



# CHRIST COLLEGE (AUTONOMOUS)

(Regn. No. 137/75; No.F.22-1/2015/AC.U.G.C.)

Affiliated to University of Calicut and Accredited by NAAC 'A' Grade  
IRINJALAKUDA - 680 125, KERALA, INDIA

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No. 103/KSCSTE/2019-20

24-04-2020

From

The Principal

To

The Director,  
Kerala State Council for Science, Technology and Environment (KSCSTE),  
Sasthra Bhavan, Pattom,  
Thiruvananthapuram – 695 004, Kerala

Sub: Christ College (Autonomous), Irinjalakuda – National Science Day 2020 -  
Report to KSCSTE, Thiruvananthapuram, Reg:  
Ref: Lr. No. C – 14/ NSD / 2020 / KSCSTE dated 21/01/2020

Sir,

Herewith please find the report of the “National Science Day, 2020” undertaken by our College on 14<sup>th</sup> and 15<sup>th</sup> February 2020.

Thanking you,

Yours faithfully,

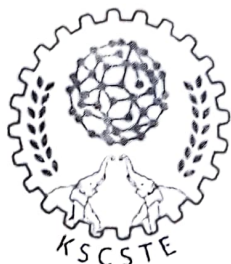
PRINCIPAL  
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA

Enclosures:

1. Report of the programme (2 days - 14<sup>th</sup> and 15<sup>th</sup> February, 2020) in connection with the National Science Day, 2020 with photographs and paper reports of the programme
2. Statement of Expenditure
3. Utilization Certificate
4. Brochure of 2 days programme on 14<sup>th</sup> and 15<sup>th</sup> February, 2020
5. Copy of the Certificate given to the participants
6. Copy of the Feedback form given to the participants
7. Details of Electronic clearing service facility for receiving payments
8. Copy of the email sent to KSCSTE by the Co-ordinator on 13-04-2020

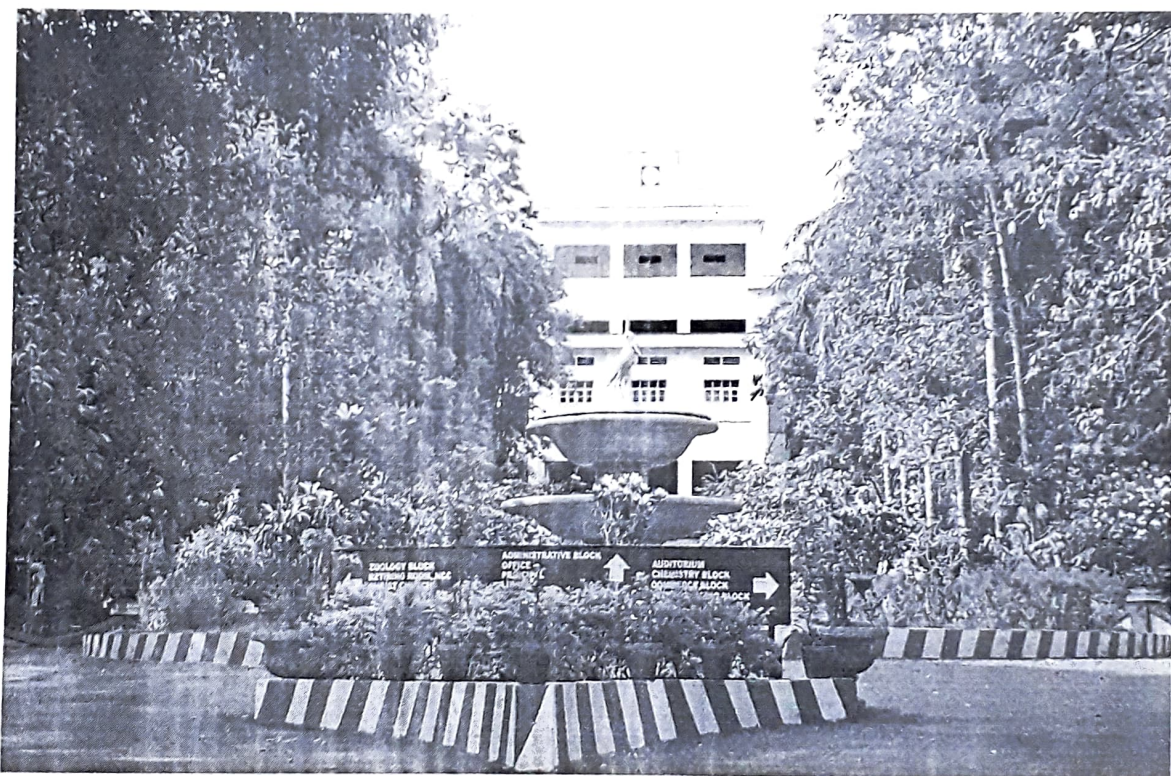
# National Science Day Celebrations, 2020 Report

Christ College (Autonomous), Irinjalakuda




Department of Science & Technology  
Government of India

*Report to Kerala State Council for Science, Technology and  
Environment (KSCSTE), Thiruvananthapuram*




Co-ordinator of the programme

  
Dr. TESSY PAUL P.  
Associate Professor &  
Head of the Department of Botany  
Christ College (Autonomous)  
Irinjalakuda-680 125



Principal

  
Dr. Mathew Paul Ukken  
PRINCIPAL  
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA

# **Christ College (Autonomous), Irinjalakuda**

*Affiliated to the University of Calicut and Re-accredited by NAAC (Grade A)*

www.christcollegeijk.edu.in

## **National Science Day, 2020 – REPORT**



Department of Science & Technology  
Government of India

Title of the programme:

**Two Day Algal Workshop on Diversity, Taxonomy and Applications**

Theme of National Science Day: **“Women in Science”**

Name of the coordinator: **Dr. TESSY PAUL P.,**  
Associate Professor & HOD, Dept. of Botany  
Christ College (Autonomous), Irinjalakuda,  
Thrissur District, PIN - 680 125  
Email: *tessyjohnnt@gmail.com* & Mobile No: 9446233104

Details of the institute: **Christ College (Autonomous), Irinjalakuda**  
Thrissur District, Kerala, PIN – 680 125

Organized by: **Dept. of Botany** in association with **Biodiversity Club**

Venue: Botany Lab, Christ College (Autonomous), Irinjalakuda

Date: **February 14<sup>th</sup> - 15<sup>th</sup>, 2020**

Sponsored by: **Kerala State Council for Science, Technology and Environment (KSCSTE), Thiruvananthapuram**

Supported by: **Department of Science and Technology (DST), Govt. of India.**  
(Banner – Fig. 1 – Page 10)

### **ORGANIZING COMMITTEE**

**Patron: Rev. Fr. Jacob Njerinjampilly CMI, Manager**

**Principal: Dr. Mathew Paul Ukken**

**Programme Coordinator: Dr. Tessa Paul P.** (Associate Professor & HOD, *Dept. of Botany and Joint Coordinator, Biodiversity Club*)

### **Supporting Team**

**Rev. Fr. Joy P.T. CMI** (Vice Principal & Assistant Professor, *Dept. of BPE & Joint Coordinator, Biodiversity Club*)

**Dr. Bijoy C.** (Assistant Professor, *Dept. of Zoology & Coordinator, Biodiversity Club*)

**Dr. Sr. Dilla Lose** (Assistant Professor, *Dept. of Zoology & Joint Coordinator, Biodiversity Club*)

**Mr. Antony Francis** (Lab Assistant, *Dept. of Botany*)

## PROGRAMME SCHEDULE

(Copy of Brochure attached)

**14-02-2020 (Friday)**

- Registration : 9.30 a.m. – 10.00 a.m.
- Inaugural session : 10.00 a.m. – 10.30 a.m.
- Prayer : **Ms. Sreya Kumar K.**
- Welcome Speech : **Dr. Tessy Paul P.**  
HOD & Associate Professor, Dept. of Botany,  
Coordinator of the programme
- Presidential Address : **Dr. Mathew Paul Ukken,**  
Principal, Christ College, Irinjalakuda
- Inaugural Address : **Rev. Fr. Jacob Njerinjampilly CMI**  
Manager, Christ College, Irinjalakuda
- Felicitation : **Rev. Fr. Joy P. T. CMI**  
Vice Principal & Assistant Professor, Dept. of BPE  
and Joint Coordinator, Biodiversity Club
- Presentation of Memento to the Resource person : **Rev. Fr. Jacob Njerinjampilly CMI**  
Manager, Christ College, Irinjalakuda
- Vote of Thanks : **Ms. Nimitha C. N.**  
Student Coordinator, Biodiversity Club
- Tea Break : 10.30 a.m. – 10.45 a.m.
- Technical session 1** : 10.45 a.m. – 11.45 a.m.
- Invited talk (Topic): ***‘Microalgae along the Kerala Coast:  
A special reference to Seaweeds of Malabar Coast’***  
**Dr. Sanilkumar K.G.,**  
Assistant Professor & HOD, PG & Research Dept. of Botany,  
SNM College, Maliankara, Ernakulam District, Kerala
- Hands on Training 1** : 11.45 a.m.- 12: 30 p.m.  
***Seaweed Diversity of Malabar Coast***  
**Dr. Sanilkumar K.G.,**  
Assistant Professor & HOD, PG & Research Dept. of Botany,  
SNM College, Maliankara, Ernakulam District, Kerala
- Lunch Break : 12.30 p.m. – 1.30 p.m.

**Technical session 2** : 1.30 p.m. – 2.45 p.m.

Talk (Topic): ***'Freshwater algae of Kerala: Diversity, taxonomy and applications'***

**Dr. Tessy Paul P.,**

Associate Professor & HOD, Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda,  
Thrissur District, Kerala

Tea Break : 2.45 p.m. – 3.00 p.m.

**Hands on Training 2** : 3.00 p.m.- 4: 00 p.m.

***The Freshwater Algal Diversity of Thrissur District, Kerala***

**Dr. Tessy Paul P.,**

Associate Professor & HOD, Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda,  
Thrissur District, Kerala

**Hands on Training 3** : 4.00 p.m.- 4: 30 p.m.

***Methods of documentation of algae: Microphotographs and Camera Lucida diagrams***

**Dr. Tessy Paul P.,**

Associate Professor & HOD, Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda,  
Thrissur District, Kerala

### **15-02-2020 (Saturday)**

**Technical session 3** : 9.15 a.m. – 10.00 a.m.

Invited talk (Topic): ***The taxonomy of River algae***

**Ms. Devikrishna C.S.,**

Junior Research Fellow (UGC), PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District, Kerala

**Technical session 4** : 10.00 a.m. – 11.00 a.m.

Invited talk (Topic): ***'A scientific approach to unravel the conventional and modern taxonomic tools in Diatom taxonomy***

**Mr. Geo Joseph,**

Junior Research Fellow (KSBB), PG & Research Dept. of Botany,  
Sacred Heart College (Autonomous), Thevara, Ernakulum District, Kerala

Tea Break : 11.00 a.m. – 11.15 a.m.

**Hands on Training 4** : 11.15 a.m.- 12: 30 p.m.

***The techniques for the estimation phytoplankton in water samples***

**Prof. Joshy K. Simon,**

Associate Professor & HOD (Retd.), Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

Lunch Break : 12.30 p.m. – 1.15 p.m.

**Technical session 5** : 1.15 a.m. – 2.00 p.m.

Invited talk (Topic): ***Microalgae: Potent resource for the mankind***

**Ms. Shaheeda T.M.,**

Assistant Professor, PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District, Kerala

**Hands on Training 5** : 2.00 p.m. - 3.00 p.m.

***Algal diversity of perennial ponds and temple ponds***

**Dr. Tessa Paul P.,**

Associate Professor & HOD, Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

**Hands on Training 6** : 3.00 p.m.- 3: 45 p.m.

***The algal diversity of river ecosystems***

**Ms. Devikrishna C.S.,**

Junior Research Fellow (UGC), PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District, Kerala

Tea Break : 3.45 p.m. – 4.00 p.m.

Closing Ceremony : 4.00 p.m. – 4.30 p.m.  
& Distribution of Certificates

## **DESCRIPTION OF ACTIVITIES**

In connection with the National Science Day 2020, the Dept. of Botany in association with Biodiversity Club, Christ College (Autonomous), Irinjalakuda had organized **Two Day Algal Workshop on Diversity, Taxonomy and Applications** on February 14<sup>th</sup> and 15<sup>th</sup>, 2020 (Copy of brochure attached as enclosure).

### **Day 1: 14-02-2020 (Friday)**

**Venue:** Botany Lab, Christ College (Autonomous), Irinjalakuda

Registration : 9.30 a.m. – 10.00 a.m.

**Inaugural Session** : 10.00 a.m. – 10.30 a.m. (Photos 2 to 15)

Rev. Fr. Jacob Njerinjampilly CMI, Manager, Christ College, Irinjalakuda, inaugurated the programmes of National Science Day on 14<sup>th</sup> February 2020 by lighting the lamp (Paper reports attached - pages 27-32). Dr. Tessa Paul P., HOD and Associate Professor, Department of Botany, Coordinator of the programme & Joint Coordinator, Biodiversity Club welcomed the gathering. The function was presided over by Dr. Mathew Paul Ukken, Principal, Christ College (Autonomous), Irinjalakuda. Dr. Sanilkumar M.G.,

Assistant Professor & HOD, PG & Research Dept. of Botany, SNM College, Maliankara, Ernakulam, was the chief guest.

Rev. Fr. Joy P. T. CMI, Vice Principal & Assistant Professor, Dept. of BPE, and Joint Coordinator, Biodiversity Club, felicitated on the occasion. Ms. Nimitha C.N., Student Coordinator, Biodiversity Club gave vote of thanks. The students and teachers of the Christ College (Autonomous), Irinjalakuda and participants registered from different colleges attended the programme.

### **Technical Session 1 & Hands on Training 1** (Photos 16 to 23)

The invited talk on the *Microalgae along the Kerala Coast: A special reference to Seaweeds of Malabar Coast* was very informative to the participants. Dr. Sanilkumar M.G., highlighted the importance of Sea weeds and their applications. Dr. Tessy Paul P., Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda and co-ordinator of the programme, introduced the resource person to the participants.

During the hands on training session the *Seaweed Diversity of Malabar Coast* was explained and the specimens were displayed. Dr. Sanilkumar M.G., explained about 30 Sea weeds found in the Malabar coast and explained the morphological characters and its applications. Also explained how these specimens are identified taxonomically. Mr. Sidhiv S. Algeri, IV Semester MA History, Student Coordinator, Biodiversity Club gave vote of thanks.

### **Technical session 2 & Hands on Training 2 and 3** (Photos 24 to 28)

The *Freshwater algae of Kerala: Diversity, taxonomy and applications* were explained by Dr. Tessy Paul P., HOD & Associate Professor, Department of Botany and Coordinator of the programme. The details regarding the phytoplankton diversity of Kerala and the taxonomic characters were explained. The applications of phytoplankton in various fields and its importance in day-to-day life of human beings were explained. During the hands on training session 2 the common phytoplankton commonly found in Kerala were done by the participants practically.

The hands on training session 3 entitled *Methods of documentation of algae: Microphotographs and Camera Lucida diagrams* explained how the proper documentation of algae by have to be done during a research study. Ms. Anna Swetha George, II Semester B.Sc. Zoology and Biodiversity Club member, introduced the resource person to the

audience. Mr. Annose Basil P., IV Semester B.Sc. Zoology and Biodiversity Club member, gave vote of thanks.

### **Day 2: 15-02-2020 (Saturday)**

#### **Technical session 3** (Photos 29 to 31)

**Ms. Devikrishna C.S.**, Junior Research Fellow (UGC), PG & Research Dept. of Botany, MES Asmabi College, P. Vemballur, Thrissur District, Kerala explained *the taxonomy of River algae* to the participants of the workshop. Mr. Aditya K., II Semester B.Sc. Geology and Biodiversity Club member, introduced the resource person to the audience. Ms. Merin Joseph, IV Semester B.Sc. Zoology and Biodiversity Club member, gave vote of thanks.

#### **Technical session 4** (Photos 32 to 36)

The invited talk on *'A scientific approach to unravel the conventional and modern taxonomic tools in Diatom taxonomy'* was handled by Mr. Geo Joseph, Junior Research Fellow (KSBB), PG & Research Dept. of Botany, Sacred Heart College (Autonomous), Thevara, Ernakulum District, Kerala. The basics regarding the identification and cleaning methods for the diatoms were explained. The application levels of diatoms were also covered during the session. Ms. Jickcy Jose, II Semester B.Sc. Zoology and Biodiversity Club member, introduced the resource person to the audience. Mr. Harinarayanan P.C., IV Semester B.Sc. Zoology and Biodiversity Club member, gave vote of thanks.

#### **Hands on Training 4** (Photos 37 to 41)

The hands on training on *the techniques for the estimation phytoplankton in water samples* by Prof. Joshy K. Simon, former HOD and Associate Professor, Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala was very advantageous to the participants as it is a tool in biodiversity studies. Dr. Tessy Paul P., Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda and co-ordinator of the programme, introduced Prof. Joshy K. Simon to the participants. Mr. Geo Joseph, JRF, PG & Research Dept. of Botany, Sacred Heart College (Autonomous), Thevara gave vote of thanks.



**Technical session 5** (Photos 42 to 46)

The invited talk on *Microalgae: Potent resource for the mankind* by Ms. Shaheeda T.M., Assistant Professor, PG & Research Dept. of Botany, MES Asmabi College, P. Vemballur, Thrissur District, Kerala, was informative to the participants. It covers the modern techniques for the isolation and culturing of phytoplankton.

Ms. Anumol Poullose, IV Semester B.Sc. Zoology and Biodiversity Club member, introduced the resource person to the audience. Mr. Jithin Jose, IV Semester B.Sc. Zoology and Biodiversity Club member, gave vote of thanks.

**Hands on Training 5** (Photos 47 to 48)

The hands on training on *Algal diversity of perennial ponds and temple ponds* was handled by Dr. Tessy Paul P., Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala. Ms. Aastha Margret Jose, II Semester Zoology, and Biodiversity Club member gave vote of thanks.

**Hands on Training 6** (Photos 49 to 52)

The hands on training on *the algal diversity of river ecosystems* was handled by **Ms. Devikrishna C.S.**, Junior Research Fellow (UGC), PG & Research Dept. of Botany, MES Asmabi College, P. Vemballur, Thrissur District, Kerala. The water samples from Chalakudy River and Karuvannur River were done by the participants. Mr. Sreeram varier, II Semester M.Sc. Environmental Science and Biodiversity Club member, gave vote of thanks.

**Closing Session and the Certificate Distribution of the Seminar** (Photos 53 to 68)

The delegates share their experiences regarding the Algal Workshop. According to them the workshop intentions were satisfied their needs. The certificates for the participants were distributed by the Dr. Mathew Paul Ukken, Principal, Christ College (Autonomous), Irinjalakuda. Dr. Tessy Paul P., HOD and Associate Professor, Department of Botany, Joint Co-ordinator Biodiversity Club and the Co-ordinator of the programme gave the vote of thanks.

### Details of the Resource Persons

1. **Dr. Sanilkumar K.G.**, Assistant Professor & HOD, PG & Research Dept. of Botany, SNM Maliankara, Ernakulam District, Kerala
2. **Prof. Joshy K. Simon**, Former HOD & Associate Professor (Retd.), Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala
3. **Dr. Tessy Paul P.**, Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala
4. **Ms. Shaheeda T. M.**, Assistant Professor, PG & Research Dept. of Botany, MES Asmabi College, P. Vemballur, Thrissur District
5. **Mr. Geo Joseph**, Junior Research Fellow (KSBB), PG & Research Dept. of Botany, Sacred Heart College (Autonomous), Thevara, Ernakulam District, Kerala
6. **Ms. Devikrishna C.S.**, Junior Research Fellow (UGC), PG & Research Dept. of Botany, MES Asmabi College, P. Vemballur, Thrissur District, Kerala

(Honorarium given to 3 resource persons only)

### Delegates of the Algal Workshop:

The two Day Algal Workshop was attended by 32 registered delegates including teachers, research scholars and UG / PG students of Christ College (Autonomous), Irinjalakuda and from different colleges and research institutions all over Kerala.

### The details of the delegates:

Sl. No:	Name	Designation	Name of Department	Organization
1	Dr. Sreeja Krishnan	Faculty	Botany	SN College, Cherthala
2	Sabeena. A. M.	Faculty	Botany	Christ College (Autonomous) Irinjalakuda
3	Dr. Sudheep N. M.	Faculty	Botany	St. Albert's College (Autonomous), Ernakulam
4	Ancy Stoy	Research Scholar	Fisheries	CMFRI, Cochin
5	Balamuralikrishna	Research Scholar	Environmental Studies	School of Environmental Studies, CUSAT, Cochin
6	Swetha Madhavan M.	Research Scholar	Botany	Govt. Brennen College, Thalassery

7	Silsha Lakshmanan P.	Research Scholar	Botany	Sir Syed College, Taliparamba, Kannur
8	Arun T. Ram	Research Scholar	Botany	M.E.S Asmabi College, P. Vemballur
9	Vinu Thomas	Research Scholar	Botany	M.E.S Asmabi College, P. Vemballur
10	Jayasree S.	Research Scholar	Botany	Maharaja's College (Autonomous), Ernakulam
11	Cynthia Mitchell Dias	Research Scholar	Botany	St. Teresa's College (Autonomous), Ernakulam
12	Elizabeth Lesny Jacob	M. Phil. Student	Botany	St. Teresa's College (Autonomous), Ernakulam
13	Sneha N. L.	PG Passed out	Environmental Science	Christ College (Autonomous), Irinjalakuda
14	Sareena P Mohamed	PG Passed out	Botany	Christ College (Autonomous), Irinjalakuda
15	Ahlam V. A.	PG Student	Botany	M.E.S Asmabi College, P. Vemballur
16	Riya Mary Cherian	PG Student	Botany & Biotechnology	Bishop Moore College, Mavelikara
17	Ammini C J	PG Student	Botany	Carmel College, Mala
18	Keerthana T P	PG Student	Botany	Carmel College, Mala
19	Selma Johnson	PG Student	Botany	Carmel College, Mala
20	Vaishna Thamban	PG Student	Botany	Carmel College, Mala
21	Yardly Mariya Benny	PG Student	Botany	Carmel College, Mala
22	Brigith Veneesa D'silva	PG Student	Botany	Carmel College, Mala
23	Ranjima M	PG Student	Botany	Christ College (Autonomous), Irinjalakuda
24	Rejin George	PG Student	Botany	Christ College (Autonomous), Irinjalakuda
25	Sana Mariya James	PG Student	Environmental Science	Christ College (Autonomous), Irinjalakuda
26	Shreyas Sajeev T.	PG Student	Environmental Science	Christ College (Autonomous), Irinjalakuda
27	Sreelakshmi T.S.	PG Student	Botany	Christ College (Autonomous), Irinjalakuda

28	Bincy Davis	PG Student	Botany	Christ College (Autonomous), Irinjalakuda
29	Aiswarya T. Nair	PG Student	Botany	SN College, Cherthala
30	Anagha A. R.	PG Student	Botany	SN College, Cherthala
31	Anagha P.	PG Student	Botany	SN College, Cherthala
32	Arjun M.	UG Student	Botany	KKTM College, Pullut

### Number and details of the participants

#### 14-02-2020 (Friday)

- Inaugural Session - Workshop participants (registered) – 32, IV Sem B.Sc. Zoology Students - 22, Biodiversity Club members - 15 and Teachers - 14
- Technical Session 1 - Workshop participants (registered) – 32; IV Sem B.Sc. Zoology Students - 22; Biodiversity Club members - 10 and Teachers - 6
- Technical Session 2 - Workshop participants (registered) – 32; II Sem B.Sc. Zoology Students - 34; Biodiversity Club members - 10 and Teachers - 4
- Hands on Training Sessions 1, 2 & 3 – Restricted to Workshop participants - 32

#### 15-02-2020 (Saturday)

- Hands on Training Sessions 4, 5 & 6 - Restricted to Workshop participants - 32
- Technical Sessions 3, 4, 5 - Workshop participants (registered) – 32; Biodiversity Club members - 15 and Teachers - 3

### Captioned Photographs



Fig. 1 - Banner of the programme acknowledging KSCSTE

## INAUGURAL SESSION



Fig. 2 - Welcome Speech  
**Dr. Tessy Paul P.**  
HOD & Associate Professor, Dept. of Botany  
& Co-ordinator of the programme,



Fig. 3 - Presidential Address  
**Dr. Mathew Paul Ukken**  
Principal, Christ College, Irinjalakuda



Fig. 4 - Inauguration of the workshop by **Rev. Fr. Jacob Njerinjampilly CMI**,  
Manager, Christ College (Autonomous), Irinjalakuda



Fig. 5 - Chief Guest - **Dr. Sanilkumar M.G.**,  
Assistant Professor & HOD, PG & Research Dept. of Botany,  
SNM College, Maliankara, Ernakulam



Fig. 6 - **Dr. Mathew Paul Ukken**,  
Principal, Christ College (Autonomous), Irinjalakuda



**Fig. 7 - Rev. Fr. Joy P. T. CMI**  
Vice Principal  
Assistant Professor, Dept. of BPE



**Fig. 8 - Dr. Tessa Paul P.**  
Co-ordinator of the programme  
HOD & Associate Professor, Dept. of Botany



**Fig. 9 - Ms. Sreeja Krishnan**  
Assistant Professor, Dept. of Botany  
SN College, Cherthala  
- Representing the participants of workshop



**Fig. 10 - Mr. Sidhiv S. Algeri**  
& **Ms. Nimitha C. N.**  
Student Coordinators, Biodiversity Club



**Fig. 11 - Inaugural Address**  
**Rev. Fr. Jacob Njerinjampilly CMI**  
Manager, Christ College, Irinjalakuda



**Fig. 12 - Felicitation**  
**Rev. Fr. Joy P. T. CMI**  
Vice Principal  
& Assistant Professor, Dept. of BPE



Fig. 13 - Presentation of Memento to Dr. Sanilkumar M.G., (Resource person)  
by **Rev. Fr. Jacob Njerinjampilly CMI**  
Manager, Christ College, Irinjalakuda



Fig. 14 - **View of audience**



Fig. 15 - **Vote of thanks**  
**Ms. Nimitha C.N.**  
Student Coordinator, Biodiversity Club  
IV Sem B.Sc. Zoology



### Technical session 1



Fig. 16 - Dr. Tessy Paul P. introducing the resource person Fig. 17 - View of participants



Fig. 18 - Invited talk on '*Microalgae along the Kerala Coast: A special reference to Seaweeds of Malabar Coast*'  
- Dr. Sanilkumar M.G., Assistant Professor, PG & Research Dept. of Botany, SNM College, Maliankara, Ernakulam



Fig. 19 & 20 - Interaction of participants with the resource person

## Hands on Training 1



Fig. 21 - Hands on Training by Dr. Sanilkumar M.G. on *Seaweed diversity of Malabar Coast*



Fig. 22 - Seaweeds displayed



Fig. 23 - Dr. Sanilkumar M.G. receiving certificate from Dr. Tessy Paul P., Coordinator of the Programme and HOD, Dept. of Botany

### Technical session 2



Fig. 24 – View of Audience Fig. 25 - Ms. Anna Swetha George introducing Dr. Tessy Paul P.



Fig. 26 - Talk on '*Freshwater algae of Kerala: Diversity, taxonomy and applications*' - Dr. Tessy Paul P., Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda



Fig. 27 - *The Freshwater Algal Diversity of Thrissur District, Kerala*  
**Dr. Tessy Paul P.**, Associate Professor & HOD, Dept. of Botany,  
 Christ College (Autonomous), Irinjalakuda

**Hands on Training 3:**



Fig. 28 - *Methods of documentation of algae: Microphotographs and Camera Lucida diagrams*  
**Dr. Tessy Paul P.**, Associate Professor & HOD, Dept. of Botany,  
 Christ College (Autonomous), Irinjalakuda

## Day 2: 15-02-2020 (Saturday)

Technical session 3: 9.15 a.m. – 10.00 a.m.



Fig. 29 - Mr. Aditya K., introducing the resource person      Fig. 30 - Ms. Devikrishna C. S



Fig. 31 - Invited talk (Topic): *The taxonomy of River algae*

**Ms. Devikrishna C. S., Junior Research Fellow (UGC), PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District**

#### Technical session 4



Fig. 32 - Ms. Jickcy Jose introducing the resource person Fig. 33 - View of participants



Fig. 34 - Invited talk on '*A scientific approach to unravel the conventional and modern taxonomic tools in Diatom Taxonomy*  
**Mr. Geo Joseph**, Junior Research Fellow (KSBB), PG & Research Dept. of Botany,  
 Sacred Heart College (Autonomous), Thevara, Ernakulum



Fig. 35 - Mr. Geo Joseph receiving certificate  
 from Prof. Joshy K. Simon,  
 Former HOD, Dept. of Botany



Fig. 36 - Vote of thanks  
 by Mr. Harinarayanan P.C.

## Hands on Training 4



Fig. 37 & 38 - *The techniques for the estimation of phytoplankton in water samples*  
**Prof. Joshy K. Simon**, Associate Professor & HOD (Retd.), Dept. of Botany,  
 Christ College (Autonomous), Irinjalakuda



Fig. 39 - Hands on Training



Fig. 40 - **Prof. Joshy K. Simon** receiving certificate  
 from **Dr. Sreeja Krishnan**, Assistant Professor,  
 Dept. of Botany, S.N. College, Cherthala

Fig. 41 - **Vote of thanks**  
 to **Prof. Joshy K. Simon**  
 by **Mr. Geo Joseph**

Technical session 5: 1.15 p.m. – 2.00 p.m.



Fig. 42 - Ms. Anumol Poulose introducing the resource person      Fig. 43 - View of participants



Fig. 44 - Invited talk on *Microalgae: Potent resource for the mankind*  
Ms. Shaheeda T. M., Assistant Professor, PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District



Fig. 45 - Ms. Shaheeda T.M. receiving Certificate from  
Dr. Tessy Paul P., Coordinator of Programme  
and HOD, Dept. of Botany



Fig. 46 - Vote of thanks  
to Ms. Shaheeda T.M.  
by Mr. Jithin Jose



### Hands on Training 5.



Fig. 47 - Hands on Training



Fig. 48 - *Algal diversity of perennial ponds and temple ponds*  
**Dr. Tessy Paul P.**, Associate Professor & HOD, Dept. of Botany,  
 Christ College (Autonomous), Irinjalakuda

### Hands on Training 6:



Fig. 49 - Hands on Training



Fig. 50 - Hands on Training - *The algal diversity of river ecosystems*  
Ms. Devikrishna C. S., JRF (UGC), MES Asmabi College, P. Vemballur, Thrissur



Fig. 51 - Participants of Workshop



Fig. 52 - Ms. Devikrishna C.S. receiving certificate  
from Prof. Joshy K. Simon  
Former HOD, Dept. of Botany



Fig. 53 & 54 - Participants sharing their experiences



Fig. 55 - Closing Ceremony



Fig. 56 - Participants, Resource persons and Volunteers with Dr. Mathew Paul Ukken, Principal, Christ College (Autonomous), Irinjalakuda



**Fig. 57 - 68 - Participants of workshop receiving certificates from Dr. Mathew Paul Ukken, Principal, Christ College (Autonomous), Irinjalakuda**

### PAPER REPORTS

# ക്രൈസ്റ്റ് കോളജിൽ ദേശീയ ശില്പശാല

ഇരിങ്ങാലക്കുട: ദേശീയ ശാസ്ത്ര ദിനത്തിന്റെ ഭാഗമായി ഇരിങ്ങാലക്കുട ക്രൈസ്റ്റ് കോളജ് ബോട്ടണി വിഭാഗം ദ്വിദിന ശില്പശാല സംഘടിപ്പിച്ചു. കേന്ദ്ര ശാസ്ത്ര സാങ്കേതിക വകുപ്പിന്റെയും (ഡി എസ് ടി), കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റെയും (കെ എസ് സി എസ് ടി ഇ) സഹകരണത്തോടെയാണു രണ്ടു ദിവസമായി നടത്തിയ ശില്പശാല സംഘടിപ്പിച്ചത്.

ശാസ്ത്ര രംഗത്ത് വനിതകളുടെ സംഭാവന എന്ന കേന്ദ്ര വിഷയത്തിലൂന്നിയാണ് ഈ വർഷം ദേശീയ ശാസ്ത്രദിനം ആചരിക്കുന്നത്. ശില്പശാല കോളജ് മാനേജർ ഫാ. ജോക്കബ് തൈരിത്താനിള്ളി ഉദ്ഘാടനം ചെയ്തു. പ്രിൻസിപ്പൽ ഡോ. മാത്യു പോൾ ഉറക്കൻ അധ്യക്ഷത വഹിച്ചു.

വൈസ് പ്രിൻസിപ്പൽ ഫാ.



ഇരിങ്ങാലക്കുട ക്രൈസ്റ്റ് കോളജിൽ ദേശീയ ശാസ്ത്ര ദിനത്തിന്റെ ഭാഗമായി കോളജിലെ ബോട്ടണി വിഭാഗം സംഘടിപ്പിക്കുന്ന ദ്വിദിന ദേശീയ ശില്പശാല മാനേജർ ഫാ. ജോക്കബ് തൈരിത്താനിള്ളി ഉദ്ഘാടനം ചെയ്യുന്നു.

പി.ടി. ജോയ്, ശില്പശാല കോ-ഓർഡിനേറ്റർ ഡോ. പി. ടെസി പോൾ എന്നിവർ പ്രസംഗിച്ചു. ഡോ. എം.ജി. സനിൽകുമാർ, പ്രഫ. ജോഷി കെ. സൈമൺ,

ഡോ. ടെസി പോൾ, പ്രഫ. ടി. എം. ഷാഹിദ, പ്രഫ. സി.എസ്. ദേവികൃഷ്ണ, പ്രഫ. ജിയോ ജോസഫ് എന്നിവർ നേതൃത്വം നൽകി.

Deepika Daily - 16-February-2020 - Page-10

# ദ്വിദിന ശില്പശാല തുടങ്ങി



▶ ദേശീയ ശാസ്ത്ര ദിനത്തിന്റെ ഭാഗമായി ഇരിങ്ങാലക്കുട ക്രൈസ്റ്റ് കോളേജ് ബോട്ടണി വിഭാഗം സംഘടിപ്പിക്കുന്ന ദ്വിദിന ശില്പശാല മാനേജർ ഫാ. ജേക്കബ് ഞെരിഞ്ഞാമ്പള്ളി ഉദ്ഘാടനം ചെയ്യുന്നു

ഇരിങ്ങാലക്കുട ▶ കേന്ദ്ര ശാസ്ത്ര സാങ്കേതിക വകുപ്പിന്റേയും കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റേയും സഹകരണത്തോടെ ക്രൈസ്റ്റ് കോളേജിലെ ബോട്ടണി വിഭാഗം രണ്ടു ദിവസമായി സംഘടിപ്പിക്കുന്ന ശില്പശാലയ്ക്ക് തുടക്കമായി. 'ശാസ്ത്ര രംഗത്ത് വനിതകളുടെ സംഭാവന' എന്ന കേന്ദ്ര വിഷയത്തിലൂന്നിയാണ് ഈ വർഷം ദേശീയ ശാസ്ത്രദിനം ആചരിക്കുന്നത്. കോളേജ് മാനേജർ ഫാ. ജേക്കബ് ഞെരിഞ്ഞാമ്പള്ളി ഉദ്ഘാടനം ചെയ്തു. പ്രിൻസിപ്പൽ

ഡോ. മാത്യു പോൾ ഈക്കൻ അധ്യക്ഷനായിരുന്നു. വൈസ് പ്രിൻസിപ്പൽ ഫാ. ജോയ് പി.ടി., ശില്പശാല കോ-ഓർഡിനേറ്റർ ഡോ. ടെസ്സി പോൾ പി. എന്നിവർ പ്രസംഗിച്ചു.

ഡോ. സനിൽകുമാർ എം.ജി., പ്രൊഫ. ജോഷി കെ. സൈമൺ, ഡോ. ടെസ്സി പോൾ, പ്രൊഫ. ഷാഹിദ ടി.എം., പ്രൊഫ. ദേവികൃഷ്ണ സി.എസ്., പ്രൊഫ. ജിയോജോസഫ് എന്നിവർ നേതൃത്വം നൽകി. ശില്പശാല ശനിയാഴ്ച സമാപിക്കും.



ക്രൈസ്റ്റ് കോളജ് മാനേജർ ഫാ. ജേക്കബ് തൈരിത്തമ്പള്ളി ശില്പശാല ഉദ്ഘാടനം ചെയ്യുന്നു

## ദേശീയ ശാസ്ത്ര ദിനം: ദ്വിദിന ശില്പശാല ഇന്ന് സമാപിക്കും

ഇരിങ്ങാലക്കുട: കേന്ദ്ര ശാസ്ത്ര സാങ്കേതിക വകുപ്പിന്റെയും കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റെയും സഹകരണത്തോടെ രണ്ടുദിവസമായി ക്രൈസ്റ്റ് കോളജിൽ നടന്ന ശില്പശാല കോളജ് മാനേജർ ഫാ. ജേക്കബ് തൈരിത്തമ്പള്ളി ഉദ്ഘാടനം ചെയ്തു. പ്രിൻസിപ്പൽ ഡോ. മാത്യു പോൾ ഉറക്കൻ അധ്യക്ഷത

വഹിച്ചു. ഫാ. ജോയ് പീണിക്കപറമ്പിൽ, ശില്പശാല കോഓഡിനേറ്റർ ഡോ. പി. ടെസി പോൾ എന്നിവർ സംസാരിച്ചു. ഡോ. എം. ജി. സനിൽകുമാർ, പ്രഫ. ജോഷി കെ. സൈമൺ, ഡോ. ടെസി പോൾ, പ്രഫ. ടി.എം. ഷാഹിദ്, പ്രഫ. സി.എസ്. ദേവികൃഷ്ണ, പ്രഫ. ജിയോ ജോസഫ് എന്നിവർ നേതൃത്വം നൽകും.

# ക്രൈസ്റ്റ് കോളജിൽ ദേശീയ ശില്പശാല

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**SUB NEWS**

February 14, 2020 Irinjalakuda Voice

കേന്ദ്ര ശാസ്ത്ര സാങ്കേതിക വകുപ്പിന്റെയും (DST) കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റെയും (KSCSTE) സഹകരണത്തോടെയാണ് രണ്ടു ദിവസമായി നടത്തപ്പെടുന്ന ശില്പശാല സംഘടിപ്പിക്കുന്നത്. 'ശാസ്ത്ര രംഗത്ത് വനിതകളുടെ സംഭാവന' എന്ന കേന്ദ്ര വിഷയത്തിലൂന്നിയാണ് ഈ വർഷം ദേശീയ ശാസ്ത്രദിനം ആചരിക്കുന്നത്. ശില്പശാല കോളേജ് മാനേജർ ഫാ. ജേക്കബ്ബ് ഒത്തേരിത്തമ്പള്ളി ഉദ്ഘാടനം ചെയ്തു. പ്രിൻസിപ്പൽ ഡോ. മാത്യു പോൾ ഉദ്ദേശിച്ചു. വൈസ് പ്രിൻസിപ്പൽ ഫാ. ജോയ് വി ടി, ശില്പശാല കോ ഓർഡിനേറ്റർ ഡോ. ടെസ്റ്റി ഫോൾ പി. എന്നിവർ പ്രസംഗിച്ചു. ഡോ. സന്നിതകുമാർ എം. ജി., ഫ്രാഫ. ജോഷി കെ സൈമൺ, ഡോ. ടെസ്റ്റി ഫോൾ, ഫ്രാഫ. ഷാഫിദ ടി. എം., ഫ്രാഫ. ദേവികൃഷ്ണ സി. എസ്., ഫ്രാഫ. ജിയോ ജോസഫ് എന്നിവർ നേതൃത്വം നൽകും. ശില്പശാല നാളെ സമാപിക്കും.

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# ദേശീയ ശാസ്ത്ര ദിനത്തിന്റെ ഭാഗമായി ഇരിങ്ങാലക്കുട ക്രൈസ്റ്റ് കോളേജ് ബോട്ടണി വിഭാഗം സംഘടിപ്പിക്കുന്ന ദിവിന ശില്പശാലക്ക് തുടക്കമായി

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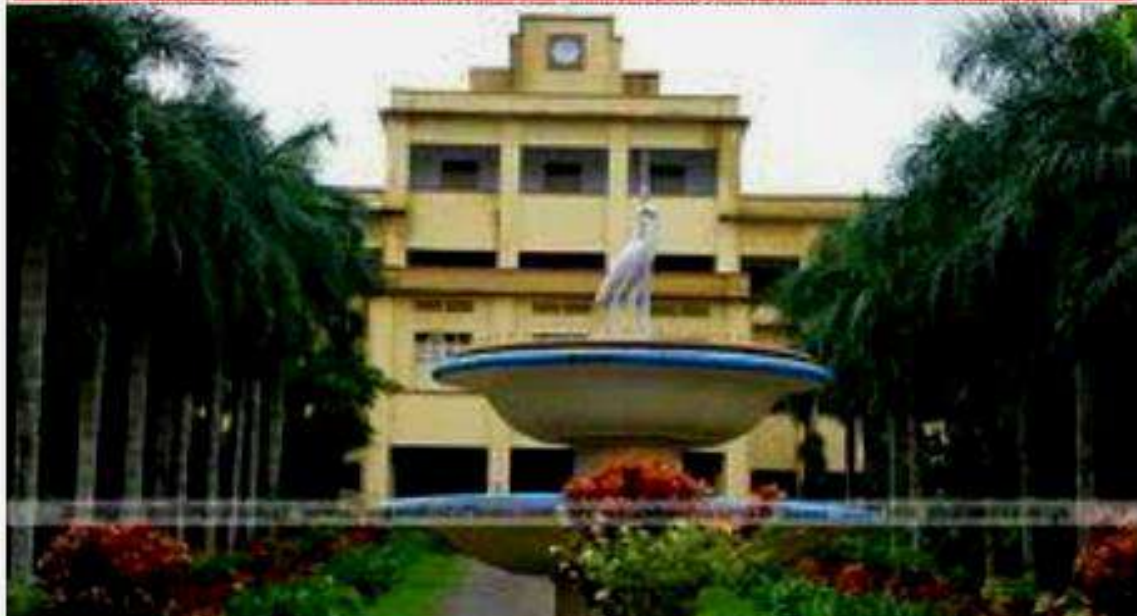
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ഒപ്പം

| Only positive... |



ഇരിങ്ങാലക്കുട: ദേശീയ ശാസ്ത്ര ദിനത്തിന്റെ ഭാഗമായി ഇരിങ്ങാലക്കുട ക്രൈസ്റ്റ് കോളേജ് ബോട്ടണി വിഭാഗം സംഘടിപ്പിക്കുന്ന ദിവിന ശില്പശാലക്ക് തുടക്കമായി. കേന്ദ്ര ശാസ്ത്ര സാങ്കേതിക വകുപ്പിന്റെയും (DST) കേരള ശാസ്ത്ര സാങ്കേതിക കൗൺസിലിന്റെയും (KSCSTE) സഹകരണത്തോടെയാണ് രണ്ടു ദിവസമായി നടത്തപ്പെടുന്ന ശില്പശാല സംഘടിപ്പിക്കുന്നത്. 'ശാസ്ത്ര രംഗത്ത് വനിതകളുടെ സംഭാവന' എന്ന കേന്ദ്ര വിഷയത്തിലൂന്നിയാണ് ഈ വർഷം ദേശീയ ശാസ്ത്രദിനം ആചരിക്കുന്നത്.

ശില്പശാല കോളേജ് മാനേജർ ഫാ. ജേക്കബ് തൈതിത്തമ്പള്ളി ഉദ്ഘാടനം ചെയ്തു. പ്രിൻസിപ്പൽ ഡോ. മാത്യു പോൾ ഉദ്ദേശ്യ അധ്യക്ഷനായിരുന്നു. വൈസ് പ്രിൻസിപ്പൽ ഫാ. ജോയ് ഹി ടി, ശില്പശാല കോ ഓർഡിനേറ്റർ ഡോ. ടെസ്റ്റി പോൾ പി. എന്നിവർ പ്രസംഗിച്ചു. ഡോ. സന്നിതകുമാർ എം. ജി, പ്രൊഫ. ജോഷി കെ സൈമൺ, ഡോ. ടെസ്റ്റി പോൾ, പ്രൊഫ. ഷാഹിദ ടി. എം, പ്രൊഫ. ദേവികൃഷ്ണ സി.എസ്, പ്രൊഫ. ജിയോ ജോസഫ് എന്നിവർ നേതൃത്വം നൽകും. ശില്പശാല നാളെ സമാപിക്കും.

Irinjalakuda Times (Online) - 14-02-2020

<https://irinjalakudatimes.com/archives/26707>

**Feedback from the Target Group:**

The feedback was collected from all the participants in a format (Copy of format attached). The main objective of the workshop was to give awareness about the algae which is an important group of organisms which act as producer in aquatic ecosystems. The taxonomy of this lower group was not studied fully in Kerala. The student community can take up small projects of algae which will help to complete the documentation of this lower group in Kerala. The workshop introduced the algal taxonomy to the students in basic levels and hence they can do their projects in an easy way.

\*\*\*\*\*



Dr. TESSY PAUL P.  
Associate Professor &  
Head of the Department of Botany  
Christ College (Autonomous)  
Irinjalakuda-680 125



PRINCIPAL  
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA



**Kerala State Council for Science, Technology and Environment  
National Science Day...2020... celebrations**

**Statement of Expenditure**

**Programme:** *Two Day Algal Workshop on Diversity, Taxonomy & Applications*  
**Date:** *14/2/2020 & 15/2/2020* **Venue:** *Botany Lab, Christ College (Autonomous) Irinjalakuda*  
**Organized by:** *Dept of Botany & Biodiversity Club, Christ College (Autonomous), Irinjalakuda*

Receipts	Amount (Rs.)	Payments	Amount (Rs.)
1. Amount sanctioned from KSCSTE (to be received)		1. Organizing Expenses	8870.20
2. <i>Organizing Expenses</i>	}	2. Publicity	1808
3. <i>Publicity</i>		3. Travel	1958
4. <i>Travel</i>		4. Honorarium	3000
5. <i>Honorarium</i>		5. Refreshment	10755
5. <i>Refreshment</i>			
<b>Total</b>	<b>12,000/-</b>	<b>Total</b>	<b>26391.20/-</b>

Certified that I have exercised all kinds of checks to see that the grant has been utilized for the purpose for which it was sanctioned by KSCSTE vide Council Order No. *Lr. No. C-14/NSD/2020/KSCSTE*, dated *21/01/2020*  
**File No: KSCSTE / 1007/2019-NSD**

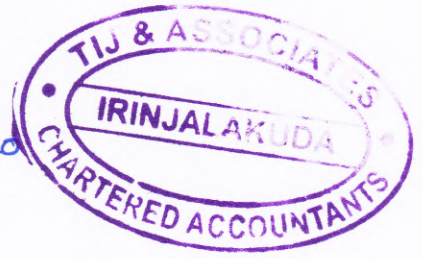
*T.P.P.*  
*16/3/2020*  
**Dr. Terry Paul P.**  
 Name & Signature of Co-ordinator

*Mathew Paul Ukken*  
**Dr. Mathew Paul Ukken**  
 Name & Signature of Head of the Institution  
 PRINCIPAL  
 CHRIST COLLEGE (AUTONOMOUS)  
 IRINJALAKUDA

**For TIJ & ASSOCIATES Chartered Accountants**  
**FRN - 015443s**  
*[Signature]*  
**T. Joseph (Proprietor)**  
**M.No. 200142**



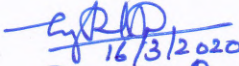
Office Seal with date  
*16-03-2020*

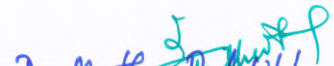


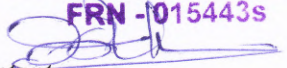
Kerala State Council for Science, Technology and Environment  
National Science Day..2020..... celebrations

UTILIZATION CERTIFICATE

Certified that out of Rs. 12,000/- sanctioned by Kerala State Council for Science, Technology and Environment vide Council Order No. Lr. No. C-14/NSD/2020/KS(CSTE) dated 21/01/2020, towards financial assistance for the conduct of Two Day Algal Workshop on Diversity, Taxonomy & Applications, an amount of Rs. 26,391.20/- was utilized for the purpose for which it was sanctioned, leaving a balance of Rs. NIL at the close of ..... as shown in the Statement of Expenditure annexed.

  
16/3/2020  
Dr. Tessa Paul P.  
Name & Signature  
of Co-ordinator

  
Dr. Mathew Paul Ukken  
Name & Signature  
of Head of the Institution

For TIJ & ASSOCIATES  
Chartered Accountants  
FRN - 015443s  
  
Name & Signature  
of Chartered Accountant

T.I. Joseph (Proprietor)  
M.No. 200142

PRINCIPAL  
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA



Office Seal with date  
16-03-2020



Hands on Training 3 : 4.00 p.m.- 4: 30 p.m.

**Methods of documentation of algae: Microphotographs and Camera Lucida diagrams**  
Dr. Tessa Paul P., Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous),  
Irinjalakuda, Thrissur District, Kerala

**15-02-2020 (Saturday)**

Technical session 3 : 9.15 a.m. – 10.00 a.m.

Invited talk (Topic): **The taxonomy of River algae**

**Ms. Devikrishna C. S.**, Junior Research Fellow (UGC), PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District, Kerala

Technical session 4 : 10.00 a.m. – 11.00 a.m.

Invited talk (Topic): **'A scientific approach to unravel the conventional and modern taxonomic tools in Diatom taxonomy**

**Mr. Geo Joseph**, Junior Research Fellow (KSBB), PG & Research Dept. of Botany,  
Sacred Heart College (Autonomous), Thevara, Ernakulum District, Kerala

Tea Break : 11.00 a.m. – 11.15 a.m.

Hands on Training 4 : 11.15 a.m. – 12: 30 p.m.

**The techniques for the estimation of Phytoplankton in water samples**

**Prof. Joshy K. Simon**, Associate Professor & HOD (Retd.), Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

Lunch Break : 12.30 p.m. – 1.15 p.m.

Technical session 5 : 1.15 p.m. – 2.00 p.m.

Invited talk (Topic): **Microalgae: Potent resource for the mankind**

**Ms. Shaheeda T. M.**, Assistant Professor, PG & Research Dept. of Botany,  
MES Asmabi College, P. Vemballur, Thrissur District, Kerala

Hands on Training 5 : 2.00 p.m. – 3: 00 p.m.

**Algal diversity of perennial ponds and temple ponds**

**Dr. Tessa Paul P.**, Associate Professor & HOD, Dept. of Botany,  
Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

Hands on Training 6 : 3.00 p.m.- 3: 45 p.m.

**The algal diversity of river ecosystems**

**Ms. Devikrishna C. S.**, Junior Research Fellow (UGC), PG & Research Dept. of  
Botany, MES Asmabi College, P. Vemballur, Thrissur District, Kerala

Tea Break : 3.45 p.m. – 4.00 p.m.

Closing Ceremony & : 4.00 p.m. – 4.30 p.m.

Distribution of Certificates

#### ORGANIZING COMMITTEE

Patron

Rev. Fr. Jacob Njerinjampilly CMI, Manager

Principal

Dr. Mathew Paul Ukken

Programme Coordinator

Dr. Tessa Paul P. (HOD & Associate Professor,  
Dept. of Botany and Joint Coordinator, Biodiversity Club)

For further details:

Dr. Tessa Paul P.: Mob: 7558898955, 9446233104 Email: dr.tessypaul@gmail.com

#### SUPPORTING TEAM

Rev. Fr. Joy P.T. CMI (Vice Principal & Assistant Professor,  
Dept. of BPE & Joint Coordinator, Biodiversity Club)

Dr. Bijoy C. (Assistant Professor, Dept. of Zoology & Coordinator,  
Biodiversity Club)

Dr. Sr. Dilla Jose (Assistant Professor, Dept. of Zoology &  
Joint Coordinator, Biodiversity Club)

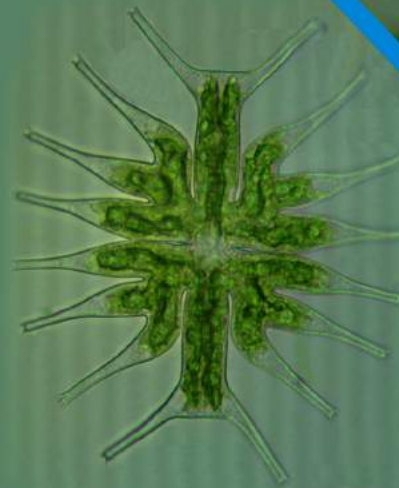
Mr. Antony Francis (Lab Assistant, Dept. of Botany)



# CHRIST COLLEGE

(Autonomous) Irinjalakuda, Kerala

Affiliated to the University of Calicut and Re-accredited by NAAC (Grade A)  
www.christcollegeirj.edu.in



Department of Botany

in collaboration with Biodiversity Club

*Organize*

## Two Day Algal Workshop on 'Diversity, Taxonomy and Applications'

As part of National Science Day 2020  
- Focal Theme : "Women in Science"

Venue: Botany Lab, Christ College (Autonomous), Irinjalakuda

**Date: February 14<sup>th</sup> - 15<sup>th</sup>, 2020**



*Sponsored by*

Kerala State Council for Science,  
Technology and Environment (KSCSTE)

*Supported by*

Department of Science and Technology  
(DST), Govt. of India



Department of Science & Technology  
Government of India

Dear Sir / Madam,

The Department of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur in collaboration with Biodiversity Club is organising the National Science Day 2020 in recognition of the legendary Indian Scientist Dr. C. V. Raman. The basic objective of observation of National Science Day is to spread the message of importance of Science and its application among the people. We are conducting KSCSTE Sponsored and DST supported **Two Day Algal Workshop on 'Diversity, Taxonomy and Applications'** at Botany Lab, Christ College (Autonomous), Irinjalakuda, on 14<sup>th</sup> – 15<sup>th</sup> February, 2020. We invite your esteemed presence and participation in the programme.

**Dr. Tessa Paul P.**  
Programme Co-ordinator

**Dr. Mathew Paul Ukken**  
Principal

### ABOUT THE COLLEGE

Christ College (Autonomous), Irinjalakuda, was started in the year 1956 by the Devamatha province of the Carmelites of Mary Immaculate (CMI). Christ College has been affiliated to University of Calicut and re accredited by NAAC with 'A' grade and achieved autonomous status in 2015. Christ College offers an ideal vision of education that is aware of and responsive to the challenges of the nation's present situation. The College offers 20 degree, 14 Masters and 6 Ph.D. programmes in various disciplines. The College is in the forefront of all activities to protect the environment and conserve an eco-friendly campus. The afforestation programs conducted in the college campus is found to augment ground water recharge during rainy season by increasing water seepage through leaf litter. Rainwater harvesting is also done in the campus premises. The College has been honoured by awarding the Kerala State Energy Conservation Award in 2011, Haritha Campus Award instituted by Kerala Biodiversity Board for the year 2011-12, "Green Campus Award" for the year 2014 instituted by University of Calicut, Best Biodiversity Club Award by the Kerala State Biodiversity Board, for the year 2014 and the Malayala Manorama Palathully Puraskaram for the year 2016 for the keen interest in campus greening and conservation of energy.

**DEPARTMENT OF BOTANY:** In June 1956, when the department of Botany began, it catered to the needs of students who took the Pre-University II group. In June 1957, when the degree course in Zoology was started with Botany as a subsidiary paper and it continued to initiate students into the wonderful world of flora. With the advent of the Interdisciplinary M.Sc. Environmental Science course in January 2000, the department also shouldered the responsibility for its conduct. From 2013 onwards, department of Botany offers M.Sc. in Botany (Self-financing).

**BIODIVERSITY CLUB:** The Biodiversity club is an organization of staff and students of Christ College under the Kerala State Biodiversity Board, registered under Reg. No. KSB/BC/45 to create awareness among the student community regarding the protection and conservation of biodiversity. The Biodiversity Club is very active to protect and maintain the biodiversity of the campus and surrounding areas by planting saplings, educating the public and conducting awareness programmes in co-ordination with Irinjalakuda Municipality. The Club won the Best Biodiversity Club Award instituted by the Kerala State Biodiversity Board, Government of Kerala, for the year 2014-15. The Shanthistal of 20 cents has been demarcated in the College campus to create a human made biodiversity centre with rare, threatened and endangered plants.

### ABOUT THE WORKSHOP:

This workshop focuses on creating awareness among students about the diverse algal groups present in our wetland ecosystems. It will also remind them about the emerging wetland issues and to encourage actions for the protection and conservation of wetlands. The workshop thrusts on the significance of environmental monitoring in educating public about environmental conditions and in taking responsible decisions regarding environment issues. The workshop will help the students to get training for the documentation and identification of the algae there by evaluating the diversity of the unique aquatic ecosystems of India.

### Algal Workshop on 'Diversity, Taxonomy and Applications'

#### PROGRAMME

#### Day 1: 14-02-2020 (Friday)

Registration : 9.30 a.m. – 10.00 a.m.  
Inaugural session : 10.00 a.m. – 10.30 a.m.  
Tea Break : 10.30 a.m. – 10.45 a.m.  
Technical session 1 : 10.45 a.m. – 11.45 a.m.

Invited talk (Topic): **'Microalgae along the Kerala Coast:**

**A special reference to Seaweeds of Malabar Coast'**

**Dr. Sanilkumar M. G.,** Assistant Professor, PG & Research Dept. of Botany, SNM College, Maliankara, Ernakulam District, Kerala

Hands on Training 1 : 11.45 a.m.- 12: 30 p.m.

**Seaweed Diversity of Malabar Coast**

**Dr. Sanilkumar M. G.,** Assistant Professor, PG & Research Dept. of Botany, SNM College, Maliankara, Ernakulam District, Kerala

Lunch Break : 12.30 p.m. – 1.30 p.m.

Technical session 2 : 1.30 p.m. – 2.45 p.m.

Talk (Topic): **'Freshwater Algae of Kerala: Diversity, Taxonomy and Applications'**

**Dr. Tessa Paul P.,** Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

Tea Break : 2.45 p.m. – 3.00 p.m.

Hands on Training 2 : 3.00 p.m.- 4: 00 p.m.

**The Freshwater Algal Diversity of Thrissur District, Kerala**

**Dr. Tessa Paul P.,** Associate Professor & HOD, Dept. of Botany, Christ College (Autonomous), Irinjalakuda, Thrissur District, Kerala

#### Registration Fee

Students :Rs.100

Research Scholars : Rs. 150

Faculty / Others : Rs. 250





# CHRIST COLLEGE

(Autonomous) Irinjalakuda, Kerala  
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KERALA STATE  
COUNCIL FOR  
SCIENCE,  
TECHNOLOGY  
AND  
ENVIRONMENT



Department of Science and Technology (DST)

## Two Day Algal Workshop on Diversity, Taxonomy and Applications In connection with the National Science Day 2020

### Certificate

*This is to certify that Mr./Ms./Prof./Dr. ....  
..... has participated / delivered an invited talk / was a member of the Organizing Committee / worked  
as volunteer in the **Two day Algal Workshop on Diversity, Taxonomy and Applications** organized by the Department of  
Botany in collaboration with Biodiversity Club, Christ College (Autonomous), Irinjalakuda, sponsored by Kerala State Council for  
Science, Technology and Environment (KSCSTE), Thiruvananthapuram and supported by Department of Science and  
Technology (DST), Govt. of India, on February 14<sup>th</sup> - 15<sup>th</sup>, 2020.*

Dr. Tessy Paul P.  
Programme Coordinator  
& HOD, Dept. of Botany

Dr. Mathew Paul Ukken  
Principal



## Two Day Algal Workshop on Diversity, Taxonomy & Applications

### Evaluation Form

Date: 14<sup>th</sup> - 15<sup>th</sup> February 2020

Thank you for attending the Algal workshop. We would appreciate if you could take a few minutes to share your opinions with us so that we can serve you better in future.

- a. Strongly Agree  
 b. Agree  
 c. Disagree  
 d. Strongly Disagree

- |  |                             |                             |                             |                             |
|--|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1. The content was as described in publicity materials   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 2. The training programme was relevant to your needs   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 3. Your expectation has been covered   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 4. You gained a good understanding of subject matter   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 5. The programme was well paced within the allotted time   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 6. The resource persons were good communicators  | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 7. The material was presented in an organized manner   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 8. The instructor was knowledgeable on the topic   | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |
| 9. You would be interested in attending a follow-up, more advanced training programme on this same subject | <input type="checkbox"/> a. | <input type="checkbox"/> b. | <input type="checkbox"/> c. | <input type="checkbox"/> d. |

10. Please rate the following:

- |                          | Excellent                | Very Good                | Good                     | Fair                     | Poor                     |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| i) Visuals               | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ii) Hospitality          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iii) Technical Sessions  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| iv) Hands-on Training    | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| v) The programme overall | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

11. What did you most appreciate/enjoy/think was best about the course? Any suggestions for improvement?

.....

.....

.....

.....

.....

Thank you!

Please return this form to the coordinator at the end of the training programme.

\*\*\*\*\*

## ELECTRONIC CLEARING SERVICE FACILITY FOR RECEIVING PAYMENTS

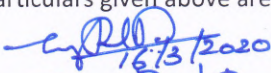
### Details of Account Holder

Name of the Institution/ Person	christ college, Irinjalakuda
Contact Address	Principal, christ college, Irinjalakuda
Mobile number of Co-ordinator (mandatory) Telephone No./ Fax No.	9446233104
E-mail ID of the DIR/ REG/ AO/ FO	christ college ijk @ gmail . com

### Bank Account Details

Institution/ Individual Account Name ( As per Bank record)	PRINCIPAL, christ college, Irinjalakuda
Account No. ( SB/CC)	57070060725
IFS Code	SBIN 007 0790
Branch Name	PBB, Tana, Irinjalakuda
Branch Address	State Bank of India, Irinjalakuda
MICR No.	680002965

Certified that the Institute's /person's account is in NEFT /RTGS enabled branch. I hereby declare that the particulars given above are correct and complete.

  
16/3/2020  
Dr. Tessa Paul P.  
Name, Address & Signature of the  
PH/ Coordinator

Dr. Mathew Paul Okken  
Name, Address & Signature of the  
Competent Authority (DIR/ REG/ AO/ FO)

Date: 16-03-2020

PRINCIPAL   
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA



Institution Seal

16-03-2020

**Christ College, IJK - National Science Day 2020 - Report to KSCSTE**

2 messages

Mon, Apr 13, 2020 at 1:36 PM

**Tessy Paul P.** <tessyjohnnt@gmail.com>

To: sed.kscste@kerala.gov.in

Cc: mathewpaulster@gmail.com

Bcc: BOTANY DEPARTMENT Christ College IJK &lt;botdeptchristijk56@gmail.com&gt;

No. 103/KSCSTE/2019-20

From

Dr. Tessy Paul P.

Associate Professor and HOD, Dept. of Botany,

Christ College (autonomous), Irinjalakuda,

Thrissur District, Kerala – 680 125.

(Coordinator, National Science Day 2020 Programme)

To

Prof. (Dr.) K. P. Sudheer,

Executive Vice President,

Kerala State Council for Science, Technology and Environment (KSCSTE),

Sasthra Bhavan, Pattom,

Thiruvananthapuram – 695 004, Kerala

Sub: Christ College (Autonomous), Irinjalakuda – National Science Day 2020 - Report to KSCSTE, Thiruvananthapuram, Reg:

Ref: Lr. No. C – 14/ NSD / 2020 / KSCSTE dated 21/01/2020

Sir,

Herewith please find the soft copy of the report and the enclosures of the “*National Science Day, 2020*” undertaken by our College on 14<sup>th</sup> and 15<sup>th</sup> February 2020.

Due to the present condition of the lock down I am unable to send the copy of the report signed by the Principal now. I will send the hard copy signed by the Principal as and when the lock down is withdrawn.

Thanking you

Yours sincerely

Dr. TESSY PAUL P.

(Coordinator of the Programme)

Enclosures:

1. Report of the programme (2 days - 14<sup>th</sup> and 15<sup>th</sup> February, 2020) in connection with the National Science Day, 2020 with photographs and paper reports of the programme
2. Statement of Expenditure
3. Utilization Certificate
4. Brochure of 2 days programme on 14<sup>th</sup> and 15<sup>th</sup> February, 2020
5. Copy of the Certificate given to the participants
6. Copy of the Feedback form given to the participants
7. Details of Electronic clearing service facility for receiving payments

--  
Dr. Tessy Paul P.

Associate Professor &amp; HOD, Department of Botany,

Christ College (Autonomous), Irinjalakuda,

Thrissur District, Kerala, India. PIN 680 125

Phone No. 7556896955 9446233104

**Christ College, IJK - National Science Day 2020 - Report to KSCSTE.pdf**  
6113K**Tessy Paul P.** <tessyjohnnt@gmail.com>

To: evp.kscste@kerala.gov.in

Mon, Apr 13, 2020 at 1:54 PM

[Quoted text hidden]

**Christ College, IJK - National Science Day 2020 - Report to KSCSTE.pdf**  
6113K