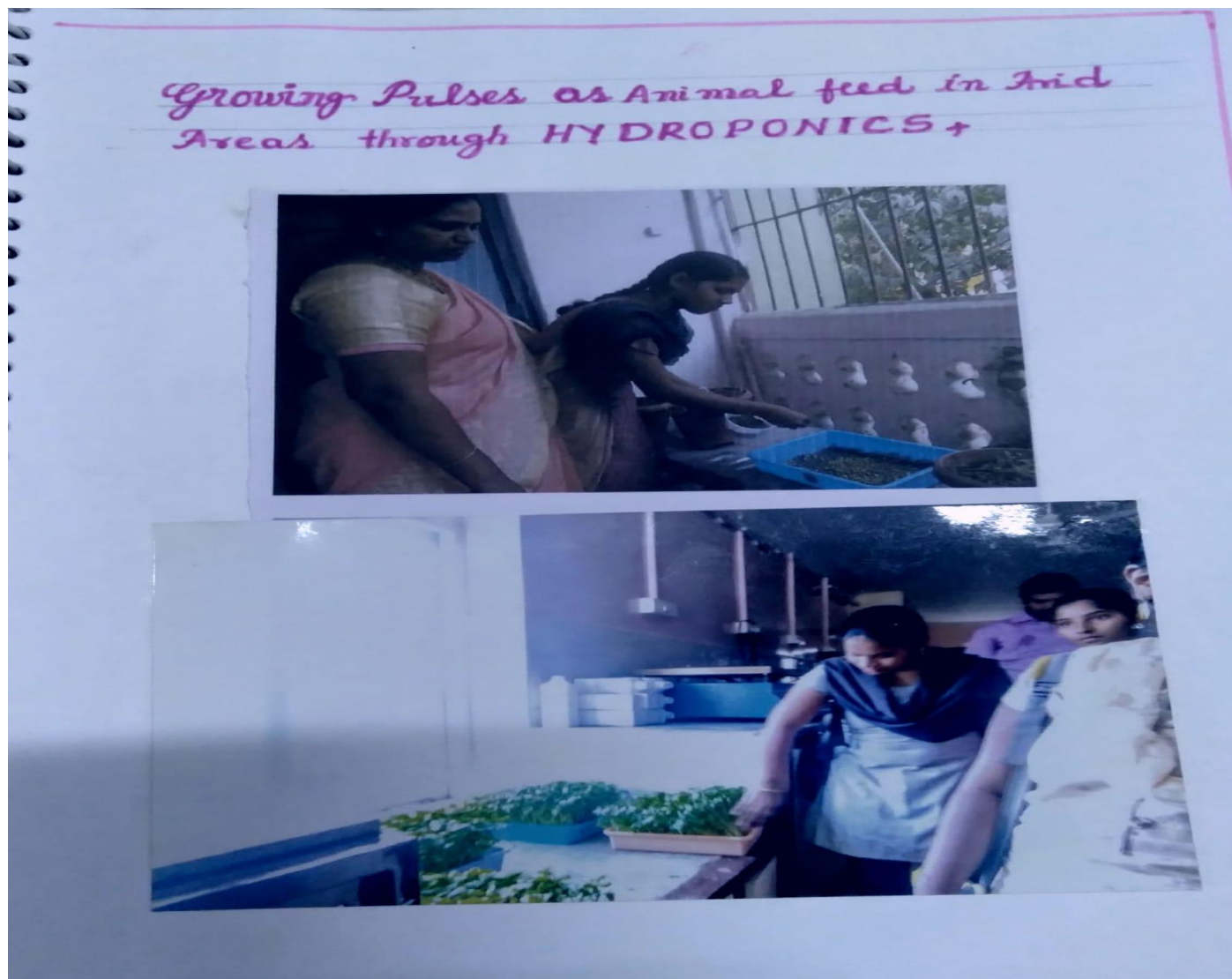
DEPARTMENT OF BOTANY

Dates	October 2017
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Extension activity/ Skill development
Title of the Activity	Hydroponics
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students participated	35
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Mrs M. Sravana Valli Lecturer In Charge Mrs D. Jyothi, Lecturer in Botany
Remarks	Hydroponics was a success and students involved with much interest in this activity

Department of Botany SRR & CVR Govt Degree College initiated maintenance of medicinal plants, a skill development activity in October 2017.

Pre Preparation /Action Plan :

Students and Faculty initiated the skill development activity on the concept of drip irrigation . III BZC students took an active part in this activity



III BZC students participating in Hydroponics activity in Dept premises

Motive of this program:

Making the students aware about the concept of Hydroponics and the significance of water usage .



Dept of Botany students Practicing Hydroponics

Significance and Report:

Hydroponics is a method of growing plants without soil. Year- long Hydroponics uses less water than traditional soil-based systems. Hydroponics allows for faster growth and higher yields than traditional soil-based growing systems.

In a traditional garden, plant roots have to seek out nutrients in the soil. In hydroponic gardens, nutrients are dissolved in the water that surrounds the roots, so plants have easier access to the nutrition and tend to grow big and beautiful quickly.

This concept of Hydroponics works by allowing minute control over environmental conditions like temperature and pH balance and maximized exposure to nutrients and water.

Hydroponics operates under a very simple principle: provide plants exactly what they need when they need it.

Hydroponics administer nutrient solutions adjusted to the needs of the particular plant . They make us control exactly how much light the plants receive and for how long. pH levels can be monitored and adjusted. In a highly customized and controlled environment, plant growth accelerates.

Students participated in this activity with much interest and learnt the basic skills of Hydroponics

SRR & CVR Government Degree College

An Autonomous & ISO 9001:2015 Certified Institution; Ranked by NIRF in the 3rd band of NIRF 2020 & 1st-2nd band in NIRF 2019 NAAC accredited Institution with grade B3 with CGIPA 2-6 during March, 2012

Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



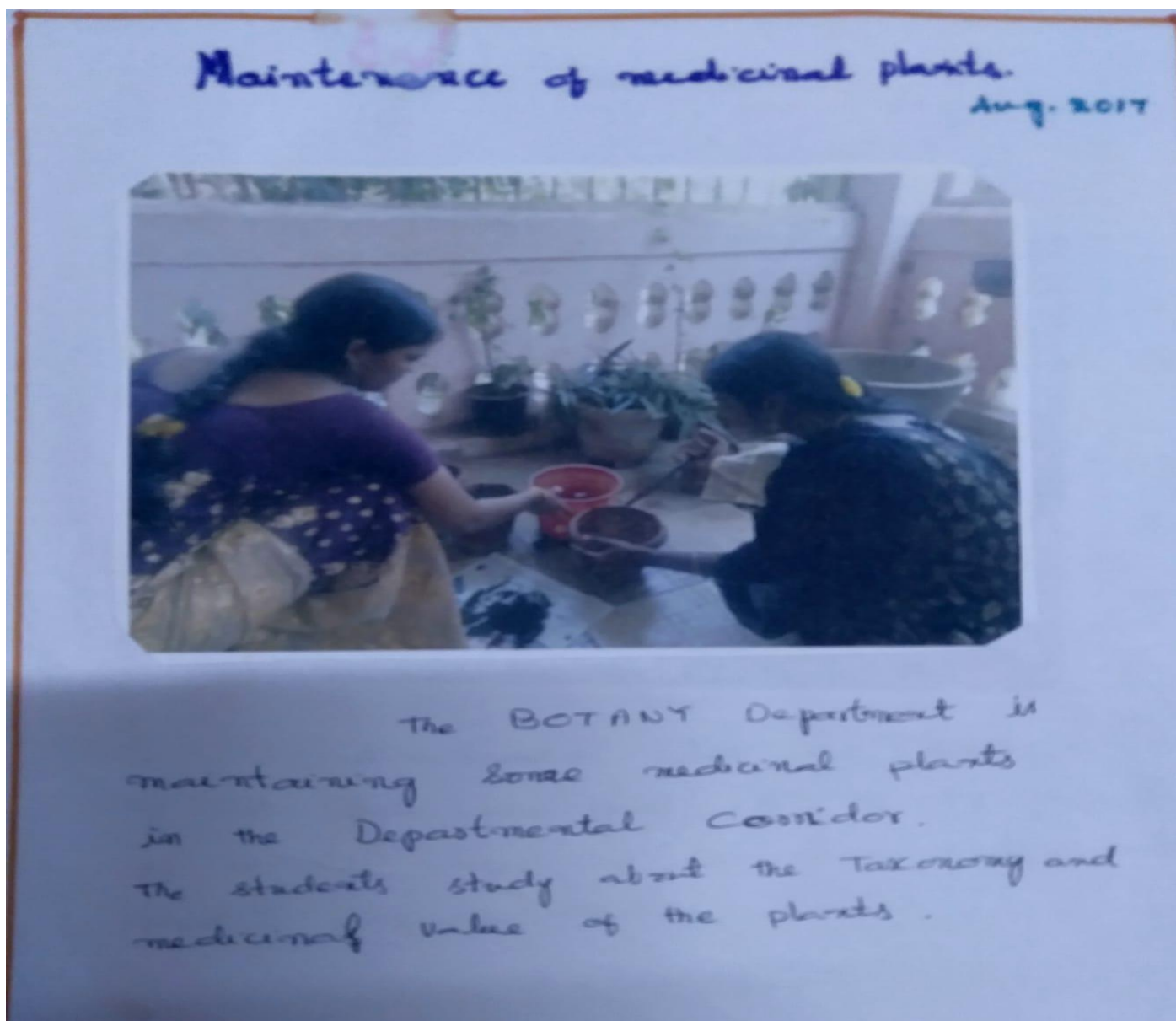
DEPARTMENT OF BOTANY

Dates	August 2017
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Extension activity/ Skill development
Title of the Activity	Maintenance of Medicinal Plants
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students participated	50
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Mrs M. Sravana Valli Lecturer In Charge Mrs D. Jyothi, Lecturer in Botany
Remarks	This Maintenance of Medicinal plants training was a success and students involved with much interested in this activity

Department of Botany SRR & CVR Govt Degree College initiated maintenance of medicinal plants, a skill development activity in August 2017.

Pre Preparation /Action Plan :

1. For Organizing this program students took the initiative and identified the useful general medicinal plants in the college premises and surrounding areas and collected the seeds and planting material .



Motive of this program:

Making the students aware about the taxonomy . medicinal importance significance of medicinal plants in human life .



Significance and Report:

Medicinal plants will be useful for Maternal and Child health care, as essential drugs, in food and nutrition, for common illnesses and injury, for endemic infectious diseases, mental health and oral health.

Students grew Medicinal plants such as Aloe, Tulsi, Neem, Turmeric and Ginger which cures several common ailments. These are considered as Medicine and home remedies.

Day by day we are moving away from nature . Herbs are natural products, they are free from side effects, they are comparatively safe, eco-friendly and locally available. Traditionally there are a lot of herbs used for the ailments seasonally. There is a need to promote them to save human lives.

These herbal products are safe in contrast to the synthetic drugs which are regarded as unsafe to humans and the environment. Although herbs are best and safe medicinally initially for centuries, the synthetic products surpassed their importance, since many years Recently people are returning to the naturals with hope of safety and security.

By maintaining medicinal and herbal plants in the department and botanical Garden students were able to learn the significance , steps and process of maintenance of medicinal plants . They were able to understand the measures to be taken during maintenance of medicinal herbal plants in Garden and dept .

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution;; Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Dates	8.3.2022
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Extension activity on Entrepreneurship
Title of the Activity	Entrepreneurship : Student Organized Stalls
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	III BZC EM Students
No of students participated	120
Name of the Lecturers who planned & conducted the activity	Planned and Organized by Ms G.Swapna Lecturer In Charge
Remarks	This has given exposure to students on Entrepreneurship and students took this as a sample .

Department of Botany SRR & CVR Govt Degree College III BSC BZC students Organized a stall and explored the idea of Entrepreneurship on International Women's Day MARCH 8th 2022.

Context : Student Entrepreneurship is an emerging phenomenon and then exposing the intentions of students to become Entrepreneurs . Student Entrepreneurship is a dual opportunity. The first is the opportunity to zoom in on one category of entrepreneurs. Entrepreneurship is seen as a process of change for the venture and the entrepreneur: "while Entrepreneurship is to do with a process of change, emergence and the creation of new value, it is also a process of change and creation for the entrepreneur"

Student Entrepreneur is not only student attending entrepreneurial classes, but as conducting a business on/near campus while simultaneously attending formal courses.

Objectives :

- **To know the basic concepts of Entrepreneurship**
- **Practical experience**
- **To gain knowledge on setting up small scale industries**
- **To learn planning, Management and basic Business strategies**
- **To inculcate the entrepreneurial skills to potential entrepreneurs and help develop the same in existing entrepreneurs.**
- **To enable the student entrepreneurs to define or redefine their business objectives and work individually as well as in group for the realization of the same.**
- **To inculcate team building and coordination skills for meeting the future demands.**
- **To develop the communications skills among the potential entrepreneurs.**
- **To make the potential entrepreneurs able to analyze the environment around them and make suitable decisions about the product.**

Report of the activity :

On International Women's day girl Students of III BZC EM and TM established small stalls . They purchased fruits like watermelon, cucurbits , grapes , and guava . Prepared fruit salads, juices and set up a fruit product and juice stall . All college students and staff encouraged them by buying and they gained Profits .



III BSC BZC Students setting up a small stall

Studentship has traditionally been associated with academic goals such as acquiring and learning new knowledge and skills whereas entrepreneurship generally refers to financial objectives such as running a profitable business.

There is a need to better understand the domain of student entrepreneurship. Future empirical and conceptual work will help establish a more comprehensive picture of student entrepreneurship.

Through this simple and basic experience students got to know about small scale industries , Budget Planning , Action plan , management and the facts about consumer , market strategy .

All college students and faculty encouraged them and appreciated them and that made them earn profits . This small effort from students has provided so many insights into Business and Entrepreneurship .

Students immersed in their activities for setting up small stalls



This small setting up of stalls was an initiation towards Entrepreneurship and students thoroughly enjoyed this activity throughout and garnered all support .

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution :: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Dates	20.12.2021
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Department
Nature of activity (seminar/Workshop/Extn. Lecture etc.	Extension activity
Title of the Activity	Medicinal Plants Drive
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	B.SC BZC Students
No of students participated	70
Name of the Lecturers who planned & conducted the activity	Planned and Organized by G.Swapna Lecturer In Charge Mrs V.N Padmavathi Lecturer in Botany Dr Ch. Srinivasa Reddy Lecturer in Botany Participated in this activity
Remarks	This Medicinal Plants Drive activity was a huge success and got all student, faculty and Public support and suggestions

Department of Botany SRR & CVR Govt Degree College Organized Medicinal Plants Drive on 20.12.2021.

Pre Preparation /Action Plan :

- 1. For Organizing this program students took the initiative and identified the required medicinal plants for the drive in the college premises and surrounding areas along with their useful parts .**
- 2. Students later extracted the information related to medicinal uses of the plants and prepared the pamphlets with taxonomical data for distribution in native language .**
- 3. Students also collected the vegetable seeds with medicinal properties and made them into packets suitable for distribution in surrounding areas . They organized all the plant material, seeds and pamphlets in a systematic manner**



Honorary principal madam Dr K. Bhagaya Lakshmi inaugurated the student drive along with Ms G. Swapna H.O.D Dept of Botany and the Faculty members Mrs V.N Padmavathi and Dr Ch.Srinivasa Reddy .



Later all the B.Sc BZC Students were divided into 6 Batches . 2 Batches organized drive in campus among all the faculty members and students in the campus and the remaining 4 batches went to different areas in Machavaram, Vijayawada to organize the drive



Motive of this program:

Providing Practical Exposure to students on Medicinal Plants Significance , various areas in Taxonomy , increasing Communication skills and interpersonal skills .

Report:

70 Students took nearly 30 Medicinal plants information and their uses in the form of Pamphlets and distributed them among the public to create awareness among them about the role of these medicinal plants in curing normal ailments in daily life .



Students divided into 10 batches and 8 Batches visited Machavaram surrounding areas and distributed Plant seeds material and herbs and explained to the people about the significance of those medicinal plants and the need for the conservation of plants . They distributed Pamphlets also to the public .



2 Batches of students visited all the departments in the college premises and distributed Plant seeds material and herbs and explained to the people about the significance of those medicinal plants and the need for the conservation of plants . They distributed Pamphlets also to the public which carries Lot of information about medicinal uses especially for Maternal and Child health care, as essential drugs, in food and nutrition, for common illnesses and injury, for endemic infectious diseases, mental health and oral health.



Students Giving Seeds and Pamphlets to Honorable Principal Madam



Dec 20, 2021 12:47:21 PM
Machavaram
Vijayawada
Krishna
Andhra Pradesh
SRR&CVR Government Degree college medicinal plant Drive



Dec 20, 2021 11:55:13 AM
Machavaram
Vijayawada
Krishna
Andhra Pradesh
SRR&CVR Government Degree college medicinal plant Drive



Dec 20, 2021 11:39:50 AM
Machavaram
Vijayawada
Krishna
Andhra Pradesh
SRR&CVR Government Degree college medicinal plant Drive

Students Distributing Seeds and Pamphlets to Faculty members

Students organized small stalls also with the collected plant material and seeds and explained to the college students about the significance of medicinal plants and brought awareness to them .

Students took feedback from the public at the same time in Machavaram areas on Medicinal and aromatic plants about this Medicinal plants drive and collected their suggestions and inputs .The drive was received well by the faculty and students in the college and public from areas in Machavaram.

Students who went in batches analyzed the public thoughts and opinion on Herbal Medicinal plants and were successful in organizing this community drive.

Press Clipping

ఔషధ మొక్కలపై అవగాహన

మధురానగర్ (విజయవాడ సెంట్రల్): ఔషధ మొక్కలపై అవగాహన పెంచుకోవటంతో పాటు విరివిగా పెంచాల్సిన అవసరం ఎంతైనా ఉందని ఎస్ఆర్ఆర్ అండ్ సీవీఆర్ ప్రభుత్వ డిగ్రీ కళాశాల ప్రెసిపిటల్ డాక్టర్ కె. భాగ్యలక్ష్మి తెలిపారు. మాచవరం ఎస్ఆర్ఆర్ అండ్ సీవీఆర్ ప్రభుత్వ డిగ్రీ కళాశాలలో వృక్ష శాస్త్ర విభాగం ఆధ్వర్యంగా ఔషధ మొక్కలు గురించి

సోమవారం అవగాహన కల్పించారు. ఈ సందర్భంగా ఆమె మాట్లాడుతూ ఏయే మొక్కలును ఏయే రోగాలకు వినియోగించవచ్చో ప్రజల్లో అవగాహన కల్పిస్తున్నామని చెప్పారు. అనంతరం మాచవరం పుర వీధుల్లో తిరుగుతూ ఔషధ మొక్కల గురించి అవగాహన కల్పించటంతో పాటు విత్తనాలు పంపిణీ చేశారు. కార్యక్రమంలో వృక్షశాస్త్ర విభాగాధిపతి ఎంఎస్ జి.స్వప్న అధ్యాపకులు నాగపద్మావతి, డాక్టర్ సీహెచ్ శ్రీనివాసరెడ్డి పాల్గొన్నారు.

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution;; Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY