



Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE

(AUTONOMOUS)

NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH

Maddilapalem, Visakhapatnam – 530013, Andhra Pradesh.

0891-2553262, <https://www.drsvkrishnagdc.edu.in>



Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2018

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&MB.Bt.C	Hands on Training on Foldscope Government Arts College, Srikakulam	22-02-2018	59



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2018

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C	Hands on Training on Horticulture and Landscape Techniques Dr.V.S.K GDC, Visakhapatnam	09-07-2018	57



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2019

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&Mb.Bt.C	Summer School Program Silver Jubilee College, Kurnool	20-05-2019 to 28-05-2019	6



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2019

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C	Collection of Ulva At Beach Visakhapatnam	19-06-2019	23



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2019

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&Mb.Bt.C	Demonstration on Individual Blood Group Dr.V.S.K GDC, Visakhapatnam	19-09-2019	43



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2022

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&Mb.Bt.C	Hands on Training on Bioinformatics tools Dr.V.S.K GDC, Visakhapatnam	20-07-2022 & 21-07-2022	50



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AIM

The novel findings on BioSystems are relying on advanced techniques, which generate enormous data. The extraction of the relevant data from this available data is through the utilization of the Bioinformatics tools. Bioinformatics is an interdisciplinary field that develops computational methods and software packages for analyzing biological data. It has been used for In silico analyses of biological queries using mathematical and statistical techniques. This emerging discipline has a great scope in pharmaceuticals and scientific studies, which offer various opportunities after specialization. This workshop aims to provide a basic understanding of bioinformatics and intends to develop a deep sense of interest in students for future carrier options.

ABOUT THE COLLEGE

Dr. V. S. Krishna Govt. Degree College (A) is a nodal premier institution in the City of Destiny, situated in a Serene atmosphere and located in Maddilapalem adjacent to N.H. 16 was established in 1968 and named after Dr. Vasireddy Sri Krishna, an eminent educationist and former Vice-chancellor of Andhra University. The college is developed into a very important centre for higher Education in the District. The college was reaccredited with A Grade at 3.11 CGPA by National Assessment and Accreditation Council (NAAC) in 2017 for its consistent performance in providing quality education and producing best results over the last four decades. The college has the recognition of U.G.C. under 2(f) & 12(b) and is affiliated to Andhra University. The college was conferred Autonomous status in 2011 being the first Govt. College to attain the status in Zone -I. Dr. V. S. Krishna Govt. Degree & P.G. College (A) offers 21 Graduate and 7 post Graduate courses. The college has 82 teaching and 32 Non-Teaching positions besides separate faculty for post Graduate courses. There are 50 Doctorates in the Teaching Faculty. Five of them are Best Teacher Awardees by the State Government. The college has buildings and playground spread over 6.75 Acres with Well-equipped Laboratories. This Identified College having Centre for Research Affiliated to Andhra University with 23 Research Directors.

LEARNING OUTCOMES

Introduction to biological databases and tools. Getting acquainted with concept of sequence alignment. Learn how to do biological data acquisition, data mining, analysis.

TOPICS TO BE COVERED

1. Introduction to Biological Databases: Types (NCBI, EMBL, DDBJ PDB) and their significance.
2. Retrieve, analyze and visualize DNA/RNA/Protein sequences from NCBI & PDB.
3. Sequence Alignment: Introduction & Types- Pairwise Alignment & Multiple sequence alignment: ClustalW, COBOL Tools.
4. Sequence Analysis using BLAST. Different types of BLAST Tools/Techniques, E values.
5. Phylogenetics and Evolutionary Tree Construction: Analysis and Visualization.

You are Cordially Invited

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MADDILAPALEM, VISAKHAPATNAM-530013, ANDHRA PRADESH
<https://www.drsvkrishnagdc.edu.in>

**Two Day Workshop on
"BIOINFORMATICS : RESOURCES
TOOLS AND ITS APPLICATIONS
(For UG & PG Students)**

Date : 20th & 21st July 2022

**Organized by
Department of Biotechnology
&
Department of Microbiology**

Registration Link :
<https://forms.gle/Mn2VAGxne3YQCHGq8>



Visakhapatnam, Andhra Pradesh, India
P8RC+97X, Maddilapalem, Visakhapatnam, Andhra Pradesh



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2022

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&Mb.Bt.C	Hands on Training on Mushroom Cultivation Dr.V.S.K GDC, Visakhapatnam	03-07-2022	30



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Hands - On Trainings attended by Students

Name of the Department: Biotechnology

Year: 2023

Sno.	Class/Group	Place of Training	Date of training	No. of Students attended
1.	Bt.B.C&Mb.Bt.C	Hands on Training on Plant Tissue Culture Centurion University, Vijayanagaram	18-11-2023	30



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Students attending one day workshop on "Assembly and usage of Foldscope sponsored by DBT, New Delhi"





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Hands on Training in Practical Classes

Name of the Department: Zoology

Name of the mentor: Dr. Y. Shanti Prabha

Year of the event: 2022 - 23

Name of the event: Observation of Histology slides under the microscope

Description of the event:

The lab experience of observing histology slides under the microscope involves examining various tissue samples to understand their structure and function. Slides are placed under the microscope, and students meticulously adjust the focus to view the intricate details of the tissues. Observations include identifying cell shapes, arrangements, and any distinct features, such as the striations in muscle tissue, the layered structure of epithelial tissue, or the matrix of connective tissue. This hands-on experience allows students to differentiate between types of tissues, recognize normal versus abnormal structures, and appreciate the complexity of biological organisms at the microscopic level.

The lab enhances a capability of understanding the tissue biology, the importance of histological techniques in medical diagnostics, and the intricate relationship between structure and function in biology. Additionally, it hones students' technical skills in microscope handling, slide preparation, and the accurate recording of observations, all of which are crucial for careers in biological sciences and research.

Outcome of the event:

The outcome of observing histology slides under the microscope is a deeper understanding of tissue structure and function. Students learned to identify various tissue types, recognize cellular arrangements, and distinguish between normal and pathological features. This experience enhanced their technical skills in using microscopes and preparing slides, with accurate precision and attention. It also strengthens theoretical knowledge of histology, illustrating the practical applications of tissue analysis in medical diagnostics and research. Thus, the lab experience cultivated observational skills, and a greater appreciation for the complexity of biological tissues.



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Hands on Training in Practical Classes

Name of the Department: Zoology

Name of the mentor: Dr. Y. Shanti Prabha

Year of the event: 2021- 2022, 2022 - 23

Name of the event: Qualitative tests for identification of carbohydrates, proteins and lipids

Description of the event:

In a qualitative analysis lab for carbohydrates, proteins, and lipids, various tests are performed to identify these macromolecules in given samples. For example, to test carbohydrates, the Benedict's test is used to detect reducing sugars, where a positive result is indicated by a color change from blue to orange-red upon heating. The iodine test identifies the presence of starch, yielding a blue-black color when positive. For proteins, the Biuret test is employed, where a violet color indicates the presence of peptide bonds. Lipids are tested using the Sudan III stain, which binds to lipids, coloring them red, or through the grease-spot test, where lipids leave a translucent spot on unglazed paper. Each test involves adding specific reagents to the sample and observing changes, often under heating or other conditions, to confirm the presence of the targeted macromolecule. This hands-on experience enhances understanding of biochemical principles and the chemical properties of these essential nutrients, demonstrating their distinct reactions and allowing students to interpret qualitative data effectively. The lab not only deepens theoretical knowledge but also hones practical skills in handling reagents and interpreting results.

Outcome of the event:

The outcome of the qualitative tests for carbohydrates, proteins, and lipids in the lab provides a clear identification of these macromolecules in various samples. For carbohydrates, a positive Benedict's test, indicated by an orange-red precipitate, confirms the presence of reducing sugars, while a blue-black color in the iodine test reveals starch. In protein testing, the Biuret test produces a violet color if peptide bonds are present, affirming the presence of proteins. For lipids, a positive Sudan III test shows a distinct red-stained layer, and the grease-spot test leaves a translucent mark on paper, indicating lipids. These outcomes are crucial for students, as they validate theoretical knowledge with empirical evidence. Students learned to meticulously follow protocols, accurately record observations, and interpret results. The Practical experience enhanced their skills in using laboratory equipment and reagents, helped analyzing test results, and emphasized the importance of safety and precision in scientific experiments.

The practical outcomes not only reinforced the biochemical understanding of macromolecules but also cultivated essential laboratory skills and analytical abilities that are fundamental in scientific research and studies.



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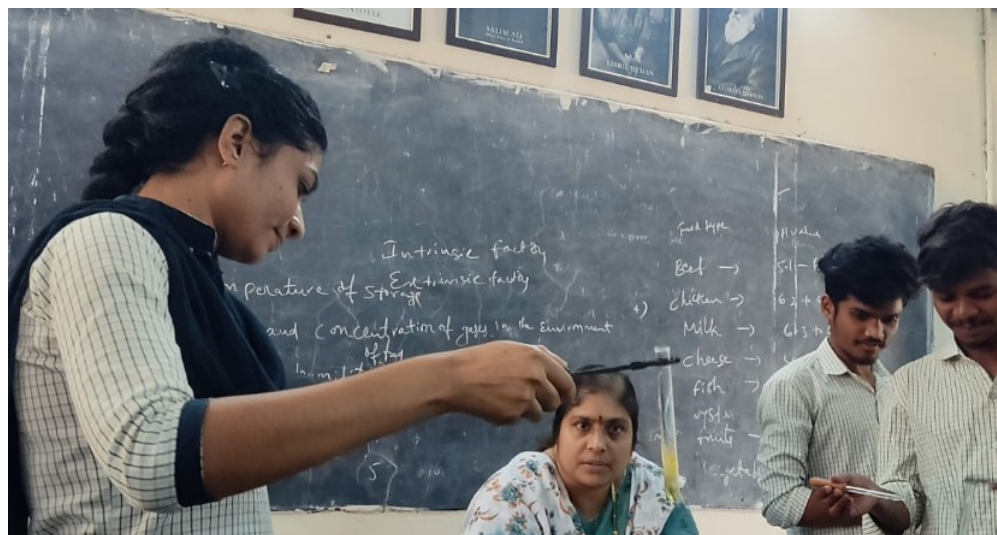
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EVENT PARTICIPATED REPORT **(2019-2020)**

Name of Department	ZOOLOGY
Name of Event Organized	Student Participation BIOFEST organized by Gayatri Vidya Parishad.
Title of the Event	GENRECON 2K 19
Date of Event Organized	16-09-2019
Name of the STAFF who motivated student participation	Dr. Y. Shanti Prabha
Class of the Participant	BSc (BZC) TM
No. of Participant (Student +Staff)	10
Objective of the Event	<p>The objectives of student participation in Biofest are immense, aiming to cultivate a holistic understanding of biological sciences while nurturing essential skills and fostering personal growth. Through engaging in competitions, workshops, and presentations, students hone their scientific inquiry, critical thinking, and communication abilities. They collaborate with peers and experts, fostering teamwork and networking opportunities. Biofest provides a platform for showcasing research review, creativity, and innovation, empowering students to apply theoretical knowledge to real-world challenges. Additionally, participation instills a sense of curiosity, passion, and dedication to the field, encouraging lifelong learning and career development in biological sciences.</p>

Description of the event	Students participated in various competitions like painting, elocution, poster presentation and best out of waste concepts.
Outcome of the Event	Students won first prize in Poster presentation event and also won second prize in “Best out of waste” event.



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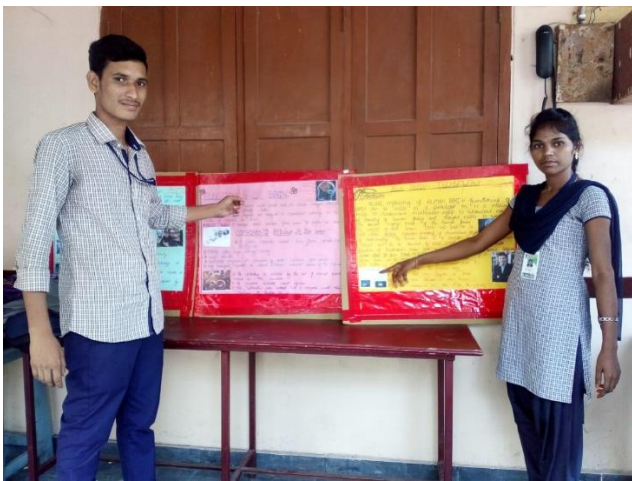
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Student receiving 2nd prize for participation in Best out of waste event.



Student receiving 1st prize in Poster Presentation event



Students explaining to the Judges



Students with their awards and certificates



Participant winners with the faculty of Department of Zoology



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EVENT ORGANIZED REPORT **(2022-2023)**

Name of Department	ZOOLOGY
Name of Event Organized	BLOOG GROUPING
Title of the Event	IMPORTANCE OF BLOOD GROUPS
Date of Event Organized	02/12/2022
Name of the coordinator of the Event	Dr. V. RATNA BHARATHI
Class of the Participant	BSc (BZC)
No. of Participant (Student +Staff)	30
Objective of the Event	To create the awareness among the students about importance of different Blood Groups.
Description of the event	Student experimental demonstration to determine the blood group.
Outcome of the Event	<p>Students could</p> <ul style="list-style-type: none">★ understand the different types of blood groups★ understand that blood transfusion requires precise blood grouping, which is crucial. A patient may experience potentially fatal intravenous clumping of their blood if blood is given to them if their blood type is incompatible with the blood type they receive.★ Blood type is very crucial for pregnant Rh – negative mother. A medication known as RhoGAM is required in these situations for the mother which will prevent the mother's body from producing antibodies that could harm the unborn child's blood cells.



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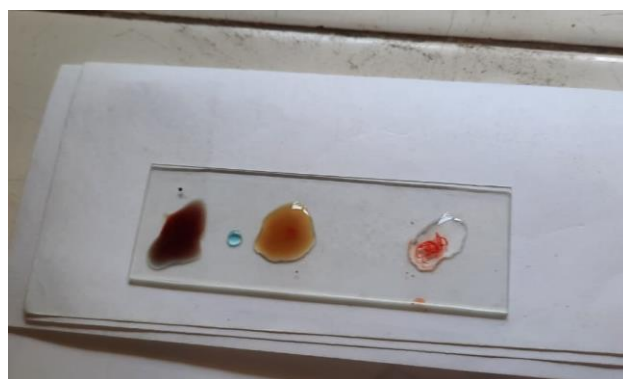
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EVENT PARTICIPATED REPORT **(2022-2023)**

Name of Department	ZOOLOGY
Name of Event Participated	Student Participation in INSA Lecture Workshop held at GITAM
Title of the Event	RECENT ADVANCES IN GENOMICS AND TRANSGENESIS
Date of Event Organized	16-08-2022 and 17-08-2022
Name of the STAFF who motivated student participation	Dr. Y. Shanti Prabha
Class of the Participant	BSc Biology stream
No. of Participant (Student +Staff)	9
Objective of the Event	The objectives of a workshop on Recent Advances in Genomics and Transgenesis are exceptional. It aims to provide participants with a comprehensive understanding of cutting-edge techniques and technologies in genomics research, including next-generation sequencing and gene editing tools like CRISPR-Cas9. The workshop helps students to explore the applications of genomics and transgenesis in various fields such as medicine, agriculture, and biotechnology, fostering interdisciplinary collaboration and innovation. Attending such workshop aims to inspire and empower students to learn about the genomic advancements for scientific discovery and societal benefit.

Description of the event	The Principal, in his remarks at the event, stated that transgenesis and genomics have transformed biotechnology in a number of ways, including the creation of recombinant vaccines, health products, improved animal husbandry, and more nutrient-dense crops.
Outcome of the Event	Students learned about the genomic advancements for scientific discovery and societal benefit which is part of their curriculum.



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Participants with Principal sir, Dr. I. Vijaya Babu



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EVENT ORGANIZED REPORT **(2022-2023)**

Name of Department	ZOOLOGY
Name of Event Organized	OBSERVATION OF DIFFERENT TYPES OF BLOOD CELLS
Title of the Event	IMPORTANCE OF BLOOD CELLS
Date of Event Organized	01 MAY 2023
Name of the coordinator of the Event	Dr. Y. SHANTI PRABHA
Class of the Participant	BSc (BZC)
No. of Participant (Student +Staff)	40
Objective of the Event	To create the awareness among the students about importance of different blood cells.
Description of the event	Student experimental demonstration to observe the blood cells.
Outcome of the Event	<p>Students could</p> <ul style="list-style-type: none">★ understand the different types of blood cells,★ determine the cause of abnormal results on a white blood cell (WBC)count;★ analyse illness affecting the immune system, such as an infection or inflammatory condition, or cancers that affect white blood cells, such as leukemia.★ Get awareness on conditions with low WBC counts like blood disorders, and bone marrow diseases.



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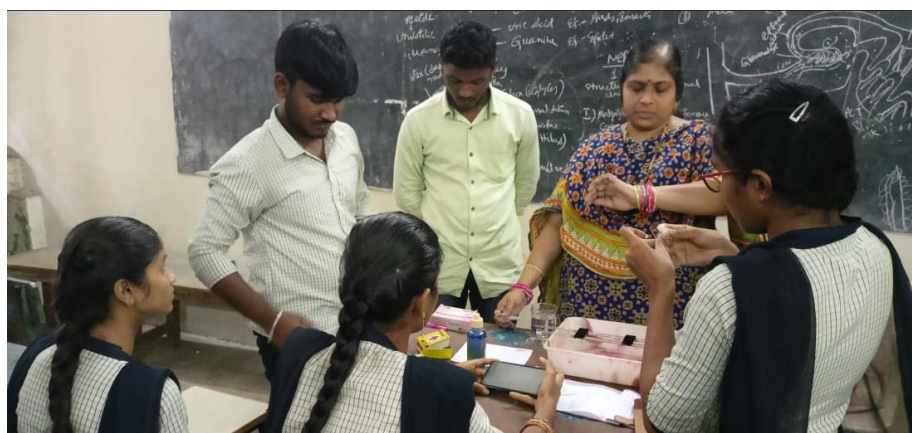
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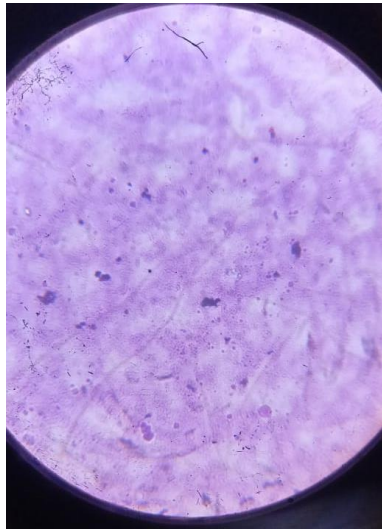
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(2022-2023)

Name of the Department that coordinated the programme: Department of Zoology

Name of the Capacity Building Programme:

Training Programme on Identification of Commercially important Marine finfishes and shell fishes at Fishery Survey of India, Visakhapatnam.

Description of the programme:

The Training Programme on Identification of Commercially Important Marine Finfishes and Shellfishes at the Fishery Survey of India (FSI) in Visakhapatnam offers a comprehensive learning experience for individuals interested in marine fisheries. Participants engage in a structured curriculum focused on the identification of key marine finfish and shellfish species that are economically significant for the fishing industry. The programme combines theoretical lectures with practical hands-on sessions, allowing trainees to develop proficiency in species identification based on morphological characteristics, ecological habitats, and commercial importance. Through guided laboratory exercises, participants learn to differentiate between various fish and shellfish species commonly encountered in commercial fishing operations.

The training programme also provides insights into the ecological and socio-economic significance of different marine species, as well as their contribution to fisheries management and conservation efforts. Participants also gain knowledge about regulatory frameworks governing the harvesting and trade of commercially important marine species, ensuring compliance with relevant laws and regulations. Thus, the Training Programme at FSI Visakhapatnam equips participants with the skills and knowledge necessary to accurately identify commercially important marine finfishes and shellfishes, thereby enhancing their capabilities as fisheries professionals and contributing to the sustainable management of marine resources.

Outcome of the programme:

The Training Programme on Identification of Commercially Important Marine Finfishes and Shellfishes at the Fishery Survey of India (FSI) in Visakhapatnam yielded significant outcomes for the participants. Graduates of the programme enhanced skills and knowledge in the accurate identification of commercially important marine species, empowering them to contribute effectively to fisheries management and conservation efforts. Participants developed proficiency in distinguishing between various marine finfishes and shellfishes based on morphological characteristics, ecological habitats, and commercial significance. This expertise enables them to play key roles in ensuring the sustainability of marine resources by facilitating accurate stock assessments, species monitoring, and ecosystem management initiatives.

Furthermore, the programme fosters a deeper understanding of the ecological and socio-economic importance of marine species, as well as the regulatory frameworks governing their exploitation and trade. Equipped with this knowledge, participants can better advocate for responsible fishing practices and compliance with relevant regulations within the fishing industry. The Training Programme at FSI Visakhapatnam contributed to the professional development of students and promoted the sustainable utilization of marine resources. By enhancing participants' identification skills and awareness of marine biodiversity, the programme strengthened the foundation for effective fisheries management and conservation efforts in Fisheries sector.



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PHOTO GALLERY





Senior scientist, Dr. Prasad explaining the details of identification



EVENT ORGANIZED REPORT



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(2021-2022)

Name of the Department that coordinated the programme: Department of Zoology

Name of the Capacity Building Programme:

Hands on Training Programme on Water and Soil Analysis and Disease Management in Shrimp Farming at Andhra University - Avanthi Aquaculture skill Development Centre, Visakhapatnam from 06/09/2022 to 15/09/2022.

Description of the programme:

The Hands-on Training Programme on Water and Soil Analysis and Disease Management in Shrimp Farming at Andhra University - Avanthi Aquaculture Skill Development Centre in Visakhapatnam offered a comprehensive learning experience for individuals interested in the aquaculture industry. Participants engage in practical sessions focused on water and soil analysis techniques, essential for maintaining optimal conditions in shrimp farming environments. Through hands-on exercises, trainees learn to assess water quality parameters, such as pH, salinity, dissolved oxygen, and nutrient levels, crucial for shrimp health and growth. Moreover, the programme addresses disease management strategies, equipping participants with the knowledge and skills to identify common shrimp diseases, implement preventive measures, and administer appropriate treatments.

Trainees gain insights into disease surveillance, biosecurity practices, and the use of probiotics and other interventions to promote shrimp health and mitigate disease outbreaks. The hands-on nature of the programme fosters experiential learning and skill development, preparing trainees for real-world challenges in shrimp farming. The Hands-on Training Programme at Andhra University's Avanthi Aquaculture Skill Development Centre empowers participants to make informed decisions, implement best practices, and effectively manage water quality and disease issues in shrimp farming operations, thereby contributing to the sustainability and profitability of the aquaculture industry.

Outcome of the programme:

The outcome of the Hands-on Training Programme on Water and Soil Analysis and Disease Management in Shrimp Farming at Andhra University's Avanthi Aquaculture Skill Development Centre in Visakhapatnam is multifaceted and impactful. Graduates of the programme were equipped with practical skills and knowledge essential for success in the shrimp farming industry. The participants gained proficiency in water and soil analysis techniques, enabling them to assess and manage critical environmental parameters necessary for optimal shrimp growth and health. This expertise enhances the efficiency and sustainability of shrimp farming operations by ensuring the maintenance of suitable water quality conditions. Students also acquired comprehensive knowledge of disease management strategies, including disease identification, prevention, and treatment. Armed with this understanding, they are better equipped to mitigate disease risks and respond effectively to health challenges in shrimp farming systems.

Furthermore, the programme inculcated a culture of continuous learning and innovation among participants, encouraging them to apply best practices and adopt new technologies to enhance shrimp farming productivity and profitability. Thus, the Hands-on Training Programme at Andhra University's Avanthi Aquaculture Skill Development Centre equipped graduates with the tools and expertise needed to excel in the dynamic and evolving field of shrimp farming, contributing to the growth, sustainability, and resilience of the aquaculture industry in Visakhapatnam and beyond.



Dr.V.S.KRISHNA GOVT. DEGREE COLLEGE

(AUTONOMOUS)

NODAL RESOURCE CENTRE & AU CENTRE FOR RESEARCH

Maddilapalem, Visakhapatnam – 530013, Andhra Pradesh.

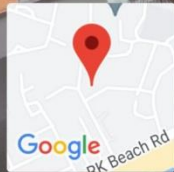
0891-2553262, <https://www.drskrishnagdc.edu.in>



PHOTO GALLERY

Water quality demonstration





Visakhapatnam, Andhra Pradesh, India

530003, Yoga Village, HPCL Colony, Pandurangapuram, Visakhapatnam, Andhra Pradesh 530003, India

Lat 17.71777°

Long 83.325834°

08/09/22 10:52 AM



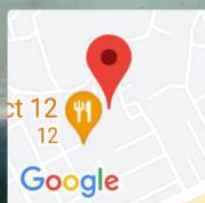
Visakhapatnam, Andhra Pradesh, India

P88F+R8V, Yoga Village, Pandurangapuram, Visakhapatnam, Andhra Pradesh 530003, India

Lat 17.717231°

Long 83.32363°

14/09/22 11:35 AM



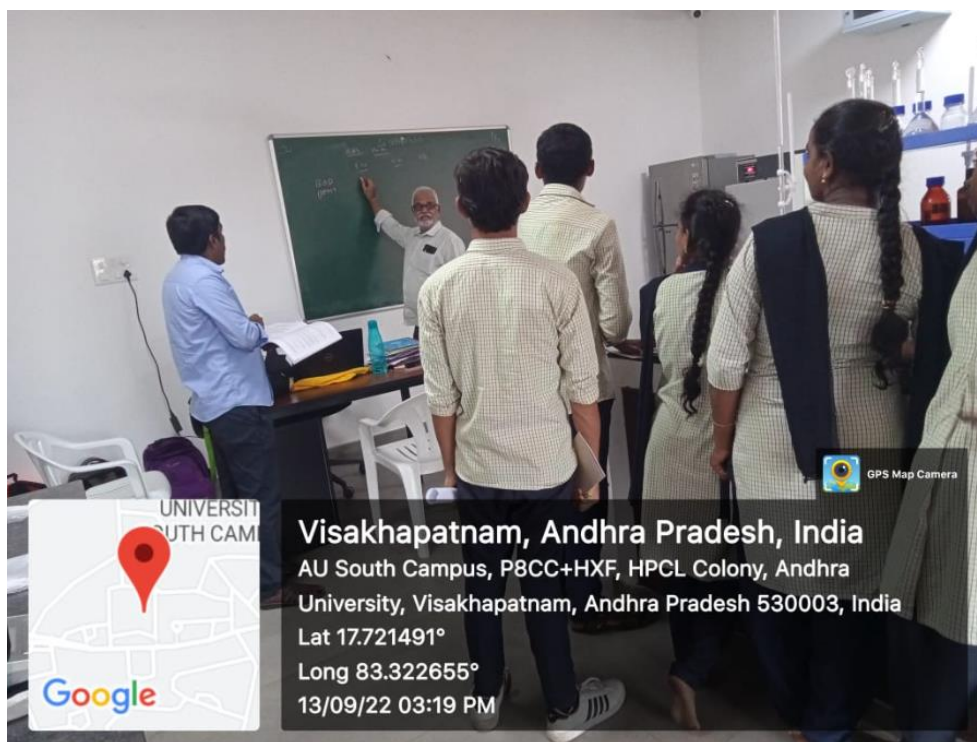
Visakhapatnam, Andhra Pradesh, India

P88F+R8V, Yoga Village, Pandurangapuram, Visakhapatnam, Andhra Pradesh 530003, India

Lat 17.717208°

Long 83.32364°

14/09/22 11:37 AM



Explanation before demonstration



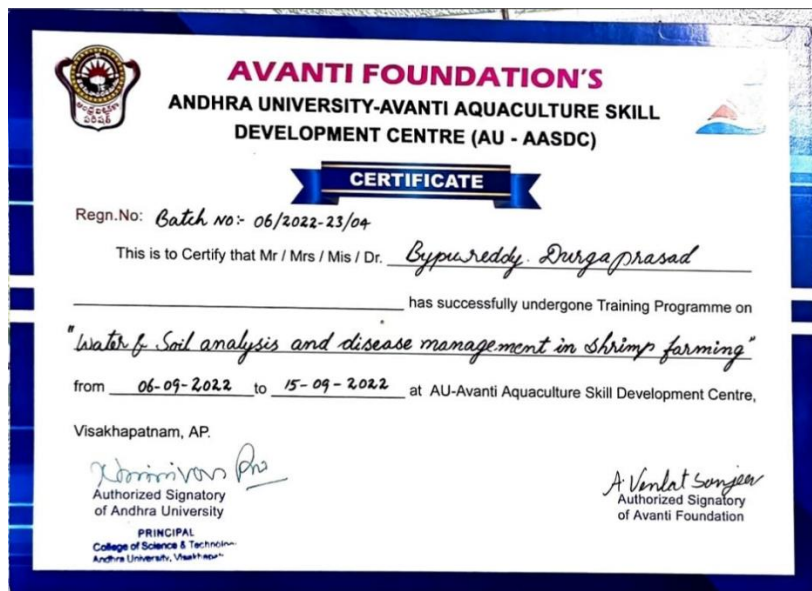


Demonstration by the technical staff at Avanthi Aquaculture SDC



Students performing the experiment after demonstration





Certificate on completion of Training Programme



Students with Certificate of completion of Hands on Training Programme, at Avanthi Aquaculture Skill Development Centre



All the Trained Students with the Principal and Faculty of Department of Zoology,

Dr. VSK GDC (Autonomous), Visakhapatnam

EVENT ORGANIZED REPORT



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(2021-2022)

Name of the Capacity Building On Job Training Programme:

Training on postharvest technology of finfish and shellfish at NIPHHAT, Visakhapatnam from 01/09/2022 to 15/09/2022.

Description of the programme:

On-the-job training at the National Institute of Fish Post Harvest Technology (NIFPHATT) in Visakhapatnam offers a unique opportunity for students interested in fisheries and post-harvest technology to gain practical expertise and theoretical knowledge in this specialized field. Trainees engage in hands-on learning experiences under the guidance of experienced professionals and researchers, exploring into various aspects of fish processing, preservation, quality control, and value addition.

The training curriculum at NIFPHATT covers a diverse range of topics, including modern fish processing techniques, hygienic handling practices, packaging and storage methods, and seafood safety standards. Trainees have access to state-of-the-art processing facilities and laboratories equipped with advanced equipment for quality assessment and analysis. Throughout the training program, emphasis is placed on industry-relevant skills and best practices, preparing trainees for careers in the fisheries and seafood processing sectors.

Additionally, NIFPHATT provides opportunities for trainees to participate in workshops and seminars, and interact with industry stakeholders, fostering a rich learning environment and facilitating networking opportunities. By combining theoretical learning with practical, hands-on experience, on-the-job training at NIFPHATT participants are equipped with the necessary tools and knowledge to address challenges in fish post-harvest technology and contribute to the sustainable development of the fisheries sector.

Outcome of the programme:

After on-the-job training at the National Institute of Fish Post Harvest Technology in Visakhapatnam, students have undergone a transformative learning experience. They gained practical expertise in fish processing, preservation, and quality assurance. The hands-on training equipped them with industry-relevant skills and knowledge, enhancing their employability in the fisheries sector. Additionally, students were benefited from exposure to cutting-edge research and technology, fostering innovation and critical thinking. The training cultivated a deeper understanding of the complexities of fish post-harvest management. Students have emerged as competent professionals with skills to contribute meaningfully to the fisheries industry's growth and development.



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PHOTO GALLERY



BVOC Aquaculture students with the Senior scientist, Dr. Koteswara Rao at NIPHHAT, Visakhapatnam.

Students learning the processing skills and techniques





processing unit

MAKING FISH KEEMA





Certificate on completion of Training Programme.



All Trained Students with their Certificates of On Job Training at NIPPHAT, Visakhapatnam