



GURU NANAK COLLEGE (AUTONOMOUS)

Affiliated to University of Madras and Re-Accredited at "A" Grade by NAAC

Guru Nanak Salai, Velachery, Chennai – 600042.

Department of Advanced Zoology and Biotechnology

Event Title	National Workshop on "AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY"	
Category	All Students, Research Scholar, Faculty member, Farmers and industry person	
Date	From: 13.8.2020	To: 19.8.2020
No. of Resource Person	7	
No. of Participants	1052	

(1) Report Description

The head of P.G and Research Department of advanced Zoology and Biotechnology **Dr J. Jayanthi** organized a National Workshop on "AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY " through live streamed in the You Tube channel – Zoology Department GNC from 13.8.2020 to 19.8.2020 at 2pm.

(2) Report

Day 1- 13.08.2020

TOPIC - "Viral Disease Management in Shrimp Culture with Reference to WSSV"

Dr. A. SAIT SAHUL HAMEED OIE Expert & FNAAS, Tata Innovation Fellow (DBT – Govt. of India) Associate Professor of Zoology (Rtd.) Coordinator, Aquatic Animal Health Laboratory (NABL Accredited), OIE Reference Laboratory, C.Abdul Hakeem College, Vellore was the resource person. 1340 people were participated through live streaming from all over world.

White spot disease (WSD) is a serious panzootic affecting prawn aquaculture. The disease is caused by white spot syndrome virus (WSSV), a large double-stranded circular DNA virus and currently the only member of the genus *Whispovirus* and family *Nimaviridae*]. In intensive aquaculture systems, mortality can be rapid and occurs at a rate of up to 100% The economic cost of the disease on the prawn aquaculture industry worldwide has been estimated at up to US\$15 billion since the emergence and initial spread of the disease, increasing at a rate of US\$1 billion annually, equating to approximately 10% of global prawn production.

Day 2 14.08.2020

TOPIC - "Live Feed for Sustainable Aquaculture culture

Dr. K. ALTAFF Professor, Department of Marine Biotechnology AMET Deemed University Kanathur, Chennai – 60 was the resource person. 1740 people were participated through live streaming from all over world.

The Speaker explained about Seed Production and Farming, Quality seed production, Live feed, Microbes, micro algae, protozoans, rotifers, cladocerans, copepods,

Artemia, worms. The technology for phytoplankton and zooplankton mass production has become very reliable and the production of live feeds is part of the standard working procedures in Mediterranean hatcheries. The efficiency of this part of the hatchery mainly depends on the implementation of standard procedures by well trained staff.

Day 3 15.08.2020

TOPIC - Fishery Based Livelihood Support Activity in Open Brackish Water Bodies

Dr. DEBORAL VIMALA Principal Scientist, Social Science Division (SSD), ICAR-CIBA, Chennai, Tamil Nadu was the resource person. 1440 people were participated through live streaming from all over world.

The Speaker explained about brackish waters unfit for any other productive purpose like irrigation, drinking and construction. It can be used only for shrimp/fish/crab production. If the water sources were well utilized – alternate livelihood income Open brackish water sources could be a shared resource for a group based aquaculture activity. The Asian seabass (*Lates calcarifer*) – Koduva It is an advantageous culture species in India, seabass has been cultured in brackish water and freshwater West Bengal, Tamil Nadu and Kerala - wild seed is stocked .

Day 4 16.08.2020

TOPIC - “Mangrove Crab (*Scylla serrata*) Aquaculture for Entrepreneurs”

Dr. V. SHANMUGA ARASU Asst. Project Manager, Seabass & Mangrove Crab Hatchery Project, Rajiv Gandhi Centre for Aquaculture, Research & Development Centre of MPEDA, Ministry of Commerce & Industry, Govt. of India was the resource person. 1540 people were participated through live streaming from all over world.

The Speaker explained about capture fishes and culture fishes, status of artemia and mud crab brood stock. Mud crab/green crab/mangrove crab’ (*Scylla serrata*) commands sustainable domestic and international market. Owing to this fact, this species is widely exploited from all along the coastal belt of India and also in many parts of the tropical/subtropical regions of the world where its natural distribution is ascertained. As such, geographically, this species is widely distributed in Indo-Asian region and also certain tropical parts of Australian continent.

Day 5 17.08.2020

TOPIC Latest Emerging Technologies in Seaweed Farming Around the World and with Special Emphasis to Indian Seaweed Farming”

Dr. M. JAI KUMAR Field Scientist Sea6 Energy Pvt, Ltd Tuticorin was the resource person. 1540 people were participated through live streaming from all over world.

The seaweed industry in India is mainly a cottage industry and is based only on the natural stock of agar-yielding red seaweeds, such as *Gelidiella acerosa* and *Gracilaria edulis*, and algae yielding brown seaweeds species such as Sargassum and Tubinaria. Macroalgae are classified into three major groups: brown algae (Phaeophyceae), green algae (Chlorophyta), and red algae (Rhodophyta). As all of the groups contain chlorophyll granules, their characteristic colors are derived from other pigments. Many of the brown algae are referred to simply as kelp.

Day 6 18.08.2020

TOPIC - “Brackish Water Finfish Aquaculture - Livelihood Opportunities

Dr. M. KAILASAM Principal Scientist & SIC, Fish Culture Division (FCD), ICAR-CIBA, Chennai, Tamil Nadu was the resource person. 1340 people were participated through live streaming from all over world.

Farming of brackish water fishes in locally crafted cages suitable for estuaries, creeks, backwaters and lagoons is an emerging innovative and viable technology for the production of valuable finfish such as seabass. The technology is efficient in utilizing the vast stretches of brackish water resources along the costal India for increased fish production, employment creation and income generation, falls under the vision of Indian Govt. under the blue revolution. In this direction, the ICAR-Central Institute of Brackish water Aquaculture (ICAR-CIBA), Chennai which is the nodal research institution for the development of brackish water aquaculture in collaboration with the National Institute of Ocean Technology (NIOT), Chennai has successfully demonstrated cage farming of Asian seabass fish (*Lates calcarifer*) in the Buckingham canal waters at Vennangupattu coastal village in Kancheepuram District of Tamil Nadu. CIBA mobilized the fisher youths from the villages. Skill development training has been provided as part of Attracting and Retaining Youth in Agriculture (ARYA) initiative of ICAR-CIBA partnering with NIOT on cage designing, fabrication, installation, nursery rearing and farming of fishes in cages.

Day 7 19.08.2020

TOPIC - “High Density Production and Utilization of Marine Copepods in Sustainable Aquaculture”

Dr. P. SANTHANAM Associate Professor Marine Planktonology & Aquaculture Lab Department of Marine Science, School of Marine Sciences Bharathidasan University Tiruchirappalli was the resource person. 1240 people were participated through live streaming from all over world.

The industrial development of shrimp culture in recent times has been greatly hampered by vulnerable diseases and lack of suitable feed. Hence the export of shrimps has attained decreasing phase. Shrimps appearing bright are generally considered to be of good quality. So developing a feed that has high pigmentation value is equally essential as a nutritionally good feed. In fact carotenoid pigments (Astaxanthin) are essential substances in the dietary requirement of shrimps. Besides its role in body pigmentation, astaxanthin is a potent antioxidant and has also been suggested to function as a vitamin-A precursor. Copepods are important crustaceans studied because of their key role in ecology, trophic biology, fisheries management, in modeling the flow of energy and matter, ecotoxicology and aquaculture. This paper discusses various aspects of the state of knowledge of copepod culture at large scales and provides the scientific community with ideas and concepts that could improve and quicken the development of copepod mass cultures. The aim of the present study was to gain knowledge on survival and pigmentation effect of copepods on black tiger prawn (*Penaeus monodon*). The results of the present study inferred that the shrimp larvae fed with copepod showed rapid increase in growth, weight and pigments.

(3) Invitation Copy –



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PG & Research Department of Advanced Zoology and Biotechnology

Workshop
on
“AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY”
13th to 19th August 2020

Registration Link: <https://forms.gle/wXHxZcgtSS1FzmZh9>

Attendance for all seven days is mandatory

For Further Details Contact
Dr. J. JAYANTHI
Associate Professor & Head
Department of Advanced Zoology and Biotechnology
Guru Nanak College (Autonomous), Chennai
Email ID: zoologyshift1.hod@gurunanakcollege.edu.in

	
Dr. M.G. Raguathan <i>Principal</i>	Sardar Manjit Singh Nayar <i>General Secretary & Correspondent</i>

WORKSHOP ON
“AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY”
Workshop Schedule

<p>13-08-2020 (Thursday) 2.00 PM – 3.00 PM</p>		<p>Dr. A. SAIT SAHUL HAMEED OIE Expert & FNAAS, Tata Innovation Fellow (DBT – Govt. of India) Associate Professor of Zoology (Rtd.) Coordinator, Aquatic Animal Health Laboratory (NABL Accredited), OIE Reference Laboratory, C.Abdul Hakeem College, Vellore</p>	<p>“Viral Disease Management in Shrimp Culture with Reference to WSSV”</p>
<p>14-08-2020 (Friday) 2.00 PM – 3.00 PM</p>		<p>Dr. K. ALTAFF Professor, Department of Marine Biotechnology AMET Deemed to be University Kanathur, Chennai – 603112, India.</p>	<p>“Live Feed for Sustainable Aquaculture”</p>
<p>15-08-2020 (Saturday) 2.00 PM – 3.00 PM</p>		<p>Dr. D. DEBORAL VIMALA Principal Scientist, Social Science Division (SSD), ICAR-CIBA, Santhome High Road, MRC Nagar, Chennai, Tamil Nadu.</p>	<p>“Fishery Based Livelihood Support Activity in Open Brackish Water Bodies”</p>

<p>16-08-2020 (Sunday) 2.00 PM – 3.00 PM</p>		<p>Dr. V. SHANMUGA ARASU Asst. Project Manager, Seabass & Mangrove Crab Hatchery Project, Rajiv Gandhi Centre for Aquaculture, Research & Development Centre of MPEDA, Ministry of Commerce & Industry, Govt. of India.</p>	<p>“Mangrove Crab (<i>Scylla serrata</i>) Aquaculture for Entrepreneurs”</p>
<p>17-08-2020 (Monday) 2.00 PM – 3.00 PM</p>		<p>Dr. M. JAI KUMAR Field Scientist, Sea6 Energy Pvt. Ltd., Tuticorin</p>	<p>“Latest Emerging Technologies in Seaweed Farming Around the World and with Special Emphasis with India Seaweed Farming”</p>
<p>18-08-2020 (Tuesday) 2.00 PM – 3.00 PM</p>		<p>Dr. M. KAILASAM Principal Scientist & SIC, Fish Culture Division (FCD), ICAR-CIBA, Salthome High Road, MRC Nagar, Chennai, Tamil Nadu</p>	<p>“Brackish Water Finfish Aquaculture - Livelihood Opportunities”</p>
<p>19-08-2020 (Friday) 2.00 PM – 3.00 PM</p>		<p>Dr. P. SANTHANAM Associate Professor Marine Planktonology & Aquaculture Lab., Department of Marine Science, School of Marine Sciences Bharathidasan University Tiruchirappalli</p>	<p>“High Density Production and Utilization of Marine Copepods in Sustainable Aquaculture”</p>

(4) PHOTOS



The screenshot shows a YouTube live stream interface. The main video area displays a grid of four participants in a virtual meeting. A blue banner at the bottom of the video reads: "Welcome to Day 1 - Workshop on Aquaculture and Fisheries: Development and Sustainability" and "PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak Dev Engineering College, Ludhiana". Below the video, it says "Workshop on 'AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY'" and "3,056 views • Streamed live on Aug 12, 2020". On the right side, there is a "Top chat replay" section with a list of chat messages from participants, including names like Dazie S, Dr. Rajkumar Pawar, Ravi Bala, Aj style, College of Fisheries Andhra Pradesh, Durgesh Kumar Verma, Sani Katal, Kaushik Nandl, Chandan Kumar, Medasair Azhar, Dr. Senta Bajaj, KAVITA SAHU, Z23-05, 2nd MSc ZOO., T SESHU PHANINDRAN SHARMA, T Seshu Phanindra Sharma, Student, 22305, 2nd MSc Zoology, Gurunank College, Vellochery, Chennai, Tamil Nadu, India, and Alagateru Aswartha Narayana. A "HIDE CHAT REPLAY" button is at the bottom of the chat area. The YouTube channel name "ZOOLOGY DEPARTMENT GNC" is visible at the bottom left.

https://www.youtube.com/watch?v=9U043xar_Jo

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Disease is major constraint – limiting the shrimp production
 Diseases of viral and bacterial origin are very important. (Twenty shrimp – reported; WSSV, TSV, YHV, IHHNV, IMNV, HPV, MBV). Recently reported DIV-1 in China
 Loss estimated about 10 billion USD – globally; 6 billion USD in Asian countries; in India – 125 million USD (mainly due to WSSV)

Pathogens in Indian shrimp culture system

Viral Diseases: WSSV, IHHNV, IMNV, MBV and HPV
Bacterial Diseases: *Vibrio* *harveyi* and other vibrios
Fungal Diseases: FHP (*Ferociousness hepatopancreas*)

Workshop on "AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY"

3,056 views • Streamed live on Aug 13, 2020

ZOOLOGY DEPARTMENT GNC

Top chat replay

- Jeeva D Balaji 2nd year B.sc. Advanced zoology and biotechnology, Guru Nanak college, Velachery, Chennai!
- Shivachandran R. Dr.R Sivachandran Assistant Professor of Zoology RKMVC
- Sneha Muthu good afternoon
- Anurachalam Agathiyar Good Afternoon
- ishandru patil Namaste Sir
- Zeehsan Aslam Dr. Zeehsan Aslam from Jhang, Punjab, Pakistan
- Dairia S yes tree
- Dr. Rajkumar Pawar Good afternoon to all
- Ravi Bala Good afternoon everyone
- Aravind Kumar Good afternoon
- praveen prasad required all pot in registered mail id for reference purposes please update daily
- Pradito yadav Dr P Yadav, Associate Professor of zoology LBS college Satara Maharashtra.
- Mukti Srivastava good afternoon all
- jyotishree jyotiraman very good afternoon to all

https://www.youtube.com/watch?v=yASqPOwySCc

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Welcome to Day 2 - Workshop on Aquaculture and Fisheries: Development and Sustainability

PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak College - 42

Day - 2 Workshop on Aquaculture and Fisheries: Development and Sustainability

2,725 views • Streamed live on Aug 14, 2020

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Top chat replay

- Raiz k g Good afternoon all
- Naveen Janjirala good afternoon All
- Pravriti Singh good afternoon all.
- Esther Angel Good afternoon to all ! This is Esther Angel k, B.M.sc zoology, Guru nanak college, Velachery, Chennai.
- Raiz k g Good afternoon all
- Shanthi Devi Dr.R,Shanthi Good evening to all
- Rathod N Good afternoon, from: Dr. N. Rathod
- Madhu Gupta good afternoon mam and sir
- Dr C.S Praisha very nice session..
- Muthan K gd aftn to all
- pratyaranjan sahon good afternoon all
- Aadil Ahsan k.k good afternoon
- Debasayan Roy Good afternoon
- Ajay Tandale good afternoon to one and all
- ZOOLOGY DEPARTMENT GNC! Good Afternoon to all..

https://www.youtube.com/watch?v=yASqPOwySCc

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Spawning → EGG → TROCHOPHORE → VELIGER → PEDIVELIGER → MEGALOPHEIDIS → ADULT
 Larval rearing and nursery → ADULT JUVENILE → GROWN JUVENILE → ADULT

Workshop on "AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY"

2,725 views • Streamed live on Aug 14, 2020

ZOOLOGY DEPARTMENT GNC

Top chat replay

- Kindly join the Telegram Link mentioned below where all the updates and information shall be shared: <https://t.me/jobchat/BAKBR2HDJFKZ>
- praveen prasad very informative
- Amol Nehe which Diseases are occurred in the larval stage ?
- Archana Santhosh gd afternoon sir
- KAVITA SAHU very important to be study for information
- ZOOLOGY DEPARTMENT GNC. Kindly post your questions at the end of the session.
- Dinesh Raja J good afternoon
- Muskan E Tahira Good afternoon.....
- Mukti Srivastava nice slides
- Debasmita Maity interesting ppt
- Muskan E Tahira interesting and informative....
- anu bharithi can you tell me pls this vedio only in youtube or telegram app? where i m going to join,because i watched vedio only in youtube it is correct?
- Dr. A.S.Khursel informative session Dr Aparna S Khursel

https://www.youtube.com/watch?v=6_4weZqUDc0

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Welcome to Day 3 - Workshop on Aquaculture and Fisheries: Development and Sustainability

Chennai - 42 PG & Research Department of Adv

Day 3 - Workshop on Aquaculture and Fisheries: Development and Sustainability

2,310 views • Streamed live on Aug 15, 2020

171 3 SHARE SAVE

ZOOLOGY DEPARTMENT GNC

Top chat replay

- Proud Citizens of India...
- Archana Achu hi sir
- R.J.Y chaitu krishna good offer noon all
- Pratay Chatterjee Gd afternoon sir/madam
- Nakul Mandal good afternoon to all
- Archana Achu happy independence wishes to all
- GOVINDU KONDAIAH good afternoon to all
- shaikh yasmeen good afternoon
- Mukti Srivastava happy Independence Day all
- Pradip Biswas Good Afternoon all...
- S GOMATHI good afternoon to all
- shaikh yasmeen Professor Shaikh Yasmeeri department of Zoology Dr. Rafiq Zakaria college for women Aurangabad M.S. India shaikhyasmeen7862@gmail.com
- Alagaturu Aswartha Narayana Good afternoon all Happy Independence day every one
- Diparjan Ray Good afternoon to all
- Arti Saxena Good afternoon everyone

HIDE CHAT REPLAY

https://www.youtube.com/watch?v=6_4weZqUDc0

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DIFFERENT PHASES OF SEABASS FARMING

- Hatchery phase (Eg production)
- Nursery rearing phase (Fingerling production)
- Pre-growout phase (Advanced fingerling production)
- Grow-out culture phase (marketable size production)

PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak Coll

Day 3 - Workshop on Aquaculture and Fisheries: Development and Sustainability

2,310 views • Streamed live on Aug 15, 2020

171 3 SHARE SAVE

ZOOLOGY DEPARTMENT GNC

Top chat replay

- RUPESHNILU GUPTA good afternoon to all
- rahul sandeep Gd afternoon to every one
- Pravriti Singh good afternoon everyone...
- Kavitha, R S kavir Kavitha R S, Assistant professor, Department of Zoology, Tereasa College, Mysore, Karnataka, India
- ZOOLOGY DEPARTMENT GNC Dear Participants please mail your queries to zoologyanif11.hoogigunanakcollege.edu.in
- Mur Shih good afternoon all
- Pradip yadav Dr P Yadav P G Co-ordinator department of zoology LBS collage Satara Maharashtra
- anand devakonda happy Independence day
- Deva Kumar Dr.D.Devakumar Head Laboratory Medicine Chennai Fertility Center and Research Institute Chennai TN
- Mukti Srivastava good afternoon all
- LEMEES ABDUL MAJIED Good afternoon all
- MANISH KUMAR JAIN good afternoon to all manish kumar jain
- Abhi Dha good afternoon to all

HIDE CHAT REPLAY

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Welcome to Day 4 - Workshop on Aquaculture and Fisheries: Development and Sustainability

Department of Advanced Zoology and Biotechnology, Guru Nanak College (Autonomous), Guru

Day 4 - Workshop on Aquaculture and Fisheries: Development and Sustainability

2,375 views • Streamed live on Aug 16, 2020

170 2 SHARE SAVE

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Top chat replay

- Upendra Verma Good afternoon everyone
- Simon Vijay I am waiting for my friend Session
- Mayukh Debnath good afternoon
- Dr. Anun Kumar Namdeo Good afternoon everyone
- Deva Kumar Dr.D.Devakumar Head laboratory medicine Chennai fertility center and research institute Chennai
- Alagaturu Aswartha Narayana Good afternoon all
- Rubini. U good afternoon
- Dr. Farooz Ahmad Bhat Good afternoon to all
- Priyadarssini Mekap good afternoon
- ZOOLOGY DEPARTMENT GNC Welcome to you all to Day 4 - Workshop on Aquaculture and Fisheries: Development and Sustainability
- Alagaturu Aswartha Narayana A. Aswartha Narayana Phd scholar Acharya Nagarjuna University Guntur Andhra Pradesh
- Namrata Mahajan Good afternoon to all
- SOMA BHATTATA Good afternoon all
- karishma singh good afternoon to everyone

HIDE CHAT REPLAY

https://www.youtube.com/watch?v=B9_rk9QzvWM

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Short term business

OPPORTUNITY

Long term business

PG & Research Department of

Day 4 - Workshop on Aquaculture and Fisheries: Development and Sustainability

2,375 views · Streamed live on Aug 16, 2020

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Top chat replay

- Pradip yadav - excellent information delivered by speaker
- ZOOLOGY DEPARTMENT GNC** - Please subscribe to our YouTube channel-Zoology Department GNC and GURU NANAK CENTRE FOR RESEARCH for updates on future events from the department and research centre.
- RUPESHNILI GUPTA - Rupesh gupta,bsc agriculture, Bau sabour,Bhagalpur, Bihar
- Deeplita Deeps - DEEPIKA,N from Sri Ramkrishna College of arts and science ,Coimbatore, deepikadeeps797@gmail.com
- Swagata Roy - myself swagata roy from satyapnya roy college of education
- S GOMATHI - S.Gomathi, M.sc(Agril) Research scholar, Department of Agricultural Microbiology, Faculty of Agriculture, Annamalai University, Chidambaram, Cuddalore, Tamilnadu,India
- Priyanka Sahu - Priyanka Sahu, Assistant Fisheries Officer, Fisheries & Animal Resources Development Depart., Govt. of Odisha
- Rituparna Biswas - very informative session
- Gyan Prakash Yadav - what is the medical value of crabs
- Jatin Srivastava - nice ppt

https://www.youtube.com/watch?v=twcdjMGW2hg

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Welcome to Day 5 - Workshop on Aquaculture and Fisheries: Development and Sustainability

PG & Research Department of Advanced Zoology and Biotechnology

Day 5 - Workshop on Aquaculture and Fisheries: Development and Sustainability

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Top chat replay

- M Subha Maheswari - Good Afternoon everyone
- Mitan Ghosh - good afternoon to all of you
- azhagesan r - good afternoon to all
- DJ GAMING - Good afternoon everyone
- Rutvik Tandel - good afternoon to all
- Aravind Kumar - Good afternoon to all
- Shantili Devi - Dr.R,Shanthi Good afternoon to all
- Roshman Thomas - Good afternoon all
- Mayukh Debnath - good afternoon all
- KAVITA SAHU - good afternoon to all
- SONA A - Good afternoon all
- Mayukh Debnath - Mayukh Debnath State Aided College Teacher Department of Zoology Kalna College Kalna Purba Bardhaman West Bengal
- Dr ANSUMAN DAS - Good afternoon everyone
- RUPESHNILI GUPTA - good afternoon to all
- Dr Uttam Kumar - Good morning everybody

https://www.youtube.com/watch?v=twcdjMGW2hg

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Global seaweed production

75% used for food (nori, wakame, kombu, etc.)

13% for hydrocolloids (alginates, carrageenan, agar)

12% other applications (cosmetics, calcium, fertilizer, etc.)

Day 5 - Workshop on Aquaculture and Fisheries: Development and Sustainability

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Top chat replay

- MAMTA PRAJAPAT - MAMTA PRAJAPAT, HBTU, GURU NANAK COLLEGE, Moolji Jaltha (Autonomous) College, Jalgaon, Maharashtra
- Mamta Prajapat - Good afternoon to all
- okanlawon sule - Good morning all.Sule Shakiru okanlawon, Dept of Forestry, Wildlife & Fisheries, Olabisi Onabanjo University, Ayetoro campus, Ogun State, Nigeria.
- jacinta jasmine - Jacinta Jasmine, D. Ph.D Research Scholar, Women's Christian College, Chennai, Tamil Nadu, India
- Nakul Mandal - good afternoon to all
- Palas Samanta - Dr Palas Samanta, Assistant Professor,Sukanta Mahavidyalaya, WB
- Mamta Prajapat - Mamta prajapat lecturer Hitkar shakari mahila shiksha mahavidyalaya kota Rajasthan
- Suba Raju - Good afternoon to everyone Dr. M. SUBARAJA
- ZOOLOGY DEPARTMENT GNC** - Kindly post your questions at the end of the session
- Mathan K. K.Prathap Mathan - Research scholar, St. Xavier's College, Palayamkottai
- yimuna devi - yimuna R.YAMUNA DEVI, Research scholar,Cas In marine biology,ANNAMALAI UNIVERSITY,parangipet, chidambaram.

https://www.youtube.com/watch?v=cNwBmSykMlw

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Welcome to Day 6 - Workshop on Aquaculture and Fisheries: Development and Sustainability
PG & Research Department of Advanced Zoology and Bi

Day 6 - Workshop on Aquaculture and Fisheries: Development and Sustainability
2,222 views · Streamed live on Aug 18, 2020

ZOOLOGY DEPARTMENT GNC

Top chat replay

- from university of Kashmir
- Gowthami Devi M.sudanthirdevi m.sc m.phil zoology university of madras guindy campus batch 2017-18
- Deepika Deeps DEEPIKA N.2nd m.sc biotechnology ,Sri ramakrishna college of arts and science Coimbatore. deepikadeeps797@gmail.com
- Shreya Sengupta Shreya Sengupta, UG 3rd year Zoology student, Bethune College, University of Calcutta, Kolkata.
- Pradipito Biswas Good Afternoon all... Myself Pradipito Biswas, M.Sc. Biotechnology, Institute of Genetic Engineering (Madhyamgram, Badu)
- Rohit Ranjan Sehgal good afternoon
- ZOOLOGY DEPARTMENT GNC Dear Participants please mail your queries to zoologyshif11.hod@gurunanakcollege.edu.in
- Rutvik Tandel Good afternoon to all
- GEORGE SAMUEL S GEORGE SAMUEL PG Student, Animal science department, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu.
- Haritha Santhosh Good afternoon all
- Ajeesh Prakash Ajeesh Prakash,2nd Msc. zoology, Guru Nanak college

HIDE CHAT REPLAY

https://www.youtube.com/watch?v=cNwBmSykMlw

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PG & Research Department of Advanced Zoology and Bi

Day 6 - Workshop on Aquaculture and Fisheries: Development and Sustainability
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Top chat replay

- from university of Kashmir
- Gowthami Devi M.sudanthirdevi m.sc m.phil zoology university of madras guindy campus batch 2017-18
- Deepika Deeps DEEPIKA N.2nd m.sc biotechnology ,Sri ramakrishna college of arts and science Coimbatore. deepikadeeps797@gmail.com
- Shreya Sengupta Shreya Sengupta, UG 3rd year Zoology student, Bethune College, University of Calcutta, Kolkata.
- Pradipito Biswas Good Afternoon all... Myself Pradipito Biswas, M.Sc. Biotechnology, Institute of Genetic Engineering (Madhyamgram, Badu)
- Rohit Ranjan Sehgal good afternoon
- ZOOLOGY DEPARTMENT GNC Dear Participants please mail your queries to zoologyshif11.hod@gurunanakcollege.edu.in
- Rutvik Tandel Good afternoon to all
- GEORGE SAMUEL S GEORGE SAMUEL PG Student, Animal science department, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu.
- Haritha Santhosh Good afternoon all
- Ajeesh Prakash Ajeesh Prakash,2nd Msc. zoology, Guru Nanak college

HIDE CHAT REPLAY

https://www.youtube.com/watch?v=VGAVCh4HTsc

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Welcome to Day 7 - Workshop on Aquaculture and Fisheries: Development and Sustainability
PG & Research Depa

Day 7 - Workshop on Aquaculture and Fisheries: Development and Sustainability
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ZOOLOGY DEPARTMENT GNC

Top chat replay

- ZOOLOGY DEPARTMENT GNC We request you to kindly join the Telegram Link mentioned below where all the updates and information shall be shared. <https://t.me/zoichat/RIIAKH2HD7EKIZ>
- Balasaheb Tapale Good Afternoon to all of you Dr. Balasaheb Kacharu Tapale Assistant Professor Department of Zoology Adv.M.N.Deshmukh Collage Rajur Tal Akole District Ahmednagar Maharashtra State of balasshebtpale
- Sadhna Kaushik Hemal Bhalta, Msc Botany, kmc, University of Delhi.
- Uzma Siddiqui Uzma Siddiqui Research Scholar DSB CAMPUS Kumaun University Nainital Uttarakhand
- Praveena Soman Good afternoon
- Mitan Ghosh good afternoon to all of you
- Mahfooz Akhtar Myself Farzana Anis PGT (Zoology) Central Public School, Muzaffarpur, Bihar, india. email mahfoozakhtar@gmail.com Good afternoon to all the team members and registered participants
- ZOOLOGY DEPARTMENT GNC Please subscribe to our YouTube channel - Zoology Department GNC and GURU NANAK CENTRE FOR RESEARCH for updates on future events from the department and research centre.

HIDE CHAT REPLAY

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HIGH DENSITY PRODUCTION AND UTILIZATION OF MARINE COPEPODS IN SUSTAINABLE AQUACULTURE

Dr. P. SANTHANAM
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PG & Research Department of Advanced Zoology and Biotechnology

Top chat replay ▾

- GOVINDU KONDAIAH GOVINDU KONDAIAH Assistant Professor of Zoology SKSC Degree College Proddatur Kadapa Dt AP
- Hemant Kumar Good afternoon to everyone Dr. Hemant Kumar, Associate Professor, Bipin Bihari College, Jhansi Uttar Pradesh hemantbician@gmail.com
- Padma Shan good afternoon to all
- anand devarikonda good afternoon to all
- Jeeva Balaji D 2nd year B.sc. advanced zoology and biotechnology, Guru Nanak college, Velachery, Chennai
- Dr L R S Kalanithi Good Afternoon to all Dr. L. R. S. Kalanithi, Associate Professor of English and Vice-Principal, SA/Guru Nanak College. Congratulations and Best Wishes to our Principal, HoD Dr. Jayanthi & Dr. Venu
- sourav Ghosh Sourav Ghosh, Fishery Officer, West Bengal
- silva raj silva raj A. SIVARAJ, liaison officer
- ZOOLOGY DEPARTMENT GNC** Please subscribe to our YouTube channel - Zoology Department GNC and CURU NANAK CENTRE FOR RESEARCH for updates on future events from the department and research centre.

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Day 7 - Workshop on Aquaculture and Fisheries: Development and Sustainability
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**WORKSHOP
ON
"AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY"
13th - 19th August, 2020**

Certificate of Participation

This is to certify that

<<Salutation>> <<Name>>
<<Designation>>, <<Institution>>

has actively participated in the Workshop on "AQUACULTURE AND FISHERIES: DEVELOPMENT AND SUSTAINABILITY" held from 13th to 19th August, 2020 (Seven Days) organized by the PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery, Chennai - 42.



Dr. M. G. RAGUNATHAN
PRINCIPAL



Mr. MANJIT SINGH NAYAR
GENERAL SECRETARY &
CORRESPONDENT

