



A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A)
(Re Accredited with 'B' Grade by NAAC Affiliated to Adikavi
Nannaya University Jagannaickpur, Kakinada – 533002)
Ph.: 0884-2378446



Website: www.asdgdwc.ac.in

A BRIEF REPORT ON
ONE DAY NATIONAL WORKSHOP
on
***“The Curious World of Algae - Exploring
Biological Applications”***



04th July 2024

Organized by
Departments of Botany, HomeScience, Zoology &
Microbiology

A.S.D. GOVT. DEGREE COLLEGE FOR WOMEN (A)
Jagannaickpur, Kakinada, Andhra Pradesh, - 533002

ONE DAY NATIONAL WORKSHOP

on

***“The Curious World of Algae- Exploring
Biological Applications”***

04.07.2024



PRESIDENT
Dr.V.AnanthaLakshmi
Principal



VICE PRESIDENT
Smt.M.Suvarchala
Vice-Principal



CONVENER
K.N.V.S.N.Eswari
HOD-Dept. of Botany
& Horticulture



Organizing Secretary
Ms.D.Jayasree
HOD- Dept.of MicroBiology

Organized by
DEPARTMENTS OF
**Botany, HomeScience, Zoology &
Microbiology**

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DEPT. MINUTES RESOLUTION COPY

1/7/2024

Departmental Staff meeting

The Staff members of the Department met on 1/7/2024 in Botany Dept Staff room to discuss the following Agenda:

- ① Allocation of papers of V Semester ^(Botany & Horticulture) and III Semester Botany Major among the Staff members to be dealt with.
- ② Conduct of National Workshop on 4/7/2024 titled as "The Curious World of Algae - Exploring Biological Applications" in collaboration with all Science Departments of the College.
- ③ To Celebrate Mendel's Birthday on 20/7/2024.
- ④ To prepare certificate course enrolled students for Exam.
- ⑤ Conduct of BOS meeting for Both Botany & Horticulture Subjects.

Resolutions:

- ① It is resolved to distribute the papers of Botany & Horticulture ^{to be dealt with} among the faculty of the Department as per the workload of the Semesters.
- ② It is resolved to conduct National Workshop on "The Curious World of Algae - Exploring

Biological Applications on 4-7-2024 in collaboration with all Science Departments of the College.

It is resolved to invite Dr. J.V. Sudhakar Asst. Professor of Botany in SRK Government College, Yanam as a Resource person for Technical Session-I of one day National Workshop.

It is resolved to invite Prof. Felix Asar, Dept. of Botany, Central University of Punjab as a Resource person for Technical Session II of one day National Workshop.

It is resolved to conduct Quiz competitions to the students in connection with Mendel's Birthday on 20.7.2024.

It is resolved to prepare the students enrolled for Certificate course "Natural Farming" for final exam.

It is resolved to conduct BOS meeting through online on 9/7/2024 for Botany & Horticulture Subject.

Staff:

Dr. M. Sulekhara


Mrs. N. Prudha

Mrs. G. Chandini

M. Sulekhara

N. Prudha

G. Chandini


(K. N. S. N. Eswari)

PERMISSION LETTER

From
K.N.V.S.N.Eswari
Lecturer In-Charge,
Department of Botany & Horticulture,
A.S.D. Govt Degree College for Women (A),
Kakinada.

To
The Principal
A.S.D. Govt Degree College (W),(A)
Kakinada.

Respected Madam,

Sub : A.S.D. G.D.C.W(A) –Botany, HomeScience, Zoology, &Microbiology– Request to approve the Proposal of organizing A One-Day National Workshop on “ The Curious World of Algae – Exploring Biological Applications ” on 04-07-2024 -Reg.

I submit that the Department of Botany, HomeScience, Zoology & Microbiology are planning to organize A One-Day National Workshop on “ The Curious World of Algae – Exploring Biological Applications ” on 04-07-2024 which is beneficial to both the Faculty and the students. In this regard, I request you to kindly give us permission to organize the Workshop.

Thanking you Madam,

Yours faithfully,

Place: Kakinada
Date: 2.07.2024



Lecturer
Department of Botany
Incharge in Botany
A.S.D. Govt Degree College for Women
KAKINADA

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K (K.N.V.S.N.Eswari)
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CIRCULAR

A.S.D.GOV.T.DEGREE COLLEGE FOR WOMEN (A)
DEPARTMENTS OF BOTANY, HOMESCIENCE, ZOOLOGY&MICROBIOLOGY

CIRCULAR




స్వీ విద్యాప్రపర్తాం

The Departments of Botany, Home Science, Zoology & Microbiology wishes
to arrange a One-Day National Workshop on
“*The Curious World of Algae – Exploring Biological Applications*”


on

04-07-2024 in Seminar Hall

In this connection all the students are informed to attend the Workshop and make the
best out of it.


Lecturer
Department of Botany
Incharge in Botany
A.S.D. Govt. Degree College for Women
KAKINADA

In-Charge of the Department of Botany


PRINCIPAL
A.S.D.GOV.T.DEGREE COLLEGE (W)
AUTONOMOUS
KAKINADA

Principal

BROCHURE

A.S.D. Government Degree College for Women (A)

Kakinada-533002

(Affiliated to Adikavi Nannaya University,
Rajamahendravaram)

Reaccredited by

NAAC with B Grade in Cycle III



One Day National Workshop

on

“The Curious World of Algae: Exploring Biological Applications”

4th July 2024

Organized by

Department of Botany,

Home Science,

Microbiology & Zoology

Under Internal Quality Assurance Cell (IQAC)

About the College:

Annavarani Satyavathi Devi Government Degree College for Women (Autonomous), Kakinada, E. G. District was started in 1962 with the motto: ‘**Shree Vidya Pravardhataam**’ means ‘**Women Education Shall Prosper**’. The idea came up with the inspiring words by Mahatma Gandhi, “If you educate a man, you educate an individual, but if you educate a Woman, you educate an entire family”. This is the only Government Degree College for Women in the entire coastal belt of Andhra Pradesh, with a Student Managed Hostel within the campus and 4 Social Welfare Hostels within a vicinity of 2 kilometres from the College. The College is mainly equipped with Smart Campus services like Virtual Classrooms, Digital Classrooms and LMS. At present, the college has a student enrolment is about 1045. The college offers 12 UG Honours and 3 PG programmes: In tune with National Education Policy 2020, college introduced B.Sc Honours Single major programmes from 2023-24.

B. A Honours (Economics),
B. A Honours (Political Science),
B. A Honours(History)
B.Com Honours (General),
B.Com Honours (Computer Applications),
B.Com Honours (Banking Financial Services & Insurance) B.Sc.Honours(HomeScience)
B.Sc.Honours(Chemistry)B.Sc.Honours(Zoology)
B.Sc.Honours(Botany)B.Sc.Honours(Physics)
B.Sc.Honours(Computer Sciences)
B.Sc.Honours(Mathematics),
B.Sc Honours (Microbiology) and PG programmes: M.A. (Telugu), M.Com & M.Sc (Organic Chemistry).
The College uses every opportunity with great care in strengthening the students to excel in their academics and get decent jobs.

About Department of Botany & Horticulture:
The Department of Botany is as old as the establishment of the Institution itself. In short it is a 61 year old department, established in 1962. The Department started Horticulture group in the year

2020. At present the Department is offering B.Sc Honours Botany and Horticulture as Minor subject. The Department is having two well equipped Laboratories, Dr. Janaki Ammal Botanical Garden consisting of different plant species and rare Medicinal Plants and Horticulture garden with Vegetable crops, Fruit crops and Flowering plants. The Department offers certificate courses in Organic Farming, and the students are maintaining NADEP compost pit in the campus. The Faculty & students of the Department conduct Medicinal Plant Drive every year to bring awareness about the medicinal importance of plants among the people residing in the local surroundings of the college. The Department conducts Field trips regularly. The students of our Department started Blossoms Nursery and selling saplings which are propagated by them.

About Department of Homescience

Home Science is an interdisciplinary field of knowledge with focus on Human Development, Food & Nutrition, Fabric & Apparel Designing, Resource Management and Extension & Communication. It is an education for better living. The alumni of Home Science are working as Teachers, Researchers, Academicians, Dietitians, Counselors, Interior Designers, Fashion Designers, Child Development Experts, etc. The department is catering to the needs of girl students from all over the region covering the districts of East & West Godavari, Srikakulam, Vizag and Vizianagaram. As part of Institutional Social Responsibility, the department is conducting various Extension Activities and TOT programs for the betterment of the local community.

About Department of Microbiology

The department of Microbiology was established in the year 1998-99. It was started under the restructured course with the combination of Botany and Chemistry at Under Graduate level. The Department is offering UG programme B. Sc.C.B.MB. The intake of the students is 30. The asset of the Department is its well equipped One UG Laboratory attached with a culture room facility. At present the Department is

offering B.Sc Honours Microbiology and also as Minor. The Department is giving importance to the student centric & skill oriented programmes "The Vision of the Department is to educate and train students in the discipline of Microbiology and to produce competent Microbiologists" and serve the Society by promoting science and its allied fields". The Department offers certificate course in Clinical laboratory techniques which helps students in skill enhancement and career opportunity with under-graduation.

About Department of Zoology & Aquaculture Technology

The Department of Zoology at ASD Government Degree College for Women was established in 1962 with a vision of advancing knowledge in both the fundamental and advanced aspects of Zoology. The department has offered B. Sc with a combination of Chemistry, Botany, & Zoology at undergraduate level until the academic year 2022-2023. From 2018-2023, the department introduced B. Sc- Chemistry, Zoology, & Aquaculture Technology as a restructured programme catering to the growing interest in Aquaculture and its technological applications. To emphasize the multidisciplinary approach and flexibility, in tune with National Education Policy 2020, the department introduced B. Sc (Honours) Zoology as single major programme, and Aquaculture and Zoology as minor subjects. With the rigorous programmes and initiatives, the department strives for nurturing the students, who are ready to achieve their goals and make a positive impact on society.

About the Programme

The Curious World of Algae: Exploring Biological Applications
Biologists explore nature out of curiosity to obtain *fundamental knowledge about different types of organisms*. Algae are a class of photosynthetic organisms found in both marine and freshwater habitats. As these organisms have a short doubling time, they are considered among fastest growing creatures. They have different pathways to fix atmospheric carbon dioxide and to efficiently utilize

the nutrients to convert it into biomass. In few years, a focus has been shifted towards these organisms due to their food and fuel production capability. Algae as a food have been explored for different applications as in production of single cell proteins, pigments, bioactive substances, pharmaceuticals and cosmetics. The present workshop has been a trial to throw a light on enormous applications of algae as food and fuel and also to provide some information about different commercially available algae products.

OBJECTIVES OF THE PROGRAMME

1. Ecological and environmental importance
2. Algae in research & Food Production
3. Algal Biomass & Biofuel Production
4. Industrial and Biotechnological Applications of Algae

PROGRAMME SCHEDULE

- 10am-11am: Inauguration of the Program
11am-11.15am: Tea Break
11.15-1 pm: Session I
1 – 2 pm: Lunch Break
2 – 4pm: Session II
4 - 5 pm: Valedictory

REGISTRATION FEE - FREE

Participants will get a Certificate

CHIEF PATRON

Dr. Pola Bhaskar, IAS

Honourable Commissioner of Collegiate Education,
Mangalagiri, Andhra Pradesh.

PRESIDENT

Dr. V. Anantha Lakshmi, Principal

VICE-PRESIDENT

Dr. M. Suvarchala, Vice Principal

IQAC COORDINATOR

Ms. M. Vasantha Lakshmi,
Incharge of Zoology

RESOURCE PERSON 1

Dr. J.V. Sudhakar, Assistant Professor,
HOD, Department Botany
Dr. SRK Govt Arts College, Yanam-533464,
UT of Puducherry.

RESOURCE PERSON 2

Prof. Felix Bast
Professor, Department of Botany,
Central University of Punjab,
Ghudda, 151401, Punjabfelix_bast@gmail.com

CONVENOR

Ms. K.N.V.S.N. Eswari,
Incharge of Botany and Horticulture

ORGANIZING SECRETARY

Smt. Danduprolu Jayasree
Lecturer Incharge Microbiology

ORGANIZING COMMITTEE

Dr. K. Lavanya
Lecturer in Home Science
Dr. G. Anitha
Lecturer in Home Science
Dr. M. Sulakshana
Lecturer in Botany
Mrs. S. Madhavi
Lecturer in Zoology

OBJECTIVES & OUTCOMES

A.S.D.GOV.T. DEGREE COLLEGE FOR WOMEN (A)

One - Day National Workshop on

“The Curious World of Algae – Exploring Biological Applications ”

Organized by

**DEPARTMENTS OF BOTANY, HOMESCIENCE, ZOOLOGY &
MICROBIOLOGY**

on

04th July, 2024

Objectives of the Workshop:

The workshop is aimed to achieve the following objectives:

1. **Knowledge Dissemination:** Disseminate up-to-date information on the latest trends, advancements, and challenges in the fields of Biological Sciences
2. **Educational Enrichment:** Enhance the understanding of participants regarding the evolving landscape of Biological Sciences, with a focus on Exploring Biological Applications of Algae
3. **Research Exploration:** Unveil and discuss various research opportunities in Life Sciences providing participants with insights into emerging trends, interdisciplinary collaborations, and the potential impact of their contributions.
4. **Professional Development:** Provide a platform for professional development by exposing participants to the expertise of seasoned professionals and academics, allowing them to gain valuable insights and perspectives.
5. **Feedback and Improvement:** Gather feedback from participants to continually improve and enhance future iterations of similar workshops, ensuring that the content and format remain relevant and beneficial.
6. **Celebration of Achievements:** Acknowledge and celebrate the achievements of participants, speakers, and organizers, fostering a sense of accomplishment and pride in contributing to the success of the workshop.

By aligning with these objectives, the workshop aimed to create an engaging and collaborative environment where participants could actively contribute to discussions, learn from experts in the field, and leave with a renewed sense of enthusiasm and knowledge to navigate the future of technology in the field of Biological Sciences

Learning Outcomes of the Workshop

The outcomes of the workshop, "*The Curious World of Algae – Exploring Biological Applications*," were multi-faceted, encompassing both tangible and intangible achievements. The workshop aimed to empower participants with knowledge, insights, and a sense of community, fostering a positive impact on their understanding of technology and its future. Here are the key outcomes:

1. Enhanced Knowledge Base:

- Participants are expected to gain a deeper understanding of the evolving landscape of Science education, industry-relevant content integration, and the challenges and opportunities within the field.

○

2. Insights into Research Opportunities:

- Attendees are expected to be exposed to various research opportunities in the field of Life Sciences, including emerging trends, interdisciplinary collaborations, and practical applications. This knowledge is anticipated to equip them to explore research paths and contribute to the academic and industrial advancement of the field

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3. Inspiration and Motivation:

- Attendees are expected to be inspired and motivated to think creatively, embrace curiosity, and actively contribute to the evolving landscape of technology in Biological Sciences

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4. Professional Development:

- The workshop is anticipated to contribute to the professional development of participants by exposing them to the expertise of seasoned professionals and academics.

5. Positive Community Building:

- The workshop is expected to create a positive and collaborative community of learners, educators, and professionals interested in the future of technology. In the field of Biological Sciences

○

In summary, the workshop's outcomes encompassed academic enrichment, skill development, and the cultivation of a positive and collaborative community committed to advancing the possibilities within the ever-evolving field of technology in the field of Biological sciences

PROFILES OF THE RESOURCE PERSONS

Resource Person I – Dr.J.V.Sudhakar

CURRICULUM VITAE



Dr. J.V. SUDHAKAR M.Sc., B.Ed., Ph.D., F.I.A.T.
Assistant Professor & Head
Department of Botany
Dr. SRK Govt. Arts College
Affiliated to Pondicherry University
Yanam – 533 464, UT of Puducherry
Mobile: 9244214784
E-mail: jvsbsificus@gmail.com

1. Academic accomplishments :

S.No	Degree	Specialization/ Subjects studied	University / Institution	Year of Completion
1	Ph.D.	Botany – Plant Taxonomy	Bharathiar University, Coimbatore, Tamil Nadu	2014
2	M.Sc.	Botany	Annamalai University, Annamalainagar, Tamil Nadu	2006
3	B.Ed.	Biology	Andhra University, Visakhapatnam, Andhra Pradesh	2002
4	B.Sc.	Botany, Zoology Chemistry	Andhra University, Visakhapatnam, Andhra Pradesh	2001
5	Diploma	Computers	CSC Computers, Coimbatore, Tamil Nadu	2007

2. Area of Interest:

- Plant Taxonomy
- Systematics
- Medicinal Plants – Herbal botany
- Conservation Biology
- Environmental Science

3. Professional / Experience:

Sl.No	Field of Expe rience	Institution / Organization	Nature of Appointment	From	To
1	Teaching	Dr. SRK Govt. Arts College, Yanam- 533 464, UT of Puducherry Affiliated to Pondicherry University	Assistant Professor	02.02.2018	Till date
2	Research	Botanical Survey of India, SRC, Coimbatore – 641 003, Tamil Nadu	Botanical Assistant	02.07.2010	01.02.2018
3	Research	Botanical Survey of India, SRC, Coimbatore – 641 003, Tamil Nadu	Junior Scientific Assistant	15.06.2006	01.07.2010
4	Teaching	Vikas Junior College, A.V.	Junior Lecturer in	June 2004	June 2006

	Palem (Malikipuram) - 533 253, E.G. Dsit. Andhra Pradesh	Botany – Part time Temporary		
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4. Publications:

A. Published Books:

Sl.No	Title of the Book with ISSN/ISBN No	Author/Coauthor Editor/Co-editor	Publishers Name	Year of Publication
1	Flora of Eastern Ghats, India. ISBN: 978-168418352-4.	J.V. Sudhakar, N. Chandra Mohan Reddy & G.V.S. Murthy	National Biodiversity Authority (NBA), Chennai & Pragati Offset Pvt. Ltd. Hyderabad.	2017

B. Journal Articles: 28

Sl.No	Title of the Paper	Journal	Volume, Issue & Page Nos. & ISSN No:
1.	Karthikeyan Mahima, Senthilkumar Umapathy, Jana Venkata Sudhakar , Ramalingam Sathishkumar. 2021 . Systematic reinstatement of highly sacred <i>Ficus krishnae</i> based on differences in morphology and DNA barcoding from <i>Ficus benghalensis</i> (Moraceae).	<i>Phytokeys</i>	186: 121–138 ISSN: 1314-2003
2.	Shaikh Mujaffar, Arjun Prasad Tiwari, Praveen Chandra Dubey, Jagannath Vishwanath Gadpayale and Jana Venkata Sudhakar . 2021 . <i>Ficus johannis</i> subsp. <i>ghanistanica</i> (Moraceae)—A New Record for India	<i>J. Jpn. Bot.</i>	96(1): 21–24 ISSN: 0022-2062
3.	N. Chandra Mohan Reddy, J.V. Sudhakar and Boyina Ravi Prasad Rao. 2020 . Extended Distribution of <i>Ficus fergusonii</i> (King) T. B. Worth. ex Corner and <i>Ficus travancorica</i> King (Moraceae)	<i>Indian J. Forestry</i>	43(2):136-142 ISSN: 0971-9431
4.	N. Chandra Mohan Reddy ¹ , P. Anjaneyulu, S.M. Nagesh, J. V. Sudhakar , B. Ravi Prasad Rao. 2020 . Diversity and Distribution of Wild Figs (<i>Ficus</i> L.) of Andhra Pradesh, India	<i>Bioscience Discovery</i>	11(4):223-235. ISSN: 2229-3469
5.	Karthikeyan Mahima, Jana Venkata Sudhakar & Sathishkumar Ramalingam. 2020 . Taxonomic delimitation of endemic <i>Ficus amplocarpa</i> and <i>Ficus dalhousiae</i> Complexes (Moraceae) by DNA barcoding	<i>Phytotaxa</i>	436 (1): 021–035 ISSN: 1179-3155
6.	Abhipsa Mohapatra, Jana Venkata Sudhakar , Malapati Kuppuswamy Janarthanam. 2020 . Extended distribution of <i>Ficus costata</i> Aiton (Moraceae) in Western Ghats, India	<i>Feddes Repertorium</i>	131: 69–71 ISSN: 1179-3155
7.	Karthikeyan Mahima, Jana Venkata Sudhakar , and Ramalingam Sathishkumar. 2020 . Molecular phylogeny of the <i>Ficus virens</i> complex (Moraceae)	<i>Genome</i>	63: 597–606 ISSN: 0831-2796
8.	J.V. Sudhakar , Arumugam, S. and C. Murugan. 2018 . <i>Psidium cattleianum</i> (Myrtaceae): Naturalised edible species in Agasthyamalai Biosphere Reserve, India	<i>Indian J. Forestry</i>	41(3): 287-289. ISSN: 0971-9431

9.	.Kabeer, K.A.A, J.V. Sudhakar , J.H. Franklin Benjamin, M. Mohanan & G.V.S. Murthy. 2018 . Floristic composition of Mukurthi National Park: a sky island in the core zone of the Nilgiri Biosphere Reserve.	<i>Ne BIO</i>	9 (1): 70 – 92. ISSN: 2278-2281
10.	J.V. Sudhakar and G.V.S. Murthy. 2017 . Taxonomy and distribution of <i>Ficus talbotii</i> (Moraceae) in India.	<i>Rheedea</i>	27 (1): 16-19. ISSN: 0971-2313
11.	J.V. Sudhakar and G.V.S. Murthy. 2016. Extended Distribution of <i>Ficus superba</i> (Miq.) Miq. & <i>F. middletonii</i> Chantaras. (Moraceae).	<i>Indian J. Forestry</i>	39(3): 255-261. ISSN: 0971-9431
12.	J.V. Sudhakar and G.V.S. Murthy. 2016 . Identity of <i>Ficus amplocarpa</i> and <i>F. guttata</i> (Moraceae), the two closely allied south Indian endemic species and their conservation status.	<i>Rheedea</i>	26 (1): 69-73. ISSN: 0971-2313
13.	R.Kr. Singh, B. S. Kholia & J.V. Sudhakar . 2016 . <i>Pedicularis artiae</i> , a new species of Orobanchaceae from Sikkim Himalaya, India.	<i>Kew Bulletin</i>	71(3):36. ISSN: 007-55974
14.	Niranjan Gupta, Nikhiles Biswas and J.Venkata Sudhakar . 2016 . Amazing World of Grasses.	<i>ai J. Tech. Res. Innov.</i>	IV(II): 5-11. ISSN: 09709592
15.	J.V. Sudhakar & G.V.S. Murthy, 2015 . <i>Ficus anamalayana</i> (Moraceae): A new species from South India.	<i>Rheedea</i>	25 (1): 01-08. ISSN: 0971-2313
16.	J.V. Sudhakar , R Mehala Devi and GVS Murthy. 2015 . Additions to the Flora of South Indian States.	<i>Annals of Plant Sciences.</i>	4 (07): 1158-1161. ISSN: 2287-688X
17.	Rinkey Tiwari, Jana V. Sudhakar , LAL B. Chaudhary, Garimella V.S. Murthy & Anjala Durgapal. 2015 . Revisit the taxonomy of <i>Ficus krishnae</i> (Moraceae).	<i>Phytotaxa</i>	192 (3): 169 ISSN: 1179-3155
18.	R.K. Singh, P. G. Diwakar & J.V. Sudhakar . 2015 . <i>Bauhinia phoenicea</i> B. Heyne ex Wight & Arn., the less known endemic and threatened liana of the southern Western Ghats, requires immediate conservation.	<i>J. Threatened Taxa</i>	7(10): 7676–7682. ISSN: 0974-7893
19.	Rinkey Tiwari, Jana Venkata Sudhakar , A.K. Srivastava, L.B. Chaudhary, G.V.S. Murthy & A. Durgapal. 2014 . Taxonomy, distribution and diversity of <i>Ficus palmata</i> Forssk. subsp. <i>virgata</i> (Roxb.) Browicz (Moraceae) in India.	<i>J. Threatened Taxa</i>	6(9): 6172–6185. ISSN: 0974-7893
20.	Satyannarayana & J.V. Sudhakar . 2013 . A note on Taxonomy and Distribution of <i>Abelmoschus caillei</i> (A. Chev.) Stevels (Malvaceae) in India.	<i>Indian J. Forestry</i>	36 (1): 115– 118. ISSN: 0971-9431
21.	Murugan, G.V.S. Murthy and J.V. Sudhakar . 2013 . Diversity, Distribution and uses of <i>Ficus</i> L. (Moraceae) in Andhra Pradesh, India: A Review.	<i>Andaman Sci. Assoc.</i>	18 (2): 192-196. ISSN: 0970-4183
22.	J.V. Sudhakar & G.V. S. Murthy, 2012 . <i>Ficus variegata</i> (Moraceae), a new record for Peninsular India.	<i>Rheedea</i>	22(1): 62-65. ISSN: 0971-2313
23.	J.V. Sudhakar & G.V. S. Murthy. 2012 . Additions of <i>Ficus</i> L. (Moraceae) species to the South Indian States.	<i>Indian J. Forestry</i>	35(3): 345 –350. ISSN: 0971-9431
24.	Lal Babu Chaudhary, Jana Venkata Sudhakar , Anoop Kumar, Omesh Bajpai, Rinkey Tiwari	<i>Taiwania</i>	57(2): 193–216. ISSN: 0372-333X

	and G.V.S Murthy, 2012 . Synopsis of the Genus <i>Ficus</i> L. (Moraceae) in India.		
25.	A noop Kumar, O. Bajpai, R. Tiwari, R., Jana Venkata Sudhakar & L. B. Chaudhary.2012 . Taxonomic notes on the Identity and Nomenclature of <i>Ficus assamica</i> Miq. (Moraceae).	<i>Phytotaxonomy</i>	12: 82–88. ISSN: 0972-4206

26.	Vijayan, J.V. Sudhakar & C. Sebastian Rajasekaran, 2011 . Rediscovery of <i>Elaeocarpus blascoi</i> Weibel (Elaeocarpaceae) from Palni Hills of Western Ghats, Tamil Nadu.	<i>Econ. Taxon. Bot.</i>	35 (3): 618-620. ISSN: 0970-3306
27.	Mohanar & J.V. Sudhakar. 2008 . <i>Sesbania sericea</i> (Willd.) Link (Leguminosae: Papilionoideae) - a new record for India.	<i>ll. Bot. Surv. India. (Nelumbo)</i>	50 (1-4): 171-172. ISSN: 0976-5069
28.	Murugan & J.V. Sudhakar. 2008 . <i>Mastixia euonymoides</i> Prain (Cornaceae): An addition to the Flora of Tamil Nadu.	<i>ll. Bot. Surv. India. (Nelumbo)</i>	50 (1-4): 204. ISSN: 0976-5069

A. Chapters in Edited Books: 04

S.No	Title of the Paper	Book Title & Editors	Publication Particulars
	J.V. Sudhakar & Niranjan Gupta : Haloragaceae; J.V. Sudhakar & J. H. Franklin Benjamin: Turneraceae; G.V.S. Murthy & J.V. Sudhakar : Datisceae. 2016 .	<i>Flora of Kerala. Vol. 2.</i> G.V.S. Murthy & V.J. Nair (Eds.).	Botanical Survey of India, Kolkata. ISBN: 81-8177-089-7
	J.V. Sudhakar, Rinkey Tiwari, Sreyoshee Sen Sarma, G.V.S. Murthy, L.B. Chaudhary & B.K. Sinha – <i>Ficus</i> L. (Moraceae)	<i>Flora of Kerala. Vol. 24.</i> Urticaceae- Ceratophyllaceae	Botanical Survey of India, Kolkata.

B. Seminars/Conferences/Workshops Presented / Participated: 6

No	Title of the paper Presented	Title of Conference Participated	Organized by	Year	Whether Internat. /National/State /Reg. / College or Univ. Level
	Study on Morphology and DNA Barcoding of Four Taxonomically complex groups of <i>Ficus</i> L. (Moraceae).	27 th IAAT Annual conference and International Symposium on Plant Systematics: Priorities & Challenges, New Delhi:	DEPT. BOTANY, DELHI UNIVERSITY	17	International
	Application of DNA Barcoding to Unravel the Taxonomical complexity in <i>FICUS</i> L. (MORACEAE) of Western Ghats, India	International Conference on DNA technology for authentication, quality control and conservation of herbal material, Hong Kong	THE CHINESE UNIVERSITY OF HONG KONG	16	International
	IUCN Assessment of an endemic and endangered species <i>Ficus</i>	Silver Jubilee Conference of IAAT and Council Meeting	DEPT. BOTANY, CALICUT	15	International

	<i>guttata</i> (Moraceae) and its differences with <i>F. amplocarpa</i> .	of IAPT & International Seminar on Advancements in Angiosperm Systematics and Conservation, Calicut	UNIVERSITY		
	Survey of Endemic and Threatened Plant taxa in Palani hills of Kodaikanal Forest Division, Tamil Nadu, India.	Silver Jubilee Conference of IAAT and Council Meeting of IAPT & International Seminar on Advancements in Angiosperm Systematics and Conservation, Calicut	DEPT. BOTANY, CALICUT UNIVERSITY	15	International
	Endemic <i>Ficus</i> L. (MORACEAE) species and their Distribution in India.	24 th Annual conference of IAAT and International conference on Trends in Plant Systematics, Trichy	DEPT. PLANT SCIENCES, BHARATHI DASAN UNIVERSITY	14	International
	Diversity and Taxonomy of <i>Ficus palmata</i> Forssk ssp. <i>virgata</i> (Roxb.) Browicz (Moraceae) in India.	23 th Annual conference of IAAT and National Seminar on Recent Advances in Plant Taxonomy Research, Nagpur.	PG DEPT. BOTANY, RTM NAGPUR UNIVERSITY	13	National

5. Invited Talks: 6

No	Title and date of the talk Presented	Title of Conference	Organized by	Whether International / National / State / Regional / College or University Level
	Webinar on 'A Glimpse of Indian Figs (<i>Ficus</i> species) and its Economic Importance'	From Seeds to Shades – All About Plants	Digha Science Centre and National Science Camp (NCSM), Ministry of Culture, Digha – 721463, West Bengal	National
	Webinar on 'Figs of Western Ghats: A Multicusine Restaurant of the Wild' on 2.8.2020	43 rd Natural Trail at Singanallur Lake, Coimbatore	Centre for Urban Biodiversity Conservation and Education (CUBE), Singanallur Lake, Coimbatore	Regional
	Invited lecture on 'Detailed Study of Plants in Vedic Period used as medicine with reference to Charaka Samhita & Sushruta Samhita' on 24.1.2020	National Workshop on Vedic Approaches in Medicinal Plants and Ayurveda	Department of Botany & Sanskrit, A.S.D. Govt. Degree College for Women (A), Kakinada, East Godavari District	National
	Invited lecture on 'Experimental Approach to	National Workshop on Experimental	pt. Of Botany, Siddhartha COLLEGE OF ARTS &	National

	Plant Taxonomy and Ecological Methods' on 18.08.2018	approach on Vrikshaavaran	SCIENCE AND MAHILA KALASALA, AYAWADA	
	Key note address - Diversity of Genus <i>Ficus</i> L. (Moraceae) in Western Ghats and its implications to animals, birds and humans. on 29.8.2017	National Seminar on Biodiversity and Importance of Western Ghats for Better Living	DEPT. OF BOTANY, GOVT. COLLEGE KASARGOD, KASARGOD, KERALA	National
	Invited Lecture-"Introduction to Herbarium Techniques" on 24.09.2014	National seminar cum workshop on "Plant systematics and Herbarium Techniques"	DEPT. OF BOTANY, KKTU COLLEGE, KODUNGALLUR DEPT, KERALA	National

6. Orientation/Refresher/ Short term Courses /Workshop/Training Programme attended : 2+8+7 = 17

Sl.No	Title of the Programme	Sponsors	Venue & Duration	Level
Orientation/Refresher/ Short term Courses				
	UGC sponsored 14 th Refresher course in Life Sciences	University of Mysore, UGC HRDC, Mysore	University of Mysore, UGC HRDC, Mysore. 29.09.2021 to 12.10.2021	National
	UGC sponsored 130 th Orientation course	UGC HRDC, Pondicherry University, Puducherry	UGC HRDC, Pondicherry University, Puducherry 20 th November to 10 th December, 2019	National
Faculty Development Programmes (FDPs)				
	Development of Effective E-Contents and Online Teaching, Learning & Evaluation	KS Jain Institute of Engineering and Technology	KS Jain Institute of Engineering and Technology, Modinagar, Ghaziabad. 1.10.2020 to 7.10.2020	National
	E-Contents and ICT Tools for Innovative and Effective Teaching & Learning Process	Roorke College of Management & Computer Applications.	Roorke College of Management & Computer Applications, Roorke, Uttarakhand. 8.8.2020 to 14.8.2020	National
	Usage of ICT in Teaching Learning Process	Dept. of Computer Science & IQAC	MVNJS & RVR College of Arts & Science, Malikipuram – 533 253 East Godavari District, AP 1.8.2020 to 4.8.2020	National
	ICT Tools for effective online Teaching and Learning	IQAC & Dept. of	Dept. of Collegiate	InterNational

		Computer Science in association with Karnatak University	Education, Govt. First Grade College, Ranebennur – 581 115 Haveri, Karnataka 29.6.2020 to 5.7.2020	
	Online teaching using ICT Tools	Dept. of Electronics and Computer Science & IQAC	SVKP & Dr. K.S. Raju Arts & Science College, Penugonda, West Godavari District, AP 23.6.2020 to 25.6.2020	National
	ICT A Novel Means to Fortify the Faculty in Life Sciences	Aurora's Degree and PG college, Hyderabad	Aurora's Degree and PG college, Hyderabad, Telangana 8.6.2020 to 9.6.2020	National
	Virtual Teaching Learning MOODLE the Effective way	Faculty of Humanities and Science & The Institute of Engineers (India)	Dr. M.G.R. Educational & Research Institutes. Faculty of Humanities and Science – Adyalampattu Phase-II Campus, Tamil Nadu. 29.5.2020 to 30.5.2020	National
	Online teaching tools for video lecturing and Digital e-Learning	IQAC, Sir C.R. Reddy College, Eluru	IQAC, Sir C.R. Reddy College, Eluru, Andhra Pradesh – 534007. 19.5.2020 to 23.5.2020	National
Workshops/Training Programmes				
	Hands-On Training on Analysis of DNA Marker Data	ICFRI, Dehradun	GTB, Coimbatore 19 th -24 th , September, 2016.	National
	Botanical Nomenclature Course	BSI and ENVIS centre, Kolkata	BSI, CNH, Howrah January 11 to 13, 2013.	National
	Plant Identification Techniques	Bharathiar University, Coimbatore	Dept. of Botany, Bharathiar University, Coimbatore 9.3.2013.	University Level
	Awareness Training Workshop on CITES	ICFRI, Dehradun	IFGTB, Coimbatore August 30 & 31 st 2012.	National
	Botanical Latin Workshop	MoEF, New Delhi & BSI, Kolkata	Botanical Survey of India, Coimbatore, SRC, January 17 to 24, 2011.	National
	Capacity Building Training in Plant Taxonomy	MoEF, New Delhi under AICTOPTAX Project	Botanical Survey of India, Coimbatore, SRC, January 19 to 31, 2009.	National
	Biodiversity India	KSCSTE, Govt. of Kerala	Malabar Botanical Garden, Calicut, Kerala during February 9 to 13 th 2008.	National

7. Research Projects: 4

Sl.No	Title of the Project	Status (ongoing/ Completed)	Funding agency
1	C. Murugan, J.V. Sudhakar & S. Armugam. "Cyperaceae of Tamil Nadu". Duration: 2015-2018.	Completed	BSI, Annual Budget
2	J.V. Sudhakar . "Seed Morphology of <i>Ficus</i> L. using SEM". Duration: 2012-17.	Completed	BSI, Annual Budget
3	M. Mohanan & J.V. Sudhakar . "Flora of Mukurthy National Park and Naduvattum", Duration: 2007-09.	Completed	BSI, Annual Budget
4	* Status and distribution surveys of threatened plant taxa in Palani Hills of Kodaikanal Division, Tamil Nadu – TBG Project, by Prof. M.V. Rao & Asst. Prof. T. Senthil Kumar, Bharathidasan University, Trichy. (* Dr. J.V. Sudhakar , Deputed as a Taxonomist). Duration: 2014-15.	Completed	Govt. of Tamil Nadu & JICA - Japan

8. Affiliation in Academic Bodies/Societies/Committees

Sl.No	Name of the Body/Society/Committees	Nature of Affiliation
1	'Indian Association for Angiosperm Taxonomy (IAAT)' - Calicut, Kerala	Life Member

9. Achievements / Awards:

Sl.No	Details of award / Prize	Year	Contribution
1	Prof. K.S. Manilal Award	2015	For the best oral presentation of <i>Ficus</i> L. work at IAAT Silver Jubilee Conference
2	<i>Fellow of the Indian Association for Angiosperm Taxonomy (FIAT)</i>	2015	<i>For contributions in the field of Angiosperm Taxonomy for last 10 years</i>

10. Extra/Extension Work:

- Developing Awareness about 'RRR' (Reuse, Reduce and Recycle) and Eco-friendly activities among general public and student communities through practical applications and lectures.
- Developing Botanical Garden with themes for practical study of Botany & Zoology students.

Resource Person II – Professor Felix Bast

Ph.D (Japan), FLS (London)

Professor

Department of Botany,

Central University of Punjab, Ghudda, 151401,

Punjab

felix.bast@gmail.com bit.ly/FelixLab

+91 9872152694

- Prof. Felix Bast is currently based at Department of Botany, Central University of Punjab (Ministry of education, Govt. of India) as a full professor.
- He is a member of the high-profile advisory committee of Paris-based International Science Council, an elected fellow of the Linnean Society of London, and a member of IUCN, Geneva. A BSc Gold Medalist, he holds PhD in Marine Biology
- from MEXT, Japan (alumnus of MEXT Japanese Govt. international doctoral fellowship) and served as expedition scientist in Indian Antarctic Mission.
- Prof. Bast discovered seven new marine algae and moss species from India and Antarctica.
- He served as an in-residence intern with the President of India at Rashtrapati Bhawan, New Delhi and received “President’s Inspired Teacher” recognition in 2015.
- He also won the prestigious “Teaching Innovator Award” from Ministry of Education in 2020.
- He has become an advisor to UPSC in 2024. He is the alumnus of IIT Bombay, Friday Harbor Laboratories (University of Washington, USA), and Marine Biological Association of UK laboratories, Plymouth, UK.
- He served as a guest scientist at Leibniz Centre for Tropical Marine Research, Bremen, Germany during 2018–19 period.
- For research and dissemination purposes, he visited 26 countries. He has over 135 peer reviewed . . . papers, published 8 books, won 17 research projects amounting to 2.8 Crore rupees, and guided 16 .PhD theses.
- Prof. Bast advocates a sustainable lifestyle- a primary focus of his works. He has no car

and never plans to own one; instead, he is an avid cyclist who often commutes to his workplace by cycle.

- He is also a frequent blood donor, and an advocate of zero-waste and low-carbon footprint lifestyle. He has also signed up for posthumous organ and whole-body donation for medical research through NOTTO, the Government of India.

SKILLS/KEYWORDS

- Algal Taxonomy, DNA Taxonomy, Molecular Phylogenetics and Phylogeography, Seaweed
- Biology, Phylolinguistics, Antarctic Flora, Science Communication, Digital Education, Science Diplomacy, Critical Thinking

AWARDS

- Elected Fellow of Linnean Society of London, UK(2022) , Member of IUCN (2022)
- Inducted in **International Science Council** , Paris(2021)
- **AAAS- TWAS Science Diplomat Alumni** (AAAS-TWAS, 2020)
- **Advisor to UPSC (2024) , DST - YASH (2020) , TedX Speaker (2020)**
- Elected in National Core Committee of INSA INYAS (Biology and Medicine) 2020
- DST- INSA- INSPIRE Faculty Award Phylogenetic Diversity of Seaweeds (2012)
- Inspired Teacher recognition Invited In -Resident Intern with President of India at Rashtrapati Bhavan, New Delhi (2015) , Teaching Innovator Award , MHRD, Government of India (2016)
- NAM - ZMT Germany International Guest Scientist Award, 2018
Japanese Govt. Monbukagakusho:MEX
- International Doctoral Fellowship 2005, British Phycological Society Student Bursary Award - 2009
- CSIR- UGC National Eligibility Test Qualified Dec 2001 for JRF and Lectureship
- Indian Academy of Sciences Summer Research Fellowship at NIO, Goa - 2002
- University First Rank for BSC (2000)
- CSIR -JRF-NET, GATE, GRE, TOEFL qualified

PROGRAMME SCHEDULE



A.S.D.GOV'T. DEGREE COLLEGE FOR WOMEN (A)

Kakinada

ONE DAY NATIONAL WORKSHOP

ON

***“The Curious World of Algae:
Exploring Biological Applications”***

04-07-2024

Organized by

Science Departments

PROGRAMME SCHEDULE

Inaugural Session :

- ❖ **Welcoming Guests** : Smt. D.Jayasree
Lecturer in Microbiology
- ❖ **Prayer By** : O. Ramyasri, B. Laxmi Alekhya,
II B.sc Zoology (Honours)
- ❖ **Lightening the Lamp**
- ❖ **Opening Remarks** : Dr. V. Anantha Laxmi, Principal
- ❖ **Addressing the gathering** : Dr. M. Suvarchala, Vice Principal
- ❖ **Brief Note by IQAC Coordinator** : Ms. M. Vasantha Lakshmi,
Incharge Dept of Zoology
- ❖ **Introduction of Resource Person** : Mrs. S. Madhavi
Lecturer in Zoology
- ❖ **Technical Session 1** : Dr.J.V.Sudhakar,
Assistant Professor – Dept. Botany
Dr.SRK Govt Arts College,
Yanam-533464,
UT of Puducherry

- ❖ **Vote of Thanks for session 1** : **Dr.M.Sulakshana**
Lecturer in Botany
- ❖ **Memento Presentation**
- ❖ **Introduction of Resource Person 2** : **Smt. D.Jayasree**
Lecturer in Microbiology
- ❖ **Technical Session 2** : **Professor. Felix Bast**
Department of Botany,
Central University of Punjab,
Ghudda, 151401, Punjab
felix.bast@gmail.com
- ❖ **Vote of Thanks for session 2** : **Mrs. S. Madhavi**
Lecturer in Zoology
- ❖ **Memento Presentation**
- ❖ **Closing remarks & Vote of Thanks** : **Ms.K.N.V.S.N.Eswari**
Lecturer Incharge of Botany and Horticulture

LIST OF PARTICIPANTS

A.S.D.GOV'T. DEGREE COLLEGE FOR WOMEN (A)

DEPARTMENT OF Botany, Home Science, Zoology & Microbiology

One - Day National Workshop on

“The Curious World of Algae- Exploring Biological Applications

4th JULY 2024

LIST OF PARTICIPANTS

S.No.	Name of the Participant Dr/Mrs/Ms	Name of the College
1.	Dr. M.Suvarchala	Vice principal,A.S.D Govt. Degree College for Women (A), Kakinada
2.	M.Vasantha Lakshmi	Lecturer Incharge of Zoology A.S.D Govt. Degree College for Women (A) Kakinada
3.	Dr.k.Lavanya	Lecturer in Homescience A.S.D Govt. Degree College for Women (A), Kakinada
4.	Dr. G..Anitha	Lecturer in Homescience A.S.D Govt. Degree College for Women (A), Kakinada
5.	D.Jayasree	Lecturer incharge of Microbiology A.S.D Govt. Degree College for Women (A), Kakinada
6.	K.N.V.S.N.Eswari	Lecturer Incharge of Botany & Horticulture A.S.D Govt. Degree College for Women (A), Kakinada
7.	Dr.M.Sulakshana	Lecturer in Botany A.S.D Govt. Degree College for Women (A), Kakinada
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10.	N.Pushpa	Lecturer in Botany A.S.D Govt. Degree College for Women (A), Kakinada
11.	R.Venkata sandhya	Lecturer in Zoology & Aquaculture A.S.D Govt. Degree College for Women (A), Kakinada
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30.	B. Ishika	II BSc Zoology (Honours) A.S.D Govt. Degree College for Women (A),
31.	G. Naga Mahalakshmi	III BSc CBZ (2021-2024) A.S.D Govt. Degree College for Women (A),
32.	O. Guna sri	III BSc CBZ (2020-2023) A.S.D Govt. Degree College for Women (A),
33.	K. Ramya	III BSc CBZ (2020-2023) A.S.D Govt. Degree College for Women (A),
34.	K. Kavya sri	III BSc CBZ (2020-2023) A.S.D Govt. Degree College for Women (A),

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37.	S.Jayanthi	II B.Sc.Botany (Honours) A.S.D Govt. Degree College for Women (A),
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63.	P.Sravani Chandrika	II B.Sc.Homescience A.S.D Govt. Degree College for Women (A),
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75	G.Poorna Mahalakshmi	II B.Sc.Homescience A.S.D Govt. Degree College for Women (A),
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88.	B.Parimala Pushpa	III B.Sc. (CBMB) A.S.D Govt. Degree College for Women (A),
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90	T.Manga	III B.Sc. CBHt A.S.D Govt. Degree College for Women (A),
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92	V.Syamala	III B.Sc. CBHt A.S.D Govt. Degree College for Women (A),
93	G.Akshaya	III B.Sc. CBHt A.S.D Govt. Degree College for Women (A),
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100	P.Neha	II B.Sc.Botany (Honours) A.S.D Govt. Degree College for Women (A),

REPORT

INAUGURAL SESSION

On 4.07.2024, One Day National Workshop started with the Inaugural session and all the distinguished guests, the president of the event, Dr.V.Anantha Lakshmi, Principal, A.S.D. Govt.Degree College for Women(A), Kakinada Vice president Dr.M.Suvarchala, Vice-principal of the college, the chief guest of the session, Dr.J.V.Sudhakar Assistant Professor, Dr.SRK Govt Arts College, Yanam, IQAC Coordinator Ms.M.Vasantha Lakshmi, Incharge of Zoology Department, Convener of National Workshop Ms.K.N.V.S.N.Eswari, Incharge of Botany, Organizing Secretary, Ms.D.Jayasree Incharge of Dept of Microbiology, are invited to the dias. The inaugural session started with the prayer song by the II year Botany Major students of ASD Govt Degree College for Women(A), Kakinada, followed by the presentation of saplings to the distinguished guests on the dias and the faculty of ASD Govt Degree College for Women (A), Kakinada by the students.



Ms.K.Dakshayani, II Botany Major Welcoming the Principal Dr.V.Anantha Lakshmi With Sapling



Ms.K.Bhavani ,II Botany Major Welcoming the Vice Principal Dr.M. Suvarchala with Sapling



Ms.K.Dakshyani II Botany Welcoming the Resource Person Dr.J.V.Sudhakar



Prayer Song by Students



Lightening the Lamp by Resource Person Dr.J.V.Sudhakar



Dignitaries on the Dias along with the Resource Person



The president of the function, Dr.V.Anantha Lakshmi,principal of this college, gave her opening remarks and congratulated all the Science Departments for their efforts on Organizing one day National Workshop on “Curious world of Algae Exploring Biological Applications”



Vice-Principal of the college Ms. M.Suvarchala, explaining the Nutritive aspects of Algae



Greetings by IQAC Cordinator Mrs. M.Vasanth Lakshmi

Technical Session -I (Collection, Preservation and Nutritive values of Algae)

Dr.J.V.Sudhakar Assistant Professor, Dr.SRK Govt Arts College, Yanam, acted as the Resource Person for the first session of the program.,The resource person highlighted the significance of Collection, Preservation and Nutritional values of Various algal species and provided hands on training to the participants about the preservation of Algal specimens



Ms.S.Madhavi, Lecturer in Zoology introducing the Resource person



Resource Person Dr.J.V.Sudhakar delivering talk in Technical session –I



Resource Person explaining about the beneficial aspects of algae



Collection of Algal Samples by Resource Person

Algae, members of a group of predominantly aquatic photosynthetic organisms of the kingdom Protista. Algae have many types of life cycles, and they range in size from microscopic *Micromonas* species to giant kelps that reach 60 metres (200 feet) in length.

Algal Collection :

Purpose

For many species of algae, identification in the field is impossible. Collecting, fixing and processing algal samples during quantitative or qualitative assessments provide fresh or preserved specimens for laboratory identification and pressed herbarium samples provide voucher specimens for permanent records. Voucher specimens serve as documentation for species lists/collections and provide evidence for species identification.

Materials required :

Ziplock bags or plastic vials or containers

Scraper (chisel, small knife, etc.)

Permanent ink pen

Waterproof paper

Mesh or cloth bag

cooler or covered bucket

It is important to clearly separate and identify the algae taken from different habitats and/or sites.

Mark ziplock bags or vials with date, depth and location, or cut small pieces of waterproof paper to use as labels to be inserted into storage containers.

Method

Prior to collecting, mark ziplock bags, vials or containers with date, depth, and location.

Use a mesh or cloth bag to carry the chisel or knife and marked bags or vials in the field.

If possible, collect an entire specimen by carefully removing the holdfast from the substrate with fingers, chisel or knife. The complete plant, holdfast, rhizoids, and reproductive structures are crucial to proper identification of algae. If the specimen is extremely large, take only a representative portion. .

Gently place the specimen in the bag or vials with sufficient seawater. then store samples in dark cooler or covered container with ice. Fix or process as soon as possible to avoid tissue degradation/decomposition

Fixation:

Fixation is the preservation of specimens in a chemical solution to stop the deterioration of tissues. Processing is the handling, sorting and mounting of the specimens on herbarium paper. Fresh or preserving specimens in liquid are best for identification and pressed algae are permanent voucher specimens.

Materials required :

Buckets, trays, bowls
glass jars and vials
tweezers
permanent ink pen
labels or waterproof paper
Formalin
protective gloves

Method

If specimens cannot be immediately processed, fixing and storing the samples away from direct sunlight inhibits tissue deterioration and bleaching. A common method of fixation is to preserve the algal samples in a 4% Formalin-seawater solution (commercial 37% Formaldehyde = 100%) in glass jars or vials out of the light. The Formalin solution can be prepared ahead of time. Prepare a label or piece of waterproof paper with the date, time and location of collection. Immerse the algae in the Formalin solution in a glass jar or vial and affix label or put waterproof paper inside with algae. The algae should be completely immersed in the Formalin solution for at least 48 hours. Algae may be kept in the solution for longer periods of time (up to 1 to 2 months) if kept out of direct light. Light and fixative solutions will cause pigments to bleach.

Formalin Solution

Commercial 37% formaldehyde (= 100% Formalin) is diluted with seawater to make a 4% Formalin solution and buffered with borax or baking soda (sodium bicarbonate) to prevent unfavorable increases in acidity. Use approximately 40 gm (2.75 tablespoons) of baking soda per litre of solution.

Alcohol Solution

Samples can be preserved in a 50% ethyl alcohol (or even rubbing alcohol) solution, but it is not recommended. Algal material will lose pigments and become very brittle quickly. Note: Be cautious with the buffer. Too much buffer may cause the thalli to become brittle and disintegrate.

Handling & Pressing:

Handling and Sorting

Materials

Buckets, trays,
bowls, glass bottles
and vials tweezers
permanent ink pen labels
or waterproof
paper protective gloves

If samples are to be sent off for identification and processing, prepare specimens for transport per instructions of receiving laboratory. If preparing specimens for pressing, if fixed remove from fixative and rinse in tap water. Remove any sand or debris that is not part of the specimen. Separate samples into workable groups that may be grouped on herbarium sheets, such as large and small specimens, samples from same habitat, or taxonomic groups (greens, reds, browns), etc. Carefully track samples with labels and notes for proper records.

Pressing Algal Specimens

Materials:

Plant press or two boards and weights
cardboard ventilators
drying blotters or newspapers
herbarium paper
wax paper
tweezers and small paint brushes
paper towels
tray or cookie sheet larger than herbarium paper

Method :

To facilitate sample tracking, use a numbering system where each specimen has a unique number. Note specimen information on lower right hand corner of the herbarium sheet before pressing specimen. If specimens are only for private vouchers, more than one sample may be put on an herbarium sheet to save on materials. Museum herbaria require one specimen per sheet.

Larger, coarser specimens may be laid directly on an herbarium sheet on a flat surface. Spread out branches and holdfast/rhizoids in one plane with tweezers or wet paintbrush.

If the holdfast is too thick, remove a portion to ease pressing. For more delicate specimens, place the herbarium sheet on top of a piece of plastic, cloth, grid, etc. the size of the herbarium paper and submerge in a tray 75% filled with water. Floating the specimen in the water, arrange specimen over the herbarium sheet with brushes and tweezers. Slowly raise the base piece with the herbarium sheet and specimen out of the tray and allow to drain.

Place herbarium sheet and specimen on dry blotter or newspaper that lies on a cardboard ventilator and cover specimen with sheet of wax paper.

Place another blotter layer over the wax paper, top with another cardboard ventilator, and put in plant press. Continue adding specimens to the plant press so that each specimen is covered with wax paper between a layer of blotters, enclosed by a layer of ventilators.

Firmly tighten the straps of the plant press. for 12-18 hours

Later replace wax paper and blotter or newspaper (all materials can be dried and reused indefinitely). Reexamine after 24 hours and again replace blotters if needed. Place in dry, well ventilated area. Depending on thickness and water content, specimens may dry in 1 to 10 days. Remove and store herbarium specimens in well ventilated area

The Resource Person Dr.J.V.Sudhakar giving Hands on Training to the participants on Preservation of Algal Specimens



Participants in One Day National Workshop





Felicitation of Resource Person of Technical Session-I, Dr. J.V.Sudhakar by organizing Committee of National workshop



Vote of thanks to Resource person of Technical Session-1 by Dr. M. Sulakshana Lecturer in Botany

TECHNICAL SESSION- 2 :



Ms. S. Jayanthi, II Botany Major greeting the Resource person Prof. Felix Bast



Dignitaries along with the Resource person Prof. Felix Bast on the Dias



Ms. D.Jayasree. Lecturer Incharge of Microbiology introducing the Resource Person of Technical session- II



Prof. Felix Bast Delivering Lecture

In Technical Session- II, The resource person explained about the incredible potential of many Algal species.

Stromatolites:

Stromatolites are internally laminated organo sedimentary structures, evolved from microbial mats over time. The ancient stromatolites are considered to be the only form of life for longer periods in the earth's history. Probably as the first photosynthetic communities, these stromatolites proliferated in the shallow zone of the oceans, with the consumption of CO₂ and production of O₂ and H₂. The stromatolites of the Warra woona Group in Western Australia are about 3.43 billion year old. These mats have complex relationships with trophically-related bacterial groups and the physiologies of habitat-forming (edificatory) cyanobacteria.

Coccolithophores:

The coccolithophores are calcifying protists that have formed a significant part of the oceanic phytoplankton since the Jurassic. Their role in regulating the Earth system is considerable. Through their secretion of a tiny composite exoskeleton coccolithophores are estimated to be responsible for about half of *all* modern precipitation of CaCO₃, in the oceans.

Coccolithophores thus play a primary role in the global carbon cycle. The ecological and biogeochemical impacts of their skeletons are multiple and act on a wide range of ecological to geological time scales.

On ecological time scales, coccolithophore biomineralization plays a major role in controlling the alkalinity and carbonate chemistry of the photic zone of the world ocean. Counterintuitively, the precipitation of carbonate is a source of CO₂ for the upper ocean and atmosphere.

On the other hand, the biogenic carbonate produced by coccolithophores constitutes an ideal material for aggregating with the huge reservoir of particulate organic carbon created by photosynthesis in the upper oceanic layers. The accumulation of coccoliths into marine snow ballasts organic matter that otherwise would not sink to deepoceanic layers and, potentially, to the deep seafloor.

According to Honjo *et al.*, coccoliths are the main driver of the open ocean organic carbon pump, which removes CO₂ from the atmosphere. In fact, the effect of coccolith ballasting on atmospheric CO₂

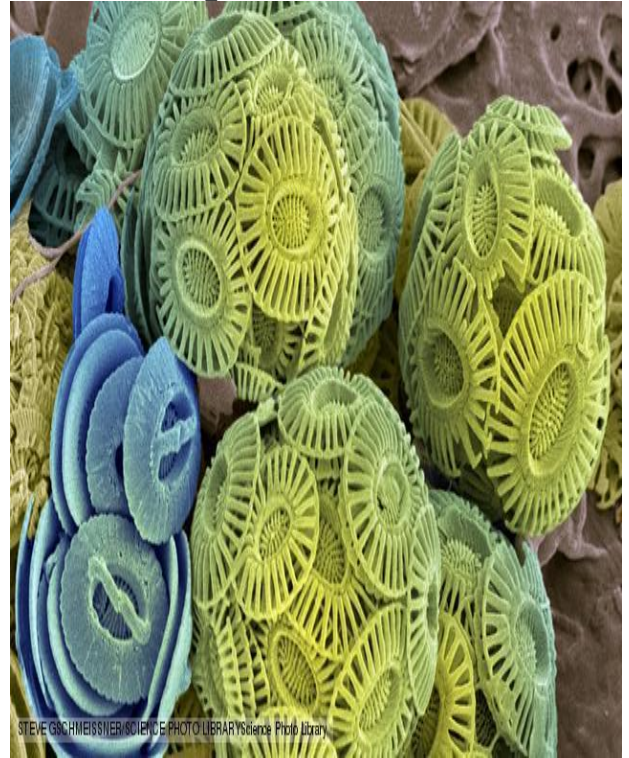
Trentepohlia annulata:

Trentepohlia is a genus of filamentous chlorophyte green algae in the family Trentepohliaceae, living free on terrestrial supports such as tree trunks and wet rocks or symbiotically in lichens. The filaments of *Trentepohlia* have a strong orange colour (photograph at right) caused by the presence of large quantities of carotenoid pigments which mask the green of the chlorophyll.

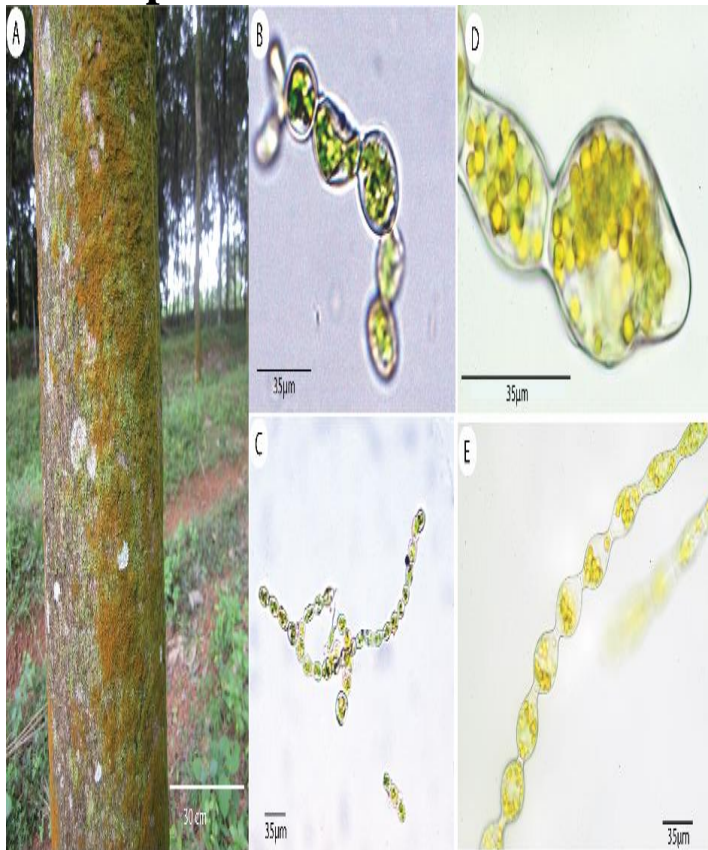
Stromatolites



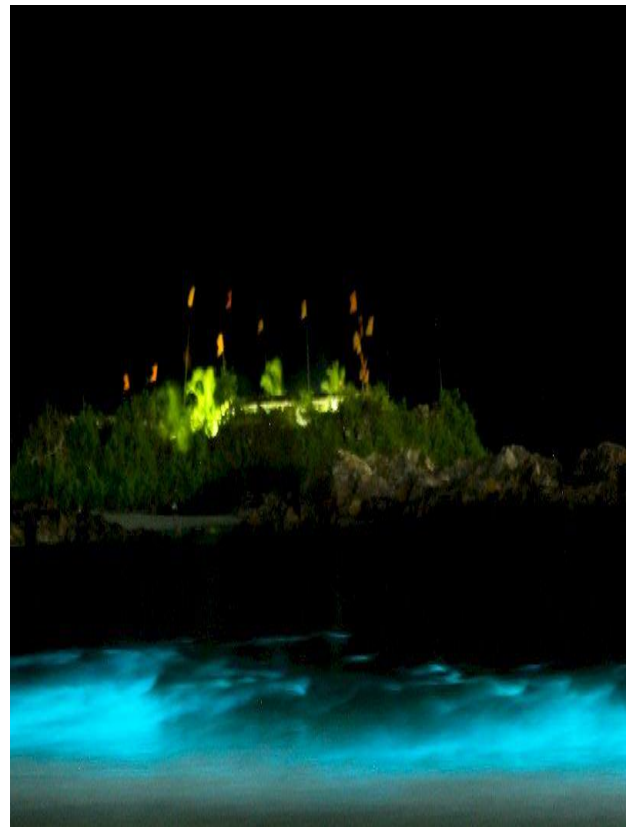
Coccolithophores



Trentepohlia annulata



Snow meltdown in Himalayas accelerate Noctiluca algal blooms in Arabian sea.



SEVEN NEW SPECIES OF PLANTS DISCOVERED

7 species new to science

Six new species of marine alga
from Indian coastline

One new species of moss from
Antarctica

Cladophora goensis Bast (Goa)

Ulva paschima Bast: West Coast
(Goa and KA)

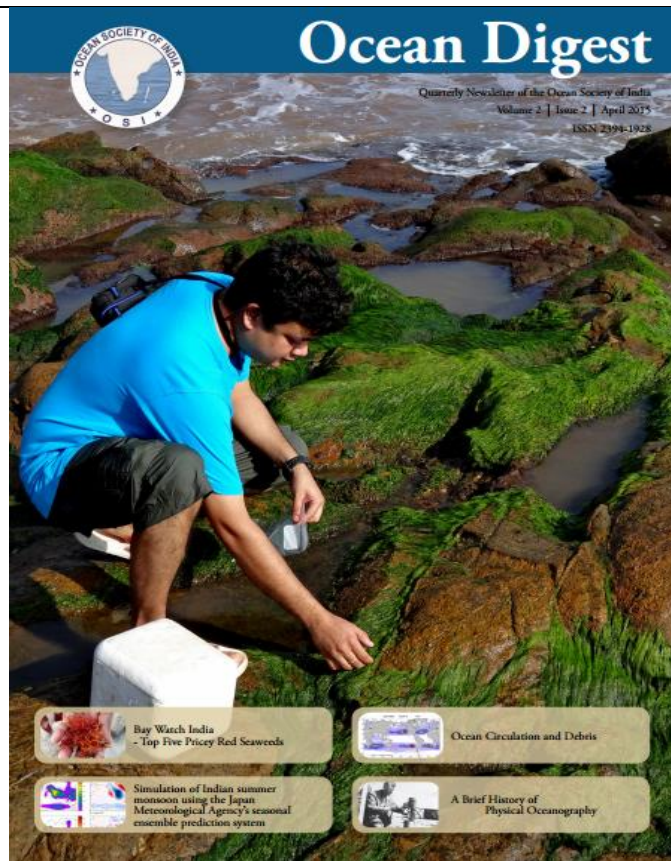
Ulva uniseriata Bast (WB and AP)

Bryum bharatiense Bast (E.
Antarctica)

Acetabularia jalakanyakae Bast
(AN)

Hypnea indica Kundu & Bast (GJ)

Hypnea bullata Kundu & Bast
(TN)



Ulva paschima Bast



Gymnodinium:

Red tide, discoloration of sea water usually caused by dinoflagellates, during periodic blooms (or population increases). Toxic substances released by these organisms into the water may be lethal to fish and other marine life. Red tides occur worldwide in warm seas. Up to 50 million cells per litre (quart) of the species *Gymnodinium brevis* caused a red tide off the Florida coast in 1947 and turned the water from green to yellow to amber; thousands of fishes died. A red tide along the Northumberland coast in England in 1968 was the cause of the death of many sea birds.

Gonyaulax polyedra :

Similar red tides, caused by *Gonyaulax polyedra*, have occurred off the California and Portuguese coasts. Toxins released into the water are irritating to the human respiratory system; they may become public health problems at coastal resorts when breaking waves release the toxic substances into the air.

Monostroma kuroshiense Bast:

Monostroma kuroshiense, a green alga in the division Chlorophyta, is a green seaweed endemic to Kuroshio Coast of Japan. This high-value seaweed is called Hitoegusa or Hirohano in Japanese. Previously this algae was known in binomen *Monostroma latissimum*, but the latest scientific research based on multilocal phylogeny discovered that this is a new species.^[1] The algae is named after Kuroshio Current, naming is done by phycologist Felix Bast This algae is commercially cultivated in East Asia and South America for the edible product "hitoegusa-nori" or "hirohano-hitoegusa nori", popular sushi wraps. *Monostroma* oligosaccharides with degree of polymerization 6 prepared by agarase digestion from *Monostroma nitidum* polysaccharides have been shown to be an effective prophylactic agent during *in vitro* and *in vivo* tests against Japanese encephalitis viral infection. The sulfated oligosaccharides from *Monostroma* seem to be promising candidates for further development as antiviral agents.^[2] The genus *Monostroma* is the most widely cultivated genus among green seaweed.



Gymnodinium



Gonyaulax

Monostroma kuroshiense Bast



BAST, F., KUBOTA, S. AND OKUDA, K. 2015. Phylogeographic Assessment of Panmictic *Monostroma* Species from Kuroshio Coast, Japan Reveals Sympatric Speciation. *Journal of Applied Phycology*

***Cladophora goensis* Bast**

Cladophora goensis is green algal seaweed commonly seen in Polish bays. The species have been identified majorly in the Indian Oceans, Pacific, and Atlantic. The major portion of the earth is covered by water inhabited by different aquatic plants that have pharmaceutical value. Many research studies have identified novel phytochemicals with different pharmacological activities from this marine vegetation. Algae have been a potential source of pharmacological agents and nutrition for decades.

Cladophora species are widely distributed in both marine and freshwater ecosystems. The common name of this species is Mekong weed. These types of weeds placed under the Chlorophyta genus consist of 183 taxonomically identified species. This weed has been used for food as well as medicine in both dry and fresh forms. Many anticancer candidates were investigated, however, over the last few years, it has been thought that choosing targets based on how proteins contribute to the onset as well as the progression of cancer is crucial, making regulatory proteins significant targets for treatment. The well-known anticancer therapeutic targets are human epidermal growth factor receptor (EGFR) (4WRG), poly (ADP-ribose) polymerase-1 (4UND), human estrogen receptor (ER) alpha ligand-binding domain (3ERT), human peroxisome proliferator-activated receptor (PPAR) alpha ligand-binding domain (3VI8), and human topoisomerase (1EJ9). Approximately 77% of instances of colorectal cancer (CRC) had overexpressed levels of the EGFR. It is well-recognized that EGFR has a role in the carcinogenetic processes of angiogenesis, cell motility, apoptosis, proliferation, and metastasis

Cladophora goensis sp. nov. (Cladophorales, Ulvophyceae), had been discovered from Vasco-da-Gamma, Goa, India. This species formed algal bloom of moderate intensity in the Bay of Mormugao, on the west coast of India. The phytochemicals of methanolic extracts of *C. goensis* showed potential interactions with cancer-related proteins.

Pink/Watermelon Ice algae

Watermelon snow, also called snow algae, is a phenomenon caused by *Chlamydomonas nivalis*, a species of green algae containing a secondary red carotenoid pigment (astaxanthin) in addition to chlorophyll. Unlike most species of fresh-water algae, this species appears to be cryophilic (cold-loving) and thrives in freezing water. This type of snow is common during the summer in alpine and coastal polar regions worldwide. Snow algae dominates glacial biomass immediately after the onset of melting, and its pigmentation can significantly darken the surface of a glacier. This plays a substantial role in glacial melt.

Invasive algae

Invasive Algae Species acts as a Source of Secondary Metabolites and Biological Activities. Numerous studies have demonstrated the biological properties of macroalgae extracts and compounds, including antioxidant, anti-inflammatory, antithrombotic, anticoagulant and coagulant, antimicrobial and anticancer. In *Asparagopsis armata*, the polysaccharides derived from sulfated galactans have shown strong antiviral effects against human immunodeficiency virus (HIV), inhibiting its reproduction.

***Cladophora goensis* Bast**



Pink/Watermelon Ice algae



Invasive algae



Agarophytes:

Gracilaria corticata:

Plants 10-12cm long, the thallus consists of bundles of flat and much divided blades with 2-3 mm broad segments; branching is dichotomous in young blades; in older plants numerous marginal projections line the edges of the segments in a pinnate fashion; they are ½-2 cm long; the colour of the plants vary from deep purple to grass green. It is widely distributed in Dwarka, Okha (Gujarat), Bombay, Malvan, Ratnagiri, (Maharashtra) Goa, Karwar. Honawar, Bhatkal (Karnataka). It can be used as an algae for production of food and animal feed.

Grateloupia filicina :

The genus *Grateloupia* with 96 or so recorded species is the largest genus in the family Halymeniaceae . The plants are an excellent source of food and lambda carrageenan, having several commercial applications. The genus *Grateloupia* includes taxa with a wide variety of habits, ranging from finely pinnate (*Grateloupia filicina*), foliose (*Grateloupia turuturu* Yamada) to hollow tubular blades (*Grateloupia intestinalis*)

Algal symbiotic systems

Symbiotic algae behave as mutualistic, parasitic, or free-living organisms, depending on host and symbiont genotypes and environmental conditions .Organisms with algal symbionts are widely distributed among various taxonomic groups.

Picoplanktons

Picoplankton is the fraction of plankton composed by cells between 0.2 and 2 µm that can be either prokaryotic and eukaryotic phototrophs and heterotrophs.They are prevalent amongst microbial plankton communities of both freshwater and marine ecosystems. They have an important role in making up a significant portion of the total biomass of phytoplankton communities. In general, plankton can be categorized on the basis of physiological, taxonomic, or dimensional characteristics. Subsequently, a generic classification of a plankton includes

- Bacterioplankton
- Phytoplankton
- Zooplankton

However, there is a simpler scheme that categorizes plankton based on a logarithmic size scale

- Macroplankton (200–2000 µm)
- Micro-plankton (20–200 µm)
- Nanoplankton (2–20 µm)

This was even further expanded to include picoplankton (0.2–2 µm) and fem-toplankton (0.02–0.2 µm), as well as net plankton, ultraplankton. Overall, picoplankton play an essential role in oligotrophic dimictic lakes because they are able to produce and then accordingly recycle dissolved organic matter (DOM) in a very efficient manner

Agarophytes

Gracilaria corticata



Grateloupia filicina



Algal symbiotic systems



Picoplanktons



Valedictory Session :

The valedictory session commenced with expressions of gratitude from the organizers, extending heartfelt thanks to the distinguished speakers, participants, and everyone who contributed to the success of the workshop.. A brief report on the program was presented by Ms K.N.V.S.N.Eswari,, Convener of the Programme where She extended gratitude to the Resource Persons Dr.J.V.Sudhakar and Prof.Felix Bast whose expertise, knowledge sharing, and thought-provoking presentations have been instrumental in making the workshop a valuable learning experience for all participants.

Certificates of participation were distributed to the attendees, serving as tangible tokens of acknowledgment for their active engagement and enthusiastic involvement in the workshop. The valedictory session also provided an opportunity for participants to exchange contact information, and solidify the connections forged throughout the day.



Distribution of Participation Certificates to the Participants by **Prof. Felix Bast**



Felicitation of the Resource Person Prof. Felix Bast



Ms.K.N.V.S.N.Eswari, Lecturer Incharge of Botany proposing Vote of Thanks

The organizers then opened the floor for participants to share their thoughts and feedback on the workshop. Attendees eagerly took this chance to express their appreciation for the diverse and enriching sessions, the expertise of the speakers, and the valuable insights gained. Constructive feedback was also welcomed, providing valuable input for future workshops and events



Convenor



Principal

FEEDBACK COLLECTED

The Feedback was collected through Google Form. Sample of Feedback collected is given below

National Workshop on "The Curious World of Algae : Exploring Biological Applications"

Date: 04 JULY 2024

Time: 10.00AM to 5.00PM

Department of Botany, Zoology, Microbiology & Home science

Your email was recorded when you submitted this form.

sridevireddi127@gmail.com

[Switch accounts](#)



Draft saved

Email *

venkatasandhyareddy@gmail.com

Name of the participant *

R. Venkata Sandhya

Designation / Programme of study *
(if Student, Ex: III B.Sc(CBZ))

Lecturer

Name of the Department *

Zoology

Name of the College & Place *

A.S.D Govt. Degree College for Women (A),

Name of the State *

Andhra Pradesh

Mobile No.(Whatsapp)

7386519981

Name of the Resource person I *

Dr. J.V. Sudhakar

Prof. Felix Bast



Topic of the presentation I *

- The curious world of Algae
- Algae: Current trends & future applications

The goals of **presentation- I** are clear *

Excellent

1

2

3

4

5

poor

Organization of presentation- I *

Excellent

1

2

3

4

5

Poor

Presentation skills-I *

Excellent

1

2

3

4

5

poor



Interaction of presenter - I *

Excellent

1

2

3

4

5

Poor

Overall evaluation of Presenter - I *

Excellent

1

2

3

4

5

Poor



Name of the Resource person II *

- Dr. J.V. Sudhakar
- Prof. Felix Bast

Topic of the presentation II *

- The curious world of Algae
- Algae: Current trends & future applications

The goals of **presentation II** are clear *

Excellent

- 1
- 2
- 3
- 4
- 5



Poor

Organization of presentation II *

Excellent

1

2

3

4

5

Poor

Presentation skills -II *

Excellent

1

2

3

4

5

Poor



Interaction of presenter - II *

Excellent

1

2

3

4

5

Poor

Overall evaluation of Presenter II *

Excellent

1

2

3

4

5

Poor



Opinion on workshop *

Excellent

1

2

3

4

5

Poor

Any suggestions

Your answer

Submit

Clear form

Never submit passwords through Google Forms.

This form was created inside A.S.D. Govt. Degree
College for Women(A).

Does this form look suspicious? [Report](#)



SAMPLE CERTIFICATE



A.S.D. GOVERNMENT DEGREE COLLEGE (W)(A), KAKINADA

Re-Accredited by NAAC with 'B' Grade in Cycle III

(Affiliated to Adikavi Nannaya University, Rajamahendravaram)

Certificate

This is to certify that Dr/Mr/Ms Ch. Sivalli
of M B.S.C CZAQT has attended and participated in

One Day National Workshop on "The Curious World of Algae : Exploring Biological Applications"


organized by the Science Departments of A.S.D. Govt. Degree College for Women (Autonomous),

Kakinada, Andhra Pradesh on 04th July 2024.


Ms. D. JAYASREE
Organizing Secretary


Ms. K.N.V.S.N. ESWARI
Convenor


Ms. M. VASANTHA LAKSHMI
IQAC Coordinator


H. SUVARCHALA
Vice-Principal


Dr. V. ANANTHA LAKSHMI
Principal

NEWS PAPER COVERAGE

ACTIVITY COVERED IN EENADU NEWS PAPER

కళాశాలలో జాతీయ సదస్సు

సాంబమూర్తి నగర్ (కాకినాడ): అన్నవరం సత్యవతీదేవి ప్రభుత్వ మహిళా డిగ్రీ కళాశాలలో 'ది క్యూరియస్ వరల్డ్ ఆఫ్ ఆల్లీ ఎక్స్ప్లోరింగ్ బయాలజికల్ అప్లికేషన్స్' అనే అంశంపై గురువారం జాతీయ సదస్సు జరిగింది. ప్రిన్సిపల్ డాక్టర్ వి. అనంతలక్ష్మి అధ్యక్షతన జరిగిన ఈ సదస్సులో యానాం డాక్టర్ ఎస్ ఆర్ కే ఆర్జీ కళాశాల బాటనీ హెడ్ డాక్టర్ జేవీ సుధాకర్ ముఖ్య అతిథిగా పాల్గొని మాట్లాడారు. అనంతరం విద్యార్థినులకు ధ్రువపత్రాలు అందజేశారు.