

THE COCHIN COLLEGE Koovapadam, Kochi-2 Affiliated To Mahatma Gandhi University Re-accredited by NAAC With B+ Grade

Fourth Cycle NAAC Accreditation 2024

# Criterion 1 Curricular Aspects



# 1.1 - Curricular Planning and Implementation

Metric No. 1.1.1

The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment.

# Internships and Field Work





National Assessment and Accreditation Council



KOCHI - 682 002 (Affiliated to Mahatma Gandhi University and Accredited by NAAC)

Website: www.thecochincollege.edu.in

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# DECLARATION

This is to certify that the institution have organized various industrial visits to and a field visits. These visits aim to enhance our students' practical knowledge by providing real-world exposure. Accompanied by faculty, students will follow all necessary safety measures.

MRUDULA MENON V.



Mendulo Menon



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# INDUSTRIAL VISITS AND FIELD VISITS

Industrial visits and field trips are invaluable components of a student's educational experience, bridging the gap between theoretical knowledge and real-world application. These excursions provide students with firsthand exposure to the inner workings of various industries, allowing them to observe practical implementations of concepts learned in the classroom. By interacting with professionals and seeing advanced technologies and processes in action, students gain a deeper understanding of their field of study. Additionally, these visits can inspire career aspirations and offer networking opportunities that might not be available through traditional academic settings. Overall, industrial and field visits enrich the learning process by providing context, fostering engagement, and enhancing practical skills.



J.M



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# THE COCHIN COLLEGE, COCHIN-2

# **INDUSTRIAL VISIT REPORT 2019-2020**

Report on Industrial visit 2019 BBA In the view to fulfill the academic requirement and to bring the students to an exposure to the industrial functions, industrial visit is carried on as and how permissions from the industry is available. An industrial visit to Kerala Bamboo Corporation Ltd, Angamaly, Meriboy Ice Cream Factory and Tejus foods Perumbavoor was organized for BBA students on 28<sup>th</sup> November 2019. 90 students had registered their names for the same and 4 faculties had joined them. Betna Rodrigues, Jeffy Thomas, Febin George and Vijayakumar were the faculties in charge for the visit. The journey began from the college premises on 28<sup>th</sup> November 2019.

The first visit was made to Kerala Bamboo Corporation Ltd Angamaly. The students got an opportunity to understand the market scenarios, the importance of quality in manufacturing bamboo products etc. from the visit.

The second visit was made straight to the Meriboy Ice-cream Factory. The staff from the factory explain automation of dairy. The students can see machineries at work and how Ice creams are processed and packed.

The third visit was made to Tejus foods, Perumbavoor. The students were able to observe and learn the process of preparing variety food items, the working pattern at the factory, types of machinery used and its functioning. The students also observed the process of packing and sealing food items through an automated machine for a pre-fixed net weight and for a fixed number of packets. Students got a rare opportunity to see the variety of items which were in the process of preparation. The visit was a fruitful one with an interactive session.



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#### Details of Teachers accompanying the students

Name of the teacher	Designation
Betna Rodrigues	Assistant Professor
Jeffy Thomas	Assistant Professor
Vijayakumar	Assistant Professor
Febin George	Assistant Professor

2<sup>nd</sup> year students



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SL NO	NAME
1	ABDUL JASSAR
2	АВНІЈІТН М В
3	AFRID NAZAR
4	AFSAL RAHMAN
5	AKBAR LATHEEF
6	AKHIL ALBY
7	ANJANA JAYAN
8	ANTONY ROSHAN T R
9	ASHWIN ANTONY SHAJAN
10	AYISHA A S
11	BRINDA JAYESH SHAH
12	DEON EMMANUEL SEBANTO C T
13	DIVYAJYOTHI S S
14	FARHAN FAROOQUE
15	HABEEB RAHMAN K H
16	HISHAAN P HANZEER
17	IBNUL HAQ P S
18	JENNIFER XAVIER
19	JOHN FABIN P G
20	K M MOHAMMED NIHAL
21	KIRSTEN KENNY
22	KRISHNA DAS V
23	LINCY MARY T T
24	MANEESH M
25	MARIA SONALI
26	MEENAKSHI K B
27	MOHAMMED ALTHAF M A
28	MOHAMMED SAHIL K S
29	MOHAMMED SUHAIR S
30	MUHAMMED IRFAS
31	MUSAFEER P M
32	NABIL P K
33	NAJADH H N
34	NIJA DEV
35	RALPHIN JOSEPH K A
36	RESHMA K R
37	RIZWAN H R
38	ROHITH JUDE
39	SAHIL P S
40	SAHIL SAJITH
41	SHARAN FRANCIS
42	SHENAL SEBASTIAN
43	SHIFAS K S



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44	SHIRAZ IBIN SHAKEER
45	SIMHASHINI SHARMA
46	SRAVAN S
47	UMMER FAROOQ M N
48	UMMER SAADH K M
49	ZAREENA FILVA M M

# Third year BBA

SL NO	NAME
1	ABIN XAVIER
2	AFREED K S
3	AFRID AHAMED FAIZAL
4	AFSAL P S
5	ALIYA THASNEEM V M
6	ANAKHA PAVITHRAN
7	ANJITHA SALILAL
8	ANTON ASHWIN FABER
9	ANTONY C J
10	ASHFAK P B
11	ATHIL S
12	BENHUR C A
13	BINU JOSE
14	C S RIZWAN
15	CASHLIN CLAIR GAULBERT
16	FIRSHA FIROZ
17	IRFAN A
18	JINSA K S
19	MARSHEL XAVIER
20	MOHAMED THAHLEEB C .K
21	MOHAMMED DILFAR K.H
22	MOHAMMEED SAFVAN P.Y
23	NIJIL C.N
24	RAMEEZ KAISI
25	SAJEER P.S
26	SALMAN V.N
27	SANDRA LENUS
28	SANIYA SAJEEB
29	SAYAN DHALI
30	SHANIMOL M.S
31	SHAROOK KHAN T.S
32	SHAWN BENNY



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Department : The c

Head Inchiness Kochin C

inistration

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33	SHIYAZ MOHAMMED AMEEN	
34	SIVAN REMESH	
35	SRUTHI SHAJEEV.M	
36	SUHAIL K.S	
37	SURAJ K S	
38	THANZEEL S T	
39	UMMERUL FARHAN M. H	
40	VIMAL DAS	
41	VRINDA SUDHEER	

Name and Sign of HOD

Patro

Betna Rodrigues

ad Department of the fouriess A The Coeffin Coll Kochi-2. inistration



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# THE COCHIN COLLEGE, COCHIN-2

# **INDUSTRIAL VISIT REPORT 2022-2023**

The department of economics arranged an industrial visit to Munnar Tea factory for the Second Year BBA and Third year BBA on 01-12-2022. The students were accompanied by the three faculty members of the department-Betna Rodrigues (HOD), Jeffy Thomas, Febin George and Aswathy Regunath. The students visit tea factory and museum and got to know many interesting facts related to the process of manufacturing tea and all other related aspects of selling and distribution. The KDHP Tea Museum is an industry and history museum situated in Munnar, a town in the Idukki district of Kerala in South India. Tata Tea Museum is its official name, but it's also known as Nalluthanni Estate where it is located, or Kannan Devan Hills Plantation (KDHP) Tea Museum. It started in 1905 and is now a fully automotive factory. The tea museum preserves the aspects on the genesis and growth of tea plantations in Kerala. The museum houses curiosities, photographs and machineries, depicting a turning point that contributed to Idukki's flourishing tea industry. different process through which the tea is processed were witnessed by the students at various stages of the tea processing such as Crush, tear, curl - and learn about the production of Kerala black tea variants. A section of the museum also houses classic bungalow furniture and office equipment of the Colonial area in Kerala, model of rail engine operated in 1924. The. They also acknowledge the history of Munnar by going through the history of tea gardens in Munnar. The students were provided facility for purchasing different varieties of tea and enjoyed a cup of delicious freshly prepared tea.





Principal-in-Charge The Cochin College



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### Details of Teachers accompanying the students

Name of the teacher		Designation	Mobile	
Beti	na Rodrigues	Assistant Professor	9388222335	





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Jeffy Thomas	Assistant Professor	9746953257	9746953257	
Aswathy Regunath	Assistant Professor	7012625792		
Rajitha P M	Assistant Professor	9446821122		
Febin George	Assistant Professor	9656760127		

Second Year BBA

SL NO	NAME	Contact No	
1	ABDUL LATHEEF P N	7306864195	
2	ABIJITH N S	9961385063	
3	ADITHYA HARI	8606228939	
4	AHALYAMOL K G	8078703275	
5	AKELESH JAYAKUMAR	7306179594	
6	AKHIL P.M	8606165549	
7	ANAMIN CHRISTOPHER	9048813734	
8	ANGEL MARY SANTHOSH	9995521545	
9	ARISH UNNI	7560981844	
10	ASHWIN RAGHAV MR	9744500246	
11	ASWATHI RETHNA E R	9605360224	
12	BINITHA P B	8714324539	
13	CIYAN MARY JOSEPH	8590644079	
14	DEVANANDA S	8921870947	
15	DRISHYA DILEEP	9745284188	
16	FAHADH SIYAD	7907324360	
	FARAZ ABDUL KHADER K	9544822668	
17	A	9344822008	
18	FASEELA . A . H	8891666818	
19	FATHIMA P A	9744304351	
20	FIJAS P S	7034897905	
21	HAFEESA . P . H	9207970425	
22	Hakeem	8590418469	
23	HARIPRIYA.P	8136812885	
24	JOEL EUGINE	9633457057	
25	JUNAID M N	8139819520	
26	MANUSH M S	7356894297	
27	MARIYA DIFFY	6282273167	
28	MAZROOR AHAMMED. K.	9633886359	
29	MIRSHEEN IBIN SHAJI	6235468909	
30	MOHAMED FARHAN M H	9847409480	
31	MOHAMMED ADHIL M N	8891145445	
27	MOHAMMED SHAHEEN	9746093412	
32		9072239006	
33	NAJILA NAVAS	9072239006	



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34	NANDHANA . K . A	9778441480
35	NANDHANA N S	8590618317
36	NIGITHA JAMEER	9048376330
37	Nihal K A	9544446069
38	Nikhil Antony	7994959744
39	NiyalmolK N	8606071239
40	PRAVEEN.M	6235930644
41	RISWIN SHAJAHAN	9867782898
42	SAFVAN K Y	7994390018
43	SHAISON STANLEY	7593011452
44	SNEHA M. R	8590303502
45	SNEHA PAUL	9020610117
46	SNIN K S	9895272231
47	SNOOJA DEVI C.S	9387682103
48	TERRIN JOSEPH	9995448140
49	VISMAYA.R	8156868667
50	VIVEK V S	9495981092
51	Ayisha Hussain	9947216583
52	Ahamed Kabeer	9746602258
53	Shifas K S	9633901572

#### Third Year BBA

sl no	NAME	Contact no.
	ABHISHEK P S	999569291
1	ABRISHER P 3	1
	ABITH CHANDRABABU	812944073
2		6
	AISWARYA SASIKUMAR	977835755
3		9
	AKASH J	623869907
4		6
	ANASWARA M K	799422011
5		4
	ANJALY R	977832758
6		3
	ANNA ROSHNI K J	954413276
7		3
	ASHISH C U	859089971
8		4
	ASWANI PRASAD	860693803
9		4
	ATHUL T V	953986270
10		1



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11	AYSHA M N CYRIL CHERIAN UDAY	994605815 2
12	CYRIL CHERIAN UDAY	751062164
		751063164 5
13	DELNA MARY	799481771
	DEVIKA T Ρ	808966729
14	HAFIZ RAHMAN	799457936
15		1 702533117
16	HASHIM RAHMAN K J	4
17	MUHAMMED SABITH H	904877213 1
18	NIHAL SHUKOOR M A	920792278 5
19	NIHAL V S	730619181 4
20	NIZAM A N	812977478 9
F	RAKESH GIRI	628246051
21	REKHA REJU	4 892147614
22	RUKSANA NOUSHAD	3 977814553
23		1
24	S SARATH	907498948 4
25	SADHIYA SHAKEER	813895581 9
26	SANDEEP A S	735663918 9
27 5	SANDHRA T S	755902177 9
	SHAHAD MOHAMMED	808942801 4
	SUHAIL P Y	744987565
29	SUHANA SHUHAIB P S	4 812972727
30	SUVARNNA RADHAKRISHNAN	4 773648083
31		0 994717001
32 1	THANSIL P S	0
33 1	THARIKH UMMAR	984719006 6
34	VISHNU A P	956744330 2
35	Ameen Ahammed	956780644 8



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Name and Sign of HOD

Balan

Betna Rodrigues





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# Entry Level examination 2020-21

2020-23 batch

SI No	Timestamp	Score	Name	Course enrolled	Year enrolled
1	2/5/2021 16:09:28	9 / 30	Atheena k s	BSc Zoology	2020-21
2	2/5/2021 16:20:19	10 / 30	Shifa A.S	BSc Zoology	2020-21
3	2/5/2021 16:45:37	16 / 30	Akhilsanu	BSc Zoology	2020-21
4	2/5/2021 16:18:31	17 / 30	Sreebitha p.v	BSc Zoology	2020-21
5	2/5/2021 16:20:19	18 / 30	Ashikha Farzana K.M	BSc Zoology	2020-21
6	2/5/2021 16:34:36	19 / 30	Deepthy Maria KA	BSc Zoology	2020-21
7	2/5/2021 16:19:08	20 / 30	Sainaba Anees	BSc Zoology	2020-21
8	2/5/2021 16:19:50	20 / 30	Annapoorna J M	BSc Zoology	2020-21
9	2/5/2021 16:38:41	20 / 30	Neha Nazrin. C. R	BSc Zoology	2020-21
10	2/5/2021 16:20:06	22 / 30	Asna sherin	BSc Zoology	2020-21
11	2/5/2021 16:40:19	22 / 30	sankara	BSc Zoology	2020-21
12	2/5/2021 16:20:17	23 / 30	Mohamed Faraz	BSc Zoology	2020-21
13	2/5/2021 16:32:57	23 / 30	Pooja Baiju	BSc Zoology	2020-21
14	2/5/2021 16:33:44	23 / 30	Ashique sunil	BSc Zoology	2020-21
15	2/5/2021 16:34:40	25 / 30	Ujjual vinayak rao	BSc Zoology	2020-21
16	2/5/2021 16:34:51	25 / 30	Bhavya Suresh	BSc Zoology	2020-21
17	2/5/2021 16:35:58	25 / 30	Sumayya parveen	BSc Zoology	2020-21
18	2/5/2021 16:33:40	26 / 30	Aishwarya Elizabeth T B	BSc Zoology	2020-21
19	2/5/2021 16:35:12	26 / 30	Devika Devanath	BSc Zoology	2020-21
20	2/5/2021 16:37:09	27 / 30	Mohammed Nisar K	BSc Zoology	2020-21
21	2/5/2021 16:20:25	29 / 30	AARCHA P SOMAN	BSc Zoology	2020-21



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# Entry Level Examination 2023-24

2023-24

SI No	Timestamp	Score	Name	Program enrolled	Year Enrolled
1	7/26/2023 14:16:20	9 / 50	Aleetta TJ	BSc Zoology	2023-24
2	7/26/2023 14:17:39	11 / 50	Ansila	BSc Zoology	2023-24
3	7/26/2023 14:01:33	12 / 50	Meenakshi v s	BSc Zoology	2023-24
4	7/26/2023 14:18:14	18 / 50	Nihala P. A	BSc Zoology	2023-24
5	7/26/2023 14:07:52	20 / 50	Farhana.O.A	BSc Zoology	2023-24
6	7/26/2023 14:09:02	20 / 50	SREYA SURESH	BSc Zoology	2023-24
7	7/26/2023 14:06:15	21 / 50	Devika Lenin A	BSc Zoology	2023-24
8	7/26/2023 14:11:28	21 / 50	SREYA SURESH	BSc Zoology	2023-24
9	7/26/2023 14:02:00	23 / 50	Arya krishna	BSc Zoology	2023-24
10	7/26/2023 14:03:06	24 / 50	Anaghamohan k	BSc Zoology	2023-24
11	7/26/2023 14:08:31	24 / 50	Harinanda	BSc Zoology	2023-24
12	7/26/2023 14:19:44	24 / 50	P S Sreelakshmi	BSc Zoology	2023-24
13	7/26/2023 14:14:04	25 / 50	Maria Divya	BSc Zoology	2023-24
14	7/26/2023 14:06:50	26 / 50	Alanteena AG	BSc Zoology	2023-24
15	7/26/2023 14:09:01	26 / 50	Sivarudra M R	BSc Zoology	2023-24
16	7/26/2023 14:16:55	26 / 50	Mubeena.A	BSc Zoology	2023-24
17	7/26/2023 13:59:31	27 / 50	ABHIRAMI S. R	BSc Zoology	2023-24
18	7/26/2023 14:10:26	27 / 50	Jifna Josy	BSc Zoology	2023-24
19	7/26/2023 18:14:50	28 / 50	Swathy shui	BSc Zoology	2023-24
20	7/26/2023 14:07:20	29 / 50	Sreshta. S	BSc Zoology	2023-24
21	7/26/2023 14:19:17	29 / 50	Athira ca	BSc Zoology	2023-24
22	7/26/2023 14:06:49	34 / 50	Sandhya	BSc Zoology	2023-24
23	7/26/2023 14:02:45	36 / 50	Avandhika sunil	BSc Zoology	2023-24
24	7/26/2023 14:09:42	41 / 50	Adhil salim	BSc Zoology	2023-24



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# Entry Level Test - 2022-23 Batch

## Form Responses 1

SI no	Timestamp	Score	Name	Course enrolled	Year enrolled
1	12/14/2022 9:59:49	12 / 50	Anandhakrishnan m.p	BSc Zoology	2022-23
2	12/14/2022 9:53:29	21 / 50	Umadevi. J. S	BSc Zoology	2022-23
3	12/14/2022 10:03:01	22 / 50	YEDUKRISHNAN KR	BSc Zoology	2022-23
4	12/14/2022 10:09:14	24 / 50	Anush Krishna	BSc Zoology	2022-23
5	12/14/2022 10:02:06	27 / 50	Devika Santhosh	BSc Zoology	2022-23
6	12/14/2022 10:11:52	28 / 50	Reema Marakkar	BSc Zoology	2022-23
7	12/14/2022 10:08:16	30 / 50	Sree lakshmy tl	BSc Zoology	2022-23
8	12/14/2022 10:09:05	30 / 50	Jufana Firdous	BSc Zoology	2022-23
9	12/14/2022 9:54:13	31 / 50	Amruthaprasad	BSc Zoology	2022-23
10	12/14/2022 10:14:15	31 / 50	Salwa Harees	BSc Zoology	2022-23
11	12/14/2022 10:08:58	33 / 50	Mary Angel A. J	BSc Zoology	2022-23
12	12/14/2022 10:06:18	35 / 50	Grace A R	BSc Zoology	2022-23
13	12/14/2022 10:06:20	35 / 50	Anagha p.k	BSc Zoology	2022-23
14	12/14/2022 10:06:21	35 / 50	Thansiya Shameer	BSc Zoology	2022-23
15	12/14/2022 10:06:45	35 / 50	Jomon durom	BSc Zoology	2022-23
16	12/14/2022 10:11:59	38 / 50	C. J. Anjana	BSc Zoology	2022-23
17	12/14/2022 10:11:59	38 / 50	Ashley stephen	BSc Zoology	2022-23
18	12/14/2022 10:11:56	39 / 50	Anjali santhosh	BSc Zoology	2022-23
19	12/14/2022 10:05:10	41 / 50	Krishna Dileep	BSc Zoology	2022-23
20	12/14/2022 10:08:18	41 / 50	Vivek P V	BSc Zoology	2022-23
21	12/14/2022 10:26:05	42 / 50	Aliya Rafeek	BSc Zoology	2022-23
22	12/14/2022 12:52:36	48 / 50	Ayana MS	BSc Zoology	2022-23



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# **DEPARTMENT OF BOTANY**

B.SC. BOTANY PROGRAMME CORE COURSE SEMESTER I

# METHODOLOGY OF SCIENCE AND AN INTRODUCTION TO BOTANY

Name:	 	
Class No:	 Year:	
Register No:	 Attendance:	



Principal-in-Charge The Cochin College

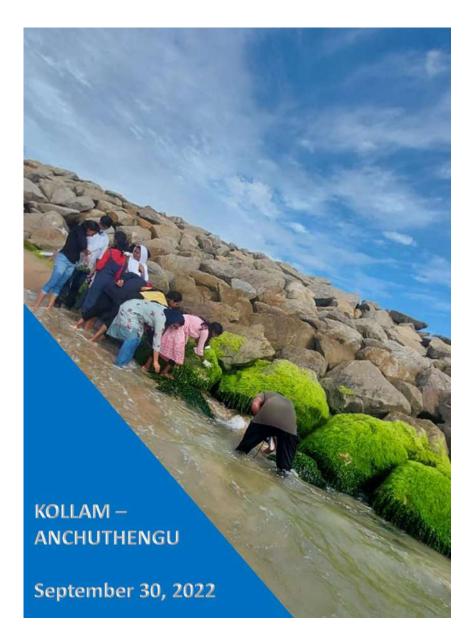


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#### PREFACE

The present report is a compilation of the events, places visited and activities of a one days educational trip to Kollam – Anchuthengu organized by the Department of Botany, The Cochin College, Kochi – 2 on 30 September 2022 with the aim to aid the students acquire basic knowledge of floral diversity and marine ecosystem. In addition, the Department also takes the opportunity for collecting various plant species of the region as specimens which would be documented, preserved and maintained in the Botany museum of the College for use in the curricular activities of B.Sc. Botany courses.

The Department of Botany, The Cochin College, Kochi – 2 is recognized as one of the best department in Mahatma Gandhi University, Kottayam as it emphasizes not only on the curricular syllabus but also the holistic development to the undergraduates of the department. So, the Department organizes an educational excursion annually for the B.Sc. Botany as a part of Out of the Box Learning program. For the academic year 2021-2024, 35 members Students from B.Sc. Botany 1<sup>st</sup> year participated for the tour. The students were accompanied by the faculty members (2) of the Department.

Faculty members:

- 1. Mr. ARUNKUMAR G, ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, THE COCHIN COLLEGE, KOCHI 2
- 2. Mrs. ANCY ALEXANDER, TEMPORARY ASSISTANT PROFESSOR, DEPARTMENT OF BOTANY, THE COCHIN COLLEGE, KOCHI 2

Students:

- 01 210021039854 ABHIRAMI R.S. (F)
- 02 210021039855 AKSHAYA A.B. (F)
- 03 210021039856 ALPHA ANTONY (F)
- 04 210021039857 AMINA BIND NAZAR (F)
- 05 210021039858 ARJUN K JANARDHANAN (M)
- 06 210021039860 BIJI A. (F)
- 07 210021039861 GIREESH G. (M)
- 08 210021039862 JERIN J SAMUAL (M)





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- 10 210021039864 KRISHNAPRIYA A.S. (F)
- 11 210021039865 MALU B. (F)
- 12 210021039866 NABUHAN T.I. (M)
- 13 210021039867 NAYANA RAJESH (F)
- 14 210021039868 NEHA SHAJI (F)
- 15 210021039869 NIHARA PRAMOD (F)
- 16 210021039870 RAHILA BEEVI K.A. (F)
- 17 210021039871 SHERJITH K.S. (M)
- 18 210021039872 SOUMYA SIBI (F)
- 19 210021039874 THASNI N. (F)
- 20 210021039875 VISHNU KUNJAPPAN P.J. (M)
- 21 210021039876 VISHNUPRIYAN B. (M)
- 22 210021039877 AISWARYA K.M. (F)
- 23 210021039878 AKASH KRISHNA C.R. (M)
- 24 210021039879 ASEEFA M.A. (F)
- 25 210021039880 ASNA A. SURESH (F)
- 26 210021039881 CHRIS LONAPPAN (M)
- 27 210021039882 FISAMOL K.A. (F)
- 28 210021039883 JASEELA AFZAL (F)
- 29 210021039884 MARY SANDRIYA (F)
- 30 210021039885 MIZIRIA T.Z. (F)
- 31 210021039886 MURSHIDA MUHAMMED P.M. (F)
- 32 210021039887 SAFNA SAMNAS (F)
- 33 210021039888 SIVENDU K.R. (F)
- 34 210021039889 SONIA GEORGE (F)
- 35 210021039890 SRITHI T.A. (F)
- 36 210021039891 AASHIL AMBUJAKSHAN (M)





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- 38 210021039893 MOHAMMED NAYIF N. (M)
- 39 210021039894 NADEERA V.M. (F)
- 40 210021039895 RAHMATH A.N. (F)
- 41 210021039896 SAFNA K.S. (F)
- 42 210021039897 SAFIN C.J. (M)
- 43 210021039898 SUMAYYA ABDUL SALAM (F)
- 44 210021039899 SWETHA SINDAS (F)

THE FOLLOWING EQUIPMENTS ARE TO BE CARRIED ALONG IN THE FIELD OF STUDY

- i. Knives
- ii. Forceps
- iii. Scissors
- iv. Magnifying lenses
- v. Portable plastic containers
- vi. Formaldehyde
- vii. Scale
- viii. Note book, pencil



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## CONTENT

Field trip are arranged to give exposure to students. Field education is equally important as classroom teaching. It adds vigor in learning processes and relieves monotones of indoor education. Field study is an essential part of botany as plants are best studied in their natural habitat. These tours also help to build good repo amongst students and teachers.

As a part of B.Sc. Curriculum, one day trip was organized by to Kollam - Anchuthengu by Department of Botany, The Cochin College, Kochi – 2 on 30 Sep - 2022 for semester I (first year) botany students. The major objective was to familiarize the students with the wild and cultivated flora and ecology of the region. A group of 44 students were accompanied by Mr. Arunkumar G and Mrs. Ancy Alexander of Botany department.

And the trip started...

We started our journey at 6.00 am on 30/08/2022 and reached the location by 11.00 AM. All the students and faculty have assembled at the Anchuthegu beach and our study commenced with the exploration of surrounding open area so as to study plants in their wild habitat. We collected different species of plants representing major groups of plant. We walked up to 7 km through the beach for studying the habitat and collecting marine algae. We have also visited Anchuthengu fort and observed various topiaries, bonsai, vertical gardens, forming hedges with plants etc. After exploring Anchuthengu area, the whole team had a lunch in open garden enjoying the nature's beauty. On our return journey to college, stopped at Alapuzha – Vandanam Kavu where we collected different plant species. Students were trained to identify major groups of plants with their scientific name and economic importance, after identifying key characters of the representing group.

Now in the technical part of the trip, students have been explained all the characters of different plant species with the help collected sample by Mr. Arunkumar G and Mrs. Ancy Alexander. These way students get a unique experience of field and lab at the same moment. The trip successfully inculcated in students the practicality of different theoretical concepts of Botany.

Students collected and preserved plants for further studies under the guidance of Mr. Arunkumar G and Mrs. Ancy Alexander.



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SI.No:-	Generic name	Major group
01	Ulva fasciata	Algae
02	Dictyopteris bartayresiana	Algae
03	Gelidium pusillum	Algae
04	Gracilaria edulis	Algae
05	Cladophora fascicularis	Algae
06	Sargassum ilicifolium	Algae
07	Funaria	Bryophyte
08	Cyathodium cavernarum	Bryophyte
09	Lycopodium cernuum	Pteridophyte
10	Selaginella keralensis	Pteridophyte
11	Nephrolepis sps.	Pteridophyte
12	Cycas revoluta	Gymnosperm
13	Zamia pygmaea	Gymnosperm
14	Casuarina equisetifolia	Angiosperm – Dicot
15	Cyperus rotundus	Angiosperm - Monocot

#### CONCLUSION

Our study tour was very interesting; students participants interacted in a very well disciplined manner cooperated with the teacher's guides and over all the tour was grand success. We realize that viewing the flora in its natural form made as things vivid enhancing the classroom lectures and laboratory experiments.

Last but not the least I would like to mention the quotation 'practice without theory is blind and theory without practice is sterile'

So theory and practice must go hand in hand all the time.

Name and signature of student



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# THE COCHIN COLLEGE

KOOVAPADAM, KOCHI 6882002



STUDY TOUR REPORT 2021-2024 BATCH DEPARTMENT OF BOTANY

SUBMITTED BY



Mendulo Menon



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### PREFACE

An educational tour is an excellent opportunity for students to learn out of the clss room setting. It provides a chance for them to experience different cultuires, explore new places, and gain practical knowledge that they can applied in real life situations.

The main purpose of this tour is to broaden the student's horizens and enhance their learning experience. As a part of our study tour ,30 students from our class, 3rd BSc Botany 2021-24 batch went on a 5 day trip to ST: MARY'S ISLAND, MURUDESHWAR, GOKARNA, DANDELI from 4th to 8th January 2024.

We were accompanied by our teachers Dr. Nayana jose C (Biochemistry Department) and Mr. Arun Kumar.G from the Department of Botany. The aim of this study tour was to awaken our minds to become future botanists by practically understanding the process of plant identification and collection herbarium preparation as well as to realize and appreciate the importance and beauty of the vast biodiversity of Western Ghats.



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### 1DAY 1 MALPE BEACH AND ST. MARY'S ISLAND

With all excitement and happiness we began our journey with our beloved teachers and tour guide Akhil johny of aspire on 4th January 2024 at 5.10 am as we boarded Kochuveli Mumbai Ltt Sf Express from Ernakulam town railway station . On the way to mangalore we took our prepared breakfasts in train, and experienced with lot of green fields, fort, beautiful sunrise and many more exciting visual experiences. At 12.30 pm we reached mangalore central railway station. After half an hour our guide spoted the bus for our 4 days journey as we left for Udupi. By 1.30 pm we reached Udupi, freshened up, and had our lunch and left for St. Mary's Island and Malpe Beach by 2.30 pm.

We reached there within an hour and in no time stepped in for boating. The beach is a virgin beach, located at a distance about 6kms from Udupi. It is an important port and a fishing harbour in the state of Karnataka. The endless stretch of golden sand, graciously sawing palm trees, clear blue sky and the gentle murmur of the sea set a perfect tour mood. After 40 minutes of an astonishing boat ride we reached St Mary's Island. St Mary's Island also known as Coconut Island and Thonsepar are known for distinctive geological formation of columnar rhyolithic lava here from one of the four geological monuments in Karnataka state, one of the 34 National Geological monuments of India declared by the geological survey of India in 2016 for their protection, maintenance, promotion and enhancement of geotourism. We spent some valuable times in the Island, and enjoyed a lot with everyone. By 5.30 pm we reached malpe beach and spent some times at the sea shore. We seemed a beautiful sunset and took a walk through sea -shore. After all we went for a small shopping around malpe. By 8.00 pm we reached our stay on Udupi, freshened up and took our dinner by 9.00 pm. With a whole lot of excitementwe packed the kits, scissors, plant cutters, papers, and other equipments

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for plant collection. We all spend some times by talking, playing some tasks etc. by 10.00 pm we all went to bed.



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## Day 2 – GOKARNA

The next day we woke up at 6.00 am, freshened up and had breakfast. By 8.30 am we started our journey to the next destination"MURUDESHWAR" temple, which was located ao the town of Murudeshwar in the Uttara Kannada district of Karnataka, India. It is dedicated to Lord Murudeshwara, who is considered one of the forms of Lord Shiva. The temple is famous for its large statue of Lord Shiva, which is the second tallest in the world. The statue is 123 feet tall and is surrounded by the sea on three sides. The temple also has the tallest temple tower in the world, which is 249 feet tall. The Shiva statue there was quite an impressive one and had filled us with a humble sense of tranquility. The temple is surrounded by beach in such a peaceful location. The atmosphere was extremely good & tranquil. It was a sunny day. We had taken a lots pictures of temple, statues and ours. There were several shops near the temple. We had spent some happily hours together at "MURUDESHWAR"temple .

Then we had continued our journey to GOKARNA, which was 78 km away from Murudeshwar. Together in the bus we chilled alot. We reached Kudle by 2.30 pm, we climbed up a hill, and reached our restauraent and had our lunch. After refreshment we went to cottage at Kudle Beach by 4.00 pm, which was one of the many beaches of Gokarna, and is known for breathtaking beauty and hypnotic appeal, situated only a short trek from Om Beach. It is shaped like a prefect sea and is surrounded by towering coconut palms. The beach offers the most silent and serene atmosphere to enjoy a sunset, a walk along the shore or simply sit and observe the never-ceasing tides. The Kudle beach was a very little crowd and quite serene.



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The sea was calm and shallow enough to had a bath or simply for dipping our feet. We had great2 time there by chilling with our loved ones.

By 7.00 pm we returned to our cottages, freshened up and then by 8.00 pm moved to Siva cave, tucked away on a mountain side is an old sacred location known locally as "Gogarbha". Because of the dim light it was little bit strange to reach there .When we enter into the cave, there were a huge number of bats. Inside the cave there was a Siva linga, and nothing to view more in there.

At 9.00 pm we moved to the same hotel that we had our lunch. It was little bit exhausting to reach there, then had our dinner. At 10.30 pm we returned back to our cottages. The night we spent on the beach in a small hut listening to the sound of the waves was perfect.



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## DAY 3 & 4- DANDELI

We woke up by 6, and freshened up. There was heavy rain in Gokarna so our whole day plan went wrong. There was a lag in starting our journey to our next destination Dandeli . After the rain we started our journey to Dandeli. Around 2pm we reached dew drops resort and had our lunch. After lunch we headed to do the water activities. We reached our destination at around 5pm and wear life jackets and get prepared for doing water rafting and kayaking. We were asked to wait a while for a raft to be prepared. Then we do the rafting and kayaking. It was a wonderful experience and we all enjoyed a lot. After doing water activities we returned to our resort.

We reached the resort at 9pm and there we had rain dance. After that we all go to our rooms and freshened up and have our dinner. After the dinner we all gathered for campfire. At around 12pm we started to press the plants that have collected earlier. We cut the plants for pressing and make it suitable for pressing. We take a plant press and placed a newspaper sheet on it and placed the plant over the newspaper and repeated these steps. Then we tie the plant press tightly using a rope and then we all returned to our rooms.

The next day we woke up at 5.30 and freshened up and go for doing trecking. It was an adventurous experience. During the way of trecking we collected plants. After trecking we returned to resort and had breakfast. Then we all played in swimming pool. After all we freshened up and packed our bags and headed to Karwar. We spend some time at Karwar market and had dinner and headed to Karwar railway station at 8.15pm and no time we boarded the Madgoan express with heavy hearts but filled with lots of memories. We changed the sheets of plants that we had pressed the day before and also pressed the newly collected

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one and began our journey back to home. We reached Ernakulam railway station at 8.30am on 6th January. The most awaited part of our course had come to an end. The study tour helped each one of us to realise the scope of botany and especially the field of taxonomy. We learnt to analyse the flora of an area and view nature through a botanist's eyes. This was an unforgettable and once in a lifetime experience for all of us. We sincerely express our gratitude to Arun sir and Nayana ma'am for accompanying and guiding us. We also thank our HoD, Dr. Suprabha ma'am, principal Geetha ma'am and all our teachers from department of botany for giving us the opportunity.



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# LIST OF PLANTS COLLECTED

SL.NO	PLANT NAME	FAMILY
01	Strobilanthes capitata	Acanthaceae
02	Leonotis nepetifolia	Lamiaceae
03	Cyathocline purpurea	Asteraceae
04	Cynarospermum asperrimum	Acanthaceae
05	Helicteris isora	Malvaceae
06	Justicia betonica	Acanthaceae



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# GALLERY







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35 Home



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## Department of Chemistry

### Report on Industrial Visit 2019-22

Department of Chemistry organized an industrial visit to CIPET (Central Institute of Plastics Engineering and Technology) for the students of final year B Sc Chemistry (Batch 2019-22) on 07-05-2022. CIPET (Central Institute of Plastics Engineering and Technology) Ernakulam is a premier institution for plastics engineering and technology. Industrial visit to CIPET Ernakulam provided valuable insights into the latest technologies and trends in the plastics industry.

SI. No.	Register No.	Student Name
1	190021029182	ADITHYA M S
2	190021029183	AISHA FARZANA T N
3	190021029184	ASWIN A S
4	190021029185	CHANDHANA A K
5	190021029186	FASNA M F
6	190021029187	FATHIMA SIRAJ
7	190021029188	JAYAKRISHNAN P A
8	190021029189	MERLIN LAWRENCE
9	190021029190	SNYDER MEYN
10	190021029191	ABHISHEK M S
11	190021029192	ADHIL SALEEM
12	190021029193	AKHILA T V
13	190021029194	AMAN YADAV
14	190021029195	AMRUTHA K S
15	190021029196	ANANDHU A
16	190021029197	ANUMOL S





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18	190021029200	ASWATHY BABU
19	190021029201	GEETHU ABRAHAM
20	190021029202	HARIDEV MURALEEDHARAN
21	190021029203	MEGHNA P S
22	190021029204	MIDHUN KUMAR P K
23	190021029205	NIHAL K H
24	190021029206	NIHALA SALEEM
25	190021029207	NISHARA LOUIS
26	190021029208	P M ABHISHEK
27	190021029209	PRAMOD K P
28	190021029211	REHANA U
29	190021029212	RESHMA REMESH
30	190021029213	S DEVIKRISHNA
31	190021029214	SNEHA S
32	190021029215	SUNITHA K
33	190021029216	AARON XAVIER
34	190021029217	ANANTHU SATHEESH
35	190021029218	HARSH HARESH
36	190021029219	HARSHA V
L		



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#### DEPARTMENT OF CHEMISTRY INDUSTRIAL VISIT 2020-21

The students of 2018-21 batch were taken for industrial visit to CIPET, Kochi. Central Institute of Petrochemicals Engineering & Technology (CIPET) (formerly known as Central Institute of Plastics Engineering & Technology (CIPET)) was established in 1968 by Government of India with the assistance of United Nations Development Programme (UNDP) at Chennai. The main objective of setting up of this specialized institute was to develop manpower in different disciplines of Plastics Engineering & Technology as no similar institute was in existence in the country

Today CIPET is a premier Academic institution for higher & technical education under the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted in all the domains of plastics viz: - Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Production Engineering, Testing and Quality Assurance. CIPET operates from various locations spread across the country to cater the needs of the Polymer and allied industries. CIPET has established a centre at Kochi since 2012 - Centre for Biopolymer Science & Technology (CBPST) - with the fund support of Govt. of India as well as Govt. of Kerala. CBPST is renamed as CIPET: IPT - Kochi from March 2018.



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List of Students for I V

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Mendule Menon

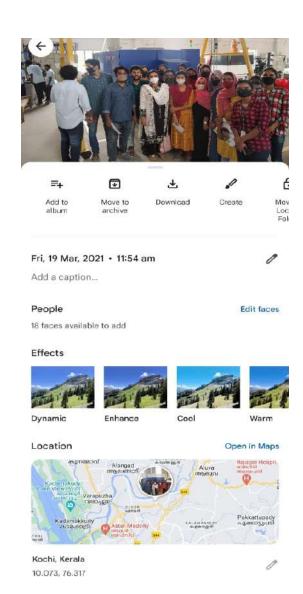


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# Department of Chemistry

## Report on Industrial Visit 2020-2023

The Department of Chemistry organized an industrial visit to the Central Institute of Plastics Engineering and Technology (CIPET) for the final year B.Sc. Chemistry students (Batch 2020-23) on 14-03-2023. CIPET Ernakulam, a premier institution for plastics engineering and technology, offered valuable insights into the latest technologies and trends in the plastics industry.

#### List of Students

1 ANJALI K B 2 ASWIN V PANICKER 3 AVANI K V 4 DHANYA KRISHNAN 5 KARTHIKA P SOMAN 6 KRISHNAPRABHA N G 7 MARIA RAINA V R 8 MEGHANA P V 9 MUHAFIS RAHMAN C K 10 NASARUNNISA 11 NIKITHA T N 12 SALMIYA NOURIN E S 13 SHREEHARI J B 14 VIDYA BABU 15 VYSHNAVI S V 16 YADHU P MADHU 17 ATHIRA A 18 ATHULYA SUDHEESH 19 MUHAMMED SAHAL A S 20 SALHAKA 21 SANDRA SUNU 22 SHIRIN IBADI PH 23 SWETHA S KAMATH





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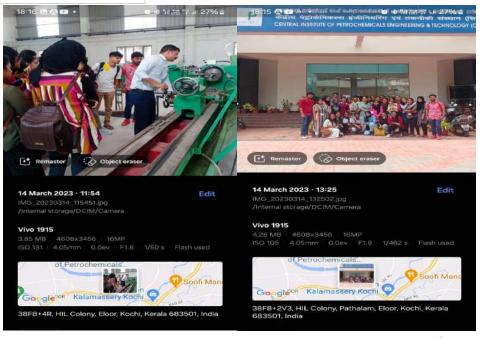
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- 24 VISHAL P V
- 25 AALIA KASIM
- 26 ABHINAV SAJI
- 27 AMRUTHA LAKSHMI N
- 28 DIJO JAMES
- 29 MOHAMMED YASEEN P S
- 30 NESMI N
- 31 ROHITHA R
- 32 SHANTHINI S





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## DEPARTMENT OF CHEMISTRY INDUSTRIAL VISIT 2023-24

The students of 2021-24 batch were taken for industrial visit to CIPET, Kochi. Central Institute of Petrochemicals Engineering & Technology (CIPET) (formerly known as Central Institute of Plastics Engineering & Technology (CIPET)) was established in 1968 by Government of India with the assistance of United Nations Development Programme (UNDP) at Chennai. The main objective of setting up of this specialized institute was to develop manpower in different disciplines of Plastics Engineering & Technology as no similar institute was in existence in the country

Today CIPET is a premier Academic institution for higher & technical education under the Ministry of Chemicals & Fertilizers, Govt. of India fully devoted in all the domains of plastics viz: - Design, CAD/CAM/CAE, Tooling & Mould Manufacturing, Production Engineering, Testing and Quality Assurance. CIPET operates from various locations spread across the country to cater the needs of the Polymer and allied industries. CIPET has established a centre at Kochi since 2012 - Centre for Biopolymer Science & Technology (CBPST) - with the fund support of Govt. of India as well as Govt. of Kerala. CBPST is renamed as CIPET: IPT - Kochi from March 2018.



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#### List of students for I V

SL No	Name
1	MUHAMMED SAHAL A S
2	ADWAITH BHASKAR J
3	ALBIN ANTONY
4	AMRITHESH N G
	AMRUTHA RAJESH
5	
6	APARNA PRADEEP
7	ASHNA N N
8	ASWATHY S
9	ATHULYA MOL
10	DHAYA SANTHOSH
11	ELIZABETH ALEENA M M
12	FIDHA FATHIMA K H
13	GAYATHRY SUDHEER V
14	GOWRY K R
15	JAYADEVAN C M
16	NANDANA UNNIKRISHNAN
17	NIRMAL PRINCE
18	RINSHAD V S
19	ROSHNA SHAJI
20	SHAHAM T C
21	
22	AKHIL RATHEESH KAVUNGAL
23	ANAGHA ANIL
25	ANAGHA UNNI
26	ANJANA K A
27	ANJITHA C A
28	ANZALNA BASHEER
29	ARYA RAJAN
30	ASLAM E S
31	DEVI NANDANA K
32	
33	FAUSIYA V S
34	JITHIN JOHNY MANU C P
35	MANO C P MEENAKSHI KRISHNAN
36 37	NANDITHA T B
38	NAYANA MUKUND C
39	PRAJITHA J PAI
40	PRANNAY P KUMAR
41	AMAL K A
42	JIMCY ANTONY M A



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Mrudula Menon V. Principal-in-Charge The Cochin College



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Dr. Zafna Rasheed HOD, Dept. of Chemistry



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ANALYTICAL AND RESEARCH CENTRE AARC/PER/231/2022 AARC 15/03/2022 CERTIFICATE This is to certify that Mr.Nihal K.H, final year student of Bsc Chemistry, The Cochin College, Koovapadam, Kochi has done the project work titled 'Comparative Study of Quality of Open Well Water Samples' in Axiom Analytical and Research Centre during the period from 09.03.2022 to 15.03.2022 as part of their course curriculum. For Axiom Analytical and Research Centre 0 Alexander Nebu.P. Director- Analysis and Research 2nd FLOOR, KARAKKAT BUILDING, 39/4234, RAVIPURAM ROAD, COCHIN - 682 016, KERALA. PHONE : 0484 3231225, Telefax : 0484 2356157. e mail : aarc\_kochi@yahoo.com, axiomlab@airteimail.in APPROVED BY KERALA STATE POLLUTION CONTROL BOARD





Mendulo Menon

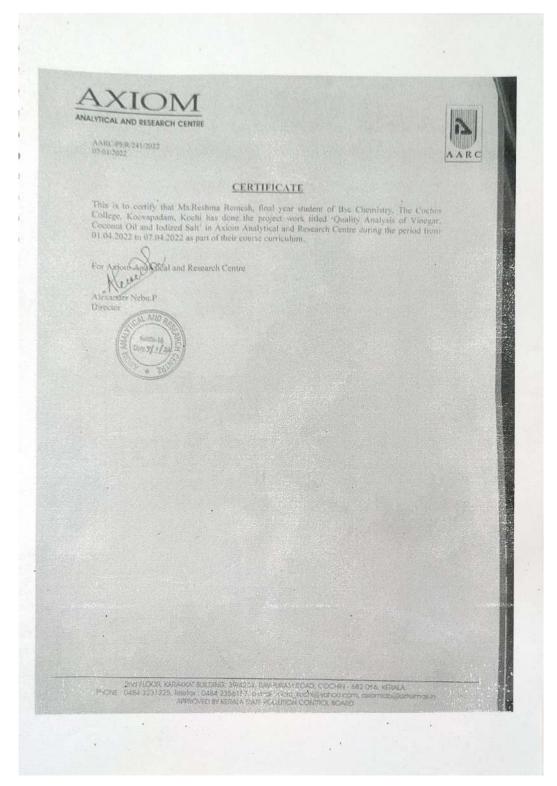


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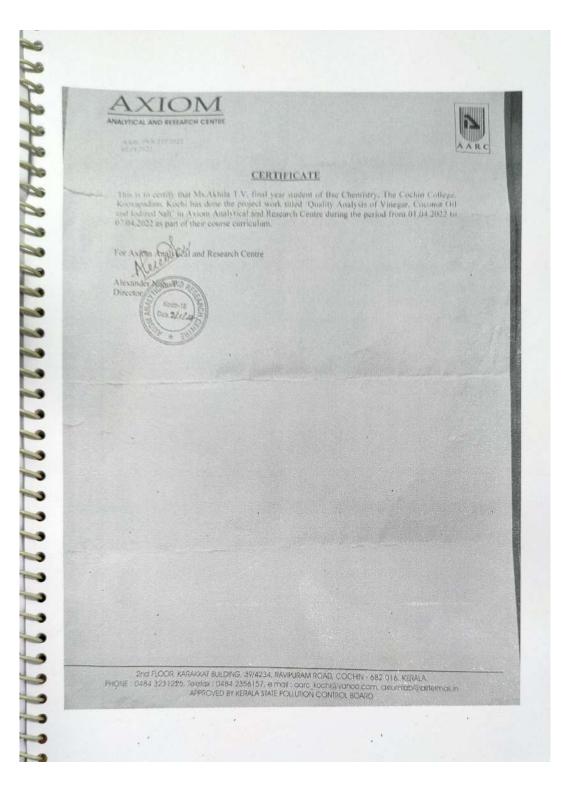


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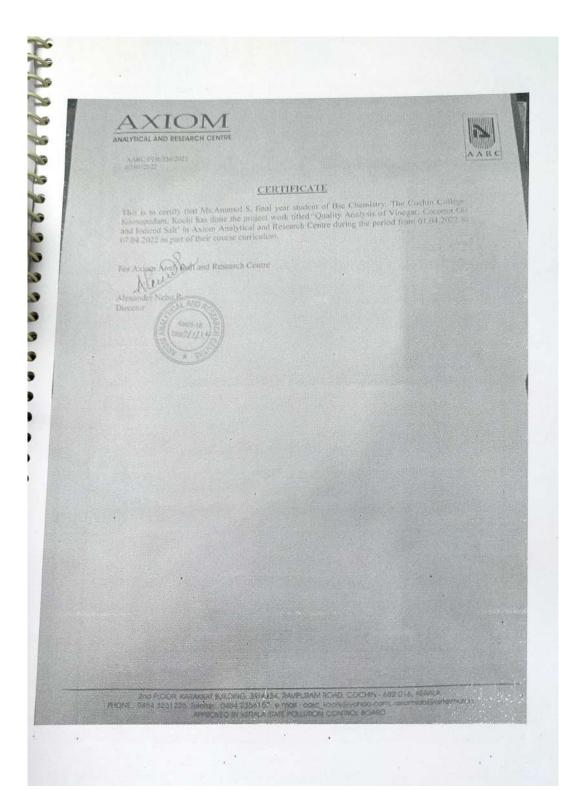


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10 ANALYTICAL AND RESEARCH CENTRE AARC/PER/240/2022 07/01/2022 ARO CERTIFICATE This is to certify that Ms, Harsha V, final year student of Bsc Chemistry. The Cochin College Koovapadam, Kochi has done the project work titled 'Quality Analysis of Vinegar, Coconut Oil and fodized Salt' in Axiom Analytical and Research Centre during the period from 01.04.2022 to 07.04.2022 as part of their course curriculum. For Axiam Applical and Research Centre Alexander Nebu P Director 2014 FLODO KADASKAT SUKDING 3014234, RALPEDAMIGOAD COOHNI, 482 UTA ZEALA DIELA 3731275 Telefax, 0464 2355157 e moli barc koch evonech diomosowa APPROVED BY KERALA SHAF POLIUIKIN COMIECE BOARD



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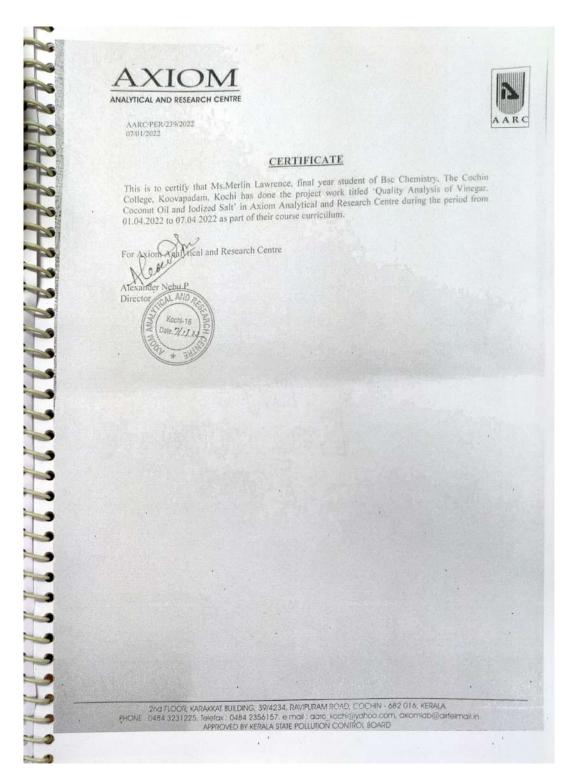


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Mendulo Menon Mrudula Menon V. Principal-in-Charge

The Cochin College

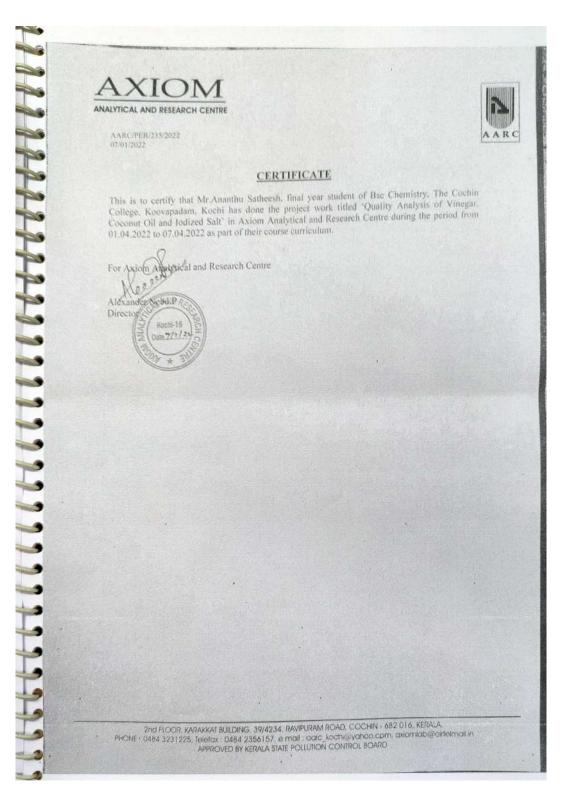


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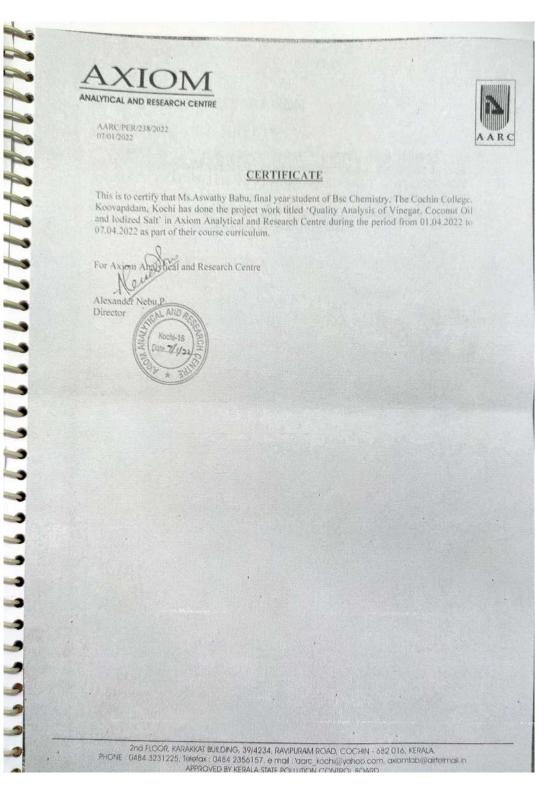


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ISF CHITIN AND MARINE PRODUCTS LLP 120000 Date: 09-03-2022 Certificate for Internship This is to certify that Ms. Adithya MS bearing Reg. No. 190021029182. a student of The Cochin College, Kochi, has successfully completed her Internship in our factory from 08th March 2022 to 09th March 2022. We wish you all the best for your future. Approved by Joseph Mathew Designated partner & C.F.O. Kannamaly, Kochi - 682 008, Kerala, India | Tel: +91-484-2247475, 2247252 | E-mail : indstafoods@gmail.com | www.idchitim.com A ANTIN THE PS



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2 ISF CHITIN AND MARINE PRODUCTS LLP Date: 09-03-2022 Certificate for Internship This is to certify that Ms. Rehana U bearing Reg. No. 190021029211, a student of The Cochin College, Kochi, has successfully completed her Internship in our factory from 08" March 2022 to 09" March 2022. We wish you all the best for your future. Approved by, Joseph Mather Designated partner & C.E.O.





Mendulo Menon