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COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course

On

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

VAC Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

HoD/BT

Dr R.Shyam Kumar

Verified
8/2/2025
S. Thilakshmi
VAC Coordinator

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DEPARTMENT OF BIOTECHNOLOGY

Sl No	Content Check List		Document
1	Academic Year	:	2024-2025
2	Regulation	:	R2021
3	Department Name	:	Biotechnology
4	Name of the Value-added course	:	Industry Certified Value Added Course on ALGAL TECHNOLOGY AND APPLICATIONS
5	No. of Credits	:	02
6	Category: Theory/Lab/Hands-on/Skill based etc	:	Hands-on/Skill based
7	Name and Details of the Joint-organization (industry/NGO etc) if any	:	1. **Sea2Farm**, C2, Floor No:6/104, Muthunal Road, Surankottai, Ramanathapuram (Dist) 623517, Tamil Nadu, India. 2. **Phycospora Breeding & Propagate**, 15/16A, Sallimalai, GP Road, Ramanathapuram 623526, Tamil Nadu, India.
8	Resource person details	:	1. **Mr. R.P.Rajadurai Jesudoss**, Manager, Sea2Farm, Ramnadapuram, Tamil Nadu 2. **Mr M.Selva Kumar**, Technical Lead, Phycospora Breeding & Propagate, 15/16A, Sallimalai, GP Road, Ramanathapuram 623526
9	Three Member Committee details	:	1. **Dr.R.Shyam Kumar** (Head/BT & Convener) 2. **Dr.K.Geetha** (Associate Professor / BT & Member) 3. **Dr.S.Karthikumar** (Associate Professor / BT & Member)
10	VAC Coordinator Details	:	Dr K.Geetha, Dr S.Karthikumar & Dr R.Syam Kumar
11	Duration (30 h mandatory)	:	30 h; 5 days
12	Period (From-To)	:	6th to 10th January 2025
13	Venue	:	1. Department of Biotechnology, KCET 2. Sea2Farm, C2, Floor No:6/104, Muthunal Road, Surankottai, Ramanathapuram (Dist) 623517, Tamil Nadu, India

VAP Coordinators

HoD/BT

Chief Coordinator (Academic Core)

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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course

On

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Enclosures:

Sl No	Check List	Availability
1	Institution Approval Copy	√
2	Circular	√
3	Syllabus Copy with Course outcomes	√
4	BoS Approval	√
5	Three Member Committee MoM	√
6	Geo-Tagged Photos	√
7	Certificates of all participants	√
8	Examination Schedule	√
9	Questions & Answer Keys	√
10	Attendance Sheet	√
11	Evaluated Answer script	√
12	Test Report	√
13	Mark Statement	√
14	Grade Sheet	√
15	Feedback form	√
16	Feedback analysis and Report	√
17	Programme Summary / Report	√
18	Students' oral feedback (recorded video)	-
19	VAC – Short Video	√

VAP Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

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APPROVAL BOOK

Book No.

BIOTECH

Date 20/12/2024

SL.No. 40

Approval for Conduction of Value Added Programme

Approval may please be given to conduct Value Added Course (Industry Cultified) on "Algal Technology and Applications" from 6th to 10th Jan 2025 in collaboration with Sea 2 Farm Industry, Rameswaram. The total budget is Rs 1,06,000/- with Rs 2000/- per student. The details are attached herewith along with Program Schedule. The VAP is organized for II B.Tech Biotechnology students. Kindly give your approval.

Thank You,

1. K. Sathya 20/12/24 (Dr. K. Sathya)
2. 20/12/24
3. P. Thangaraj

Signature of Staff

P. Thangaraj 20/12/24
HoD

21/12/24
PRINCIPAL

OFFICE USE

Value Added Course.

1) Account Head :
2) Budget allotted :
3) Amount committed / Spent sofar :
4) Balance available :

Administrative Officer

Secretary

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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Programme on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

PROGRAMME PROPOSAL

Objective:

- Know about different types of algae and their diversification.
- Know about cultivation of micro and macro algae.
- Learn the application of algae in various biotechnological perspectives

Need for the Value Added Program:

- The major objective of this program is to give an insight on basics of Algal Technology and Entrepreneurship development to the students and to provide hands-on training in seaweed cultivation and product development so that students will be able to learn the basic aspects of seaweed cultivation and apply them towards product development from seaweed, fostering innovation and sustainable business practices.
- "Algae" is an application part of Microbiology and Industrial biotechnology course work the students have learnt. This VAP will help them to develop entrepreneurship focus on Algae based product development.

Target Participants:

Class: **II B.Tech. Biotechnology** (2023-27 Batch)

No. of students: **53**

Duration: 5 Days

Tentative Dates: 6th to 10th January 2025

Programme Coordinators: Dr K.Geetha, Dr S.Karthikumar and Dr R.Shyam Kumar

Expected Outcome:

- The students will learn the necessary skills and knowledge for the cultivation of Algae and product development from algae.
- This workshop also aims to motivate the students to take up Entrepreneurship as career prospective in future.

PROGRAM SCHEDULE

DATE	9.10 am to 10.00 am	10.00 am to 10.50 am	11.10am to 12.50pm	1.30 pm to 3.00 pm	3.15 pm to 4.25 pm
06/01/2025	**Inaugural Session**	Introduction to Algae, Types of Algae	Seaweed Introduction	Cultivation strategies	
07/01/2025	Natural Bio polymers and their applications	Biopolymer extraction from Seaweed and Processing		Hands-on Session on Bio polymer Extraction	
08/01/2025	Value addition and Commerce from Seaweeds			Hands-on session	
09/01/2025	Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry				
10/01/2025	Student Project Expo and Presentation			Validation through test	**Valedictory Session**

Venue :

1) Theory part : Kamaraj college of engineering and technology.
2) Seaweed cultivation : Rameswarem shore.
3) Seaweed processing : Model unit, Department of fisheries, Rameswarem.

Resource persons:

1) Seaweed cultivation : Mrs. Poornima Aishwarya
2) Seaweed cultivation hands on training : Mr. Selvakumar
3) Seaweed processing and value addition : Er. R.P.Rajadurai jesudoss

BUDGET

Sl.No	Category	Particulars	Total (Rs.)
1	Training Charges	TA & DA for resource persons	**Rs.1,00,700**
2		Fisheries department approval	
3		seaweed raw materials for hands on training	
4		seaweed culturing kit	
5		1 meal on field visit	
6		Transportation for field visit	
7	Kit	Note Pad and Pen: 53 x Rs.50	**Rs 2,650**
8	Refreshment & Lunch	Tea, Snacks & Lunch for 2 Resource persons for 4 days	**Rs 2,650**
		TOTAL	**Rs. 1,06,000**
Cost Per Student: Rs. 1,06,000 / 53 = Rs.2,000			

Programme Co-ordinators HoD/BT Principal

To,

HOD,

Department of Biotechnology,

Kamaraj college of engneering and technology,

Virudhunagar.

Sub : Quotation for value added course Algal technology.

Respected Sir,

As per the mail and telephonic conversation from Head of the department , Department of biotechnology, kamaraj college of engineering and technology, we have quoted the schedule and charges for the algal training for your students on January 2025.

Program title **:** Alagal technology

No of students **:** 53

Tentative schedule **: January 6th to 10th (5 days)**

Venue :

1) Theory part : Kamaraj college of engineering and technology.
2) Seaweed cultivation : Rameswarem shore.
3) Seaweed processing : Model unit, Department of fisheries, Rameswarem.

Resource person :

1) Seaweed cultivation : Mrs. Poornima Aishwarya
2) Seaweed cultivation hands on training : Mr. Selvakumar
3) Seaweed processing and value addition : Er. R.P.Rajadurai jesudoss

Course fees : 1900 rs / student

Course fees includes : TA & DA for resource persons + Fisheries department approval + seaweed raw materials for hands on training + seaweed culturing kit + 1 meal on field visit + Transportation for field visit.

Program module and tentative schedule :

Day	Topic
Day 1	Seaweed introduction & cultivation strategies
Day 2	Biopolymer extraction from seaweed and processing & practical session
Day 3	Value addition and commerce from seaweeds and practical session
Day 4	Filed training and industrial visit
Day 5	Students project expo and presentation

REMESWAREM Sea 2 Farm

20.12.2024 Abraham Willington

Outlook

Re: Requesting Permission for Institutional Visit - Reg

From VEERAPRAKSAM VEERAGURUNATHAN <veeragurunathan@csmcri.res.in>
Date Tue 1/7/2025 5:06 PM
To HODBT <hodbt@kamarajengg.edu.in>
Cc Geetha.K <geethabt@kamarajengg.edu.in>; Karthikumar.S <karthikumarbt@kamarajengg.edu.in>; jesuramnad@gmail.com <jesuramnad@gmail.com>; Dineshkumar R <dineshkumar@csmcri.res.in>; S Dinesh Kumar <dineshks@csmcri.res.in>; Satish Lakkakula <satishl@csmcri.res.in>

Dear Dr Shyam Kumar

Your proposed lab visit is confirmed. Please visit our lab on 08.01.2025@10.00AM-1.00PM

Kind Regards
VEERA

Dr. V. Veeragurunathan
Principal Scientist & Scientist-In-Charge
CSIR-CSMCRI-Marine Algal Research Station,
Mandapam camp
Ramnad-623519
Tamilnadu, India
URL: www.csmcri.res.in
Mob:9843850103

From: hodbt@kamarajengg.edu.in
To: "VEERAPRAKSAM VEERAGURUNATHAN" <veeragurunathan@csmcri.res.in>
Cc: geethabt@kamarajengg.edu.in, karthikumarbt@kamarajengg.edu.in, jesuramnad@gmail.com
Sent: Tuesday, January 7, 2025 2:05:47 PM
Subject: Requesting Permission for Institutional Visit - Reg

Respected Sir
Greetings

Our college was established in the academic Year 1998. It is one of the pioneered Institutions in the field of Technical education in south zone of Tamil Nadu. We are proud to offer B.Tech (Bio Technology) and the Doctoral (Ph. D) programme in BioTechnology field.

We are writing to seek your kind permission to organize an educational visit to your organization including Herbarium collections for our B.Tech. II Year Biotechnology students as part of their Value-Added Course on **"Algal Technology and Its Applications."** This program is designed to provide students with a deeper understanding of the scientific and industrial advancements in algal biotechnology and its wide-ranging applications.

We propose to visit on 08/01/2025 (Wednesday) with a group of **53 students** and **4 faculty members**. We believe that this visit will offer our students an invaluable opportunity to witness cutting-edge research and practical applications in algal technology, fostering their knowledge and enthusiasm for the field.

We kindly request your approval for the visit and guidance regarding the necessary formalities or arrangements.

Thank you.

Yours Sincerely

Shyam Kumar R

Dr.R.Shyam Kumar, M.Sc., M.A., M.Tech., DMLT., Ph.D., FCY
Professor & Head,
Department of Biotechnology,
Kamaraj College of Engineering & Technology (AUTONOMOUS),
Virudhunagar - 626001
Ph.No: +91-9842644610

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DEPARTMENT OF BIOTECHNOLOGY

Accredited by National Board of Accreditation, New Delhi

Proudly Organizes

Industry Certified Value Added Course on

Algal Technology and Applications

Valedictory : 10 Jan 2025, 3.30 PM

VENUE

Smart Class Room - Department of Biotechnology

FELICITATION BY

Dr.S.Pugalanthi Pandian, D.Ortho., MNAMS (Ortho), M.Ch-[Neuro Sur]
(President)

Thiru. K. R. Balakrishnan, B.B.A.,
(Vice-President)

CA. V. K. Dharmarajan, B.B.A., F.C.A.,
(Secretary)

Thiru. M. S. G. Murugan, B.Sc.,
(Joint Secretary)

Er. S. P. G. C. Srimurugan, B.E., M.Sc., (Engg.)
(Treasurer)

Dr. S. Senthil, M.E., Ph. D.,
(Principal)

We Cordially Invite you All

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Resource Person Details

Name of Programme: Industry Certified Value Added Course on "**ALGAL TECHNOLOGY AND APPLICATIONS**" from **6th to 10th January 2025**

Name of Coordinator: Dr.K.Geeth, Dr S.Karthikumar & Dr R.Shyam Kumar

1. To develop tools for deciding the resource persons for the value added programs

S. No.	Class	Training Programme Planned	Offered by Department / TDP Cell	Industry / Institute Associated with, if any	Details of Internal Resources			Details of External Resource Persons		
					Name & official address, Email Id, Ph. No.	Expertise (Teaching, Research, Industry, Others, if any)	Expertise with respect to domain area / title of the programme	Name & official address, Email Id, Ph. No.	Expertise (Teaching, Research, Industry, Others, if any)	Expertise with respect to domain area / title of the programme
1	II B.Tec	Seaweed processing and value addition	Biotechnology Department	**Sea2Farm**	C2, Floor No:6/104, Muthunal Road, Surankottai, Ramanathapuram (Dist) 623517, Tamil	-	-	**Mr. R.P.Rajadurai Jesudoss**, Manager, Sea2Farm, Ramanathapuram,	Has 8 years of training experience and is also the manager of the Industry	Has 8 years of training experience

	h Biotechnology				Nadu, India			Tamil Nadu E.Mail: jesuramnad@gmail.com Ph: +919944390334		
2		Algal Cultivation and Biomass extraction		**Seaweed cultivation hands on training**	15/16A, Sallimalai, GP Road, Ramanathapuram 623526, Tamil Nadu, India	-	-	**Mr M.Selva Kumar**, Technical Lead, Phycospora Breeding & Propagate, 15/ 16A, Sallimalai, GP Road, Ramanathapuram 623526 E.mail: selkmrbsa@gmail.com Ph: +91 9943684175	Expert in cultivation of algae and converting the biomass into valuable products.	Has many years of experience.
3		Cultivation of Algae		**Seaweed cultivation**	C2, Floor No:6/104, Muthunal Road, Surankottai, Ramanathapuram	-	-	**Mrs. Poornima Aishwarya** Sea2Farm, Ramanathapuram, Tamil Nadu	Expert in cultivation of algae	Has many years of experience.

Signature of the Programme Coordinators

26/12/24 26/12/24

Signature of Head

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DEPARTMENT OF BIOTECHNOLOGY

CIRCULAR

KAMARAJ / BT / 2024-25 / VAP-II BT

Date: 26.12.2045

The Department of Biotechnology is going to organize an **Industry Certified Value Added Course** on **"ALGAL TECHNOLOGY AND APPLICATIONS"** for **II year B.Tech Biotechnology students (2023-27 Batch).** The 5 days course is scheduled from **6th to 10th January 2025.** The programme schedule for the VAP is given below:

PROGRAM SCHEDULE

DATE	9.10 am to 10.00 am	10.00 am to 10.50 am	11.10am to 12.50pm	1.30 pm to 3.00 pm	3.15 pm to 4.25 pm
06/01/2025	**Inaugural Session**	Introduction to Algae, Types of Algae	Seaweed Introduction	Cultivation strategies	
07/01/2025	Natural Bio polymers and their applications	Biopolymer extraction from Seaweed and Processing		Hands-on Session on Bio polymer Extraction	
08/01/2025	Value addition and Commerce from Seaweeds			Hands-on session	
09/01/2025	Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry				
10/01/2025	Student Project Expo and Presentation			Validation through test	**Valedictory Session**

PROGRAMME COORDINATORS HoD/BT PRINCIPAL

Copy to:

B.Tech.Biotechnology- II year B.Tech Class (2023-27 Batch)
BT Faculty members
Office Superintendent
To file

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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

PROGRAM SCHEDULE

DATE	9.10 am to 10.00 am	10.00 am to 10.50 am	11.10am to 12.50pm	1.30 pm to 3.00 pm	3.15 pm to 4.25 pm
06/01/2025	**Inaugural Session**	Introduction to Algae, Types of Algae	Seaweed Introduction	Cultivation strategies	
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09/01/2025	Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry				
10/01/2025	Student Project Expo and Presentation			Validation through test	**Valedictory Session**

PROGRAMME COORDINATORS

HoD/BT

Course Code	Course Name	L	T	P	C
VAP	ALGAL TECHNOLOGY AND APPLICATIONS				2

1. Preamble

This course enables the students to

- Know about different types of algae and their diversification.
- Know about cultivation of micro and macro algae.
- Learn the application of algae in various biotechnological perspectives

2. Course Outcomes

After successful completion of the course,

CO.No.	Course Outcome	Knowledge Level
CO1	Explain the basics of algae, their importance, classification and diversity.	K2
CO2	Describe the algal characteristic features and their isolation.	K2
CO3	Summarize the micro algal cultivation methods and biomass production.	K2
CO4	Identify the macro algal distribution and biomass collections.	K3
CO5	Apply the algal systems in biotechnological product development.	K3

3. Course Syllabus **Total: 30 Hours**

UNIT I INTRODUCTION TO ALGAE 06

Algal diversity, seaweed rearing techniques, raft technology , reared seaweed, seaweed morphology and identification, seaweed seed preperation and development methods.

UNIT II CULTIVATION OF ALGAE 06

Brown and red algae, hydrocolloids from seaweed, alginate extraction from brown algae, application of alginates, agar extraction from red algae and its application, down stream methods in hydrocolloid extraction. Hands-on session: Extraction of alginates from brown algae, Extraction of agar from red algae.

UNIT III VALUE ADDITION USING ALGAE 06

Need of value addition, value addition of seaweeds, demand based approach on value addition , certification associated with value addition. Hands-on session: Value addition of seaweeds and extracted hydrocolloids.

UNIT IV COMMERCIALIZATION OF ALGAL PRODUCTS 06

Certifications and quality management. Commercialization of value added products. Promotion and marketing strategies. Industrial visit to Fisheries Department at Ramanathapuram and AK Seaweeds Industry.

UNIT V INDUSTRIAL SCALE UP 06

Government subsidies on seaweed farming and value addition, industrial scale up SOPs, seaweed park in Ramanathapuram. Hands-on session: Commercialization of value added products.

TEXT BOOKS:

1. Konur Ozcan, *Handbook of Algal Science, Technology and Medicine,* Academic Press, 2020.
2. Muthuarumugam Nagaraj, Shanmugam Kathiresan, S., *Applied Algal Biotechnology*, Nova Science Publishers, 2021.
3. Chojnacka Katarzyna, et al., *Algae Biomass: Characteristics and Applications: Towards algae-based products*, Vol. 8, Springer, 2018.

REFERENCES:

1. Becker, E. Wolfgang, *Microalgae: Biotechnology and Microbiology*, Vol. 10, Cambridge University Press, 1994.
2. Jayabalan Sangeetha, Devarajan Thangadurai, Sanyasi Elumalai and Shivasarana Chandrbanda Thimmappa, *Phycobiotechnology Biodiversity and Biotechnology of Algae and Algal Products for Food, Feed and Fuel*, CRC Press, 2021.
3. Trivedi, P.C., *Algal Biotechnology,* Pointer publishers, Jaipur, India, 2001

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

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Department of Biotechnology

Seventh BoS Meeting Minutes

Date : 30-09-2023

Time : 10.00 AM

Venue : CSE Conference Hall - I

Link (hybrid mode) : https://teams.microsoft.com/l/meetup-join/19%3a868e3ebf1da84821b67629edf5c504c6%40thread.tacv2/1695969183207?context=%7b%22Tid%22%3a%222666d91c-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%2253e97dde-b467-45ac-80a2-df98f8017534%22%7d

The following members were present:

S.No.	Name of the Expert	Designation	Capacity
1	Dr. S. Venkatesan	Professor & Head, Department of Petrochemical Technology, Bharathidasan Institute Of Technology (BIT) Campus, Tiruchirappalli- 620 024	Anna University Nominee
2	Dr. P. Suresh Kumar	Professor & Head, Department Of Biotechnology, University College Of Engineering, Bharathidasan Institute Of Technology Campus, Tiruchirappalli	Academic Council Nominee
3	Dr. R. Balakrishnaraja	Associate Professor and Head, Department Of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam	Academic Council Nominee
4	Mr. S. Seshan	Management Representative, The Peninsular Exports Company, Virudhunagar	Industrial Expert

5	Dr. Ilanila IP	Assistant Professor National Institute of Technology Calicut, NIT Campus – Calicut	Alumni

Internal Faculty Members of BoS			
S.No.	**Name of the Faculty**	**Designation**	**Signature**
1	Dr. R. Shyam Kumar	Professor and Head	
2	Dr. R. Baskaran	Associate Professor	
3	Dr. K. Geetha	Associate Professor	3/10/2023
4	Dr. S. Karthikumar	Associate Professor	
5	Dr. A. Ronaldo Anuf	Assistant Professor	3/10/23
6	Dr. D. Pradiba	Assistant Professor	3/10/23
7	Er. R. Amutha Lakshmi	Assistant Professor	3/10/23
8	Er. K. Chitradevi	Assistant Professor	03/10/23
9	Er. Karl Joseph Samuel	Assistant Professor	
10.	Er. A.Ganga	Assistant Professor	

007.01.00 : Welcome address by HoD

- Welcome address
- Dissemination of Vision and Mission statements of the Institution and the Department.
- Dissemination of PEO & PSO statements of the Program.

007.02.00 : Approval of 6th BoS Meeting Minutes & Action taken

Item No.	Suggestions of BoS Members in 6th BoS Meeting	Action Taken
006.04.01	Dr. P. Suresh Kumar, Academic Council Nominee suggested to include recent book editions in text and reference books. Dr. S. Venkatesan, Anna University Nominee suggested latest version of	The suggestions provided by the experts were taken and changes were made in the appropriate syllabus

	Separation process principles by Seader and Henly for this course	
006.04.01	Dr. P. Suresh Kumar, Academic Council Nominee suggested to include updated text, reference books and e – book links in the syllabus	Appropriate text book reference and e-book links were introduced
006.04.01	Dr. Balakrishnaraja, Academic Council Nominee suggested to include the topic "Media design and optimization simulation using MATLAB" in the syllabus. He also insisted to reframe the title of second unit	The changes were done in the modified syllabus
006.04.01	Members enquired the availability of animal handling facility in the department	Visit to near by Animal handling facility was added as an activity in the Laboratory
006.04.01	Dr. Balakrishnaraja, Academic Council , Simulation studies using MATLAB in the course.	The MATLAB based exercises are included in the Theory course
006.04.01	Dr. S. Venkatesan, Anna University Nominee asked to remove Unit Operations paper and instead include Intellectual Property Rights course.	The Paper was introduced
006.04.01	Mr. S. Seshan, Industrial Expert suggested to include International Regulatory affairs, regulations such as USFDA in the Food Safety Laws and Regulation syllabus.	The topic was introduced in the syllabus
006.05.03	Mr. S. Seshan enquired about the Management related value added courses (GLP, GMP) offered by the department and he also suggested to include the such courses as it would improve the job opportunities	Efforts were taken to provide such courses for final year students

- All the BoS members approved the minutes of the 6th BoS meeting

007.03.00 : Discussion and approval of

007.03.01 : Proposed Curriculum and Syllabi for VII and VIII Semester

VII Semester

Name of the Course	Suggestions from BoS members
Downstream Processing	➢ Dr. R. Balakrishnaraja, suggested that Case study-based assignments can be assigned as activity. The course in charge justified that Out of the three assignments, one assignment is given as case study. ➢ Dr. Ilanila IP enquired whether in Unit-V there is Scope for including Downstream purification of Pharmaceutical product in syllabus ➢ The HoD informed that the same has been included in biopharmaceutical syllabus ➢ Dr. R. Balakrishnaraja, suggested to include text book by Seader and tatum
Downstream Processing Laboratory	➢ References needs to be updated with reprints
Computational Biology Laboratory	➢ Dr.R.Balakrishnaraja, Appreciated for including R – Programming. He also insisted to teach Theory content of R programming as one credit course. Alumni help may be sought in this regard.
Mini Project Work	➢ Dr.R.Balakrishnaraja, – enquired about the process of problem identification for mini project work. He suggested to identify problems from nearby industries. HOD explained that the same procedure is followed by the department. Three-member committee is constituted to monitor the progress of the same. ➢ Dr.Ilanila IP enquired the duration of the project in the syllabus. ➢ Dr.R.Balakrishnaraja, suggested that the students have to work after regular working hours to arrive at better results. ➢ Dr.Suresh Kumar enquired about the total credits for the R2021.

VIII Semester

Name of the Course	Suggestions from BoS members
Project Work	➢ Dr.Balakrishnaraja, enuired about the total number of credits and the total hours allocated for the project work ➢ Dr.Suresh Kumar, enquired whether the project would be Inhouse projects or industry projects. He also enquired about the Review system. ➢ The HoD and BoS Coordinator informed that the preference for project will be based on student

	interest. HoD also informed that the review will be done periodically by a three-member committee constituted by the HoD

007.03.02 : Management Courses – TQM & PoM (MECH & MTRE)

007.03.03 : List of Open Elective 1,2,3 & 4 courses offered

Name of the Course	Offered to	Suggestions from BoS members
BASICS OF BIOINFORMATICS	**CSE, ADS, ECE, IT**	➢ Dr.Ilanila IP, suggested that Unit I and II can be reframed to add more details related to central dogma concepts and other basic concepts related to biotechnology.
INTRODUCTION TO FOOD MANUFACTURING	**CSE, ADS, ECE, IT**	➢ Dr.Balakrishnaraja and Dr.Illanila IP, suggested that the syllabus is too complex. It will be difficult for the students from other branches. ➢ Question paper has to be framed carefully taking into consideration the course is studied by students from other branches.
BASICS OF NANOBIOTECHNOLOGY	**All Branches**	➢ The Board of Studies experts proposed that the syllabus, being an open elective, may be reduced to accommodate students from various branches. ➢ Dr. Balakrishnaraja Suggested that Unit - 5 title can be reframed as Nanobiotechnology in Medicine.
BIOLOGY FOR ENGINEERS	**All Branches**	All the members appreciated the syllabus and approved it.
TESTING OF BIOLOGICAL MATERIALS	**All Branches**	➢ Dr.Ilanila, enquired whether Unit II will be taught by person from Mechanical Engineering background. ➢ HoD informed that for such topics guest lectures may be arranged.
PRINCIPLES OF FOOD PROCESSING	**All Branches**	➢ All the members appreciated the syllabus and approved it

007.03.04 : List of NPTEL Courses (equivalence) offered for the students those who are opting for Honours / Minor degree / alternative to professional elective courses

NPTEL COURSE	Equivalent Professional elective course

Novel Technologies for Food Processing and Shelf Life Extension	Principles of Food Preservation
Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	Post Harvest Technology
Environmental Biotechnology	Environmental Biotechnology

- The members accepted the courses requested for equivalence.

007.03.05 : Human Values and Ethics Courses

- The members appreciated the contents in the syllabus. They commented that the syllabus was in line with the initiative from AICTE.
- Dr.Bala also enquired about the number of faculty members who have completed the UHV modules.
- HoD informed that 50% of the faculty members in the department have completed the course. The members appreciated the efforts.

007.04.00 : ITEMS FOR RATIFICATION

007.04.01 : Changes or Corrections in the existing Curriculum of R2020 and R2021

NIL

007.04.02 : NPTEL Examination results (students performance) and action taken for the students who did not receive the certificates

- IV Year B. Tech Biotechnology (2020-2024 Batch, R2020) has a mandatory 2 Online Courses for 6 Credits.
- 25 students of the total 48 students (52.03%) have completed the required two courses for six credits.

Subject Code	Subject Name	Month & Year	No of Students Enrolled	No. of students Passed	Pass %
noc22-ag13	Post Harvest Operations and Processing of Fruits, Vegetables, Spices and Plantation Crop Products	Oct 2022	15	11	73.33
noc22-ag14	Soil Fertility And Fertilizers	Oct 2022	5	5	100
noc22-bt57	Environmental Biotechnology	Oct 2022	28	28	100

noc23-ag02	Novel Technologies For Food Processing And Shelf Life Extension	Apr 2023	38	20	52.63
noc23-ce12	Water and waste water treatment	Apr 2023	7	6	85.71
noc23-ce10	Applied Environmental Microbiology	Apr 2023	3	2	66.67

- The following students have achieved Topper in their respective subjects

S. No	Roll Number	Student Name	Subject Code	Subject Name	Month & Year	Topper %
1.	20UBT023	VARSHINIRAJI.P	noc22-bt57	Environmental Biotechnology	Oct 2022	1
2.	20UBT041	MINUSHA.S	noc22-bt57	Environmental Biotechnology	Oct 2022	5
3.	20UBT027	SUBHIKSHA.S	noc23-ce10	Applied Environmental Microbiology	Apr 2023	5

- 22 students of the total 48 students (45.83%) have completed one course and earned 3 credits and 1 student (2.08%) have not completed any courses.
- The students who are short of required credits have been recommended to register from the following courses this semester.

S. No	Course ID	Name of the Course
1.	noc23_ag13	Soil Fertility And Fertilizers
2.	noc23-ag11	Advanced Aquaculture Technology
3.	noc23-ag18	Dairy And Food Process And Products Technology
4.	noc23-bt37	Drug Delivery: Principles And Engineering

- The Controller of Examination will conduct the examination for students who fail this semester.

007.04.03 : Curriculum feedback and action taken if any

- The feedback received from Students, Faculty and Alumni were shared with the BOS members. The action taken were appreciated by the members.

007.04.04 : Value Added Courses offered – ratification if any

- HOD presented the details about the Industry Value added course offered for III Year students on the topic Comprehensive trail in revolutionary drug

- design: Pre-clinical research methodology (30 hours) during the current semester and requested for ratification.
- Dr. Bala enquired about the total credits offered for the program.
- HoD Informed that the program was offered 2 credits.

007.05.00: Information about the (Points Discussed in the following)

Item No.	Description	Suggestions / Comments from the BoS Members
007.05.01	Number of students doing Honours / Honours with Specialization / Minors and its respective courses	➢ The HOD Presented the number of students doing Honours/ Honours with specialization/ Minors and its respective courses ➢ Dr.Balakrishnaraja enquired about the poor turnouts in enrolment for Minor degree courses. ➢ HoD informed that most of the students are interested in core placements and research avenues.
007.05.02	Student Internship Completion details	The HOD shared the statistical data of the student internship/ Inplant training details for R2020 & R2021 ➢ 100 % of the students of R2020 have completed the student internship/ Inplant training ➢ 98% of the students from R2021 completed the Internship of 15 days duration during the Academic Year 2022-2023.
007.05.03	Pass Percentage of students	➢ The HOD Presented the Pass percentage year wise and course wise. ➢ The BOS members appreciated the results of the students.
007.05.04	Value Added Courses offered/ Planned for the academic year : 2023 – 2024	The HOD Presented the Value added course planned for the academic year : 2023-2024 The following courses were planned for Current Second year Students ➢ *Value Added Course on Biofertilizer and Biopesticide Production* ➢ *Value Added Course on Algae for Health and Wealth* ➢ *Value Added Course on Food Safety Management System*

		➢ Members suggested that course related to Food Value addition and Quality policy can be conducted to the students at Second year. The Value added courses Coordinators shared that for final years "One-week hands on training related to laboratory techniques" (Finishing School Concept) will be conducted. ➢ The experts suggested that, if feasible certification course related to ISO Internal Audit (Food safety management) can be handled for Final year students.
007.05.05	NBA eSAR / status /compliance preparation and its information	➢ The HOD shared the details regarding the Visit by NBA expert committee. ➢ The strength and Weakness pointed out by the NBA committee was shared with the BoS Members
007.05.06	Student Internship details (between 6th and 7th meeting)	The HoD shared the statistical data of the student internship/ Inplant training details for R2020 & R2021. ➢ 100 % of the students of R2020 have completed the student internship/ Inplant training ➢ 98% of the students from R2021 completed the Internship of 15 days duration during the Academic Year 2022-2023.

007.06.00 : Any other Item

➢ Request for ratification of Mission statements as per NBA Criterion I. The members suggested to reframe the mission statement in to two or three individual statements in alignment with the existing mission statements.

007.07.00 : Vote of Thanks

➢ The meeting ended with the Vote of Thanks by Dr. K. Geetha, Associate Professor, Department of Biotechnology, Kamaraj College of Engineering and Technology, Virudhunagar.

BoS Coordinator
(Dr.A.Ronaldo Anuf)

BoS Chairman
(Dr.R.Shyam Kumr)
HoD /BT

HOD
DEPT. OF BIOTECHNOLOGY
Kamaraj College of Engineering & Technology

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MINUTES OF THE MEETING TO APPROVE AND RECOMMEND THE VALUE ADDED PROGRAM EXAMINATION FOR CREDIT

Date : 27/01/2025

Time : 3.50 PM to 4.15 PM

Venue: Research Laboratory, Dept of Biotechnology

Members Present:

1. Dr.R.Shyam Kumar (Head/BT & Convener)
2. Dr D.Pradiba (Assistant Professor / BT & Dept. VAP Coordinator)
3. Dr.S.Karthikumar (Associate Professor / BT & II BT VAP Coordinator)

Additional Member: Dr.K.Geetha (Associate Professor / BT & II BT VAP Coordinator)

Agenda:

1. Welcome address – Dr.R.Shyam Kumar, Head and convener.
2. Dissemination of the report of Industry Certified Value-Added Programme on "ALGAL TECHNOLOGY AND APPLICATIONS" –Dr S.Karthikumar.
3. Dissemination of the Value Added Programme Guidelines in R2021 – Dr.S.Karthikumar, CP/II BT & II BT VAP Coordinator.
4. Dissemination of the report on mode of conduct of examination and evaluation system – Dr.K.Geetha, II BT VAP Coordinators.
5. Approval of the program conduction and examination evaluation system to issue the credits as per regulation R2021- Dr D.Pradiba, Dept. VAP Coordinator.
6. Any other items with the approval of convener

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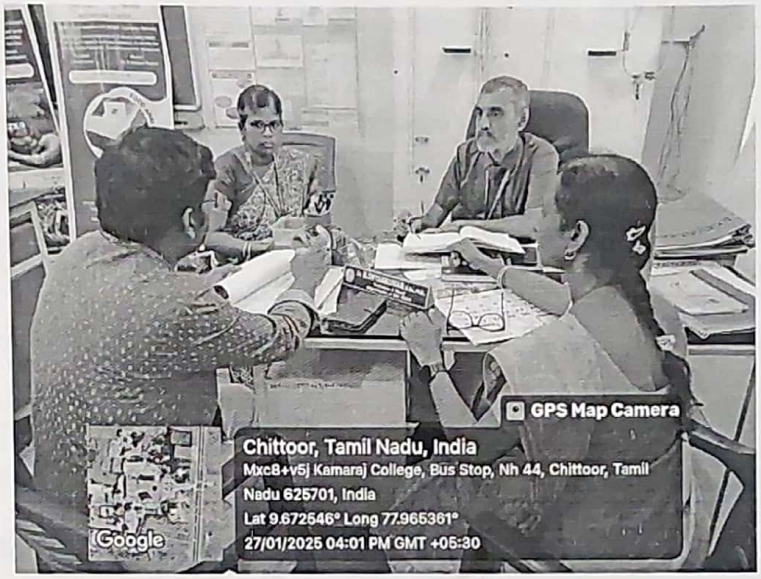
Item No.	Agenda	Discussion and Resolution
1	Welcome address	Dr.R.Shyam Kumar, Head and convener of the meeting welcomed the gathering and gave a brief introduction about the purpose and agenda of the meeting
2	Dissemination of the report of value added Program	Dr.S.Karthikumar, Chairperson of II BT and one of the VAP coordinators explained the objective, need, target participant, duration and expected outcome of the program organized "Industry certified value added programme on ALGAL TECHNOLOGY AND APPLICATIONS" during **6th to 10th January 2025** (5 days). The program was conducted for 2nd year B.Tech. Biotechnology students (2023-27 Batch) as per regulation R2021. Biotechnology related industry personals from **Sea2Farm, Ramanadapuram**, Tamil Nadu, provided technical training and Hands-on training to the students during the programme. Detailed event report is attached.
3	Dissemination of the Value -added	Dr.S.Karthikumar, Chairperson of II BT and one of the VAP coordinators disseminated the points discussed regarding the

	Programme Guidelines in R2021	change in the value added programme during the 7th BOS meeting. The proposed syllabus for value added courses "ALGAL TECHNOLOGY AND APPLICATIONS" was accepted by Anna University Nominee.
4	Dissemination of the report on mode of conduct of examination and evaluation system	Dr K.Geetha, Associate Professor, BT and one of the VAP coordinators, explained the mode of conduct of examination. At the end of the program students were asked to appear for an External exam in online platform covering 25 MCQs from Algal Technology. The exam was conducted in physical mode using MS Office Forms platform in proctored mode. The marks scored by each student was presented to the committee members for the approval. **Out of 53 students, 52 students attended the exam and cleared.** Hence, 52 students will be awarded with 2 credits for the VAP.
5	Approval of the program conduct and examination evaluation system to issue the credit as per the regulation R2021	The three member committee (Dr.R.Shyam Kumar, Dr.D.Pradiba and Dr.S.Karthikumar) **scrutinized and approved the value added program exam results and recommend 2 credits to be offered to 52 students**. The committee members verified the results and forwarded to Controller of Examination through Chief Coordinator (Academics-Core) to consider for Credits.
6	Any other items	No members raised any further clarification and the reports were

	with the approval of convener	forwarded for further process.



Dr.R.Shyam Kumar
HoD/BT and Convener

Dr.D.Pradiba
Assistant Professor/BT, Department Value Added Course Coordinator

Dr.S.Karthikumar
Associate Professor/BT, II BT VAP Coordinator

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Industry Certified Value Added Programme
On
ALGAL TECHNOLOGY AND APPLICATIONS
6th to 10th January 2025

PHOTOS

Day 1

Inauguration session

Sessions on the basic Introduction Theory behind Algae and its classification by Mr. M.Selva Kumar

Seaweed samples

Laboratory session by Mr M.Selva Kumar

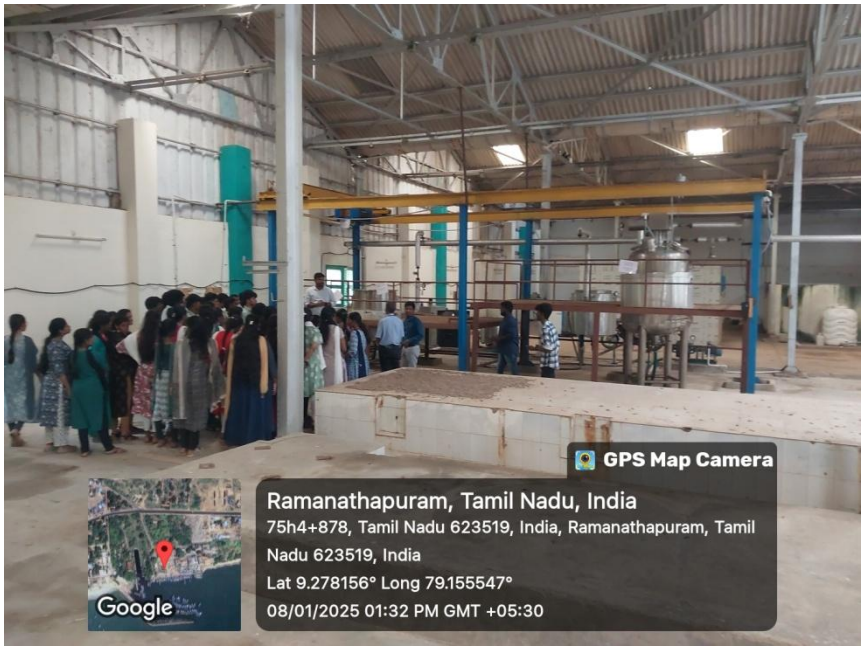
Day 2

session on Applications of seaweed by Mr. R.P.Rajadurai Jesudoss

Hands-on session on preparation of agar agar and alginate

Day 3

Industrial visit to **CSIR-CSMCRI Marine Algal Research Station**, Ramnathapuram



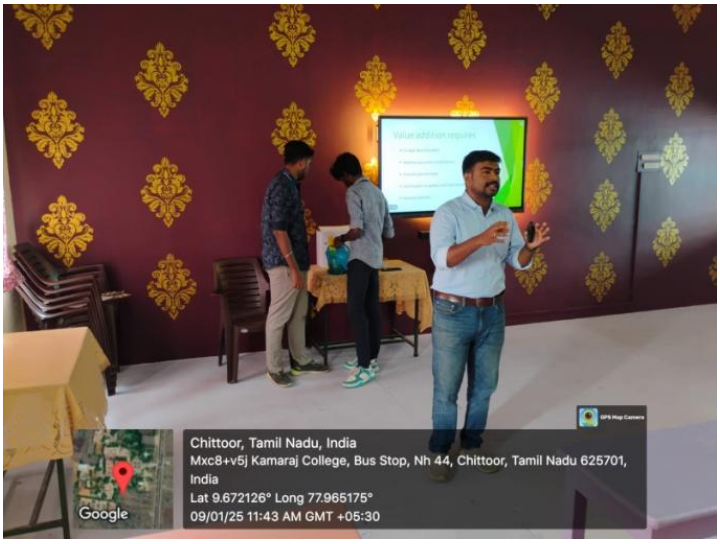
Automated production unit under the Fishery Department of Rameswaram

Visit to seaweed collection site

Hands-on training on seaweed cultivation – Raft method

Hands-on training of seaweed cultivation – Raft method

Day 4

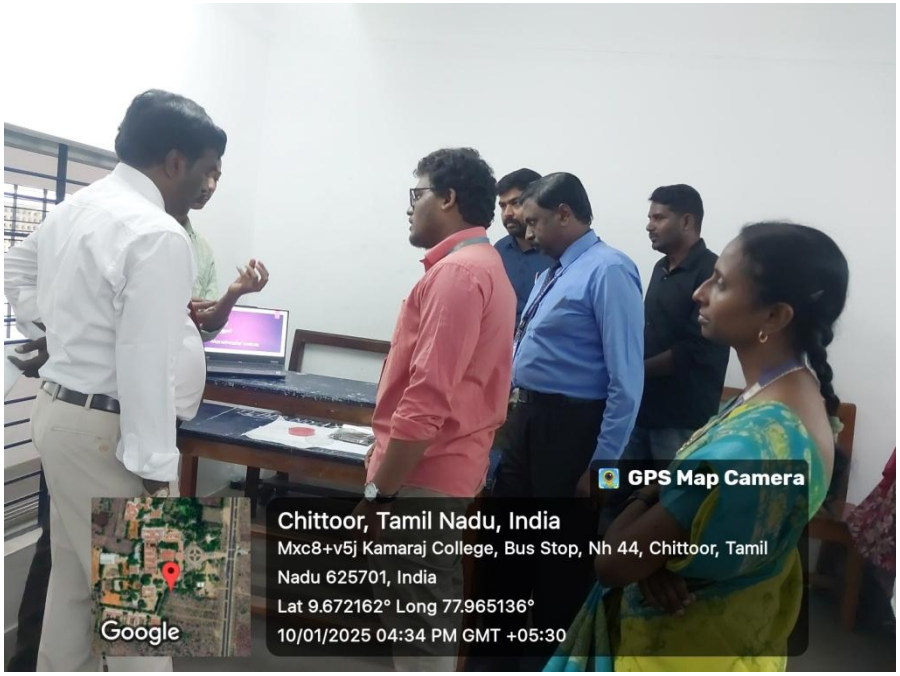


Theory session on Algal product development by Mr R.P.Rajadurai Jesudoss

Processing of Algae

Preparation of Algal based Products

Day 5



Presentation and demonstration of Algal products

Presentation and demonstration of Algal products

Valedictory Function

Felicitation by Thiru CA V.K.Dharmaraj, Secretary during Valedictory Function

Programme Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

HoD/BT

Dr R.Shyam Kumar

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Industry Certified Value Added Programme

On

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

ONLINE PROCTORED EXTERNAL EXAMINATION – 25/01/2025

PHOTOS

Photo 1: Online Meeting for proctored External exam – Online mode

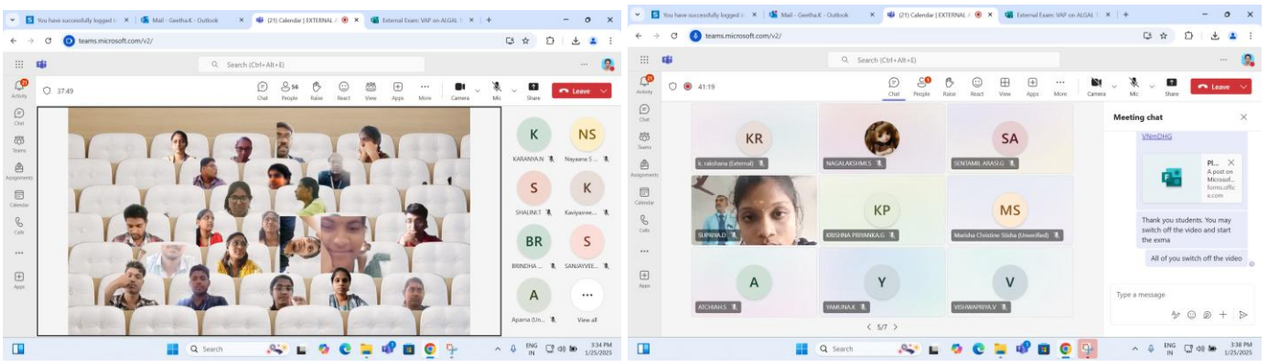

Photo 2, 3 & 4: Students attending Online proctored mode external exam for Value Added Course

Programme Coordinators

Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT

Dr R.Shyam Kumar

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This is to certify that Mr./~~Ms.~~ LALITH RAJ. B

2nd Year B.Tech.Biotechnology, Reg.No. 920423214025, Roll No. 230BT001 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 83 % in the assessment exam.

Sea2Farm | Coordinator(s) | HoD/BT | Principal

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This is to certify that Mr./~~Ms.~~ HARIPRASATH.S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214015, Roll No. 23UBT042 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 31 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. HAMSHAD VANI.C

2nd Year B.Tech.Biotechnology, Reg.No. 920423214012, Roll No. 23UBT003 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 92 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. VIJAYA RAGHAVAN. G

2nd Year B.Tech.Biotechnology, Reg.No. 920423214047, Roll No. 23UBT004 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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This is to certify that Mr./~~Ms.~~ PARSELVAN. S.G

2nd Year B.Tech.Biotechnology, Reg.No. 920423214033, Roll No. 23UBT006 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. ELAKIYA . S . R

2nd Year B.Tech.Biotechnology, Reg.No. 920423214010, Roll No. 23UBT007 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 90 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. YAMUNA . K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214051, Roll No. 23UBT008 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 90 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. APARNA. S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214003, Roll No. 23UBT009 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 88 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. VIVEHA BALA.S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214050, Roll No. 23UBT010 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

Sea2Farm | Coordinator(s) | HoD/BT | Principal

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This is to certify that Mr./~~Ms~~. JEYA SUGESH. A

2nd Year B.Tech.Biotechnology, Reg.No. 920423214020, Roll No. 23BBT011 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

Sea2Farm | Coordinator(s) | HoD/BT | Principal

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CERTIFICATE

This is to certify that ~~Mr.~~/Ms. PRIYADHARSHINI · M

2nd Year B.Tech.Biotechnology, Reg.No. 920423214034, Roll No. 23UBT012 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. SWETHA.S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214044, Roll No. 23UBT013 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 94 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. ROSHINI. S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214039, Roll No. 23UBT014 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 89 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. SENTAMIL ARASI.C

2nd Year B.Tech.Biotechnology, Reg.No. 920423214041, Roll No. 23UBT015 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 84 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. ATCHIAH. S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214005, Roll No. 23UBT016 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. YAZHINI. G

2nd Year B.Tech.Biotechnology, Reg.No. 920423214053, Roll No. 23UBT017 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 86 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. VIMALA. T

2nd Year B.Tech.Biotechnology, Reg.No. 920423214048, Roll No. 23UBT018 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. VEERALAKSHMI.V

2nd Year B.Tech.Biotechnology, Reg.No. 920423214046, Roll No. 23UBT019 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 86 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. JEEVAASRT · S·B

2nd Year B.Tech.Biotechnology, Reg.No. 920423214018, Roll No. 23UBT020 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 85 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. NAVAANA.S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214032, Roll No. 23UBT021 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 81 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. HARI BALAMURUGAN . P

2nd Year B.Tech.Biotechnology, Reg.No. 920423214013, Roll No. 23UBT022 .

has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. KAVIYASREE.M

2nd Year B.Tech.Biotechnology, Reg.No. 920423214023, Roll No. 23UBT023 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 84 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. ARUN ADHITHYAN. S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214004, Roll No. 23UBT024 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 85 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. PUVINA JASMINE.J

2nd Year B.Tech.Biotechnology, Reg.No. 920423214035, Roll No. 23UBT025 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. MARTSHA CHRISTINE SIISHA.I

2nd Year B.Tech.Biotechnology, Reg.No. 920423214027, Roll No. 23UBT026 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 83 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. KARANYA.N

2nd Year B.Tech.Biotechnology, Reg.No. 920423214021, Roll No. 23UBT027 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 81 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. SHALINI. T

2nd Year B.Tech.Biotechnology, Reg.No. 920423214042, Roll No. 23UBT028 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 83 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. RAJA PRIYADHARSHINI.R

2nd Year B.Tech.Biotechnology, Reg.No. 920423214036, Roll No. 23UBT029 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. MUKTIA.K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214029, Roll No. 23UBT030 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. AKSHAYA. R.B

2nd Year B.Tech.Biotechnology, Reg.No. 920423214001, Roll No. 23UBT031 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 86 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. RATHI. K.P

2nd Year B.Tech.Biotechnology, Reg.No. 920423214038, Roll No. 23UBT032 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. GOWTHAM RAJ . R

2nd Year B.Tech.Biotechnology, Reg.No. 920423214011, Roll No. 230BT033 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 83 % in the assessment exam.

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This is to certify that ~~Mr.~~/Ms. SUPRIYA.D

2nd Year B.Tech.Biotechnology, Reg.No. 920423214043, Roll No. 23UBT034 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. NAGALAKSHMI . S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214030, Roll No. 23UBT035 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. BRINDHA RAJAM.G

2nd Year B.Tech.Biotechnology, Reg.No. 9804 23214006, Roll No. 23UBTO36 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 81 % in the assessment exam.

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2nd Year B.Tech.Biotechnology, Reg.No. 920423214016, Roll No. 23UBT037 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. YAZHINI .D

2nd Year B.Tech.Biotechnology, Reg.No. 920423214052, Roll No. 23UBT038 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 86 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. SYED SIRAJUTHEEN . M

2nd Year B.Tech.Biotechnology, Reg.No. 920423214045, Roll No. 23UBTO39 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 86 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. DHIVAKARAN . K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214008, Roll No. 23UBT040 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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This is to certify that Mr./~~Ms.~~ SANJAY VEERA . S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214040, Roll No. 23UBT041 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 81 % in the assessment exam.

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This is to certify that Mr./~~Ms.~~ NAVEEN KUMAR . N

2nd Year B.Tech.Biotechnology, Reg.No. 920423814031, Roll No. 23UBT042 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

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CERTIFICATE

This is to certify that Mr./~~Ms~~. ANANTHA RAJ . J

2nd Year B.Tech.Biotechnology, Reg.No. 920423214002, Roll No. 23UBTO43 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 80 % in the assessment exam.

Sea2Farm | Coordinator(s) | HoD/BT | Principal

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

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CERTIFICATE

This is to certify that Mr./~~Ms~~. HARI KRISHNAN . K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214044, Roll No. 23UBTO144 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 85 % in the assessment exam.

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CERTIFICATE

This is to certify that ~~Mr.~~/Ms. KRISHNA PRIYANKA.G

2nd Year B.Tech.Biotechnology, Reg.No. 920423214024, Roll No. 23UBT045 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 88 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. DAIVYA .M

2nd Year B.Tech.Biotechnology, Reg.No. 920423214009, Roll No. 23UBT046 .

has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

Sea2Farm | Coordinator(s) | HoD/BT | Principal

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This is to certify that ~~Mr.~~/Ms. DHARSHINI . K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214007, Roll No. 23UBT047 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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CERTIFICATE

This is to certify that ~~Mr~~./Ms. RAKSHANA . K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214037, Roll No. 23UBT048 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 90 % in the assessment exam.

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This is to certify that Mr./~~Ms~~. JEYA PRAKASH .J

2nd Year B.Tech.Biotechnology, Reg.No. 920423214019, Roll No. 23UBT049 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 89 % in the assessment exam.

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This is to certify that ~~Mr~~./Ms. JANANI . S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214017, Roll No. 23UBT050 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

Sea2Farm **Coordinator(s)** **HoD/BT** **Principal**

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This is to certify that Mr./~~Ms~~. MOHANRAJ.K

2nd Year B.Tech.Biotechnology, Reg.No. 920423214028, Roll No. 23UBT051 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 82 % in the assessment exam.

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CERTIFICATE

This is to certify that ~~Mr~~./Ms. VISHWA PRIYA . V

2nd Year B.Tech.Biotechnology, Reg.No. 920423214049, Roll No. 23UBT052 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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CERTIFICATE

This is to certify that ~~Mr~~./Ms. KARISHMA. M

2nd Year B.Tech.Biotechnology, Reg.No. 980423814022, Roll No. 231BT053 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 87 % in the assessment exam.

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CERTIFICATE

This is to certify that Mr./~~Ms.~~ MAHESH. S

2nd Year B.Tech.Biotechnology, Reg.No. 920423214026, Roll No. 23UBT054 has attended Industry Certified Value Added Course on "ALGAL TECHNOLOGY AND APPLICATIONS" in association with Sea2Farm, Ramanathapuram, Tamil Nadu during 6 - 10, January 2025 and secured 81 % in the assessment exam.

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DEPARTMENT OF BIOTECHNOLOGY

CIRCULAR

KAMARAJ / BT / 2024-25 / VAP-II BT

Date: 20.01.2025

Dear Students,

You are requested to join the online meeting link to attend **Industry Certified VAP- ALGAL TECHNOLOGY AND APPLICATIONS: EXTERNAL ASSESSMENT TEST 2024-25** on **25/01/2025 at 3.10 pm**.

All students are instructed to bring Laptop to take the exam. Join the meeting link 10 min before the exam timing. Only those who 80% attendance are eligible to take the test. Hence only those students may join the link and attend the test. The test will be conducted in proctored mode in the department.

Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NTE2Yzc1MDEtMGJlMC00MTI1LWJlYTQtZGFkMjE3MGI4NGI2%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%224948241d-c837-4241-ab0b-de08e44460f9%22%7d

PROGRAMME COORDINATORS
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar
HOD
DEPT. OF BIOTECHNOLOGY
Kamaraj College of Engineering & Technology
VIRUDHUNAGAR.

DEPT. OF BIOTECHNOLOGY KCET

Copy to:
B.Tech.Biotechnology - II year B.Tech Class (2023-27 Batch)
BT Faculty members
Office Superintendent
To file

Outlook

External Exam link for VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

From Geetha.K <geethabt@kamarajengg.edu.in>
Date Mon 1/20/2025 1:31 PM
To 23UBT <23ubt@kamarajengg.edu.in>
Cc HODBT <hodbt@kamarajengg.edu.in>; Karthikumar.S <karthikumarbt@kamarajengg.edu.in>; Chief Coordinator Academic core <cacore@kamarajengg.edu.in>

1 attachment (218 KB)
VAP External exam circular 2024-25.pdf;

Dear Students,

Dear Students,

You are requested to join the online meeting link to attend **Industry Certified VAP- ALGAL TECHNOLOGY AND APPLICATIONS: EXTERNAL ASSESSMENT TEST 2024-25** on **25/01/2025 at 3.00 pm**.

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Online Meeting Link: https://teams.microsoft.com/l/meetup-join/19%3ameeting_NTE2Yzc1MDEtMGJlMC00MTI1LWJlYTQtZGFkMjE3MGI4NGI2%40thread.v2/0?context=%7b%22Tid%22%3a%222666d919-f1fc-4027-b9c5-212d4e95e68a%22%2c%22Oid%22%3a%224948241d-c837-4241-ab0b-de08e44460f9%22%7d

BEST OF LUCK!!!

Regards,

Dr K.Geetha
Associate Professor
Department of Biotechnology
Kamaraj College of Engineering & Technology
S.P.G.C. Nagar, K.Vellakulam-625701,
Near Virudhunagar, Madurai Dist.
Tamilnadu, India
Mob: +91 9443116930
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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Programme on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

Questions and key

Course : Algal technology and application

1) SRC stands for
   a) Semi refined Carrageenan
   b) Semi refined Agar
   c) Sargassum rich consortium
   d) Semi refined cyanobacteria
2) Green algae are abundant in
   a) Intertidal zone
   b) Mesopelagic zone
   c) Continental shelf
   d) Continental drift
3) Spot the non-native seaweed of India
   a) Sargassum sp
   b) Gelidium Sp
   c) Kappaphycus Sp
   d) Turbeneria Sp
4) Central nodel institute working on algal research
   a) CMFRI
   b) CFTRI
   c) CSMCRI
   d) CECRI
5) Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under
   a) State agriculture department
   b) State fisheries department
   c) State coastal department
   d) State gulf of mannar development department
6) Agar Agar was extracted from
   a) Ulva sp
   b) Kappaphycus sp
   c) Gelidium sp
   d) Sargassam sp

7) Spot the High protein algae
   A) Sargassam sp
   B) Gelidium sp
   C) Kappaphycus sp
   D) Ulva sp
8) Kappaphycus seaweed is also termed us _____ , based on its patent.
   a) Pepsi seaweed
   b) Aquaagri seaweed
   c) Grand seaweed
   d) Itc seaweed
9) Agar recovery from red algae extract gel is done by
   a) Alkali precipitation
   b) Acid precipitation
   c) Centrifugal force
   d) Freeze thawing
10) E406 was assigned to
   a) Sodium alginate
   b) Agar agar
   c) Caragennan
   d) Alginic acid
11) If Agar was value added for Islamic population , it should be mandatorily
   a) Kosher certified
   b) Fssai certified
   c) HACCP certified
   d) HALAL certified
12) Product to be sold among jew people should hold
   a) Kosher certificate
   b) ISO certificate
   c) Fssai certificate
   d) Halal certificate
13) ISO for food products _____
   a) ISO 14000
   b) ISO 22000
   c) ISO 12000
   d) ISO 9001
14) Alginates are extracted by
   a) Freeze drying
   b) Acid precipitation
   c) sedimentation
   d) Ultrafiltration
15) Kappaphycus seaweed seeds are developed using
   a) Raft method
   b) Micropropagation
   c) PTC
   d) Cell line culture
16) _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu
   a) Tubular method
   b) Deep stone method

c) Bamboo raft method
d) Float tube method

17) Alkali used in alginate extraction is
a) Sodium carbonate
b) Sodium bicarbonate
c) Sodium hydroxide
d) Sodium sulphate

18) Strong Agar is extracted from
a) Gelidium Sp
b) Turbeneria Sp
c) Gracilaria Sp
d) Sargassum Sp

19) On raft cultivation distance between two seedling rope should be _____
a) 6 inches
b) 12 inches
c) 3inches
d) 24 inches

20) Cultivation period of kappaphycus sp on raft will last for _____ days
a) 55
b) 45
c) 65
d) 35

21) Widely seaweeds are rich in _____
a) Vitamins
b) Proteins
c) Minerals
d) Carbohydrate

22) Agar food grade material should posses the following mandate certificate to be sold in India
a) ISO
b) FSSAI
c) Halal
d) GMP

23) Seaweeds get attached to the marine base using
a) Roots
b) Blades
c) Gas bladder
d) Holdfast

24) Blue green algae come under
a) Microalgae
b) Macroalgae
c) Fungi
d) MicroPlant

25) Local name of Turbeneria Sp seaweed
a) Kattai korai
b) Malli korai
c) Pepsi paasi
d) Pakoda paasi

Programme Coordinators
Dr.K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

Manager
Mr R.P.Rajadurai Jesudoss
Sea2Farm
Ramanathapuram

HoD/BT
Dr R.Shyam Kumar

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External Exam: VAP on **ALGAL TECHNOLOGY AND APPLICATIONS-** 2024-25 Even

6th to 10th January 2025

* Required

* This form will record your name, please fill your name.

1. Name *

2. Roll Number (23UBT0..) *

3. Register Number (9204232140..) *

4. Date of Examination *

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

5. 1. SRC stands for * (2 Points)

- a) Semi refined Carrageenan
- b) Semi refined Agar
- c) Sargassum rich consortium
- d) Semi refined cyanobacteria

6. 2. Green algae are abundant in * (2 Points)

- a) Intertidal zone
- b) Mesopelagic zone
- c) Continental shelf
- d) Continental drift

7. 3. Spot the non-native seaweed of India * (2 Points)

- a) Sargassum sp
- b) Gelidium Sp
- c) Kappaphycus Sp
- d) Turbeneria Sp

8. 4. Central nodel institute working on algal research * (2 Points)

- a) CMFRI
- b) CFTRI
- c) CSMCRI
- d) CECRI

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under * (2 Points)

- a) State agriculture department
- b) State fisheries department
- c) State coastal department
- d) State gulf of mannar development department

10. 6. Agar Agar was extracted from * (2 Points)

- a) Ulva sp
- b) Kappaphycus sp
- c) Gelidium sp
- d) Sargassam sp

11. 7. Spot the High protein algae * (2 Points)

- A) Sargassam sp
- B) Gelidium sp
- C) Kappaphycus sp
- D) Ulva sp

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. * (2 Points)

- a) Pepsi seaweed
- b) Aquaagri seaweed
- c) Grand seaweed
- d) Itc seaweed

13. 9. Agar recovery from red algae extract gel is done by * (2 Points)

- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing

14. 10. E406 was assigned to * (2 Points)

- a) Sodium alginate
- b) Agar agar
- c) Caragennan
- d) Alginic acid

15. 11. If Agar was value added for Islamic population , it should be mandatorily * (2 Points)

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified

16. 12. Product to be sold among jew people should hold * (2 Points)

- a) Kosher certificate
- b) ISO certificate
- c) Fssai certificate
- d) Halal certificate

17. 13. ISO for food products _____ * (2 Points)

- a) ISO 14000
- b) ISO 22000
- c) ISO 12000
- d) ISO 9001

18. 14. Alginates are extracted by * (2 Points)

- a) Freeze drying
- b) Acid precipitation
- c) sedimentation
- d) Ultrafiltration

19. 15. Kappaphycus seaweed seeds are developed using * (2 Points)

- a) Raft method
- b) Micropropagation
- c) PTC
- d) Cell line culture

20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu * (2 Points)

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method
- d) Float tube method

21. 17. Alkali used in alginate extraction is * (2 Points)

- a) Sodium carbonate
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

22. 18. Strong Agar is extracted from * (2 Points)

- a) Gelidium Sp
- b) Turbeneria Sp
- c) Gracilaria Sp
- d) Sargassum Sp

23. 19. On raft cultivation distance between two seedling rope should be _____ * (2 Points)

- a) 6 inches
- b) 12 inches
- c) 3inches
- d) 24 inches

24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days * (2 Points)

- a) 55
- b) 45
- c) 65
- d) 35

25. 21. Widely seaweeds are rich in _____ * (2 Points)

- a) Vitamins
- b) Proteins
- c) Minerals
- d) Carbohydrate

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India * (2 Points)

- a) ISO
- b) FSSAI
- c) Halal
- d) GMP

27. 23. Seaweeds get attached to the marine base using * (2 Points)

- a) Roots
- b) Blades
- c) Gas bladder
- d) Holdfast

28. 24. Blue green algae come under * (2 Points)

- a) Microalgae
- b) Macroalgae
- c) Fungi
- d) MicroPlant

29. 25. Local name of Turbeneria Sp seaweed * (2 Points)

- a) Kattai korai
- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

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DEPARTMENT OF BIOTECHNOLOGY
Industry Certified Value Added Course
On
ALGAL TECHNOLOGY AND APPLICATIONS
06/01/2025 to 10/01/2025
Consolidated Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025		Total Hours Attended	No of Hours Absent	Attendance
			Session	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	30		%
1	920423214025	23UBT001	LALITH RAJ B	3	3	3	3	3	3	3	3	3	3	30	0	100
2	920423214015	23UBT002	HARIPRASATH S	3	3	3	3	3	3	0	0	3	3	24	6	80
3	920423214012	23UBT003	HAMSHAD VANI C	3	3	3	3	3	3	0	0	3	3	24	6	80
4	920423214047	23UBT004	VIJAYA RAGAVAN G	3	3	3	3	3	3	3	3	3	3	30	0	100
5	920423214033	23UBT006	PORSELVAN.S.G	3	3	3	3	3	3	3	3	3	3	30	0	100
6	920423214010	23UBT007	ELAKIYA S R	3	3	3	3	3	3	0	0	3	3	24	6	80
7	920423214051	23UBT008	YAMUNA K	3	3	3	3	3	3	3	3	3	3	30	0	100
8	920423214003	23UBT009	APARNA S	3	3	3	3	3	3	3	3	3	3	30	0	100
9	920423214050	23UBT010	VIVEHA BALA S	3	3	3	3	3	3	3	3	3	3	30	0	100
10	920423214020	23UBT011	JEYA SUGESH A	3	3	3	3	3	3	0	0	3	3	24	6	80
11	920423214034	23UBT012	PRIYADHARSHINI M	3	3	3	3	3	3	3	3	3	3	30	0	100
12	920423214044	23UBT013	SWETHA S	3	3	3	3	3	3	3	3	3	3	30	0	100
13	920423214039	23UBT014	ROSHINIS	3	3	3	3	3	3	0	0	3	3	24	6	80
14	920423214041	23UBT015	SENTAMIL ARAS C	3	3	3	3	3	3	0	0	3	3	24	6	80
15	920423214005	23UBT016	ATCHIAH S	3	3	3	3	3	3	3	3	3	3	30	0	100
16	920423214053	23UBT017	YAZHINI G	3	3	3	3	3	3	0	0	3	3	24	6	80
17	920423214048	23UBT018	VIMALA I	3	3	3	3	3	3	3	3	3	3	30	0	100
18	920423214046	23UBT019	VEERALAKSHMI V	3	3	3	3	3	3	3	3	3	3	30	0	100
19	920423214018	23UBT020	JEEVAASRI S B	3	3	3	3	3	3	3	3	3	3	30	0	100
20	920423214032	23UBT021	NAYAANA.S	3	3	3	3	3	3	3	3	3	3	30	0	100
21	920423214013	23UBT022	HARI BALAMURUGAN P	3	3	3	3	3	3	3	3	3	3	30	0	100
22	920423214023	23UBT023	KAVIYASREE M	3	3	3	3	3	3	3	3	3	3	30	0	100
23	920423214004	23UBT024	ARUN ADHITHYAN S	3	3	3	3	3	3	3	3	3	3	30	0	100

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Consolidated Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025		Total Hours Attended	No of Hours Absent	Attendance
24	920423214035	23UBT025	PUVINA JASMINEJ	3	3	3	3	3	3	3	3	3	3	30	0	100
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J	3	3	3	3	3	3	3	3	3	3	30	0	100
26	920423214021	23UBT027	KARANYA N	3	3	3	3	3	3	3	3	3	3	30	0	100
27	920423214042	23UBT028	SHALINI T	3	3	3	3	3	3	3	3	3	3	30	0	100
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	3	3	3	3	3	3	3	3	3	3	30	0	100
29	920423214029	23UBT030	MUKILA K	3	3	3	3	3	3	3	3	3	3	30	0	100
30	920423214001	23UBT031	AKSHAYA R B	3	3	3	3	3	3	3	3	3	3	30	0	100
31	920423214038	23UBT032	RATHI K P	3	3	3	3	3	3	3	3	3	3	30	0	100
32	920423214011	23UBT033	GOWTHAM RAJ R	3	3	3	3	3	3	3	3	3	3	30	0	100
33	920423214043	23UBT034	SUPRIYA D	3	3	3	3	3	3	3	3	3	3	30	0	100
34	920423214030	23UBT035	NAGALAKSHM S	3	3	3	3	3	3	3	3	3	3	30	0	100
35	920423214006	23UBT036	BRINDHA RAJA G	3	3	3	3	3	3	3	3	3	3	30	0	100
36	920423214016	23UBT037	HEMANTH PRAKASH M	3	3	3	3	3	3	0	0	3	3	24	6	80
37	920423214052	23UBT038	YAZHINI D	3	3	3	3	3	3	3	3	3	3	30	0	100
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	3	3	3	3	3	3	3	3	3	3	30	0	100
39	920423214008	23UBT040	DHIVAKARAN K	3	3	3	3	3	3	3	3	3	3	30	0	100
40	920423214040	23UBT041	SANJAYVEERA S	3	3	3	3	3	3	3	3	3	3	30	0	100
41	920423214031	23UBT042	NAVEEN KUMARN	3	3	3	3	3	3	0	0	3	3	24	12	80
42	920423214002	23UBT043	ANANTHA RAJ J	3	3	3	3	3	3	3	3	3	3	30	0	100
43	920423214014	23UBT044	HARI KRISHNAN K	3	3	3	3	3	3	3	3	3	3	30	0	100
44	920423214024	23UBT045	KRISHNA PRIYANKA G	3	3	3	3	3	3	3	3	3	3	30	0	100
45	920423214009	23UBT046	DHIVYA M	0	0	3	3	3	3	3	3	3	3	24	6	80
46	920423214007	23UBT047	DHARSHINI K	3	3	3	3	3	3	3	3	3	3	30	0	100
47	920423214037	23UBT048	RAKSHANA K	3	3	3	3	3	3	3	3	3	3	30	0	100

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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course

On

ALGAL TECHNOLOGY AND APPLICATIONS

06/01/2025 to 10/01/2025

Consolidated Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025		Total Hours Attended	No of Hours Absent	Attendance
48	920423214019	23UBT049	JEYA PRAKASH J	3	3	3	3	3	3	3	3	3	3	30	0	100
49	920423214017	23UBT050	JANANI S	3	3	3	3	3	3	3	3	3	3	30	0	100
50	920423214028	23UBT051	MOHANRAJ K	3	3	3	3	3	3	3	3	3	3	30	0	100
51	920423214049	23UBT052	VISHWAPRIYA V	3	3	3	3	3	3	3	3	3	3	30	0	100
52	920423214022	23UBT053	KARISHMA M	3	3	3	3	3	3	3	3	3	3	30	0	100
53	920423214026	23UBT054	MAHESH S	3	3	3	3	3	3	3	3	3	3	30	0	100

VAP Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

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ALGAL TECHNOLOGY AND APPLICATIONS

06/01/2025 to 10/01/2025

Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025	
			Session	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	920423214025	23UBT001	LALITH RAJ B										
2	920423214015	23UBT002	HARIPRASATH S								Ab		
3	920423214012	23UBT003	HAMSHAD VANI C								Ab		
4	920423214047	23UBT004	VIJAYA RAGAVAN G										
5	920423214033	23UBT006	PORSELVAN.S.G										
6	920423214010	23UBT007	ELAKIYA S R								Ab		
7	920423214051	23UBT008	YAMUNA K										
8	920423214003	23UBT009	APARNA S										
9	920423214050	23UBT010	VIVEHA BALA S										
10	920423214020	23UBT011	JEYA SUGESH A								Ab		
11	920423214034	23UBT012	PRIYADHARSHINI M										
12	920423214044	23UBT013	SWETHA S										
13	920423214039	23UBT014	ROSHINIS								Ab		
14	920423214041	23UBT015	SENTAMIL ARASIC										
15	920423214005	23UBT016	ATCHIAH S										
16	920423214053	23UBT017	YAZHINI G								Ab		
17	920423214048	23UBT018	VIMALA I										
18	920423214046	23UBT019	VEERALAKSHMI V										
19	920423214018	23UBT020	JEEVAASRI S B										
20	920423214032	23UBT021	NAYAANA.S										
21	920423214013	23UBT022	HARI BALAMURUGAN P										
22	920423214023	23UBT023	KAVIYASREE M										
23	920423214004	23UBT024	ARUN ADHITHYAN S										

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Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025	
24	920423214035	23UBT025	PUVINA JASMINEJ										
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J										
26	920423214021	23UBT027	KARANYA N										
27	920423214042	23UBT028	SHALINI T										
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R										
29	920423214029	23UBT030	MUKILA K										
30	920423214001	23UBT031	AKSHAYA R B										
31	920423214038	23UBT032	RATHI K P										
32	920423214011	23UBT033	GOWTHAM RAJ R										
33	920423214043	23UBT034	SUPRIYA D										
34	920423214030	23UBT035	NAGALAKSHM S										
35	920423214006	23UBT036	BRINDHA RAJA G										
36	920423214016	23UBT037	HEMANTH PRAKASH M										
37	920423214052	23UBT038	YAZHINI D										
38	920423214045	23UBT039	SYED SIRAJUTHEEN M										
39	920423214008	23UBT040	DHIVAKARAN K										
40	920423214040	23UBT041	SANJAYVEERA S										
41	920423214031	23UBT042	NAVEEN KUMARN,										
42	920423214002	23UBT043	ANANTHA RAJ J										
43	920423214014	23UBT044	HARI KRISHNAN K										
44	920423214024	23UBT045	KRISHNA PRIYANKA G										
45	920423214009	23UBT046	DHIVYA M										
46	920423214007	23UBT047	DHARSHINI K										
47	920423214037	23UBT048	RAKSHANA K										

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06/01/2025 to 10/01/2025

Attendance

S.No.	REG NO	ROLL NO	Student Name	06.01.2025		07.01.2025		08.01.2025		09.01.2025		10.01.2025	
48	920423214019	23UBT049	JEYA PRAKASH J										
49	920423214017	23UBT050	JANANI S										
50	920423214028	23UBT051	MOHANRAJ K										
51	920423214049	23UBT052	VISHWAPRIYA V										
52	920423214022	23UBT053	KARISHMA M										
53	920423214026	23UBT054	MAHESH S										
	PROGRAMME CO-ORDINATOR SIGNATURE												

Programme Coordinator

HoD/BT

HOD
DEPT. OF BIOTECHNOLOGY
Kamaraj College of Engineering & Technology
VIRUDHUNAGAR.

DEPT. OF BIOTECHNOLOGY
KCET

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Industry Certified Value Added Course
On
ALGAL TECHNOLOGY AND APPLICATIONS
06/01/2025 to 10/01/2025
External Assessment Attendance

S.No.	REG NO	ROLL NO	Student Name	25.01.2025
			Session	AN
1	920423214025	23UBT001	LALITH RAJ B	B. Lalithraj
2	920423214015	23UBT002	HARIPRASATH S	Absent
3	920423214012	23UBT003	HAMSHAD VANI C	C. Hamshad
4	920423214047	23UBT004	VIJAYA RAGAVAN G	
5	920423214033	23UBT006	PORSELVAN.S.G	
6	920423214010	23UBT007	ELAKIYA S R	Attended online due to internship
7	920423214051	23UBT008	YAMUNA K	
8	920423214003	23UBT009	APARNA S	
9	920423214050	23UBT010	VIVEHA BALA S	
10	920423214020	23UBT011	JEYA SUGESH A	
11	920423214034	23UBT012	PRIYADHARSHINI M	
12	920423214044	23UBT013	SWETHA S	
13	920423214039	23UBT014	ROSHINIS	Attended online due to internship
14	920423214041	23UBT015	SENTAMIL ARASI C	
15	920423214005	23UBT016	ATCHIAH S	
16	920423214053	23UBT017	YAZHINI G	G. Yazhini

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On
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06/01/2025 to 10/01/2025
External Assessment Attendance

S.No.	REG NO	ROLL NO	Student Name	25.01.2025
17	920423214048	23UBT018	VIMALA I	Vimala. I
18	920423214046	23UBT019	VEERALAKSHMI V	V. L
19	920423214018	23UBT020	JEEVAASRI S B	Jeevi
20	920423214032	23UBT021	NAYAANA.S	Attended online due to internship
21	920423214013	23UBT022	HARI BALAMURUGAN P	P. Hari Balamurugan
22	920423214023	23UBT023	KAVIYASREE M	Attended online due to internship
23	920423214004	23UBT024	ARUN ADHITHYAN S	S. Arun Adhithyan
24	920423214035	23UBT025	PUVINA JASMINEJ	J. Puvina Jasmine
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J	J. Stisha
26	920423214021	23UBT027	KARANYA N	N. Karanya
27	920423214042	23UBT028	SHALINI T	T. Shalini
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	R. Rajapriyadharshini
29	920423214029	23UBT030	MUKILA K	K. Mukila
30	920423214001	23UBT031	AKSHAYA R B	R B Akshaya
31	920423214038	23UBT032	RATHI K P	K. P. Rathi
32	920423214011	23UBT033	GOWTHAM RAJ R	R. Gowtham Raj
33	920423214043	23UBT034	SUPRIYA D	D. Supriya

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External Assessment Attendance

S.No.	REG NO	ROLL NO	Student Name	25.01.2025
34	920423214030	23UBT035	NAGALAKSHM S	
35	920423214006	23UBT036	BRINDHA RAJA G	
36	920423214016	23UBT037	HEMANTH PRAKASH M	
37	920423214052	23UBT038	YAZHINI D	Attended online due to internship.
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	Attended from Hospital - Online
39	920423214008	23UBT040	DHIVAKARAN K	
40	920423214040	23UBT041	SANJAYVEERA S	
41	920423214031	23UBT042	NAVEEN KUMARN	
42	920423214002	23UBT043	ANANTHA RAJ J	
43	920423214014	23UBT044	HARI KRISHNAN K	
44	920423214024	23UBT045	KRISHNA PRIYANKA G	
45	920423214009	23UBT046	DHIVYA M	
46	920423214007	23UBT047	DHARSHINI K	
47	920423214037	23UBT048	RAKSHANA K	
48	920423214019	23UBT049	JEYA PRAKASH J	
49	920423214017	23UBT050	JANANI S	
50	920423214028	23UBT051	MOHANRAJ K	

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External Assessment Attendance

S.No.	REG NO	ROLL NO	Student Name	25.01.2025
51	920423214049	23UBT052	VISHWAPRIYA V	
52	920423214022	23UBT053	KARISHMA M	
53	920423214026	23UBT054	MAHESH S	

MAP Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

Manager
Sea2Farm,
Ramanathapuram
Mr. R.P.Rajadurai
Jesudoss

HoD/BT

Dr R.Shyam Kumar

Full Name	User Actio	Timestamp
Geetha.K	Joined	1/25/25, 3:08:35 PM
ELAKIYA.S.	Joined	1/25/25, 3:08:35 PM
ELAKIYA.S.	Left	1/25/25, 3:19:32 PM
ELAKIYA.S.	Joined	1/25/25, 3:19:42 PM
SYED SIRAJ	Joined	1/25/25, 3:08:35 PM
SYED SIRAJ	Left	1/25/25, 3:24:20 PM
SYED SIRAJ	Joined	1/25/25, 3:25:15 PM
Karthikum	Joined	1/25/25, 3:08:35 PM
VIMALA (U	Joined	1/25/25, 3:08:35 PM
ROSHINI.S	Joined	1/25/25, 3:08:35 PM
RAJA PRIYA	Joined	1/25/25, 3:08:35 PM
RAJA PRIYA	Left	1/25/25, 3:15:38 PM
RAJA PRIYA	Joined	1/25/25, 3:16:20 PM
RAJA PRIYA	Left	1/25/25, 3:17:54 PM
RAJA PRIYA	Joined	1/25/25, 3:18:32 PM
Nayaana S	Joined	1/25/25, 3:08:35 PM
Nayaana S	Left	1/25/25, 3:19:17 PM
Nayaana S	Joined	1/25/25, 3:19:30 PM
JEYAPRAKA	Joined	1/25/25, 3:09:20 PM
Kaviyasree	Joined	1/25/25, 3:10:14 PM
HARIKRISH	Joined	1/25/25, 3:10:47 PM
HARIKRISH	Left	1/25/25, 3:17:32 PM
HARIKRISH	Joined	1/25/25, 3:17:50 PM
Dhivya M (	Joined	1/25/25, 3:10:50 PM
Dhivya M (	Left	1/25/25, 3:15:31 PM
GOWTHAM	Joined	1/25/25, 3:11:56 PM
SHALINI.T	Joined	1/25/25, 3:12:15 PM
janani.s (U	Joined	1/25/25, 3:12:17 PM
ANANTHA	Joined	1/25/25, 3:12:31 PM
DHIVAKAR	Joined	1/25/25, 3:12:34 PM
HODBT	Joined	1/25/25, 3:12:49 PM
JEYARUBI.I	Joined	1/25/25, 3:12:50 PM
JEYARUBI.I	Left	1/25/25, 3:17:44 PM
MUKILA.K	Joined	1/25/25, 3:12:51 PM
YAZHINI.D	Joined	1/25/25, 3:13:03 PM
YAZHINI.D	Left	1/25/25, 3:21:38 PM
YAZHINI.D	Joined	1/25/25, 3:22:22 PM
HEMANTH	Joined	1/25/25, 3:13:03 PM
S.B.Jeevaa	Joined	1/25/25, 3:13:26 PM
AKILA.K	Joined	1/25/25, 3:14:21 PM
AKILA.K	Left	1/25/25, 3:23:59 PM
BRINDHA F	Joined	1/25/25, 3:14:24 PM
BRINDHA F	Left	1/25/25, 3:14:44 PM
BRINDHA F	Joined	1/25/25, 3:16:00 PM
VEERALAK	Joined	1/25/25, 3:14:39 PM
SANJAYVEI	Joined	1/25/25, 3:15:02 PM

Aparna (U	Joined	1/25/25, 3:15:23 PM
RAKSHANA	Joined	1/25/25, 3:15:27 PM
PRIYADHA	Joined	1/25/25, 3:16:33 PM
Vijayaraga	Joined	1/25/25, 3:16:38 PM
AKSHAYA.I	Joined	1/25/25, 3:16:43 PM
Porselvan	Joined	1/25/25, 3:16:45 PM
S.ARUN AI	Joined	1/25/25, 3:17:04 PM
VIVEHA BA	Joined	1/25/25, 3:17:05 PM
K.Mohanra	Joined	1/25/25, 3:17:20 PM
KARISHMA	Joined	1/25/25, 3:17:29 PM
P.Hari Bala	Joined	1/25/25, 3:17:36 PM
k. rakshan	Joined	1/25/25, 3:17:41 PM
Mahesh (U	Joined	1/25/25, 3:17:42 PM
Mahesh (U	Left	1/25/25, 3:20:21 PM
Dhivya M (	Joined	1/25/25, 3:17:52 PM
Dhivya M (	Left	1/25/25, 3:30:01 PM
KARANYA.	Joined	1/25/25, 3:18:14 PM
hamshad v	Joined	1/25/25, 3:18:31 PM
SENTAMIL	Joined	1/25/25, 3:18:37 PM
NAGALAKS	Joined	1/25/25, 3:18:41 PM
SUPRIYA.D	Joined	1/25/25, 3:19:13 PM
KRISHNA P	Joined	1/25/25, 3:19:51 PM
Marisha Cl	Joined	1/25/25, 3:20:10 PM
ATCHIAH.S	Joined	1/25/25, 3:20:52 PM
YAMUNA.I	Joined	1/25/25, 3:21:11 PM
VISHWAPR	Joined	1/25/25, 3:21:13 PM
VISHWAPR	Left	1/25/25, 3:25:47 PM
VISHWAPR	Joined	1/25/25, 3:25:53 PM
SWETHA.S	Joined	1/25/25, 3:21:48 PM
PUVINA JA	Joined	1/25/25, 3:21:53 PM
magma pa	Joined	1/25/25, 3:22:25 PM
magma pa	Left	1/25/25, 3:23:12 PM
magma pa	Joined	1/25/25, 3:23:57 PM
magma pa	Left	1/25/25, 3:25:52 PM
LALITH RA	Joined	1/25/25, 3:22:45 PM
DHARSHIN	Joined	1/25/25, 3:23:36 PM
RATHI.K.P	Joined	1/25/25, 3:23:58 PM
YAZHINI.G	Joined	1/25/25, 3:25:58 PM
Mahesh S	Joined	1/25/25, 3:26:20 PM
N.Naveen	Joined	1/25/25, 3:28:48 PM
jeya suges	Joined	1/25/25, 3:29:52 PM
Dhivya M (	Joined	1/25/25, 3:30:47 PM

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Review: External Exam: VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

Respondent

17 ELAKIYA.S.R

15:55
Time to complete

44/50
Points

1. Name * Score / 0 pts

Elakiya

2. Roll Number (23UBT0..) * Score / 0 pts

23UBT007

3. Register Number (9204232140..) * Score / 0 pts

920423214010

4. Date of Examination * Score / 0 pts

1/25/2025

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. 1. SRC stands for *

- [x] a) Semi refined Carrageenan ✓
- [ ] b) Semi refined Agar
- [ ] c) Sargassum rich consortium
- [ ] d) Semi refined cyanobacteria

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

6. 2. Green algae are abundant in *

- [x] a) Intertidal zone ✓
- [ ] b) Mesopelagic zone
- [ ] c) Continental shelf
- [ ] d) Continental drift

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. 3. Spot the non-native seaweed of India *

- [ ] a) Sargassum sp
- [ ] b) Gelidium Sp
- [x] c) Kappaphycus Sp ✓
- [ ] d) Turbeneria Sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

8. 4. Central nodel institute working on algal research *

- a) CMFRI
- b) CFTRI
- c) CSMCRI ✓
- d) CECRI

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under *

- a) State agriculture department
- b) State fisheries department ✓
- c) State coastal department
- d) State gulf of mannar development department

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

10. 6. Agar Agar was extracted from *

- a) Ulva sp
- b) Kappaphycus sp
- c) Gelidium sp ✓
- d) Sargassam sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

11. 7. Spot the High protein algae *

- A) Sargassam sp
- B) Gelidium sp ✓
- C) Kappaphycus sp
- D) Ulva sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. *

- a) Pepsi seaweed ✓
- b) Aquaagri seaweed
- c) Grand seaweed
- d) Itc seaweed

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

13. 9. Agar recovery from red algae extract gel is done by *

- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

14. 10. E406 was assigned to *

- a) Sodium alginate
- b) Agar agar ✓
- c) Caragennan
- d) Alginic acid

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

15. 11. If Agar was value added for Islamic population , it should be mandatorily *

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

16. 12. Product to be sold among jew people should hold *

- a) Kosher certificate ✓
- b) ISO certificate
- c) Fssai certificate
- d) Halal certificate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

17. 13. ISO for food products _____ *

- a) ISO 14000
- b) ISO 22000 ✓
- c) ISO 12000
- d) ISO 9001

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

18. 14. Alginates are extracted by *

- a) Freeze drying
- b) Acid precipitation ✓
- c) sedimentation
- d) Ultrafiltration

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

19. 15. Kappaphycus seaweed seeds are developed using *

- a) Raft method
- b) Micropropagation ✓
- c) PTC
- d) Cell line culture

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu *

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method ✓
- d) Float tube method

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

21. 17. Alkali used in alginate extraction is *

- a) Sodium carbonate ✓
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

22. 18. Strong Agar is extracted from *

- a) Gelidium Sp ✓
- b) Turbeneria Sp
- c) Gracilaria Sp
- d) Sargassum Sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

23. 19. On raft cultivation distance between two seedling rope should be _____ *

- a) 6 inches ✓
- b) 12 inches
- c) 3inches
- d) 24 inches

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days *

- a) 55
- b) 45 ✓
- c) 65
- d) 35

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

25. 21. Widely seaweeds are rich in _____ *

- a) Vitamins
- b) Proteins
- c) Minerals
- d) Carbohydrate ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India *

- a) ISO
- b) FSSAI ✓
- c) Halal
- d) GMP

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

27. 23. Seaweeds get attached to the marine base using *

- a) Roots
- b) Blades
- c) Gas bladder
- d) Holdfast ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

28. 24. Blue green algae come under *

- a) Microalgae ✓
- b) Macroalgae
- c) Fungi
- d) MicroPlant

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

29. 25. Local name of Turbeneria Sp seaweed *

- a) Kattai korai
- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi ✓

Programme Coordinators
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Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Review: External Exam: VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

Respondent

42 SWETHA.S

26:05
Time to complete

46/50
Points

1. Name * Score / 0 pts

S.swetha

2. Roll Number (23UBT0..) * Score / 0 pts

23UBT013

3. Register Number (9204232140..) * Score / 0 pts

920423214044

4. Date of Examination * Score / 0 pts

1/25/2025

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. 1. SRC stands for *

- [x] a) Semi refined Carrageenan ✓
- [ ] b) Semi refined Agar
- [ ] c) Sargassum rich consortium
- [ ] d) Semi refined cyanobacteria

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

6. 2. Green algae are abundant in *

- [x] a) Intertidal zone ✓
- [ ] b) Mesopelagic zone
- [ ] c) Continental shelf
- [ ] d) Continental drift

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. 3. Spot the non-native seaweed of India *

- [ ] a) Sargassum sp
- [ ] b) Gelidium Sp
- [x] c) Kappaphycus Sp ✓
- [ ] d) Turbeneria Sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

8. 4. Central nodel institute working on algal research *

- a) CMFRI
- b) CFTRI
- c) CSMCRI ✓
- d) CECRI

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under *

- a) State agriculture department
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- c) State coastal department
- d) State gulf of mannar development department

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

10. 6. Agar Agar was extracted from *

- a) Ulva sp
- b) Kappaphycus sp
- c) Gelidium sp ✓
- d) Sargassam sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

11. 7. Spot the High protein algae *

- A) Sargassam sp
- B) Gelidium sp ✓
- C) Kappaphycus sp
- D) Ulva sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. *

- a) Pepsi seaweed ✓
- b) Aquaagri seaweed
- c) Grand seaweed
- d) Itc seaweed

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

13. 9. Agar recovery from red algae extract gel is done by *

- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

14. 10. E406 was assigned to *

- a) Sodium alginate
- b) Agar agar ✓
- c) Caragennan
- d) Alginic acid

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

15. 11. If Agar was value added for Islamic population , it should be mandatorily *

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

16. 12. Product to be sold among jew people should hold *

- a) Kosher certificate ✓
- b) ISO certificate
- c) Fssai certificate
- d) Halal certificate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

17. 13. ISO for food products _____ *

- a) ISO 14000
- b) ISO 22000 ✓
- c) ISO 12000
- d) ISO 9001

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

18. 14. Alginates are extracted by *

- a) Freeze drying
- b) Acid precipitation ✓
- c) sedimentation
- d) Ultrafiltration

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

19. 15. Kappaphycus seaweed seeds are developed using *

- a) Raft method
- b) Micropropagation ✓
- c) PTC
- d) Cell line culture

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu *

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method ✓
- d) Float tube method

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

21. 17. Alkali used in alginate extraction is *

- a) Sodium carbonate ✓
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

22. 18. Strong Agar is extracted from *

- a) Gelidium Sp ✓
- b) Turbeneria Sp
- c) Gracilaria Sp
- d) Sargassum Sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

23. 19. On raft cultivation distance between two seedling rope should be _____ *

- a) 6 inches ✓
- b) 12 inches
- c) 3inches
- d) 24 inches

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days *

- a) 55
- b) 45 ✓
- c) 65
- d) 35

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

25. 21. Widely seaweeds are rich in _____ *

- a) Vitamins
- b) Proteins
- c) Minerals
- d) Carbohydrate ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India *

- a) ISO
- b) FSSAI ✓
- c) Halal
- d) GMP

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

27. 23. Seaweeds get attached to the marine base using *

- a) Roots
- b) Blades
- c) Gas bladder
- d) Holdfast ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

28. 24. Blue green algae come under *

- a) Microalgae ✓
- b) Macroalgae
- c) Fungi
- d) MicroPlant

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

29. 25. Local name of Turbeneria Sp seaweed *

- a) Kattai korai
- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi ✓

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Review: External Exam: VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

Respondent

14 NAYAANA.S

16:46
Time to complete

36/50
Points

1. Name * Score / 0 pts

NAYAANA S

2. Roll Number (23UBT0..) * Score / 0 pts

23UBT021

3. Register Number (9204232140..) * Score / 0 pts

920423214032

4. Date of Examination * Score / 0 pts

1/25/2025

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. 1. SRC stands for *

- [x] a) Semi refined Carrageenan ✓
- [ ] b) Semi refined Agar
- [ ] c) Sargassum rich consortium
- [ ] d) Semi refined cyanobacteria

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

6. 2. Green algae are abundant in *

- [x] a) Intertidal zone ✓
- [ ] b) Mesopelagic zone
- [ ] c) Continental shelf
- [ ] d) Continental drift

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. 3. Spot the non-native seaweed of India *

- [ ] a) Sargassum sp
- [ ] b) Gelidium Sp
- [x] c) Kappaphycus Sp ✓
- [ ] d) Turbeneria Sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

8. 4. Central nodel institute working on algal research *

- [x] a) CMFRI
- [ ] b) CFTRI
- [ ] c) CSMCRI ✓
- [ ] d) CECRI

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under *

- [ ] a) State agriculture department
- [ ] b) State fisheries department ✓
- [ ] c) State coastal department
- [x] d) State gulf of mannar development department

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

10. 6. Agar Agar was extracted from *

- [ ] a) Ulva sp
- [ ] b) Kappaphycus sp
- [x] c) Gelidium sp ✓
- [ ] d) Sargassam sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

11. 7. Spot the High protein algae *

- A) Sargassam sp
- B) Gelidium sp ✓
- C) Kappaphycus sp
- D) Ulva sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. *

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✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

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- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

14. 10. E406 was assigned to *

- a) Sodium alginate
- b) Agar agar ✓
- c) Caragennan
- d) Alginic acid

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

15. 11. If Agar was value added for Islamic population , it should be mandatorily *

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

16. 12. Product to be sold among jew people should hold *

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- d) Halal certificate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

17. 13. ISO for food products _____ *

- a) ISO 14000
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0 / 2 pts
Auto-graded

18. 14. Alginates are extracted by *

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✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

19. 15. Kappaphycus seaweed seeds are developed using *

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2 / 2 pts
Auto-graded

20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu *

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method ✓
- d) Float tube method

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

21. 17. Alkali used in alginate extraction is *

- a) Sodium carbonate ✓
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

22. 18. Strong Agar is extracted from *

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- b) Turbeneria Sp
- c) Gracilaria Sp
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✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

23. 19. On raft cultivation distance between two seedling rope should be _____ *

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2 / 2 pts
Auto-graded

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- a) 55
- b) 45 ✓
- c) 65
- d) 35

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

25. 21. Widely seaweeds are rich in _____ *

- a) Vitamins
- b) Proteins
- c) Minerals
- d) Carbohydrate ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India *

- a) ISO
- b) FSSAI ✓
- c) Halal
- d) GMP

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

27. 23. Seaweeds get attached to the marine base using *

- a) Roots
- b) Blades
- c) Gas bladder
- d) Holdfast ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

28. 24. Blue green algae come under *

- a) Microalgae ✓
- b) Macroalgae
- c) Fungi
- d) MicroPlant

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2 / 2 pts
Auto-graded

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- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi ✓

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HoD/BT
Dr R.Shyam Kumar

Review: External Exam: VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

Respondent

12 AKSHAYA.R.B

15:28
Time to complete

40/50
Points

1. Name * Score / 0 pts

R.B.AKSHAYA

2. Roll Number (23UBT0..) * Score / 0 pts

23UBT031

3. Register Number (9204232140..) * Score / 0 pts

920423214001

4. Date of Examination * Score / 0 pts

1/25/2025

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. 1. SRC stands for *

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- ( ) c) Sargassum rich consortium
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2 / 2 pts
Auto-graded

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- ( ) b) Mesopelagic zone
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- ( ) d) Continental drift

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. 3. Spot the non-native seaweed of India *

- ( ) a) Sargassum sp
- ( ) b) Gelidium Sp
- (●) c) Kappaphycus Sp ✓
- ( ) d) Turbeneria Sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

8. 4. Central nodel institute working on algal research *

- a) CMFRI
- b) CFTRI
- c) CSMCRI ✓
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✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under *

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- b) State fisheries department ✓
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✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

10. 6. Agar Agar was extracted from *

- a) Ulva sp
- b) Kappaphycus sp
- c) Gelidium sp ✓
- d) Sargassam sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

11. 7. Spot the High protein algae *

- A) Sargassam sp
- B) Gelidium sp ✓
- C) Kappaphycus sp
- D) Ulva sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. *

- a) Pepsi seaweed ✓
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- c) Grand seaweed
- d) Itc seaweed

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

13. 9. Agar recovery from red algae extract gel is done by *

- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

14. 10. E406 was assigned to *

- a) Sodium alginate
- b) Agar agar ✓
- c) Caragennan
- d) Alginic acid

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

15. 11. If Agar was value added for Islamic population , it should be mandatorily *

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

16. 12. Product to be sold among jew people should hold *

- a) Kosher certificate ✓
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- d) Halal certificate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

17. 13. ISO for food products _____ *

- a) ISO 14000
- b) ISO 22000 ✓
- c) ISO 12000
- d) ISO 9001

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

18. 14. Alginates are extracted by *

- a) Freeze drying
- b) Acid precipitation ✓
- c) sedimentation
- d) Ultrafiltration

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

19. 15. Kappaphycus seaweed seeds are developed using *

- a) Raft method
- b) Micropropagation ✓
- c) PTC
- d) Cell line culture

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu *

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method ✓
- d) Float tube method

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

21. 17. Alkali used in alginate extraction is *

- a) Sodium carbonate ✓
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

22. 18. Strong Agar is extracted from *

- a) Gelidium Sp ✓
- b) Turbeneria Sp
- c) Gracilaria Sp
- d) Sargassum Sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

23. 19. On raft cultivation distance between two seedling rope should be _____ *

- a) 6 inches ✓
- b) 12 inches
- c) 3inches
- d) 24 inches

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days *

- a) 55
- b) 45 ✓
- c) 65
- d) 35

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

25. 21. Widely seaweeds are rich in _____ *

- a) Vitamins
- b) Proteins
- c) Minerals
- d) Carbohydrate ✓

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India *

- (●) a) ISO
- ( ) b) FSSAI ✓
- ( ) c) Halal
- ( ) d) GMP

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

27. 23. Seaweeds get attached to the marine base using *

- ( ) a) Roots
- ( ) b) Blades
- ( ) c) Gas bladder
- (●) d) Holdfast ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

28. 24. Blue green algae come under *

- (●) a) Microalgae ✓
- ( ) b) Macroalgae
- ( ) c) Fungi
- ( ) d) MicroPlant

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

29. 25. Local name of Turbeneria Sp seaweed *

- a) Kattai korai
- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi ✓

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Review: External Exam: VAP on ALGAL TECHNOLOGY AND APPLICATIONS- 2024-25 Even

Respondent

8 SHALINI.T

15:35
Time to complete

38/50
Points

1. Name * Score / 0 pts

Shalini T

2. Roll Number (23UBT0..) * Score / 0 pts

23UBT028

3. Register Number (9204232140..) * Score / 0 pts

920423214042

4. Date of Examination * Score / 0 pts

1/25/2025

Multiple Choice Questions. Answer all questions.

Each question carries 2 marks. (2 x 25 = 50 Marks)

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. 1. SRC stands for *

- [x] a) Semi refined Carrageenan ✓
- [ ] b) Semi refined Agar
- [ ] c) Sargassum rich consortium
- [ ] d) Semi refined cyanobacteria

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

6. 2. Green algae are abundant in *

- [x] a) Intertidal zone ✓
- [ ] b) Mesopelagic zone
- [ ] c) Continental shelf
- [ ] d) Continental drift

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. 3. Spot the non-native seaweed of India *

- [ ] a) Sargassum sp
- [ ] b) Gelidium Sp
- [x] c) Kappaphycus Sp ✓
- [ ] d) Turbeneria Sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

8. 4. Central nodel institute working on algal research *

- a) CMFRI
- b) CFTRI
- c) CSMCRI ✓
- d) CECRI

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under *

- a) State agriculture department
- b) State fisheries department ✓
- c) State coastal department
- d) State gulf of mannar development department

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

10. 6. Agar Agar was extracted from *

- a) Ulva sp
- b) Kappaphycus sp
- c) Gelidium sp ✓
- d) Sargassam sp

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

11. 7. Spot the High protein algae *

- A) Sargassam sp
- B) Gelidium sp ✓
- C) Kappaphycus sp
- D) Ulva sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. *

- a) Pepsi seaweed ✓
- b) Aquaagri seaweed
- c) Grand seaweed
- d) Itc seaweed

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

13. 9. Agar recovery from red algae extract gel is done by *

- a) Alkali precipitation
- b) Acid precipitation
- c) Centrifugal force
- d) Freeze thawing ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

14. 10. E406 was assigned to *

- a) Sodium alginate
- b) Agar agar ✓
- c) Caragennan
- d) Alginic acid

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

15. 11. If Agar was value added for Islamic population , it should be mandatorily *

- a) Kosher certified
- b) Fssai certified
- c) HACCP certified
- d) HALAL certified ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

16. 12. Product to be sold among jew people should hold *

- a) Kosher certificate ✓
- b) ISO certificate
- c) Fssai certificate
- d) Halal certificate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

17. 13. ISO for food products _____ *

- a) ISO 14000
- b) ISO 22000 ✓
- c) ISO 12000
- d) ISO 9001

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

18. 14. Alginates are extracted by *

- a) Freeze drying
- b) Acid precipitation ✓
- c) sedimentation
- d) Ultrafiltration

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

19. 15. Kappaphycus seaweed seeds are developed using *

- a) Raft method
- b) Micropropagation ✓
- c) PTC
- d) Cell line culture

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2 / 2 pts
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20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu *

- a) Tubular method
- b) Deep stone method
- c) Bamboo raft method ✓
- d) Float tube method

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

21. 17. Alkali used in alginate extraction is *

- a) Sodium carbonate ✓
- b) Sodium bicarbonate
- c) Sodium hydroxide
- d) Sodium sulphate

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

22. 18. Strong Agar is extracted from *

- a) Gelidium Sp ✓
- b) Turbeneria Sp
- c) Gracilaria Sp
- d) Sargassum Sp

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

23. 19. On raft cultivation distance between two seedling rope should be _____ *

- (●) a) 6 inches ✓
- ( ) b) 12 inches
- ( ) c) 3inches
- ( ) d) 24 inches

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days *

- ( ) a) 55
- (●) b) 45 ✓
- ( ) c) 65
- ( ) d) 35

✗ **Incorrect** 0/2 Points

0 / 2 pts
Auto-graded

25. 21. Widely seaweeds are rich in _____ *

- (●) a) Vitamins
- ( ) b) Proteins
- ( ) c) Minerals
- ( ) d) Carbohydrate ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

26. 22. Agar food grade material should posses the following mandate certificate to be sold in India *

- a) ISO
- b) FSSAI ✓
- c) Halal
- d) GMP

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2 / 2 pts
Auto-graded

27. 23. Seaweeds get attached to the marine base using *

- a) Roots
- b) Blades
- c) Gas bladder
- d) Holdfast ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

28. 24. Blue green algae come under *

- a) Microalgae ✓
- b) Macroalgae
- c) Fungi
- d) MicroPlant

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

29. 25. Local name of Turbeneria Sp seaweed *

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- b) Malli korai
- c) Pepsi paasi
- d) Pakoda paasi ✓

Programme Coordinators
Dr K.Geetha
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HoD/BT
Dr R.Shyam Kumar

Responses Overview

Active

Responses	Average Score	Average Time
52	34.5	16:49

1. Name (0 point)

52
Responses

Latest Responses
"Yazhini. D"
"N.Naveen kumar"
"HAMSHAD VANI.C"
...

2 respondents (4%) answered S for this question.

Update

2. Roll Number (23UBT0..) (0 point)

52
Responses

Latest Responses
"23ubt038"
"23UBT042"
"23UBT003"
...

1 respondents (2%) answered 23UBT054 for this question.

Update

3. Register Number (9204232140..) (0 point)

52
Responses

Latest Responses
"920423214052"
"920423214031"
"920423214012"
...

1 respondents (2%) answered 28 for this question. Update

920423214032 920423214051 920423214035 920423214053
920423214027 920423214022 920423214016 920423214039
920423214003 920423214036 28 92042321026 920423214042
920423214033 920423214040 920423214002 920423214001
920423214014 920423214010 920423214021

4. Date of Examination (0 point)

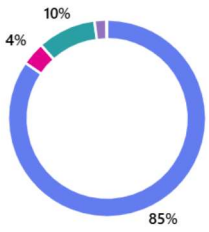
52
Responses

Latest Responses
"2025-01-25"
"2025-01-25"
"2025-01-25"
...

5. 1. SRC stands for (2 points)

85% of respondents answered this question correctly.

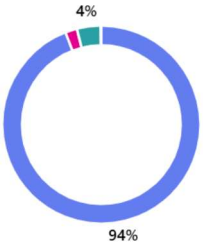
a) Semi refined Carrageenan	44 ✓
b) Semi refined Agar	2
c) Sargassum rich consortium	5
d) Semi refined cyanobacteria	1



6. 2. Green algae are abundant in (2 points)

94% of respondents answered this question correctly.

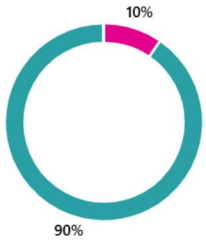
a) Intertidal zone	49 ✓
b) Mesopelagic zone	1
c) Continental shelf	2
d) Continental drift	0



7. 3. Spot the non-native seaweed of India (2 points)

90% of respondents answered this question correctly.

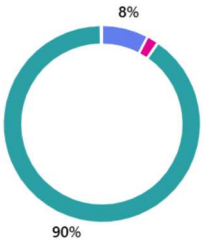
a) Sargassum sp	0
b) Gelidium Sp	5
c) Kappaphycus Sp	47 ✓
d) Turbeneria Sp	0



8. 4. Central nodel institute working on algal research (2 points)

90% of respondents answered this question correctly.

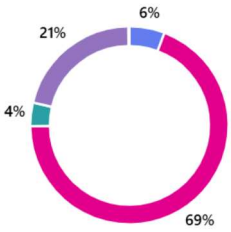
a) CMFRI	4
b) CFTRI	1
c) CSMCRI	47 ✓
d) CECRI	0



9. 5. Model agar and carrageenan extraction unit at mandapam Tamilnadu was governed under (2 points)

69% of respondents answered this question correctly.

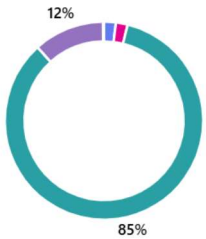
a) State agriculture department	3
b) State fisheries department	36 ✓
c) State coastal department	2
d) State gulf of mannar development department	11



10. 6. Agar Agar was extracted from (2 points)

85% of respondents answered this question correctly.

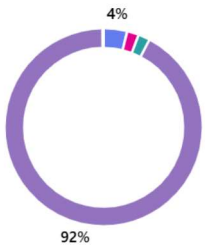
a) Ulva sp	1
b) Kappaphycus sp	1
c) Gelidium sp	44 ✓
d) Sargassam sp	6



11. 7. Spot the High protein algae (2 points)

2% of respondents answered this question correctly.

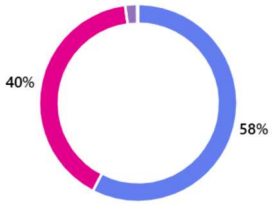
A) Sargassam sp	2
B) Gelidium sp	1 ✓
C) Kappaphycus sp	1
D) Ulva sp	48



12. 8. Kappaphycus seaweed is also termed us _____ , based on its patent. (2 points)

58% of respondents answered this question correctly.

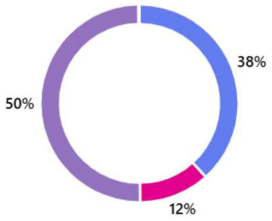
a) Pepsi seaweed	30 ✓
b) Aquaagri seaweed	21
c) Grand seaweed	0
d) Itc seaweed	1



13. 9. Agar recovery from red algae extract gel is done by (2 points)

50% of respondents answered this question correctly.

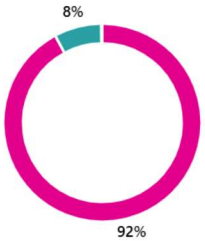
a) Alkali precipitation	20
b) Acid precipitation	6
c) Centrifugal force	0
d) Freeze thawing	26 ✓



14. 10. E406 was assigned to (2 points)

92% of respondents answered this question correctly.

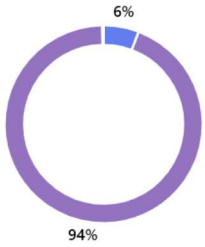
a) Sodium alginate	0
b) Agar agar	48 ✓
c) Caragennan	4
d) Alginic acid	0



15. 11. If Agar was value added for Islamic population , it should be mandatorily (2 points)

94% of respondents answered this question correctly.

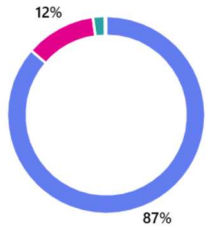
a) Kosher certified	3	
b) Fssai certified	0	
c) HACCP certified	0	
d) HALAL certified	49	✓



16. 12. Product to be sold among jew people should hold (2 points)

87% of respondents answered this question correctly.

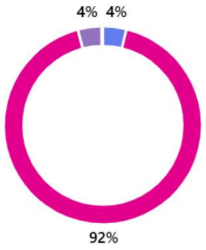
a) Kosher certificate	45	✓
b) ISO certificate	6	
c) Fssai certificate	1	
d) Halal certificate	0	



17. 13. ISO for food products _____ (2 points)

92% of respondents answered this question correctly.

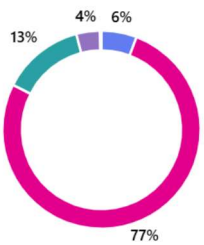
a) ISO 14000	2	
b) ISO 22000	48	✓
c) ISO 12000	0	
d) ISO 9001	2	



18. 14. Alginates are extracted by (2 points)

77% of respondents answered this question correctly.

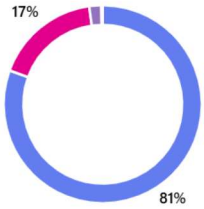
a) Freeze drying	3	
b) Acid precipitation	40	✓
c) sedimentation	7	
d) Ultrafiltration	2	



19. 15. Kappaphycus seaweed seeds are developed using (2 points)

17% of respondents answered this question correctly.

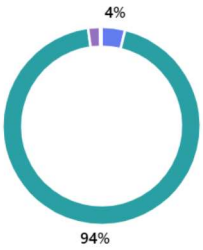
a) Raft method	42	
b) Micropropagation	9	✓
c) PTC	0	
d) Cell line culture	1	



20. 16. _____ is high yielding Kappaphycus culturing methodology followed in Tamilnadu (2 points)

94% of respondents answered this question correctly.

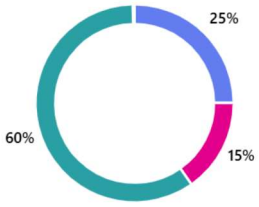
a) Tubular method	2	
b) Deep stone method	0	
c) Bamboo raft method	49	✓
d) Float tube method	1	



21. 17. Alkali used in alginate extraction is (2 points)

25% of respondents answered this question correctly.

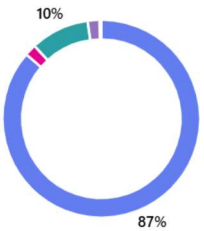
a) Sodium carbonate	13	✓
b) Sodium bicarbonate	8	
c) Sodium hydroxide	31	
d) Sodium sulphate	0	



22. 18. Strong Agar is extracted from (2 points)

87% of respondents answered this question correctly.

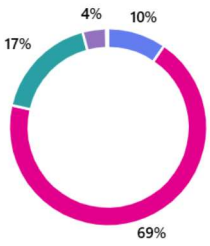
a) Gelidium Sp	45	✓
b) Turbeneria Sp	1	
c) Gracilaria Sp	5	
d) Sargassum Sp	1	



23. 19. On raft cultivation distance between two seedling rope should be _____ (2 points)

10% of respondents answered this question correctly.

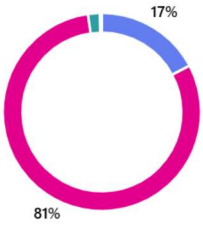
a) 6 inches	5	✓
b) 12 inches	36	
c) 3inches	9	
d) 24 inches	2	



24. 20. Cultivation period of kappaphycus sp on raft will last for _____ days (2 points)

81% of respondents answered this question correctly.

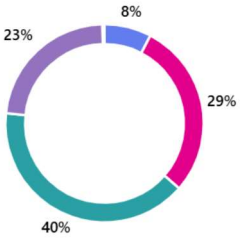
a) 55	9	
b) 45	42	✓
c) 65	1	
d) 35	0	



25. 21. Widely seaweeds are rich in _____ (2 points)

23% of respondents answered this question correctly.

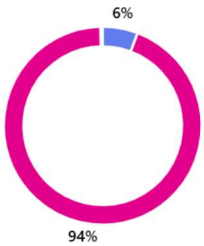
a) Vitamins	4	
b) Proteins	15	
c) Minerals	21	
d) Carbohydrate	12	✓



26. 22. Agar food grade material should posses the following mandate certificate to be sold in India (2 points)

94% of respondents answered this question correctly.

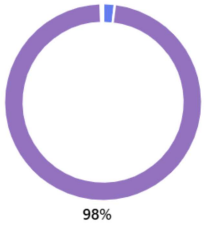
a) ISO	3	
b) FSSAI	49	✓
c) Halal	0	
d) GMP	0	



27. 23. Seaweeds get attached to the marine base using (2 points)

98% of respondents answered this question correctly.

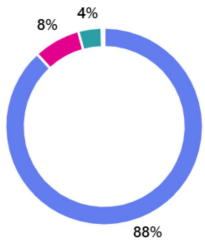
a) Roots	1	
b) Blades	0	
c) Gas bladder	0	
d) Holdfast	51	✓



28. 24. Blue green algae come under (2 points)

88% of respondents answered this question correctly.

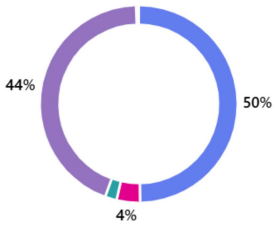
a) Microalgae	46	✓
b) Macroalgae	4	
c) Fungi	2	
d) MicroPlant	0	



29. 25. Local name of Turbeneria Sp seaweed (2 points)

44% of respondents answered this question correctly.

a) Kattai korai	26	
b) Malli korai	2	
c) Pepsi paasi	1	
d) Pakoda paasi	23	✓



Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

DATE:

NAME: S. HARIPRASATH

Roll no: 23UBT002

Register no: 9204232140015

Program Name: Algal technology and Applications

Duration of the program - 06/01/25 - 10/01/25

Title Report on value added course

7/10

21/1/25

On the second day we were given the insight of the commerce of the seaweed industry. after the theory session, afternoon we headed to the lab to extract agar from the seaweed called sargassum, with the guidance of resource person we created the agar extract and let it to dry for a day for agar sodium alginate

On Day 3, we were taken to rameshwaram, CISR lab where we learnt about the research ongoing on sea weed by indian goverment, then we headed to a coast where the resource person teached us how to do seaweed farm, and cultivation. On Day 4, we were taught to extract value addition products and with the extracted agar we proceeded to do the seaweed based product

The value added course based on algal technology & organized by department of biotechnology was really informative and gave a clear outsight on this particular domain in the biotech area. This gave an idea on how the impact of Seaweed and algal technology is on our world. This was an five day course which started off with an introduction to algae and its classifications

On the afternoon of Day 1 we got an idea about the process of a seaweed is cultivated and how the business is done in this industry

REPORT ON VALUE-ADDED COURSE : ALGAL TECHNOLOGY

NAME: A. JEYA SUGESH
ROLL NO: 23UBT011
REG NO: 920423214020
PROGRAM NAME: BIO-TECHNOLOGY

ORGANIZED BY : DEPARTMENT OF BIOTECHNOLOGY

DURATION: JANUARY 6, 2025 TO JANUARY 10, 2025

MODE OF DELIVERY : OFFLINE

Our department of bio-technology Organized a five days value added course on the algal technology, focusing on the innovative applications of algae in various industries such as bio-fuels, Pharmaceticals and environmental management. This course is to get an idea of technological advancement and sustainable potential of algal system

8/10

10/1/25

On day 1, we started with an orientation Program with all our department staffs. And the first day of classes were fully handled by Mr. Selva Kumar sir. who is an expert in algae field and algae cultivation field. on first day we learnt about the basics of algae

on day 2, we started our journey with Mr. jesudas sir who is running a company called Sea2farm. And he is a experienced expert in the algae field. He taught us about the types of algae and which fields they have been used and the methods of cultivation. and afternoon we had a practical session and we worked on algae on us own and we extracted agar agar.

on day 3 we went for an IV to Rameshwaram and there we interacted with the experts and Dr. Dinesh kumar scientist working on algae field in central goverment. and then we went to the algae cultivation area and we kindly explored many useful things.

on day 4 we should develope a product on algae with the things we learned from the value added course. and we should display it.

Report on Value Added Course

Name : Ekakiya

Roll no: 23ubt007

Register no.: 920423214010

Program Name: Algal Technology and Applications

Duration : 5 days

DATE : 10.01.2025.

8/10

Algal Technology and Applications.

Day 1

On January 6th, the course began with the guidance of the people from the industry itself. A brief and clean introduction to algae was provided with the help of the industry people. The speakers were from the ~~Fisheries~~ algae companies all the way from Ramanathapuram. The first day started with a proper inaugral session and a basic overview of algae and it's types was given.

Day 2

On the second day of the course, more deep concepts were discussed regarding algae technology and the methods of cultivation, production and commercialized. More generalised and real-world discussions were included along with the information of how various types of seaweed are extracted and used in business across India.

Day 3

On January 8th, we were able to experience and understand the whole situation in an industry. Visiting the places the government provided for research purposes were really helpful. Meeting people working in the field of seaweed production. The schedule also included the session of learning the basic concept of the 'raft' method of cultivating seaweeds. The marine algal research station in Ramanathapuram also provided a lot of current informations.

Day 4

On the 9th of January, we worked practically in laboratory with the seaweed samples. Experimented with a simple protocol of extraction from different seaweeds. Most importantly, it made it easy to learn the applications of algae in various fields like medical, agri, etc. Helped to create an awareness about the blooming technology and its applications.

VALUE ADDED COURSE

ALGAL TECHNOLOGY AND APPLICATIONS.

DATE	: 10.01.2025
NAME	: Hamshad vani.c
ROLL NO	: 23UBT003
REGISTER NO	: 920423214012
PROGRAM NAME	: Algal technology & applications
TITLE :	Report on value added course.

9/10

20.1.25

The value added course is a credit based course. Discussing on the topic of Algal technology & seaweed. It's a 5-day course.

Day 1: In the first day, inagration of the course has started and introduction of algae and seaweed has been taught by the professors. Basic information and general knowledge about the macroalgae has been brigly explained by one consulting faculty.

Day 2: In the second day the proces of extraction of seaweed has been explained. Diffrent types of seaweed extraction has been taught by the professor who is also the owner of seaq farm company. In afternoon, hands-on-session regarding to the extraction of seaweed were performed in the laboratory.

Teams were formed and extraction of Agar, sodium alginate, carrageenan were performed.

Day 3: On the 3rd Day, field trip were conducted to rameswaram to known about the knowledge of seedling the seaweed and harresting the seaweed. On the journey we were taken to the CSMCRI center about marine algal technology to known about the depth of marine technology and we visited the fishery department were we saw the small scale formentor, centrifuging vessel and freeze and dry compartment.

Day 5: paper presentation, Advertisment, products, poster making were made using seaweed extracted thickening agents such as agar, sodium alginate and carrageenan and presented infront of Dignitaries.

Day 4: On the 4th day, product improvement ideas, business related to seaweed and company offers related to seaweed were discussed.

Report on value added program

Date : 10.1.25
Name : Aparna
Roll no : 23UBT009
Register no : 920423214003
Program name : Algal technolognology and application
Duration of the program : January 6, 2025 - January 10, 2025

10/10

Introduction :

The value added program on algae technology offered an in-depth exploration into the cultivation, processing and product development of algae & seaweed. Spanning 5 days, this program combined theoretical learning with practical experiences, emphasing algae's poterdion as a sustainable resource in various industries, pharmaceuticals, food and biotechnonology.

Day 1 :

Introduction to algae technology with an overview of algae technology, including its classification & applications across different fields. We were introduced to the increasing global demand foo algae, its resource development and its diverse uses in sectors like biofuels, food products & cosmetics. A special focus was placed on the different types of

algae, such as chlorophyta & phaeophycae, & 2 primary methods of cultivation: Indoor & outdoor. It also highlighted the environmental sustainability of algae & its role in addressing global resource challanges.

Day 2:

On the second day, we delved into the health of seaweed, common diseases affecting algae and the current research on algae in india. The day included a detailed explanation of specific algae types like chlorophyta & phaeophyceae. We explored the extraction process of alginate, a substance derived from algae with various applications in food, medicine & industry. The hands on training session involved processing algae into agar, providing practical insight into transforming raw algae into valuable products.

Day 3:

The third day took us to Rameshwaram for field training. First, we went to CSMCR for the laboratory awareness on algae. and at research institute they gave us how to grow algae in lab conditions. We explored two different Cultivation at Rameshwaram & interacted with local farmers & field experts & we did everything by our hand for more knowledge. The visit gave us a deeper understanding of the challenges & techniques involved in cultivating algae in real-world settings. We saw many different algae and learnt more about it.

Day 4:

On the fourth day, we engaged in an interactive session where we learned how to convert algae into value-added products, particularly focussing on agar. We discussed various product ideas & bussiness models for algae-based products & received guidance on obtaining company approvals

for these products. This session encouraged creative thinking, & we brainstormed various innovative ways algae could be utilised in everyday products from food to cosmetics.

Day 5:

The final day culminated in a presentation of our group projects to the program's secretary & principal. We showcased our ideas & demonstrated how algae can be used to create ~~algae to~~ value-added products. The feed back & discussion provided valuable insights into the commercial potential of algae-based products. This day reinforced the importance of algae as a sustainable resource & motivated us to explore its applications further in our future endeavors. This value added program on algae technology provided invaluable knowledge & practical experience. It broadened our understanding of algae's diverse application & its potential to drive innovation in various industries.

Report on Value added course.

Name: K. Yamuna

ROLLNO: 23UBT008

Register NO: 920423214051

Program Name: Algal Technology and Research.

Duration of the program: 6th - 10th January [6.01.25 - 10.01.25] 5days

Date: 10.01.25

Introduction:

The course value added Program has done by our department (Biotechnology) management. for 5 days Is the program to understand the diverse applications. one of the career based course with good aim to bringout the students skills in the field of Algal Biotechnology. with practical skills and research insights.

10/10

20/1/25

Day 1: 6th Jan 25.

The program starts with an wonderful inaugral with our respective staff (our department chairperson, HOD, and respective mam) and the dignitaries from the industry and they explained the importance of algal biotechnology and their knowledge and express the current Scenario in that field.

They start with Introduction and they covered the topic's such as type of Algae and their classification and characteristics and different method.

Day 2: 7th Jan 25

They explained about the cultivation strategies of seaweeds and their applications. The session covered with extraction and processing and the applications of natural bio-polymers from sea weeds They provide us hands on training to extract and processing on using seaweeds.

Day 3: 8th Jan 25

Discussions on Algal - based biofuels, nutraceuticals, and bioplastics. The processing and extractions of biopolymers from seaweeds.

The session covered the value addition & commerce aspect of seaweeds.

Day 4: 9th Jan25

overview of course we attended and learn the latest development and challenges going on the field.

Demonstrations of Algal DNA extraction and molecular Analysis.

Day 5: 10th Jan 25

Entrepreneurship opportunities in Algal Biotechnology.

Business and challenges facing opportunities.

Scaling & commercialization of Algae - based product.

conclusion:

Those 5-days of our value-Added program on Algae Biotechnology Successfully achieved objectives of enhancing awareness, knowledge & pratical skills in the field.

well organised program with hands on training and made us to think and do the Innovative version of new product using Agar Agar and sustainability.

Thankyou for all the management staff who organised the wonderful opportunities.

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Industry Certified Value Added Programme

On

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department: Biotechnology Regulation: R2021

Year: 2024-25 Semester: Even

CONSOLIDATED MARK STATEMENT

S.No.	Reg Number	Roll Number	Student Name	Internal Marks-Project	External Marks-Test	Total Marks
			Marks alloted	**40**	**60**	**100**
1	920423214025	23UBT001	LALITH RAJ B	30	53	**83**
2	920423214015	23UBT002	HARIPRASATH S	31	0	**31**
3	920423214012	23UBT003	HAMSHAD VANI C	39	53	**92**
4	920423214047	23UBT004	VIJAYA RAGAVAN G	34	53	**87**
5	920423214033	23UBT006	PORSELVAN.S.G	34	48	**82**
6	920423214010	23UBT007	ELAKIYA S R	37	53	**90**
7	920423214051	23UBT008	YAMUNA K	39	51	**90**
8	920423214003	23UBT009	APARNA S	40	48	**88**
9	920423214050	23UBT010	VIVEHA BALA S	39	48	**87**
10	920423214020	23UBT011	JEYA SUGESH A	34	53	**87**
11	920423214034	23UBT012	PRIYADHARSHINI M	39	48	**87**
12	920423214044	23UBT013	SWETHA S	39	55	**94**
13	920423214039	23UBT014	ROSHINIS	38	51	**89**
14	920423214041	23UBT015	SENTAMIL ARAS C	36	48	**84**
15	920423214005	23UBT016	ATCHIAH S	36	46	**82**
16	920423214053	23UBT017	YAZHINI G	40	46	**86**
17	920423214048	23UBT018	VIMALA I	31	51	**82**
18	920423214046	23UBT019	VEERALAKSHMI V	38	48	**86**
19	920423214018	23UBT020	JEEVAASRI S B	39	46	**85**
20	920423214032	23UBT021	NAYAANA.S	38	43	**81**
21	920423214013	23UBT022	HARI BALAMURUGAN P	34	48	**82**
22	920423214023	23UBT023	KAVIYASREE M	38	46	**84**
23	920423214004	23UBT024	ARUN ADHITHYAN S	34	51	**85**
24	920423214035	23UBT025	PUVINA JASMINEJ	37	43	**80**
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA I	37	46	**83**
26	920423214021	23UBT027	KARANYA N	38	43	**81**
27	920423214042	23UBT028	SHALINI T	37	46	**83**
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	30	50	**80**
29	920423214029	23UBT030	MUKILA K	36	46	**82**
30	920423214001	23UBT031	AKSHAYA R B	38	48	**86**
31	920423214038	23UBT032	RATHI K P	36	51	**87**
32	920423214011	23UBT033	GOWTHAM RAJ R	32	51	**83**
33	920423214043	23UBT034	SUPRIYA D	36	51	**87**

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Industry Certified Value Added Programme

On

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department: Biotechnology Regulation: R2021

Year: 2024-25 Semester: Even

34	920423214030	23UBT035	NAGALAKSHM S	39	41	**80**
35	920423214006	23UBT036	BRINDHA RAJA G	31	50	**81**
36	920423214016	23UBT037	HEMANTH PRAKASH M	30	50	**80**
37	920423214052	23UBT038	YAZHINI D	38	48	**86**
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	33	53	**86**
39	920423214008	23UBT040	DHIVAKARAN K	30	50	**80**
40	920423214040	23UBT041	SANJAYVEERA S	30	51	**81**
41	920423214031	23UBT042	NAVEEN KUMAR N	30	50	**80**
42	920423214002	23UBT043	ANANTHA RAJ J	30	50	**80**
43	920423214014	23UBT044	HARI KRISHNAN K	32	53	**85**
44	920423214024	23UBT045	KRISHNA PRIYANKA G	37	51	**88**
45	920423214009	23UBT046	DHIVYA M	39	43	**82**
46	920423214007	23UBT047	DHARSHINI K	36	51	**87**
47	920423214037	23UBT048	RAKSHANA K	39	51	**90**
48	920423214019	23UBT049	JEYA PRAKASH J	31	51	**82**
49	920423214017	23UBT050	JANANI S	32	50	**82**
50	920423214028	23UBT051	MOHANRAJ K	34	48	**82**
51	920423214049	23UBT052	VISHWAPRIYA V	36	51	**87**
52	920423214022	23UBT053	KARISHMA M	39	48	**87**
53	920423214026	23UBT054	MAHESH S	31	50	**81**

VAP Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

Manager

Sea2Farm,
Ramanathapuram
Mr. R.P.Rajadurai
Jesudoss

HoD/BT

Dr R.Shyam Kumar

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DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

Programme Coordinator - Dr K.Geetha, Dr S.Karthikumar & Dr R.Shyam Kumar

Out of 40

Sl No	Team No.	Roll No	Name	Topic	Concept clarity	Presentation	Creativity/ Uniqueness	Team work	Model explanation	Total	Product Demo (20)
					10	10	10	10	10	50	
1	1	23UBT004	Vijayaraghavan	Sargassum whitii P cattle feed Agar-Agar Boba Tea	8	8	10	8	10	44	18
		23UBT006	Porselvan								
		23UBT051	Mohan raj								
		23UBT022	Haribalamurugan								
		23UBT024	Arun Adhithyan								
		23UBT011	Jeya sujesh								
	2	23UBT027	N. Karanya	Sea Sage	9	9	10	10	10	48	20
		23UBT048	K. Rakshana								
		23UBT010	S. Viveha Bala								
		23UBT035	Nagalakshmi S								
		23UBT012	M. Priyadharshini								
		23UBT008	Yamuna. K								
		23UBT038	D. Yazhini								
	3	23UBT018	I. Vimala	Agar Naturals	8	7	8	7	8	38	16
		23UBT029	R. Rajapriyadharshini								
		23UBT050	S. Janani								
		23UBT036	G. Brindhasajani								

10/1/25

(Kiruthigadevi)

(M. Selvakumar)

(Kiruthigadevi)

											Product Demo (20)
	4	23UBTD01	B. Lalithraj	Hair gel and Fish food.	7	7	8	7	8	37	15
		23UBTD40	K. Shivakkiran								
		23UBTD41	S. Sanjayveera								
		23UBTD42	N. Naveen Kumar								
		23UBTD43	J. Anantharaj								
		23UBTD49	J. Jeyaprakash								
	5	23UBTO33	R. Gowtham Raj	1) Antiseptic Gel 2) Healing Henna	7	8	7	7	10	39	16
		23UBTD54	S. Mahesh								
		23UBTO37	M. Hemanth prakash								
		23UBTO39	M. Syed Sirajuthaan								
		23UBTD02	S. Hari prajwath								
		23UBTO44	K. Hari krishnan								
	6	23UBTO23	M. Kaviyasree	1) Soap infused with seaweed waste 2) Protein Rich sauce using Spirulina	8	10	10	9	10	47	19
		23UBTO19	V. Veeralakshmi								
		23UBTO20	S.B. Jeevasri								
		23UBTO07	S.R. Elakiya								
		23UBTO21	S. Nayaana								
		23UBTO46	M. Dhivya								
	7	23UBTO31	R.B. Akshaya	1) Anti inflamatory cream 2) Nose strips 3) ulcer soothing gummies 4) Lip scrubber.	9	10	9	10	10	48	19
		23UBTO26	J. Stisha								
		23UBTO28	T. Shalini								
		23UBTO45	G. Krishna Priyanka								
		23UBTO34	D. Supriya								
		23UBTO30	K. Mukila								
		23UBTO25	J. Pavina Jasmine								
	8	23UBTO09	Aparna. S	1. Whey wave pudding 2. Aquablush gel 3. Herbal brew 4. Lacto feed.	10	10	9	10	10	49	20
		23UBTO03	Hamshad vanic								
		23UBTO14	Roshini. S								
		23UBTO13	Swetha. S								
		23UBTO17	Yazhini. G								
		23UBTO52	Karishma. N								

Selected.
(M. Selvakumar)

Scanned with CamScanner

Product Demo (20)

	9	23UBT047	K. Dharshini	=> Hair serum (MINIQE) (PRODUCTS) => Tooth powder => Body Lotion => Jelly	9	9	8	8	10	44	18
		23UBT032	K. P. Rathi								
		23UBT016	S. Atchiah								
		23UBT052	V. Vishnupriya								
		23UBT015	C. Sentamil Arasi								
	10										

Judge's Sign

(M Selvakumar)

Programme Coordinator's Sign

HoD/BT

Scanned with CamScanner

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Industry Certified Value Added Programme

on

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department: Biotechnology
Year: 2024-25

Regulation: R2021
Semester: Even

INTERNAL MARK STATEMENT

S.No.	Reg Number	Roll Number	Student Name	Report Writing	PPT Presentation	Product Demonstration	Total Marks
			Marks	10	10	20	40
1	920423214025	23UBT001	LALITH RAJ B	8	7	15	30
2	920423214015	23UBT002	HARIPRASATH S	7	8	16	31
3	920423214012	23UBT003	HAMSHAD VANI C	9	10	20	39
4	920423214047	23UBT004	VIJAYA RAGAVAN G	8	8	18	34
5	920423214033	23UBT006	PORSELVAN.S.G	8	8	18	34
6	920423214010	23UBT007	ELAKIYA S R	8	10	19	37
7	920423214051	23UBT008	YAMUNA K	10	9	20	39
8	920423214003	23UBT009	APARNA S	10	10	20	40
9	920423214050	23UBT010	VIVEHA BALA S	10	9	20	39
10	920423214020	23UBT011	JEYA SUGESH A	8	8	18	34
11	920423214034	23UBT012	PRIYADHARSHINI M	10	9	20	39
12	920423214044	23UBT013	SWETHA S	9	10	20	39
13	920423214039	23UBT014	ROSHINIS	8	10	20	38
14	920423214041	23UBT015	SENTAMIL ARAS C	9	9	18	36
15	920423214005	23UBT016	ATCHIAH S	9	9	18	36
16	920423214053	23UBT017	YAZHINI G	10	10	20	40
17	920423214048	23UBT018	VIMALA I	8	7	16	31
18	920423214046	23UBT019	VEERALAKSHMI V	9	10	19	38
19	920423214018	23UBT020	JEEVAASRI S B	10	10	19	39
20	920423214032	23UBT021	NAYAANA.S	9	10	19	38
21	920423214013	23UBT022	HARI BALAMURUGAN P	8	8	18	34
22	920423214023	23UBT023	KAVIYASREE M	9	10	19	38
23	920423214004	23UBT024	ARUN ADHITHYAN S	8	8	18	34
24	920423214035	23UBT025	PUVINA JASMINEJ	8	10	19	37
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J	8	10	19	37
26	920423214021	23UBT027	KARANYA N	9	9	20	38
27	920423214042	23UBT028	SHALINI T	8	10	19	37
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	7	7	16	30
29	920423214029	23UBT030	MUKILA K	7	10	19	36
30	920423214001	23UBT031	AKSHAYA R B	9	10	19	38
31	920423214038	23UBT032	RATHI K P	9	9	18	36
32	920423214011	23UBT033	GOWTHAM RAJ R	8	8	16	32
33	920423214043	23UBT034	SUPRIYA D	7	10	19	36
34	920423214030	23UBT035	NAGALAKSHM S	10	9	20	39
35	920423214006	23UBT036	BRINDHA RAJA G	8	7	16	31

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

Industry Certified Value Added Programme

on

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department: Biotechnology
Year: 2024-25

Regulation: R2021
Semester: Even

INTERNAL MARK STATEMENT

S.No.	Reg Number	Roll Number	Student Name	Report Writing	PPT Presentation	Product Demonstration	Total Marks
37	920423214052	23UBT038	YAZHINI D	9	9	20	38
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	9	8	16	33
39	920423214008	23UBT040	DHIVAKARAN K	8	7	15	30
40	920423214040	23UBT041	SANJAYVEERA S	8	7	15	30
41	920423214031	23UBT042	NAVEEN KUMARN	8	7	15	30
42	920423214002	23UBT043	ANANTHA RAJ J	8	7	15	30
43	920423214014	23UBT044	HARI KRISHNAN K	8	8	16	32
44	920423214024	23UBT045	KRISHNA PRIYANKA G	8	10	19	37
45	920423214009	23UBT046	DHIVYA M	10	10	19	39
46	920423214007	23UBT047	DHARSHINI K	9	9	18	36
47	920423214037	23UBT048	RAKSHANA K	10	9	20	39
48	920423214019	23UBT049	JEYA PRAKASH J	9	7	15	31
49	920423214017	23UBT050	JANANI S	9	7	16	32
50	920423214028	23UBT051	MOHANRAJ K	8	8	18	34
51	920423214049	23UBT052	VISHWAPRIYA V	9	9	18	36
52	920423214022	23UBT053	KARISHMA M	9	10	20	39
53	920423214026	23UBT054	MAHESH S	7	8	16	31

External Evaluator
Mr. R.P.Rajadurai Jesudoss, Manager, Sea2Farm, Ramnadapuram

VAP Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Industry Certified Value Added Programme

on

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department:	Biotechnology		Regulation:	R2021
Year:	2024-25		Semester:	Even

EXTERNAL EVALUATION MARK STATEMENT

S.No.	Reg Number	Roll Number	Student Name	External Marks		%
			Marks	Conducted for 50	Converted to 60	100
1	920423214025	23UBT001	LALITH RAJ B	44	53	**88**
2	920423214015	23UBT002	HARIPRASATH S	0	0	**0**
3	920423214012	23UBT003	HAMSHAD VANI C	44	53	**88**
4	920423214047	23UBT004	VIJAYA RAGAVAN G	44	53	**88**
5	920423214033	23UBT006	PORSELVAN.S.G	40	48	**80**
6	920423214010	23UBT007	ELAKIYA S R	44	53	**88**
7	920423214051	23UBT008	YAMUNA K	43	51	**85**
8	920423214003	23UBT009	APARNA S	40	48	**80**
9	920423214050	23UBT010	VIVEHA BALA S	40	48	**80**
10	920423214020	23UBT011	JEYA SUGESH A	44	53	**88**
11	920423214034	23UBT012	PRIYADHARSHINI M	40	48	**80**
12	920423214044	23UBT013	SWETHA S	46	55	**92**
13	920423214039	23UBT014	ROSHINIS	43	51	**85**
14	920423214041	23UBT015	SENTAMIL ARAS C	40	48	**80**
15	920423214005	23UBT016	ATCHIAH S	38	46	**77**
16	920423214053	23UBT017	YAZHINI G	38	46	**76**
17	920423214048	23UBT018	VIMALA I	43	51	**85**
18	920423214046	23UBT019	VEERALAKSHMI V	40	48	**80**
19	920423214018	23UBT020	JEEVAASRI S B	38	46	**77**
20	920423214032	23UBT021	NAYAANA.S	36	43	**72**
21	920423214013	23UBT022	HARI BALAMURUGAN P	40	48	**80**
22	920423214023	23UBT023	KAVIYASREE M	38	46	**76**
23	920423214004	23UBT024	ARUN ADHITHYAN S	43	51	**85**
24	920423214035	23UBT025	PUVINA JASMINEJ	36	43	**72**
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J	38	46	**76**
26	920423214021	23UBT027	KARANYA N	36	43	**72**
27	920423214042	23UBT028	SHALINI T	38	46	**76**
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	42	50	**83**
29	920423214029	23UBT030	MUKILA K	38	46	**76**
30	920423214001	23UBT031	AKSHAYA R B	40	48	**80**
31	920423214038	23UBT032	RATHI K P	43	51	**85**
32	920423214011	23UBT033	GOWTHAM RAJ R	43	51	**85**
33	920423214043	23UBT034	SUPRIYA D	43	51	**85**
34	920423214030	23UBT035	NAGALAKSHM S	34	41	**68**
35	920423214006	23UBT036	BRINDHA RAJA G	42	50	**83**
36	920423214016	23UBT037	HEMANTH PRAKASH M	42	50	**83**
37	920423214052	23UBT038	YAZHINI D	40	48	**80**
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	44	53	**88**
39	920423214008	23UBT040	DHIVAKARAN K	42	50	**83**
40	920423214040	23UBT041	SANJAYVEERA S	43	51	**85**
41	920423214031	23UBT042	NAVEEN KUMARN	42	50	**83**
42	920423214002	23UBT043	ANANTHA RAJ J	42	50	**83**
43	920423214014	23UBT044	HARI KRISHNAN K	44	53	**88**
44	920423214024	23UBT045	KRISHNA PRIYANKA G	43	51	**85**
45	920423214009	23UBT046	DHIVYA M	36	43	**72**
46	920423214007	23UBT047	DHARSHINI K	43	51	**85**
47	920423214037	23UBT048	RAKSHANA K	43	51	**85**
48	920423214019	23UBT049	JEYA PRAKASH J	43	51	**85**
49	920423214017	23UBT050	JANANI S	42	50	**83**
50	920423214028	23UBT051	MOHANRAJ K	40	48	**80**
51	920423214049	23UBT052	VISHWAPRIYA V	43	51	**85**
52	920423214022	23UBT053	KARISHMA M	40	48	**80**
53	920423214026	23UBT054	MAHESH S	42	50	**83**

Sea2Farm
Value added sea biologicals

sea2farmbusiness@gmail.com +91 88254 32445 / 93856 85282

Sea2farm Flat No: C2, Floor No: 6/104, Muthunal Road, Surankottai, Ramanathapuram 623 504. INDIA

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On

ALGAL TECHNOLOGY AND APPLICATIONS

6th to 10th January 2025

Department: Biotechnology Regulation: R2021

Year: 2024-25 Semester: Even

GRADE SHEET

S.No.	Reg Number	Roll Number	Student Name	Internal Marks-Project	External Marks-Test	Total Marks	Credit points
			Marks alloted	**40**	**60**	**100**	**2**
1	920423214025	23UBT001	LALITH RAJ B	30	53	83	2
2	920423214015	23UBT002	HARIPRASATH S	31	0	31	0
3	920423214012	23UBT003	HAMSHAD VANI C	39	53	92	2
4	920423214047	23UBT004	VIJAYA RAGAVAN G	34	53	87	2
5	920423214033	23UBT006	PORSELVAN.S.G	34	48	82	2
6	920423214010	23UBT007	ELAKIYA S R	37	53	90	2
7	920423214051	23UBT008	YAMUNA K	39	51	90	2
8	920423214003	23UBT009	APARNA S	40	48	88	2
9	920423214050	23UBT010	VIVEHA BALA S	39	48	87	2
10	920423214020	23UBT011	JEYA SUGESH A	34	53	87	2
11	920423214034	23UBT012	PRIYADHARSHINI M	39	48	87	2
12	920423214044	23UBT013	SWETHA S	39	55	94	2
13	920423214039	23UBT014	ROSHINIS	38	51	89	2
14	920423214041	23UBT015	SENTAMIL ARAS C	36	48	84	2
15	920423214005	23UBT016	ATCHIAH S	36	46	82	2
16	920423214053	23UBT017	YAZHINI G	40	46	86	2
17	920423214048	23UBT018	VIMALA I	31	51	82	2
18	920423214046	23UBT019	VEERALAKSHMI V	38	48	86	2
19	920423214018	23UBT020	JEEVAASRI S B	39	46	85	2
20	920423214032	23UBT021	NAYAANA.S	38	43	81	2
21	920423214013	23UBT022	HARI BALAMURUGAN P	34	48	82	2
22	920423214023	23UBT023	KAVIYASREE M	38	46	84	2
23	920423214004	23UBT024	ARUN ADHITHYAN S	34	51	85	2
24	920423214035	23UBT025	PUVINA JASMINEJ	37	43	80	2
25	920423214027	23UBT026	MARISHA CHRISTINE STISHA J	37	46	83	2
26	920423214021	23UBT027	KARANYA N	38	43	81	2
27	920423214042	23UBT028	SHALINI T	37	46	83	2
28	920423214036	23UBT029	RAJA PRIYADHARSHINI R	30	50	80	2
29	920423214029	23UBT030	MUKILA K	36	46	82	2
30	920423214001	23UBT031	AKSHAYA R B	38	48	86	2
31	920423214038	23UBT032	RATHI K P	36	51	87	2
32	920423214011	23UBT033	GOWTHAM RAJ R	32	51	83	2
33	920423214043	23UBT034	SUPRIYA D	36	51	87	2

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34	920423214030	23UBT035	NAGALAKSHM S	39	41	80	2
35	920423214006	23UBT036	BRINDHA RAJA G	31	50	81	2
36	920423214016	23UBT037	HEMANTH PRAKASH M	30	50	80	2
37	920423214052	23UBT038	YAZHINI D	38	48	86	2
38	920423214045	23UBT039	SYED SIRAJUTHEEN M	33	53	86	2
39	920423214008	23UBT040	DHIVAKARAN K	30	50	80	2
40	920423214040	23UBT041	SANJAYVEERA S	30	51	81	2
41	920423214031	23UBT042	NAVEEN KUMARN	30	50	80	2
42	920423214002	23UBT043	ANANTHA RAJ J	30	50	80	2
43	920423214014	23UBT044	HARI KRISHNAN K	32	53	85	2
44	920423214024	23UBT045	KRISHNA PRIYANKA G	37	51	88	2
45	920423214009	23UBT046	DHIVYA M	39	43	82	2
46	920423214007	23UBT047	DHARSHINI K	36	51	87	2
47	920423214037	23UBT048	RAKSHANA K	39	51	90	2
48	920423214019	23UBT049	JEYA PRAKASH J	31	51	82	2
49	920423214017	23UBT050	JANANI S	32	50	82	2
50	920423214028	23UBT051	MOHANRAJ K	34	48	82	2
51	920423214049	23UBT052	VISHWAPRIYA V	36	51	87	2
52	920423214022	23UBT053	KARISHMA M	39	48	87	2
53	920423214026	23UBT054	MAHESH S	31	50	81	2

VAP Coordinators

Dr K.Geetha

Dr S.Karthikumar

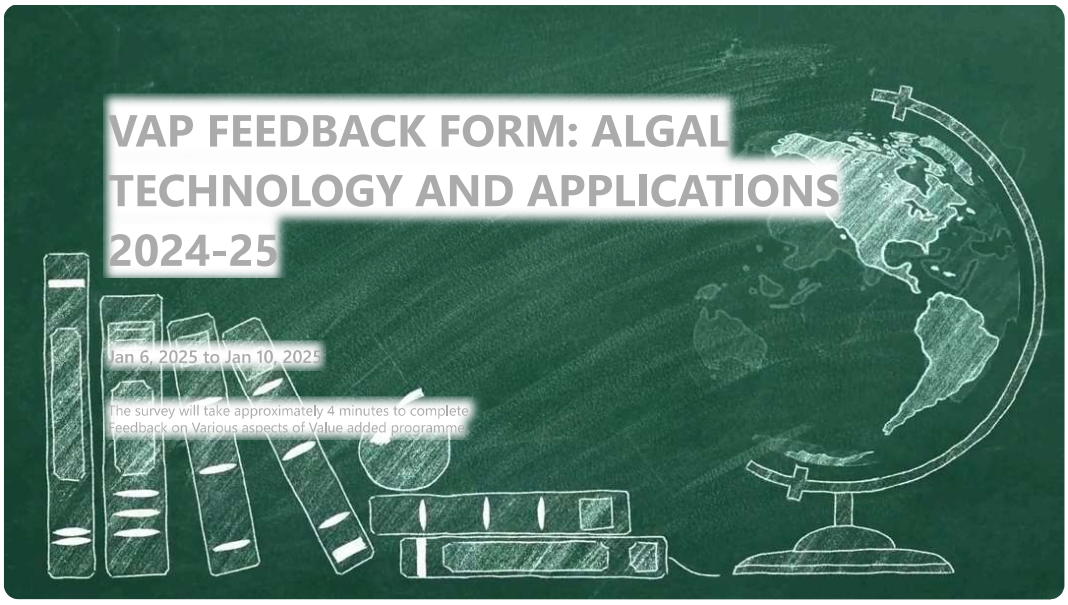
Dr R.Shyam Kumar

Manager
Sea2Farm,
Ramanathapuram

Mr. R.P.Rajadurai Jesudoss

HoD/BT

Dr R.Shyam Kumar



* Required

1. Roll Number *

2. Register Number *

3. Name *

4. Date *

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

☆ ☆ ☆ ☆ ☆

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

☆ ☆ ☆ ☆ ☆

7. 3. The programme provided an insight to design solutions for environmental problems *

☆ ☆ ☆ ☆ ☆

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

☆ ☆ ☆ ☆ ☆

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

☆ ☆ ☆ ☆ ☆

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

☆ ☆ ☆ ☆ ☆

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

☆ ☆ ☆ ☆ ☆

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

☆ ☆ ☆ ☆ ☆

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

☆ ☆ ☆ ☆ ☆

14. 10. The allotted time to complete the task given during the programme was sufficient *

☆ ☆ ☆ ☆ ☆

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

☆ ☆ ☆ ☆ ☆

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

☆ ☆ ☆ ☆ ☆

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

☆ ☆ ☆ ☆ ☆

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

☆ ☆ ☆ ☆ ☆

19. 15. Overall how will you rate the Value added programme. *

☆ ☆ ☆ ☆ ☆

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

21. 17. Write any two features that can be improved in the Value added programme. *

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

Responses Overview

Active

Responses	Average Time	Duration
53	05:36	347 Days

1. Roll Number

53
Responses

Latest Responses
"23ubt042"
"23ubt040"
"23ubt037"
...

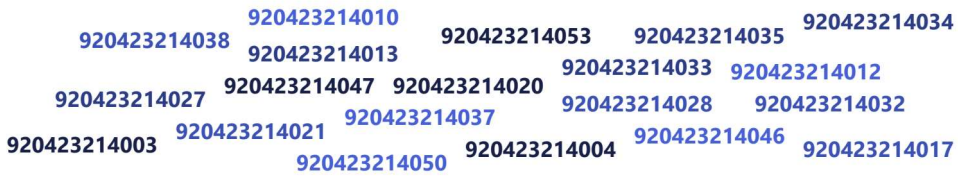
1 respondents (2%) answered 23ubt011 for this question. Update

2. Register Number

53
Responses

Latest Responses
"920423214031"
"920423214008"
"924021234016"
...

1 respondents (2%) answered 920423214020 for this question. Update



3. Name

53
Responses

Latest Responses
"N.Naveen kumar"
"K DHIVAKARAN"
"M.Hemanth prakash"
...

2 respondents (4%) answered S for this question. Update

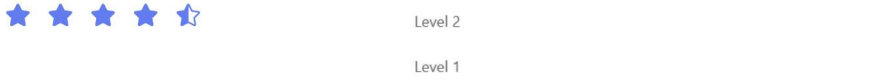
4. Date

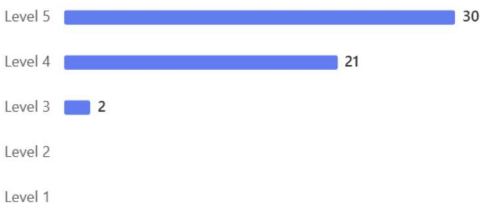
53
Responses

Latest Responses
"2005-11-28"
"2025-01-22"
"2005-09-27"
...

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry.

4.53
Average Rating



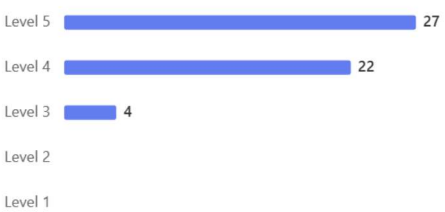


6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications

4.53
Average Rating

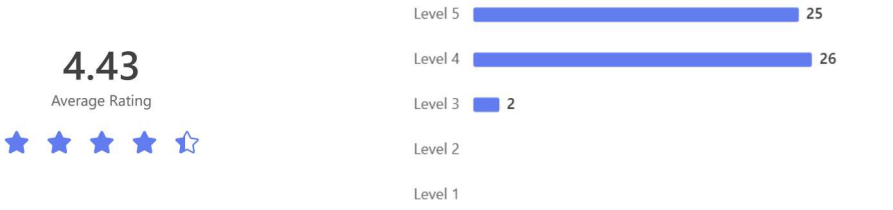
7. 3. The programme provided an insight to design solutions for environmental problems

4.43
Average Rating

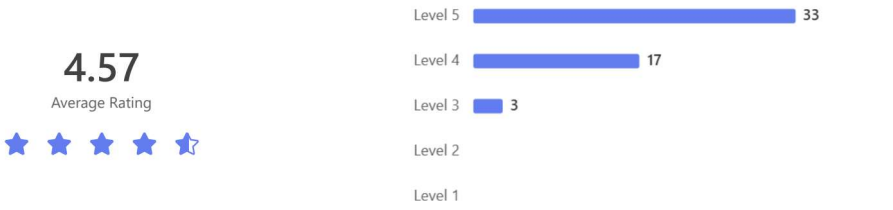


8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software



10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings

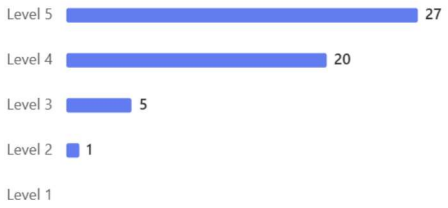


11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

12. 8. Rate the course module and content of the Value added programme.

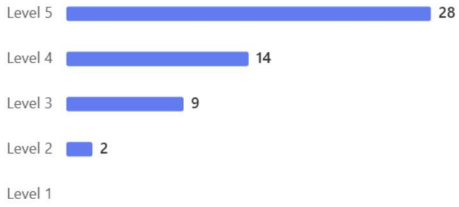
13. 9. Rate the infrastructure facilities provided to conduct the programme.

4.38
Average Rating



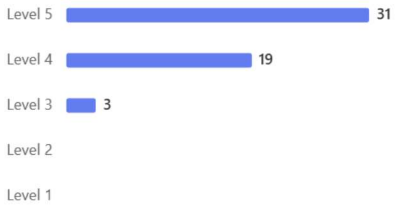
14. 10. The allotted time to complete the task given during the programme was sufficient

4.28
Average Rating



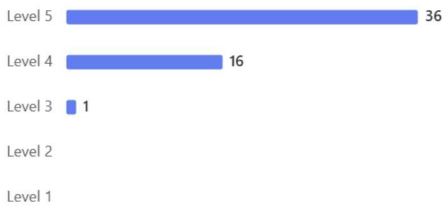
15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS**

4.53
Average Rating



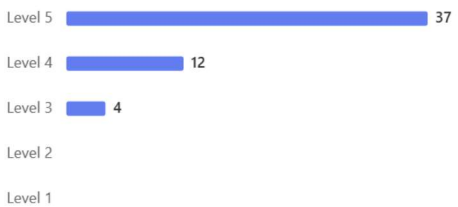
16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources.

4.66
Average Rating



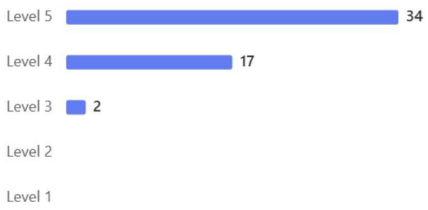
17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry

4.62
Average Rating



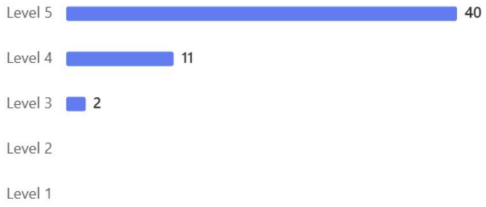
18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds.

4.60
Average Rating



19. 15. Overall how will you rate the Value added programme.

4.72
Average Rating



20. 16. Write any two best features of the Value added programme.

53
Responses

Latest Responses
"in before we have know about algal technology"
"Interatial visit & classes"
"Agar extract"
...

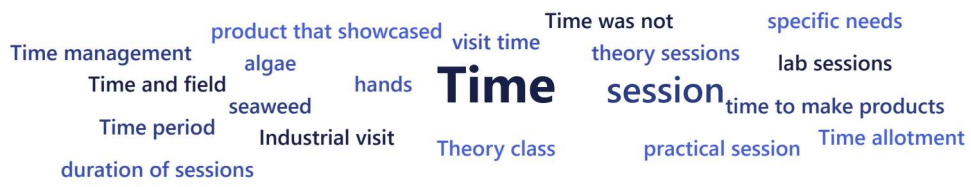
8 respondents (16%) answered sessions for this question. Update

21. 17. Write any two features that can be improved in the Value added programme.

53
Responses

Latest Responses
"communicate each one by one is better"
"No"
"Algal business"
...

11 respondents (22%) answered Time for this question. Update



22. 18. Please give your valuable suggestions for the improvement of the programme.

53
Responses

Latest Responses
"it is very useful to us"
"All things are perfect"
"Good"
...

11 respondents (22%) answered Good for this question. Update

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

View results

Respondent

1 Anonymous

03:09

Time to complete

1. Roll Number *

23ubt011

2. Register Number *

920423214020

3. Name *

Jeya sugesh

4. Date *

1/10/2025

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

7. 3. The programme provided an insight to design solutions for environmental problems *

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

14. 10. The allotted time to complete the task given during the programme was sufficient *

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

19. 15. Overall how will you rate the Value added programme. *

☆ ☆ ☆ ☆ ☆

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

Got extra knowledge apart from our subject and got an awareness about algal technology

21. 17. Write any two features that can be improved in the Value added programme. *

The duration for the course is insufficient

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Only time constraints

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

View results

Respondent

12 Anonymous

03:43
Time to complete

1. Roll Number *

23ubt003

2. Register Number *

920423214012

3. Name *

Hamshad vani .c

4. Date *

1/10/2025

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

☆ ☆ ☆ ☆ ☆

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

☆ ☆ ☆ ☆ ☆

7. 3. The programme provided an insight to design solutions for environmental problems *

☆ ☆ ☆ ☆ ☆

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

14. 10. The allotted time to complete the task given during the programme was sufficient *

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

19. 15. Overall how will you rate the Value added programme. *

☆ ☆ ☆ ☆ ☆

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

Field trip and hands - on - session

21. 17. Write any two features that can be improved in the Value added programme. *

Theory class , ppt

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Can give more info about jobs related to this course .... rest of the course is spectacular

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

View results

Respondent

23 Anonymous

04:58
Time to complete

1. Roll Number *

23ubt034

2. Register Number *

920423214043

3. Name *

D. Supriya

4. Date *

1/10/2025

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

★ ★ ★ ★ ☆

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

★ ★ ★ ★ ★

7. 3. The programme provided an insight to design solutions for environmental problems *

★ ★ ★ ★ ★

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

14. 10. The allotted time to complete the task given during the programme was sufficient *

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

19. 15. Overall how will you rate the Value added programme. *

★ ★ ★ ★ ★

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

Understandable, informative

21. 17. Write any two features that can be improved in the Value added programme. *

Extend Time and field visiting

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Extend time

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

View results

Respondent

27 Anonymous

05:24
Time to complete

1. Roll Number *

23UBT036

2. Register Number *

920423214006

3. Name *

G.Brindha rajam

4. Date *

1/10/2025

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

☆ ☆ ☆ ☆ ☆

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

☆ ☆ ☆ ☆ ☆

7. 3. The programme provided an insight to design solutions for environmental problems *

☆ ☆ ☆ ☆ ☆

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

14. 10. The allotted time to complete the task given during the programme was sufficient *

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

19. 15. Overall how will you rate the Value added programme. *

☆ ☆ ☆ ☆ ☆

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

We gained more practical knowledge and learned a lot about algae technology

21. 17. Write any two features that can be improved in the Value added programme. *

Everything was good in this programme

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Everything was good

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

View results

Respondent
40 Anonymous

07:28
Time to complete

1. Roll Number *

23UBT043

2. Register Number *

920423214002

3. Name *

J Anantha raj

4. Date *

1/10/2025

Feedback on General aspects of Value Added Programme

5. 1. The programme provided an insight to apply the knowledge gained for development of a small scale industry. *

6. 2. The programme provided an insight to identify and analyze simple solutions for industrial applications *

7. 3. The programme provided an insight to design solutions for environmental problems *

8. 4. The programme provided an insight to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data in various entrepreneurial ventures *

9. 5. The programme provided an insight to create, select, and apply appropriate techniques, resources, and modern engineering tools and software *

10. 6. The programme provided an insight to effectively function as an individual, and as a member in teams in multidisciplinary settings *

11. 7. The programme provided an insight to recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. *

Feedback on Sessions

Give fair feedback on each session.

12. 8. Rate the course module and content of the Value added programme. *

13. 9. Rate the infrastructure facilities provided to conduct the programme. *

14. 10. The allotted time to complete the task given during the programme was sufficient *

15. 11. Rate the Theory sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** *

16. 12. Rate the basic Hands-on sessions handled for **ALGAL TECHNOLOGY AND APPLICATIONS** by Internal Resources. *

17. 13. Rate the Industrial visit to Fisheries Department at Ramanathapuram and Seaweeds Industry *

18. 14. Rate the Industrial training on Value addition and Commerce from Seaweeds. *

19. 15. Overall how will you rate the Value added programme. *

☆ ☆ ☆ ☆ ☆

Suggestions for Improvement

20. 16. Write any two best features of the Value added programme. *

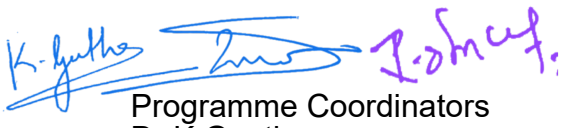
Industrial vist and about algae

21. 17. Write any two features that can be improved in the Value added programme. *

About algae and about seaweed

22. 18. Please give your valuable suggestions for the improvement of the programme. *

Yes we improve your knowledge



Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD/BT
Dr R.Shyam Kumar

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF BIOTECHNOLOGY

Industry Certified Value Added Course on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

SUMMARY REPORT

A five days Industry Certified Value Added Programme entitled "**ALGAL TECHNOLOGY AND APPLICATIONS**" was organized by Department of Biotechnology, Kamaraj College of Engineering and Technology, Virudhunagar, in association with **Sea2Farm, Ramanathapuram**, from **6th to 10th January 2025** for II B.Tech Biotechnology students (2023-27 Batch). The major objective of this program was to give an insight on basics of Algal Technology and Entrepreneurship development to the students and to provide hands-on training in seaweed cultivation and product development so that students will be able to learn the basic aspects of seaweed cultivation and apply them towards product development from seaweed, fostering innovation and sustainable business practices. "Algae" is an application part of Microbiology and Industrial biotechnology course work the students have learnt. This VAP helped them to develop entrepreneurship focus on Algae based product development.

Day 1 of the programme started with a short Inauguration session where our Head of the Department **Dr. R.Shyam Kumar** and **Dr S.Karthikumar**, ASP/BT introduced the theme of the VAP. This was followed by a sessions on the basic Introduction Theory behind Algae and its classification by **Mr M.Selva Kumar (resource person).** The afternoon session was also handled by **Mr M.Selva Kumar** wherein he gave an introduction on algal cultivation techniques and the market demand. Additionally, various samples of seaweed were presented, allowing participants to explore the range of species and their potential applications.

Day 2 started with an interesting session on Applications of seaweed by **Mr. R.P.Rajadurai Jesudoss, Manager, Sea2Farm,** who gave a detailed insight into various fields where seaweed based products are being used successfully. This was followed by a session on various procedures used for extracting agar agar and alginate from dry seaweed samples. The afternoon session of Day 2 was a hands-on session on preparation of agar agar and alginate from seaweed samples which was handled by Mr Jesudas.

Day 3 was planned as an industrial visit to **Sea2Farm**, Ramnathapuram and Fisheries Department at Ramanathapuram for a hands-on training on large scale cultivation of Algae and production of Algae based products. The students were taken to the industry accompanied by **Dr. R. Shyam Kumar, Dr. S. Karthikumar, and Dr. K.Geetha**. The students visited the production unit of **Sea2Farm** for hands-on training in large-scale production. They also visited **CSIR-CSMCRI Marine Algal Research Station**, where they interacted with scientists and research scholars. Additionally, they toured the automated production unit under the **Fishery Department of Rameswaram**, where **Inspector Sathesh and Mr. Selva Kumar** from the Fishery department addressed the students. Then they headed to a seaweed cultivation site where they had hands-on experience in **raft building, roping techniques, and seeding techniques**.

On **Day 4**, the students were divided into eight teams and tasked with developing innovative commercial products from agar and its waste. Mr. Jesudas, an industrial expert, assisted the students in refining their ideas into valuable products. The entire day was dedicated to hands-in session where students involved in product development from algae. This was an assignment for internal assessment.

On **Day 5**, the students presented their developed products along with a PPT presentation to Industry experts who evaluated the presentation and the products developed by the students. An exhibition of the products was conducted in the Department. **Dr S. Senthil, Principal and Thiru CA. V.K.Dharmarajan,** Secretary, Managing Board, Kamaraj College of Engineering and Technology, visited the exhibits and gave their valuable suggestions. Each team showcased their innovative commercial products derived from agar and its waste, providing detailed explanations of their design, production process, and potential market impact. The presentation served as an opportunity for the students to demonstrate their creativity, problem-solving skills, and entrepreneurial mindset to the college administration and faculty.

The valedictory function took place with students providing oral feedback in the presence of the honorable Principal of Kamaraj College of Engineering and Technology. The vote of thanks was presented by **Dr. S.Karthikumar**, One of the Programme Coordinators. Overall, the students expressed their appreciation for the enriching five days of value addition to their biotechnology careers.

Programme Coordinators

Dr K.Geetha

Dr S.Karthikumar

Dr R.Shyam Kumar

HoD/BT

Dr R.Shyam Kumar

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF BIOTECHNOLOGY

Expenditure details for Industry Certified Value Added Programme on

"ALGAL TECHNOLOGY AND APPLICATIONS"

6th to 10th January 2025

Programme Coordinators: Dr S.Karthikumar, Dr. K. Geetha & Dr.R.Shyam Kumar					
S.No	Particulars	Place	Bill No	Date	Amount (Rs.)
1	1 week Training fees on Algal Seaweeds	Ramanathapuram	SF-2024-01021	20/01/2025	Rs.1,00,170
2	Kit - Note pad and Pen - 53	KCET			Rs 2,650 (Proposed)
3	Refreshment & Lunch - Tea, Snacks & Lunch for 2 Resource persons for 4 days	KCET			Rs 2,650 (Proposed)
	Cost Per Student: Rs.1,06,000 / 53 = Rs.1,990			TOTAL	Rs.1,05,470

ABSTRACT	
Amount to be settled by Office via Online account transfer	Rs.1,00,170/-

Account details of Resource persons:	Amount to be transferred
Mr. R.P.Rajadurai Jesudoss, Manager, Sea2Farm, Ramnadapuram, Tamil Nadu E.Mail: jesuramnad@gmail.com; Ph: +919944390334 Bank Name: Tamilnad Mercantile Bank Ltd A/C No: 131150050800668 Branch: Ramanathapuram IFSC Code: TMBL0000131 MICR Code: 623060002	**Rs.1,00,170/-**

Programme Coordinators
Dr K.Geetha
Dr S.Karthikumar
Dr R.Shyam Kumar

HoD / BT
Dr R.Shyam Kumar

Original / Transport copy /Duplicate

Sea2Farm

6/104,C2 Muthunaal Road, Surankottai,
Ramanathapuram 623504.
9385685282 / 8825432445 / 6380493042

GSTIN : 33AHPPW0323E1ZH
Mail : sea2farmbusiness@gmail.com

Date : 20/1/2025

Invoice No : SF-2024-01021

Sea2farm
Value added sea biologicals

Tax Invoice

Billing Address :

Kamaraj college of engineering and technology,
SPGC Nagar, k Vellakulam, 625701.
04549 278791, 278171

GSTIN : 33AAATK1431B1ZH

Shipping Address :

Kamaraj college of engineering and technology,
SPGC Nagar, k Vellakulam, 625701.
04549 278791, 278171
(II yr students, Department of biotechnology)
GSTIN : 33AAATK1431B1ZH

S.No	Product Quantity (Nos)	Net Quantity (Kg)	Price/kg (Rs)	Total price (Rs)
1	Seaweed training kit & manual (ALGAL TECHNOLOGY Course for 53 II yr, B.Tech, Biotech students)	53	1800	95,400

Our Bank Details :

Account name : Sea2Farm
Bank : Tamilnadu merchantile bank
AC No : 131150050800668
IFSC Code : TMBL0000131
MICR Code : 623060002

Gross amount		95,400.00
Discount		0
Taxable amount		95,400.00
CGST	2.5 %	2,385.00
SGST	2.5 %	2,385.00
IGST		0.00
Invoice amount		**1,00,170.00**

Payment terms	100 % advance.
Delivery time	Within 2 days on confirmation

Bill Amount (Words) : One lakh one hundred and seventy rupees only.

Customer

Sea2Farm
Sea 2 Farm
6/104, Surankottai,
Ramanathapuram - 623 504.
Cell: 9385685282.