

S.R.R. & C.V.R. Government Degree College (A)

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

ENTREPRENEURSHIP ACTIVITY



MUSHROOM CULTIVATION

DEPARTMENT OF BOTANY



SRR & CVR GOVT. DEGREE COLLEGE (Autonomous)

PHONE NO : 0866-2430060
FAX NO : 0866-2441092

NAAC : B+ (III Cycle with CGPA : 2.60) - Estd: 1937
ISO 9001 - 2015 Certified
Institution is ranked by NIRF in 151 - 200 band at NIRF - 2019

WEBSITE : www.srrcvr.org
EMAIL : srrandcivr@gmail.com



SRR & CVR GOVERNMENT COLLEGE (A), VIJAYAWADA

DEPARTMENT OF BOTANY

Title of the Activity: “Experimental learning on Mushroom cultivation”

NOTICE

Department of Botany planned on **“Experimental learning on Mushroom cultivation”** in our college campus from 21-11-2022 to

Department of Botany Faculty and Students
Exhibiting the developed/cultivated mushrooms to honorable
Principal madam



Students with Cultivated mushrooms

Department of Botany SRR & CVR Govt Degree College Organized Industrial training for 45 III BZC students from 9.5.2022 to 13.5.2022 for the Project work Paper in cluster which deals with industrial training .

Pre Preparation /Action Plan :

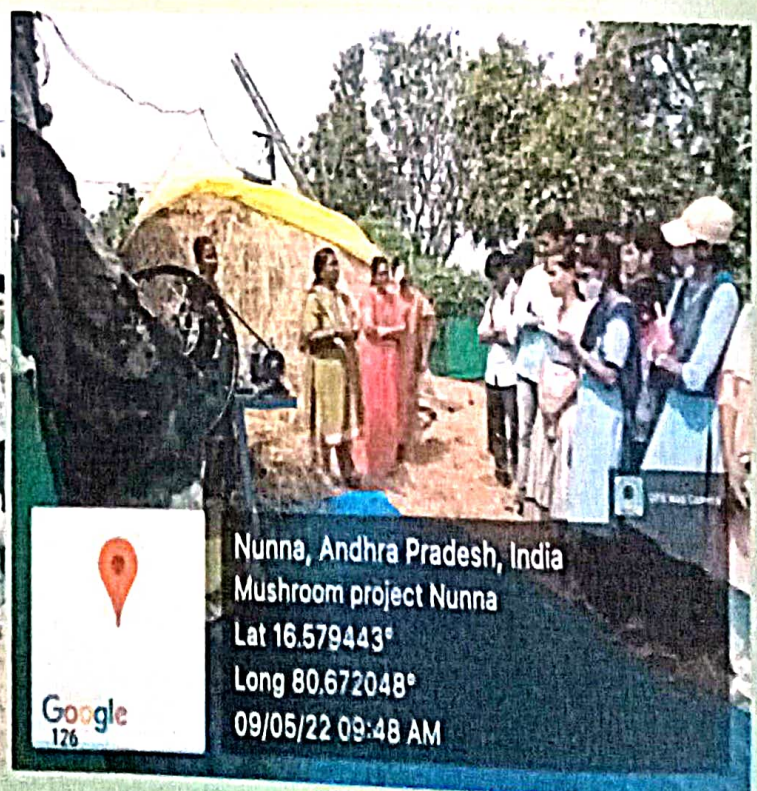
For Organizing this program the Department of Botany Faculty contacted Jyothi Mushrooms, a small scale Mushroom Entrepreneur , Nunna and formulated an action plan for arranging training with the encouragement and support from Principal Madam.

Motive of this program:

For Final year students one of the Cluster papers in Botany cluster is completely about Project Work and Industrial training and one of the Cluster papers is entirely on Mushroom cultivation motivated us to organize this training .

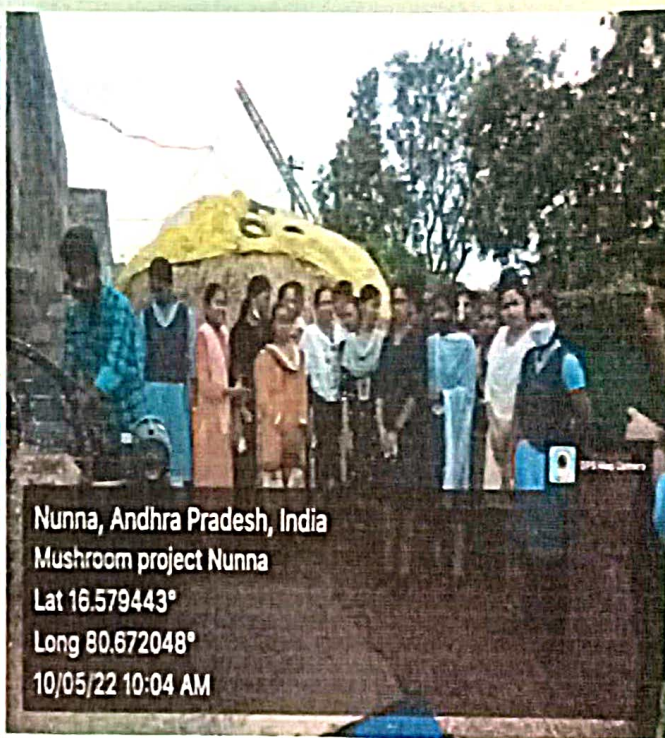
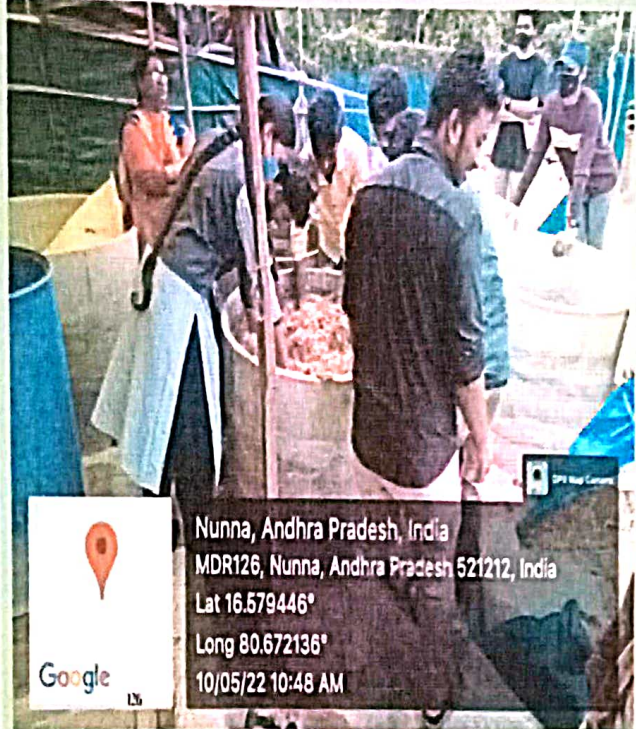
Report of the training :

I Day training dated 9.5.2022 : On First day Jyothi Mushroom cultivation Entrepreneur explained to students about the stages of Mushroom cultivation, Significance of Grass used and the technique of Grass cutting and grass cutting machinery working principles . Students practiced Grass cutting on machines.

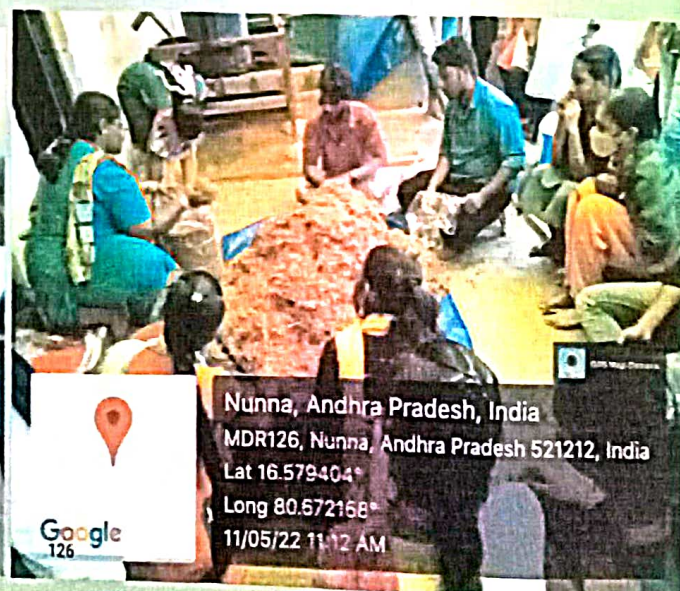
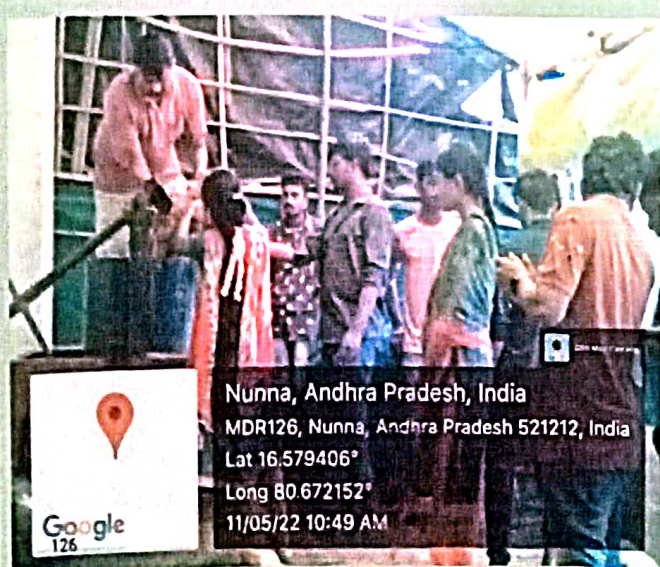


II Day training dated 10.5.2022

On the second day of training students got the training on Processing the grass physically and also with the help of grass processing machinery and the chemical substances used for processing .

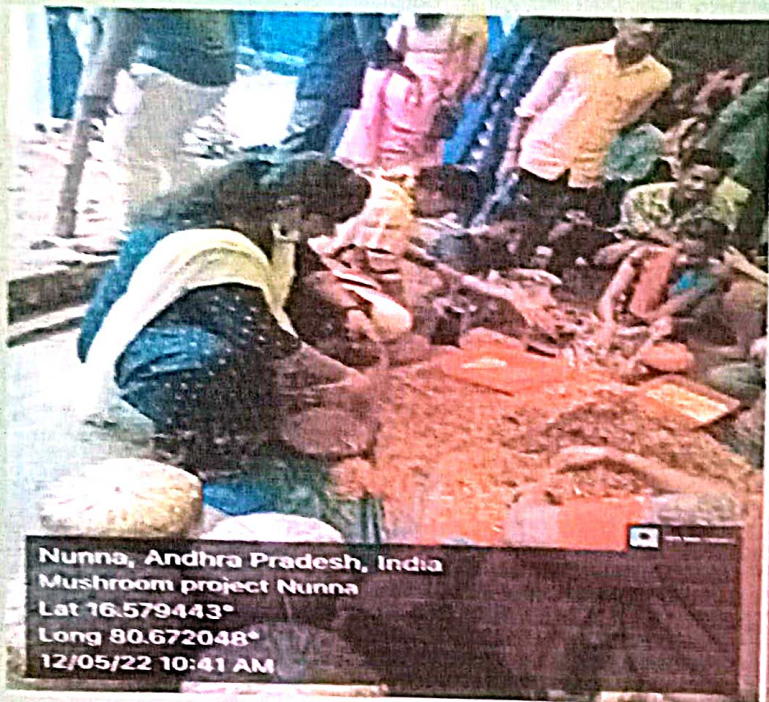


III Day training dated 11.5.2022 : On the third day of training students got the training on Drying process and filling the mushroom polythene bags with grass and spawn .



IV Day training dated 12.5.2022 : On the fourth day of training students got the training on

preparation of spawn, filling up of polythene covers with grass and spawn , drying casing etc

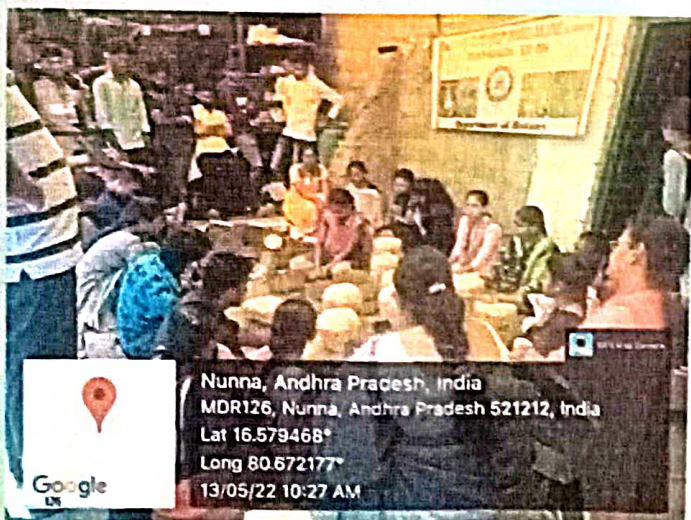


Nunna, Andhra Pradesh, India
Mushroom project Nunna
Lat 16.579443°
Long 80.672048°
12/05/22 10:41 AM

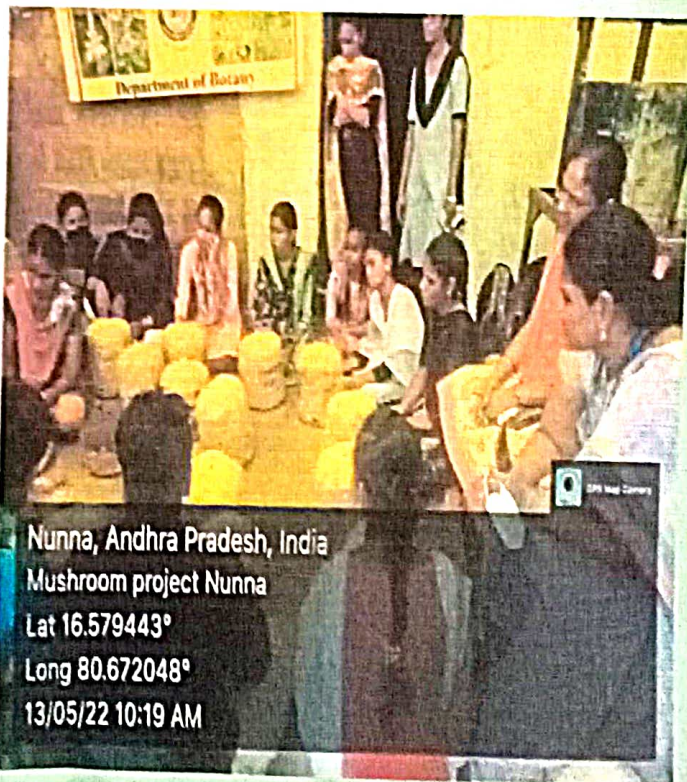


Nunna, Andhra Pradesh, India
Mushroom project Nunna
Lat 16.579443°
Long 80.672048°
12/05/22 10:07 AM

V Day training dated 13.5.2022 : On the fifth day of training students got the training on preparation of mushroom cases, storage methods , Marketing methods and financial process of mushroom culture industry.



Nunna, Andhra Pradesh, India
MDR126, Nunna, Andhra Pradesh 521212, India
Lat 16.579468°
Long 80.672177°
13/05/22 10:27 AM

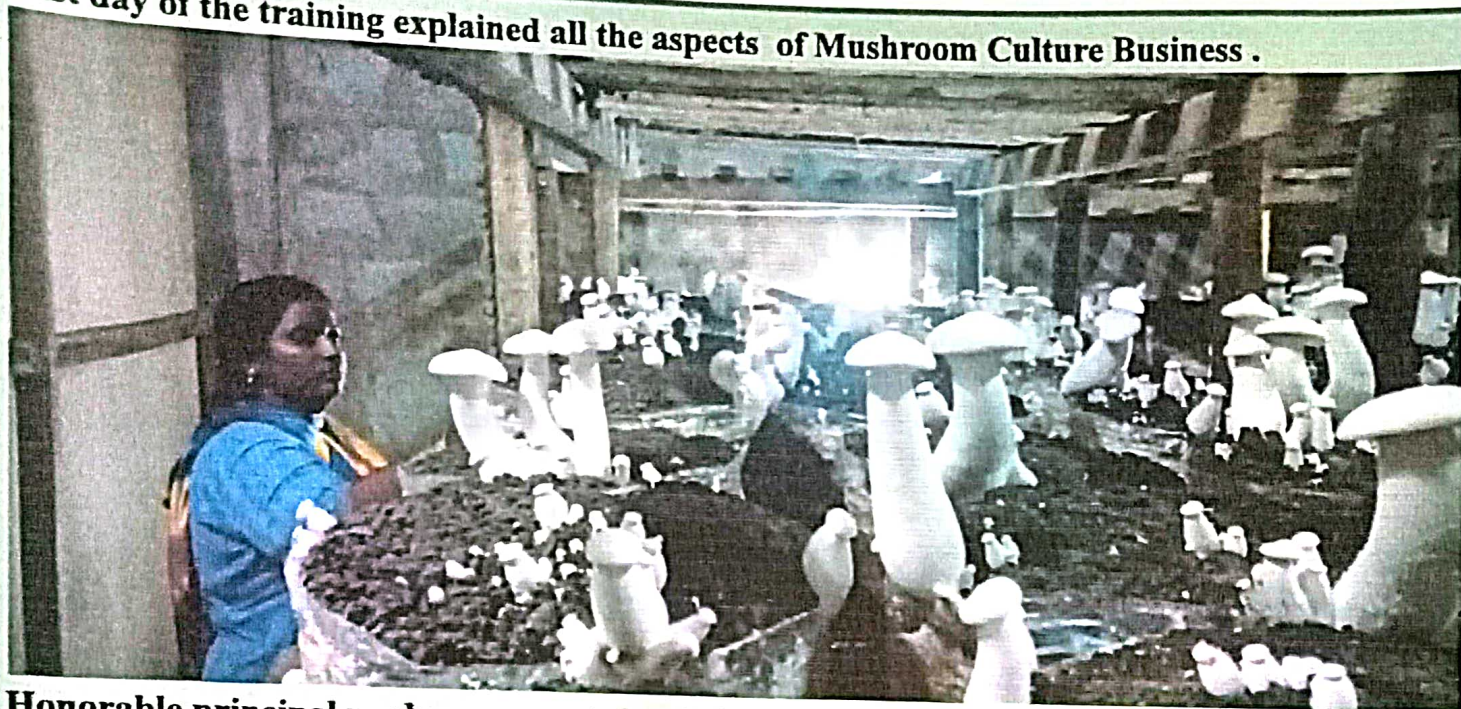


Nunna, Andhra Pradesh, India
Mushroom project Nunna
Lat 16.579443°
Long 80.672048°
13/05/22 10:19 AM

(Signature)
PRINCIPAL
SRR & CVR GOVT. DEGREE COLLEGE
VIJAYAWADA-4, KRISHNA DIST.

(Signature)
LECTURER IN CHARGE
Dept. of Botany
SRR & CVR GOVT. DEGREE COLLEGE
VIJAYAWADA-4, Krishna Dist.

Last day of the training explained all the aspects of Mushroom Culture Business .



Honorable principal madam congratulated the students and Faculty of Botany Department for successfully completing the training program and giving the certificates to students .



మాచవరం, న్యూస్టుడే:
విద్యార్థులకు స్వయం ఉపాధి
కోర్సులపై శిక్షణ ఇస్తున్నట్లు
కళాశాల ప్రిన్సిపల్ డాక్టర్ కె.

భాగ్యలక్ష్మి అన్నారు. మాచవ
రంలోని ఎస్సారార్ అండ్ సీవీఆర్ ప్రభుత్వ
డిగ్రీ కళాశాల వృక్షశాస్త్ర విభాగం ఆధ్వర్యంలో
కళాశాలలో బీఎస్సీ (బీజెడ్సీ) తృతీయ సంవ
త్సరం విద్యార్థులు గత ఆయిదు రోజులుగా
నున్నలోని 'జ్యోతి మప్రూమ్'లో పుట్టగొడుగుల
పెంపకు కేంద్రం వద్ద శిక్షణను విజయవం
తంగా ముగించుకొని.. ఉత్తీర్ణులైన విద్యార్థు

స్వయం ఉపాధి కోర్సులపై శిక్షణ

లకు శుక్రవారం కళాశాలలో
ఏర్పాటుచేసిన కార్యక్రమంలో
ద్రువపత్రాలను ఆమె అందజే
శారు. ఈ సందర్భంగా ప్రిన్సి
పల్ మాట్లాడుతూ.. శిక్షణలో

భాగంగా నాణ్యమైన గడ్డి, మట్టి, పుట్టగొడుగుల
రకం, స్పానింగ్, స్పాన్ రన్నింగ్, క్రేసింగ్,
క్రాపింగ్ వంటి అంశాలను విద్యార్థులు చక్కగా
నేర్చుకున్నారన్నారు. కార్యక్రమాన్ని చేపట్టిన
కళాశాల వృక్షశాస్త్ర విభాగాధిపతి జి.సవ్వప్ప,
అధ్యాపకులు వి.నాగపద్మావతి, డాక్టర్ సీహెచ్
శ్రీనివాసరెడ్డి, ఐ.ప్రశాంతిలను అభినందించారు.



విద్యార్థులకు సర్టిఫికేట్ల ప్రదానం



మచిరానగర్ (విజయవాడ సెంట్రల్): విద్యార్థులు థియరీలోపాటు ప్రాక్టికల్ పరిజ్ఞానం పెంపొందించుకోవాలని ఎస్ఆర్ఆర్ అండ్ సీవీఆర్ ప్రభుత్వ కళాశాల ప్రిన్సిపల్ డాక్టర్ కె.బాగ్యలక్ష్మి తెలిపారు. మాచవరం ఎస్ఆర్ఆర్ ప్రభుత్వ కళాశాలలో శుక్రవారం వృక్షశాస్త్ర విభాగం ఆధ్వర్యం పట్టగొడుగుల పెంపకం పై శిక్షణ పూర్తి చేసుకున్న బీఎస్సీ తృతీయ సంవత్సరం విద్యార్థులకు సర్టిఫికేట్లు పంపిణీ చేశారు. ఈ సందర్భంగా ఆమె మాట్లాడుతూ అందించిన అవకాశాలను సద్వినియోగం చేసుకుని ఉన్నత స్థానాలకు చేరుకోవాలని సూచించారు. వృక్షశాస్త్ర విభాగాధిపతి జి.స్వప్న మాట్లాడుతూ శిక్షణలో నేర్చుకున్న అంశాలను క్షేత్రస్థాయిలో అమలు చేసేలా ప్రదర్శనలు రూపొందించామని పేర్కొన్నారు. అధ్యాపకులు వి.నాగపద్మావతి, డాక్టర్ సీహచ్ శ్రీనివాసరెడ్డి, ఐ.ప్రశాంతి తదితరులు పాల్గొన్నారు.

SRR & CVR Government Degree College

An Autonomous & Endowment self-sustained Institution - Recognized by NRIET in its category of NRIET - Group A & C and listed in NRIET - Group A & C as a self-sustained Institution with NRIET - Group A & C as a self-sustained Institution
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DEPARTMENT OF BOTANY

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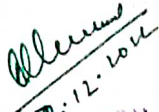
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తేది : 7-12-2022.

సీనియర్ SRR & CVR (పేదలకు బుద్ధివంతత) వ్యవస్థాపక విభాగం
III-BSC-B2C ఆధ్వర్యంలో ఆంధ్ర ప్రదేశ్ లో భాగంగా "పుట్టుకొడుగుల పెంపకం"
చేపట్టుకుండు బుద్ధివంతత. విద్యార్థులు వ్యవస్థాపక అధ్యక్షులు డా॥ చి. ప్రసాద్ రెడ్డి
గారి దిశానిర్దేశం ప్రకారం వ్యవస్థాపక పింట్ అయిపోయి ముద్రాపాత్ర,
మిక్స్ ముద్రాపాత్ర పెంపకాన్ని సూక్ష్మ జీవ రహిత పరిస్థితుల్లో
పడకల కాయల, విత్తనాలు చల్లడం, ఇంకా చేపక, క్రాపింగ్ వంట
వివిధ దశలను చూడ ఫలసాయం సాధించడం జరిగింది.

తక్షణ పట్టుబడితే విత్తనాల పాతల పొందే అవకాశం వున్న
పుట్టుకొడుగుల పెంపకం స్వయం ఉపాధి? మంచి మార్గమని, నిరుద్యోగులు,
గ్రామీణులు, రైతులు వంటపెంపకాన్ని ఇంటిలోనే చేపట్టు వచ్చునని, సమాజ
అవసరాలకు తగిన స్థాయిలో పోషక సరఫరా చేయవచ్చునని చూపి
పెంపకం మంచి అదాయ వనరుగా పెరిగినది వచ్చునని కార్యకర్త డి.వి.ఎస్.
డా॥ కొండల
జి. భాగ్యలక్ష్మి సూచించారు.

పుట్టుకొడుగులకు B విటమిన్ పుష్కలంగా ఉంటుంది. వీటిని
ఆహారంలో చేర్చుకోవడం వల్ల రోగనిరోధక
శక్తి పెరుగుతుంది, వీటిని సరైనవిగా కానీ రుచిగా చేస్తుంది,
ఇవి స్థూల కాయల బరువు తగ్గించడంలో అడ్డుతాయి, మధుమేహం
చికిత్స స్థాయిల నియంత్రణలో ఉంటాయి-కాబట్టి వీటిని అందరూ
దినం దిన ఆహారంలో భాగంగా చేర్చుకోవాలని వ్యవస్థాపక విభాగం
అధ్యక్షులు డా॥ చి. ప్రసాద్ రెడ్డి వి. నాగప్పయ్య
స్పష్టం చేశారు. ఈ సందర్భంగా ఈ కార్యక్రమం విద్యార్థుల ప్రతిని
అభినందించారు.


7-12-2022
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(Autonomous)
Machavaram, VIJAYAWADA-520 004

III B SC BZC TM.

Names

Mobile

1. ch. Adhi lakshmi - 9603975039
2. K. Manga devi - 9494196469
3. B. Nagamani - 6281729239
4. B. Lakshman Rao - 9347249294
5. K. Mounika - 9642788395
6. Ch. Venkataiah - 9390767309
7. R. Sandhya - 7337240849
8. K. Chandraika - 7659807886
9. A. Anantha Raju - 6281436654
10. G. Satya priya - 9346843701
11. P. Venkatesh - 9390673514
12. B. Sai baba - 7207406539
13. B. Balaji - 6305156258
14. A. Annapurna Devi - 7993658836
15. K. Venu - 9010426167
16. V. Anil Kumar - 9912167319
17. M. Meena Kumari - 807417668
18. K. Venkat - 6303477913
19. L. Gop. - 7013179474

Name of student III BZC [E.M] Ph.No:-

1. Narayana - 7997769926
2. Mastan - 7000923141
3. Nani - 9912882365
4. Ramya sri - 9553885527
5. Navya Jyothi - 9390796279
6. shankar - 9494667501
7. Durga prasad - 8008123134
8. Rex Dayan - 9676437728
9. Srinivasa Rao - 9390011606
10. M. preethi - 9398759599
11. T. venkat - 7995153568
12. K. Bhagya Ratna kumar - 7036878109
13. Ratshekar - 9705643790
14. Naveen - 9000571227
15. Sony - 8309699334
16. Ramya sri. N - 9347039418
17. Mahendra - 8688013692
18. v. priya - 8125712911
19. Hema - 9440532850
20. Manikanta Deepak - 9247913345
21. Bhargavi - 9347284494
22. sonu. - 7671858702

III B.C Students collecting soil for the preparation of mushroom beds



Students Participating in Mushroom
Cultivation Cook Under the Guidance of
Dr. Ch. Srinivasa Reddy





III B2C Students watering the
Mushroom Cultivation Chamber.



STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1	9/5/2022	BZC	-	Navayana	good
2	10/5/2022	BZC	-	Mastan	good
3	11/5/2022	BZC	-	Nani	satisfy
4	9/5/2022	BZC	-	Ramya Sri	satisfy
5	10/5/2022	BZC	-	Navya Jyothi	satisfy
6	12/5/2022	BZC	-	Shankar	good
7	13/5/2022	BZC	-	Durga Prasad	good
8	9/5/2022	BZC	-	Rex Dayah	good
9	10/5/2022	BZC	-	Srinivasarao	Beneficial
10	11/5/2022	BZC	-	M. Preethi	Helpful
11	10/5/2022	BZC	-	T. Venkat	good
12	12/5/2022	BZC	-	K. Bhaya Ratan	satisfy
13	13/5/2022	BZC	-	Rajshakar	good
14	10/5/2022	BZC	-	Naveen	Helpful
15	9/5/2022	BZC	-	Sony	Beneficial
16	10/5/2022	BZC	-	Ramya Sri	good





STUDENT SIGNATURES AND FEEDBACK					
S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
17	10/5/22	BZC	-	Mahendra	good
18	10/5/22	BZC	-	V. Priya	satisfy
19	11/5/2022	BZC	-	Hema	good
20	12/5/2022	BZC	-	Manikanta Deepak	satisfy
21	13/5/2022	BZC	-	Bhargavi	good
22	10/5/2021	BZC	-	Sonu	good
23	11/5/2021	BZC	-	Aradhakshmi	good
24	10/5/2021	BZC	-	Manga devi	satisfy
25	11/5/2022	BZC	-	Nagamni	good
26	12/5/2021	BZC	-	lakshman Rao	good
27	13/5/2022	BZC	-	Meunika	satisfy
28	9/5/2022	BZC	-	Venkataiah	good
29	10/5/2022	BZC	-	Bandhya	satisfy
30	11/5/2022	BZC	-	chandrika	satisfy
31	12/5/2022	BZC	-	Antharaju	satisfy

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
17	10/5/22	BZC	-	Mahendra	good
18	10/5/22	BZC	-	V. Priya	satisfy
19	11/5/2022	BZC	-	Hema	good
20	12/5/2022	BZC	-	Manikanta Deepak	satisfy
21	13/5/2022	BZC	-	Bhargavi	good
22	10/5/2021	BZC	-	Sonu	good
23	11/5/2021	BZC	-	Aradhakshmi	good
24	10/5/2021	BZC	-	Manga devi	satisfy
25	11/5/2022	BZC	-	Nagamni	good
26	12/5/2021	BZC	-	lakshman Rao	good
27	13/5/2022	BZC	-	Mounika	satisfy
28	9/5/2022	BZC	-	Venkataiah	good
29	10/5/2022	BZC	-	Bandhya	satisfy
30	11/5/2022	BZC	-	chandrika	satisfy
31	12/5/2022	BZC	-	Antharaju	satisfy





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
32	9/5/22	B2C	—	Sathya Priya	Good
33	11/5/22	B2C	—	venkatesh	Satisfy
34	8/5/22	B2C	—	sai babu	Helpful
35	8/5/22	B2C	—	Balaji	Beneficial
36	10/5/22	B2C	—	Anna purna	Good
37	12/5/22	B2C	—	venu	Satisfy
38	9/5/22	B2C	—	Anil kumar	Good
39	13/5/22	B2C	—	meena kumari	Helpful
40	5/5/22	B2C	—	venkat	Beneficial
41	6/5/22	B2C	—	h. Gop.	Satisfy





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Entrepreneurship Initiation with Murrel Culture

Scope of Entrepreneurship in Murrel Culture: Fisheries sector plays role in the socio-economic development of the country has become a powerful income and employment generator. Freshwater aquaculture is an economy generating and rural development tool. Murrel is considered to be the most economical freshwater fish species which can be cultured. They belong to the family “Channidae” and is also called as snake-head fish. Culture of these species have its own advantage in financial and as well as environmental point of view.

Importance of these species in culture: It can even survive in lower dissolved oxygen levels. This fish is identified by its dark brown colour with light black stripes over the body.

Murrel fish is one of the popular freshwater and tasty fish in India. The fish has a lot of regional preferences. People prefer murrel over any other fishes in many States like Andhra Pradesh, Tamil Nadu, Punjab, Haryana and Bihar and North Eastern Region.

Initiation taken by College: Department of Zoology of SRR & CVR Government Degree college (A) has started as initiation in culture of murrels in the college aquafarm tanks located side the entrance gate.

- Space for the culture of species is allotted to the department of zoology
- Two cement tanks of size 10x3 feet were constructed from the college funds and were given to zoology department
- The main motto of culturing murrels initially was for study of water quality parameters changes and practical purpose during the academic year.
- But later the students development interest in the culture aspects such as feed, water exchange, weigh gain analysis etc and students made it a habit to observe the daily day to today activities in the murrel culture
- B.Voc Aquaculture Technology students of batch 2020-21 initiated the project work and they were followed by the juniors and is now a ongoing process till today.
- With kind of encouragement given by the administration, the zoology department students with specialization in aquaculture used this opportunity
- By this these types of initiations students will be able to develop interest in subject and along they can become future entrepreneurs in this field of Murrel culture.



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- As a part of the curriculum in the aquaculture syllabus, cultural aspects of different aquatic organisms are included, of which students have to study the cultural aspects theoretically which is a general process of regular learning.
- But as apart of experimental learning, students have selected murrel fish because of its hard and wild nature.

Inauguration of Murrel Fish Culture by Our Principal, Dr.K.Bhagya Lakshmi, along with the zoology staff and IInd B.Voc Aquaculture Technology Students





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- The students have gone to Kaikaluru Hatcheries and brought fingerling of size 3 to 4 inches weighing 6 to 8 gms and started the culture in our college fish tanks which were used the experimental/ practical purposes.
- In the process of culture, exchange of water in the tanks is a general process which is used to be followed based on the turbidity, ammonia from fish excreta etc. So, during this process of exchanging water students will be experimentally learn how to exchange water, when to exchange of water and study different water quality parameters on regular basis by collection the water samples from their own culture tanks.
- In the process of regular feeding of the fish, students started the feed to fish initially by purchasing the feed commercially from the feed supply shops.
- But in course of time, students were able to identify that the commercially formulated feed was very costly and the results on growth of the fish weight was not as far as studied in the theory process.
- So, on experimental basis students started to feed the fish by preparing their own feed formulation using different raw materials following different steps studied in theory.
- In this process they tried different combinations of feed formulations and practically there are able prepare the feed pellets on their own and are able to understand the economical aspects on the feed preparation by experimental basis following trail and error method

Murrel feed preparation on trial-and-error method



1. Choosing of different feed ingredients
2. Roasting of feed ingredients
3. Grinding and mixing of feed ingredients
4. Pelleting and drying of feed prepared by their own feed formulation.



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- In the process of preparation of the feed, students were able to do experimentation on the type of feed given to the fish.
- In preparation of the pellets, students were able to increase and decrease the size of the pellets that are prepared based on the feed conversion ratio which they studied as part of theory.
- Finally in the process of feed preparation, they tried with different ratios of nutrients and were able to standardize the size of pellets and ratios of nutrients on experimental basis.
- In the process of culture, they are able to identify different diseases in the tank, due to parasites or due to stocking density or due to feed deficiency reasons etc.
- So, on this experimental basis, students were able to use different antiseptic properties materials such as garlic, turmeric powder on experimental bases.

Students using different antiseptic medicine such as garlic and turmeric powder etc.

- In the process of the culture students were able to identify the reasons for less growth, may be due lack of environmental conditions in natural conditions.
- On daily observation and taking weigh on regular basis, students were able to identify the difference in relation to weight and feed conversion efficiency.
- Junior students were also involved in the process of culture so that the juniors will also continue the culture aspects and hand over to the next juniors.



Conclusion: It is only the opportunity given by the college for such activities and students have utilized well the opportunity provided by college under the guidance of faculty and will surely become a successful entrepreneur in their career. These types of Innovation coupled with entrepreneurial skills will help for creation of wealth and employment in fisheries sector.
