

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
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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 and Students
Exhibiting the developed Cultivated mushrooms
to Dr. Anupama 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 :

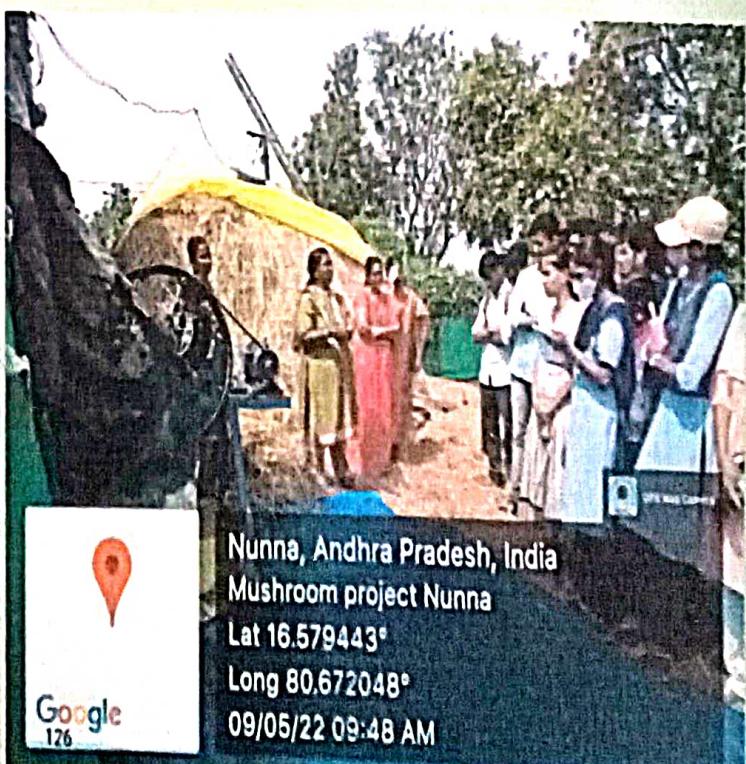
For Organizing this program the Department of Botany Faculty contacted Jyothi Mushrooms, a small scale Mushroom Entrepreneur , Nunna and formulated an action plan for arranging training with the encouragement and support from Principal Madam.

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 .

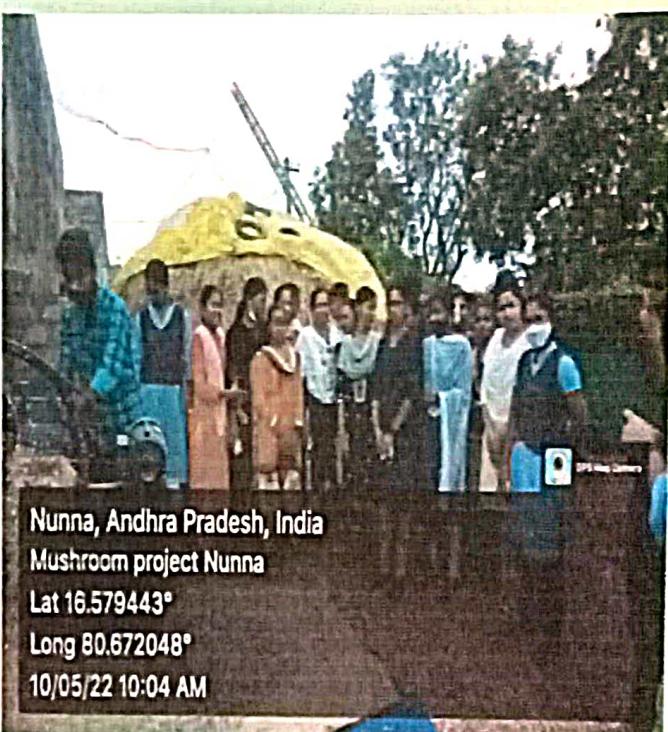
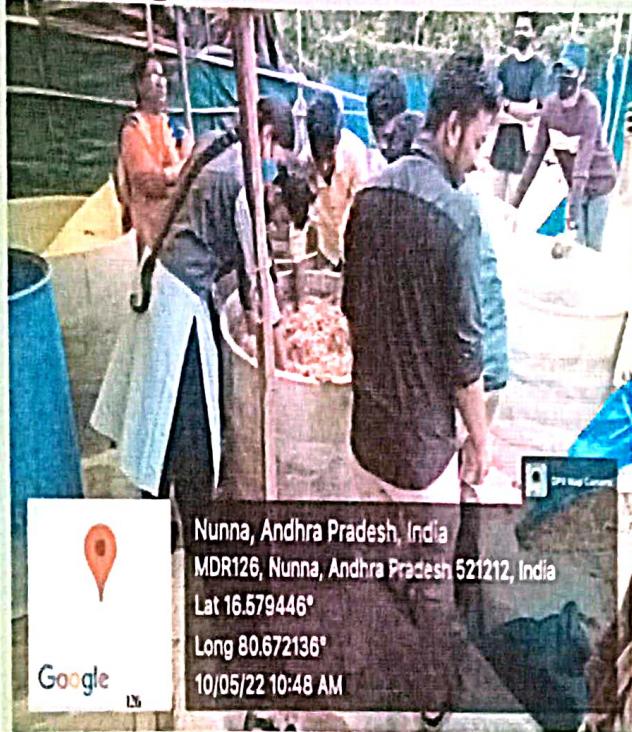
Report of the training :

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

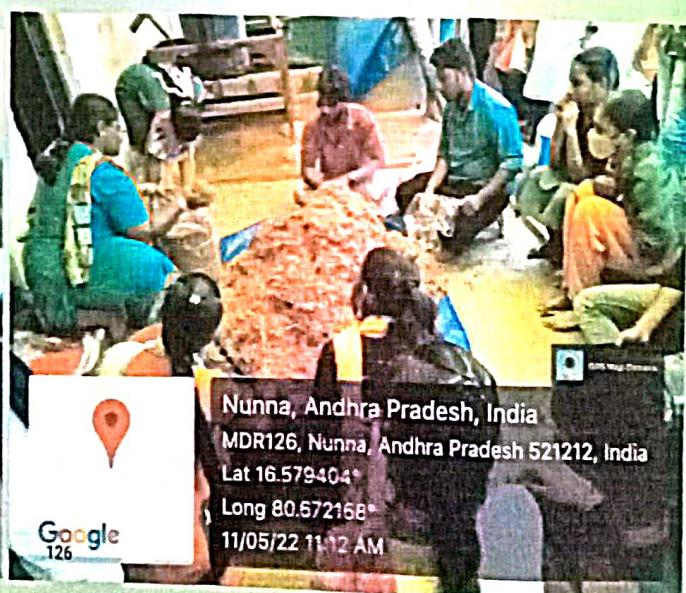
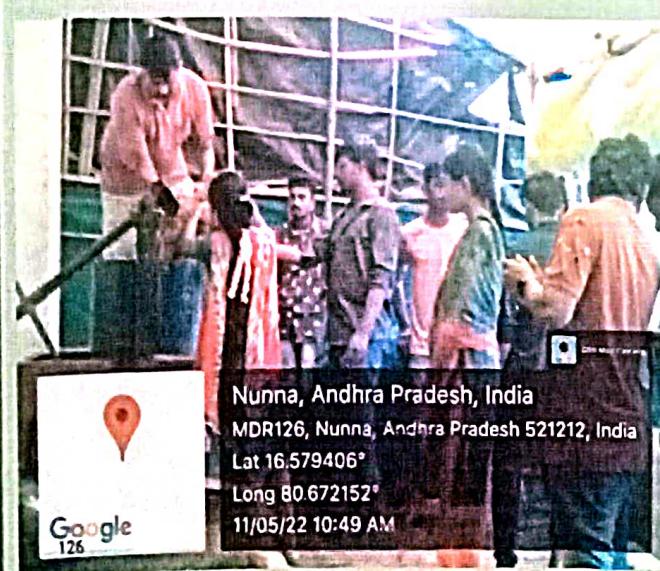
On the second day of training students got the training on Processing the grass physically and also with the help of grass processing machinery and the chemical substances used for processing .



Nunna, Andhra Pradesh, India
MDR126, Nunna, Andhra Pradesh 521212, India
Lat 16.579446°
Long 80.672136°
10/05/22 10:48 AM

Nunna, Andhra Pradesh, India
Mushroom project Nunna
Lat 16.579443°
Long 80.672048°
10/05/22 10:04 AM

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 .

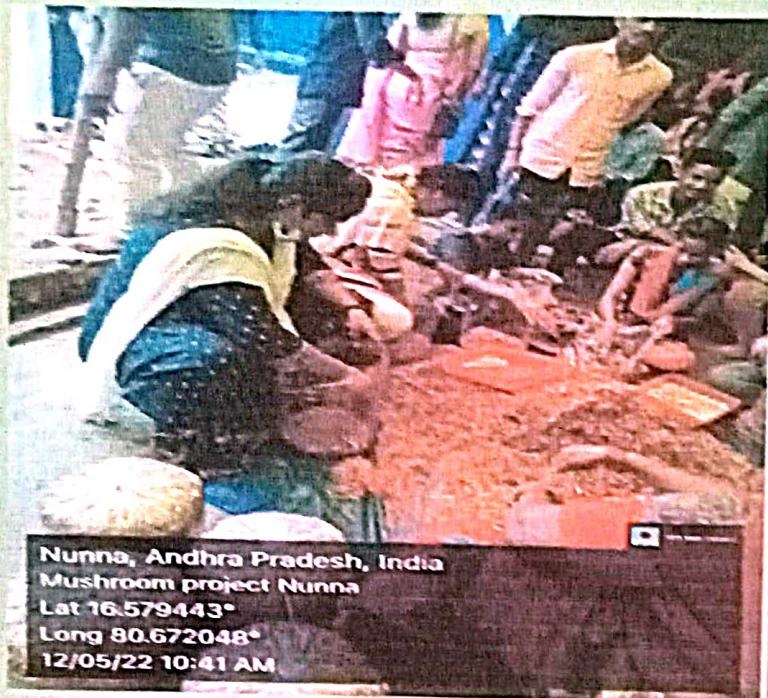


Nunna, Andhra Pradesh, India
MDR126, Nunna, Andhra Pradesh 521212, India
Lat 16.579406°
Long 80.672152°
11/05/22 10:49 AM

Nunna, Andhra Pradesh, India
MDR126, Nunna, Andhra Pradesh 521212, India
Lat 16.579404°
Long 80.672168°
11/05/22 11:12 AM

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

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G. Gopu
LECTURER IN CHARGE
Dept. of Botany
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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, న్యూస్టిడే: విద్యార్థులకు స్వయం ఉపాధి కోర్సులపై శిక్షణ ఇస్తున్నట్లు కొశాల ప్రిన్సిపల్ డాక్టర్ కె. బాగ్యలక్ష్మి అన్నారు. మాచవరంలోని ఎస్సూరార్ అండ్ సీవీఆర్ ప్రఖ్యత్వ డిగ్రీ కొశాల వ్యక్తశాస్త్ర విభాగం ఆధ్యార్యులో కొశాలలో బీఎస్సే (బీజెడ్ఎస్సే) తృతీయ సంవత్సరం విద్యార్థులు గత ఆయిదు రోజులుగా నున్నలోని ట్యూటి మప్పూమ్మీలో పుట్టగొడుగుల పెంపకం కేంద్రం వద్ద శిక్షణను విజయవంతంగా ముగించుకొని.. ఉత్తీర్ణాలైన విద్యార్థులు

స్వయం ఉపాధి కోర్సులపై శిక్షణ

లకు పుక్కవారం కొశాలలో ఏర్పాటుచేసిన కార్యక్రమంలో ధ్రువపత్రాలను ఆమె అందజేశారు. ఈ సుందర్యంగా ప్రిన్సిపల్ మాట్లాడుతూ.. శిక్షణలో

భాగంగా నాయ్యామెన గడ్డి, మట్టి, పుట్టగొడుగుల రకం, స్వానింగ్, స్వాన్ రన్నింగ్, క్రైసింగ్, క్రాపింగ్ మంచి అంశాలను విద్యార్థులు చక్కగా నేర్చుకున్నారు. కార్యక్రమాన్ని చేపట్టిన కొశాల వ్యక్తశాస్త్ర విభాగాదిపతి జి.స్వప్సు, అధ్యాపకులు వి.నాగపుర్ణామతి, డాక్టర్ సీహాచేటీనివాసరెడ్డి, వి.ప్రశాంతిలను అభినందించారు.

విద్యార్థులకు సర్లిఫికెట్లు ప్రదానం



మామరూనగర్(ఎడయివాద సంప్రదీ): ది
య్యార్థులు ధియరీతో పొఱు ప్రార్థికర్త చరిణ్ణునం
పెంచోందించుకోవాలని ఎన్నిపర్కెర్ అర్ అంద్ సీటి
అర్ ప్రచుర్య కణ్ణాప ప్రిస్టిమర్ దాక్టర్ డా. చా
గ్వాలక్ష్మి పెరిపొరు. మాపచరం ఎన్నిపర్కెర్
ప్రచుర్య కణ్ణాలలో శుభ్రచారం చృత్తుకూస్త
విచాగం ఆద్యర్థున చుట్టగొదుగుల పెంచరం
పూ శక్కిలు ఫూర్చి చేసుకున్న చివీస్సు తృతీయ సం
చెఱురం వియ్యార్థులచు సర్లిపికెఱ్ఱు చెయియే
చేశాడు. ఈ సందర్భంగా అమె మాట్లాడుతూ
అందిచచిన అపరాధాలను సద్గునియోగం
చేసుకుని ఉన్నత స్ట్రోనాలచు చేయలోవాలని
సూచించారు. చృత్తుకూస్త విచాగాందిచతి చి.స్క్రూ
మాట్లాడుతూ శక్కిలో నేడ్చుకున్న అంగాలను
తైతస్సాయిల్ అములు చేసేలూ ప్రహారికలు
రూపోందించామని పెల్చాన్నారు. అధ్యాపకులు
వి.సాగుప్పద్భుచచి. దాక్టర్ సిచ్చెయ శ్రీనివాసరెడ్డి.
చ.ప్రశాంతి తదితరులు పొర్కున్నారు.

SSB & CVR Government Degree College



DEPARTMENT OF BOTANY

Espera

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ଓঁ: ১-12-2022.

ప్రశ్నల వ్యాఖ్యలకు లక్ష్మివ శాఖల లొంగే అవకాశం వున్న
 ప్రశ్నగొప్పల పెంపుడం స్విరమం టులింగ్ మంచి మరి మూర్ఖమన, నరుద్యుసుల,
 గ్రుండుల, రైతుల విషపెండున్న ఇంటలోనే చీప్పు వచ్చునన, నముచ
 అవెనరాలలో తగిన స్థాలాలి శోభ సిరఫులు తో లివడంలా విటి
 పెంపుడం మంచి అదాయ వనరునా పెరగ శీంచ వచ్చునని క్రించుల ఇంధిల్ల
 కు" కాండల
 కు. ఖాగులప్పికి సుమంచురు.

“B බිංඩල් මුව්සුංස සුංයාංක. බිං නි
පුදු නිසුලදු ඔයිරාල සේදුව් වදා යුතු ගැනීයුදු

శ్రీ పెరుసు తుండ, వీఱాల్సి సిరిషియం రాన్వ్ లాట్యంకూ శ్రీసుంది, ఇవి స్థూల కాయల బరువు తెగ్గించుకుంటి అష్టుకు అయి, మధు ప్రీంషుల్లో చ్చిర్మి శించయి నియంత్రేణ లో ల్యాటోలు-రాబ్స్ట్రో వైఎస్ అందరూ

కునందన తయ్యిరంణి భూగంస చేత్తు ఉయిను వ్యుప్తిశ్శాస్తి లభునాదివిలు
పాశ్చాత్యాల్పత్తిలు కొచ్చిమంట లి.నాగి పిండులుయథ
స్థిర్ము, పెర్మింగ్చరు. ఈ సందర్భంను ఈ జాత్యుళు లింగురుల ప్రియి ని

ආදාන්තික ප්‍රසාද

Allegement
P. 12. 10/11
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Machavaram, VIJAYAWADA-520 007

III BSC B2C TM.

Names

Mobile

1. ch. Adhi lakshmi - 9603975039
2. K. Manga devi - 0494196469
3. B. Nagamani - 6281729239
4. B. Lakshman Rao - 9347249294
5. K. Mounika - 9642788395
6. ch. Venkataiah - 9390767309
7. R. Sandhya - 7337240849
8. K. Chandrika - 7659807886
9. A. Amantha raju - 6281436654
10. G. Satya priya - 9346843701
11. P. Venkatesh - 9390673514
12. B. Sai babu - 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 - 6303477013
19. L. Gop. - 7013179474

Name of student III B2C [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. Rajshekhar	-	9405643790
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 BSC Students collecting soil
for the preparation of mushroom beds



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





II 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	-	Narayana	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	-	Narya Jyothi	satisfy
6	12/5/2022	BZC	-	shankar	good
7	13/5/2022	BZC	-	Durga Basad	good
8	9/5/2022	BZC	-	Rex Dayah	good
9	10/5/2022	BZC	-	Srinivasulu	Beneficial
10	11/5/2022	BZC	-	M. Preethi	Helpful
11	10/5/2022	BZC	-	T. Venkat	good
12	12/5/2022	BZC	-	K. Bhavya Patra	satisfy
13	13/5/2022	BZC	-	Rajshikar	good
14	10/5/2022	BZC	-	Maveen	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	10/5/2022	BZC	-	Mahendra	good
18	10/5/2022	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	10/5/2022	BZC	-	Sonu	good
23	11/5/2022	BZC	-	Andhakshmi	good
24	10/5/2022	BZC	-	Marga devi	satisfy
25	11/5/2022	BZC	-	Nagamni	good
26	12/5/2022	BZC	-	Lakshman Rao	good
27	13/5/2022	BZC	-	Mounika	satisfy
28	14/5/2022	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	—	sal babu	Helpful
35	2/5/22	B2C	—	Balaji	Beneficial
36	10/5/22	B2C	—	Annapurna	Good
37	12/5/22	B2C	—	venu	Satisfy
38	9/5/22	B2C	—	Anil Kumar	Good
39	13/5/22	B2C	—	meeno kumari	Helpful
40	5/5/22	B2C	—	venkat	Beneficial
41.	6/5/22	B2C	—	b. Gop.	Satisfy
	.				





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.



**SRR & CVR GOVERNMENT DEGREE COLLEGE
(AUTONOMOUS)**
MACHAVARAM, VIJAYAWADA-520004
DEPARTMENT OF ZOOLOGY



- 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 a part of experimental learning, students have selected murrel fish because of its hard and wild nature.
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Inauguration of Murrel Fish Culture by Our Principal, Dr.K.Bhagya Lakshmi, along with the zoology staff and IInd B.Voc Aquaculture Technology Students





- 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 trial 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.



- 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.
