

ST. JOSEPH'S COLLEGE, MOOLAMATTOM

ARAKULAM P.O- 685591, IDUKKI, KERALA



2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process

INDUSTRIAL VISITS





INDUSTRIAL VISITS

Industrial visits offer students a valuable opportunity for experiential learning. These excursions provide a window into the practical world of industry, allowing students to witness the inner workings of factories, plants, assembly lines, and the intricate machinery that powers them. Interacting with seasoned professionals in these settings imparts knowledge that goes beyond textbooks. It's a form of experiential learning that supplements classroom education, helping students to not only understand theory but also witness its real-world applications. Various departments in our college, including English, Physics, Commerce, Chemistry and Management Studies, organized an industrial visit to supplement the curriculum by providing students with practical insights into their respective fields.

DEPARTMENT	PROGRAMME	COURSE	COURSE CODE	TOPIC	COURSE TEACHER
English	B A English (V) Copy Editor	Copy Editing – Over view	EN3CREN05	Preparing manuscripts for Press	Roby Mathew
Physics	B.Sc. Physics Model 2, applied Electronics	Communication Electronics	AE3VOT05	Naval Communication	Dr. Anju P Mathews
Commerce	Bachelor of Business Administration	Entrepreneurship	BA4CRT18	Management Functions	Abin Jose
Commerce	B.Com Computer and B.Com Finance and Taxation	Entrepreneurship Development & Project Management	CO4CRT12	Management Functions	Eswara Sarma
Chemistry	B.Sc Chemistry	Polymer Chemistry	CH6CBT01	Chemistry of Commercial Polymer	Dr. Jose James
Economics	BA Economics	Micro Economic analysis 1	EC2CRT02	Understand Production Process	Pramod Joseph
Management Studies	Bachelor of Business Management	Human Resource Management	BM3CRT13	Management Functions	Dr. Joseph George



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DEPARTMENTS

- [ENGLISH](#)
- [MANAGEMENT STUDIES](#)
- [ECONOMICS](#)
- [CHEMISTRY](#)
- [COMMERCE](#)
- [PHYSICS](#)



POSTGRADUATE DEPARTMENT OF ENGLISH

Report of the Industrial Visit conducted on 9 November 2022

Objectives

- To provide students with firsthand exposure to real-world industrial operations, processes, and technologies, enabling them to bridge the gap between theoretical classroom learning and practical industry applications
- To prepare them for their future careers and helping them make informed career choices.

Report

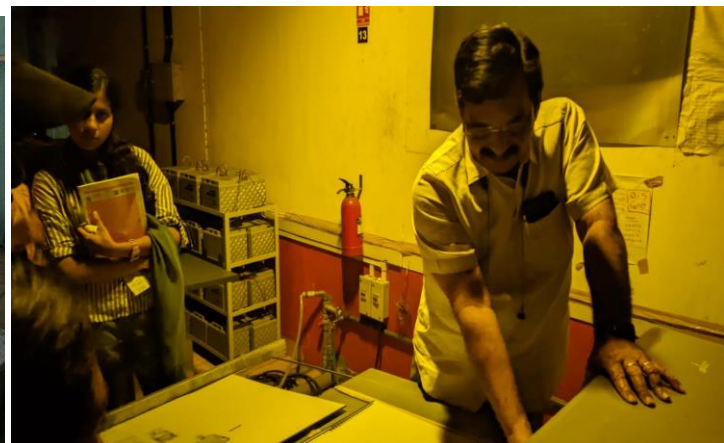
Department of English conducted an Industrial Visit programme for the final year UG students of this department on 9 November 2022 Viani Printings, Ernakulam, Kerala as part of imparting practical sessions to our students on the topics of printing and editing in English. BA English programme offered in the department is a vocational programme which links English language and literature with editing and publishing. It is a customary practice that students of BA English programme are offered an opportunity to visit a publishing industry before the completion of the programme. The objectives of the industrial visit are to give practical experience in the field of editing and printing and to be familiar with the advent of latest technologies in the field of printing.

A total number of 18 students accompanied by two staff members participated in the visit. The staff members and technical experts of Viani Printings, Ernakulam explained the nuances of editing, publishing and printing on this visit. Apart from visiting the press, the student community was given a class on 'Development of Printing' by Mr. Kurias N. Chacko, Chief technician at Viani Printings. It was a fruitful session which enthused the students with the practical and futuristic knowledge on printing and publishing.



Team of students with teachers at Viani Printings, Ernakulam

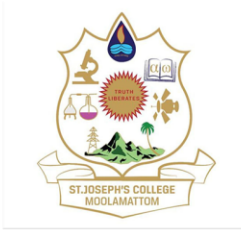
Mr. Kurias N. Chacko explains the working of latest printing machines



Mr. Kurian N Chacko demonstrate print technology



Students getting familiar with the nuances of publishing



List of Students participated

1. Abdulla K U
2. Abhiram P
3. Aleena Biju
4. Arjun Suresh
5. Aswanth Krishnakumar
6. Christeena Sabu
7. Fathima Salam
8. Harisankar S
9. Lakshmi Madhusudanan
10. Mahareen M Nazar
11. Mariat Mol George
12. Neenu Saji
13. Nikhitha Vijayan
14. Revathy S
15. Rosemary Jose
16. Krishnapriya T P
17. Neelima S
18. Stephena Fredy

Teachers Accompanied

1. Abhilash Mathew
2. Sunitha Mathew

Outcomes

- Fostered a sense of motivation and enthusiasm among students as they witness the practical applications of their academic knowledge
- Increased engagement and better preparation for their future roles in the industrial sector.

Report of the Industrial Visit conducted on 13 January 2018

Objectives

- To provide students with firsthand exposure to real-world industrial operations, processes, and technologies, enabling them to bridge the gap between theoretical classroom learning and practical industry applications
- To prepare them for their future careers and helping them make informed career choices.

Report

On 13th January 2018, 23 students of II BA English along with two teachers, Mrs. Roopa Jose and Mr. Prince J. Mathew visited Viani Printings at Ernakulam as part of their industrial visit.

The students were welcomed by the staff of Viani Printings and were given a tour of the facility. They were shown the different stages of printing, from pre-press to post-press. They also learned about the different types of printing machines and the different types of paper used in printing.

The students were particularly interested in the offset printing process. They learned how offset printing works and how it is used to print a variety of products, such as books, magazines, and newspapers.

The students also learned about the importance of quality control in the printing industry. They saw how the staff at Viani Printings carefully inspect each printed product to make sure that it meets their high standards.

The students were very impressed with their visit to Viani Printings. They learned a lot about the printing industry and they were very grateful for the opportunity to see a printing facility in action.



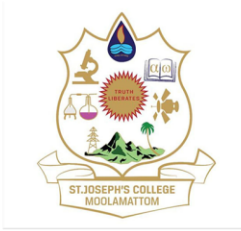
The Students observing the working of printing machine during IV



Students posing for a photo in front of the press after completing the Industrial visit

List of Students

1. Amal Binu
2. Amal Joseph
3. Charlotte P. Kurian
4. Cyril Wilson
5. Johnay Johny
6. Lakshmi T.R.
7. Lal Mohan
8. Malavika Saiju
9. Naveen Chandran
10. Remya Thankachan
11. Sona Anna Siby
12. Sony John



13. Ansiya U H
14. Ashna Najeeb
15. Ashna.M.A.
16. Aswin P . S
17. Bibin Babu
18. Jeny Joseph
19. Jomin Shibu
20. Josna Mary John
21. Prakash Mathew
22. Roshna Joseph
23. Shilpa Prasad

Teachers Accompanied

1. Prince J. Mathew
2. Roopa Jose

Outcomes

- Fostered a sense of motivation and enthusiasm among students as they witness the practical applications of their academic knowledge
Increased engagement and better preparation for their future roles in the industrial sector



DEPARTMENT OF MANAGEMENT STUDIES

BBM 2017-20 BATCH

INDUSTRIAL VISIT

Department of Management Studies
St. Joseph's College Moolamattom

FRIDAY
25 JANUARY 2019

LOCKHART TEA
FACTORY
MUNNAR

Objectives

- Facilitate practical perspective on the world of work
- Provide an insight regarding internal working of companies
- Bridge the gap between classroom theoretical training and practical learning in a real-life environment.

Industry Visited: Lockhart Tea Factory, Munnar

Date of Visit: 25th January 2019



A batch of 36 students of 2nd year B.B.M were accompanied by two faculty members, Head of the Department Dr. C. T. Francis and the class-tutor Ms. Tisha Tomy, in the industrial visit.

The IV trip started at 7 am from our college campus. We reached our destination, Lockhart Tea Factory, at 11:30 am. The staff members of tea factory gave us a warm welcome and guided us for viewing the factory. At first we visited the Lockhart Plantation Museum.

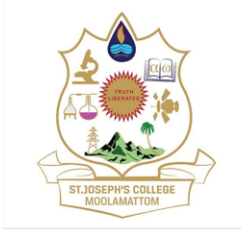


Plantation Museum

After that we were guided to visit their Tea factory. We were asked to wear shoes before entering the factory. One of the staff members welcomed and guided us to the factory where the processing of tea was going on. Ms. Manimeghala, the guide gave an introduction on the history of tea factory and its tea processing procedure. The visit came to an end at 1:30 pm.



Lockhart tea factory



The Lockhart Tea Factory is located in Munnar which was originally constructed in 1857. It is situated 9 km from Munnar on the Thekkady Road. The 1600 acre of Lockhart tea plantation is tucked in the slopes of Chokkarmudi hills. The museum is part of the Lockhart estate, which is one of the earliest tea plantation in High Range (Munnar) established by Baron John Von Rosenberg and his son Baron George Otto Von Rosenberg.

Lockhart Tea Factory's products are not available in our local market. They are dealing with exports, mainly to Europe. Lockhart factory is following traditional methods for production. For their product no colours are added. Not much preservatives too. Mainly there are three types of powders produced. They are Black tea, green tea, white tea. Black tea is a type of tea that is more oxidised than green and white tea. The white tea protect the body against certain diseases and reduce the risk of cancer and cardiovascular - disorders. Green tea is a type of tea that is made from camellia renensis leaves that has not undergone the same withering and oxidation process used to make black tea.

Tea manufacturing is the process of transformation of freshly plucked green tea leaves to black tea. Following are the steps involved in the manufacturing of black tea:-

1. Withering
2. Rolling
3. Fermentation
4. Drying
5. Shifting

WITHERING



Outcome

The industrial visit provided the students an Opportunity to interact with Industry Experts, thus enriching their learning experience. It also gave students an opportunity to experience how professionals live, enhancing their interpersonal, communication skills, and teamwork abilities



List of Students

1	AJITH VENU
2	AJITH O.S.
3	AKASH P. VIJAYAN
4	ANAL KUMAR S.
5	ANANDHU HARI
6	ANCY GEORGE
7	ANGEL RAJU
8	ANJANA JACOB
9	ANJU RAJU
10	ARJUN SHAJI
11	ARUNIMA SINI
12	ARYA SATHEESH
13	BHAVANA SURESH
14	CHANDINI CHANDRAN
15	DANY JOSEPH
16	DELNA V. S.
17	DEVAPRIYA P.
18	DONA MAXMILLA MARTIN
19	FAYIS T. H.
20	GOPIKA ASHOKAN
21	JAIS K. JAMES
22	JAYAKRISHNAN RAJAN
23	JISHNU SANTHOSH
24	KAVYA SIVAN
25	M. S. SRAVAN
26	MEENU RAVI



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27	MUHAMMED ANAS
28	NITHA BABY
29	SHIFA ABDUL KAREEM
30	SIDHARTH RAJEEV
31	SIMI TOMY
32	SNEHA SIBI
33	SREEJITH E. G.
34	SUBIN THOMAS
35	TEENA TOMY
36	YADU VAMSRAJ



Industrial Visit -2018-2019

BBM 2016-19 BATCH

INDUSTRIAL VISIT

Department of Management Studies
St. Joseph's College Moolamattom

**MONDAY
01 OCTOBER 2018**

SECURITIES AND
EXCHANGE BOARD OF
INDIA

KALOOR, COCHIN

Objectives

- Facilitate practical perspective on the world of work
- Provide an insight regarding internal working of companies
- Bridge the gap between classroom theoretical training and practical learning in a real-life environment.
- **Report On Industrial Visit**
- **Industry Visited: Securities and Exchange Board of India (SEBI)**
- **Date of Visit: 01.10.2018 (Monday)**

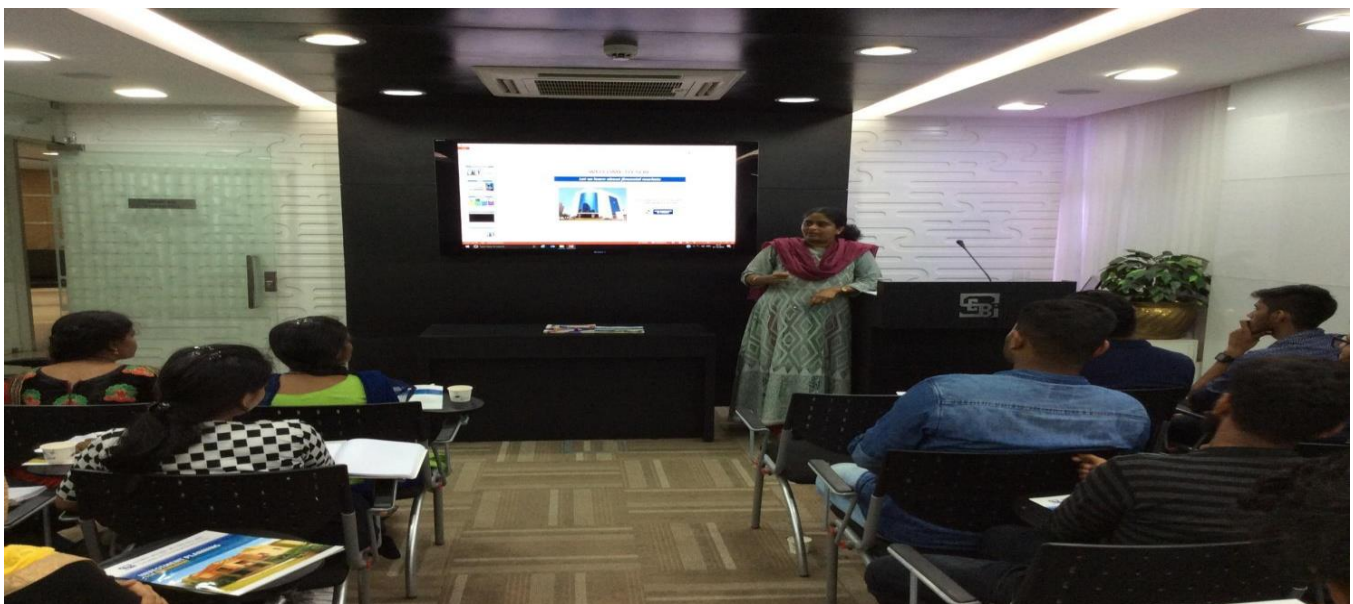


The final year batch of BBM students (36) and the staff coordinator Dr. Joseph George visited the Securities and Exchange Board of India (SEBI) at Kaloor, Cochin on 01.10.2018.

SEBI is a statutory corporation founded by the Government of India. This board was formed in 1988 but got powers in 1992. The headquarters of SEBI is at Mumbai, Maharashtra. The Board is controlled by its main members including – The Chairman (Nominated by the Union Government of India), two members from the Union Ministry of Finance, One from the Reserve Bank of India, three whole time members and two part time members nominated by the Union Government. It aims at investor awareness and regulation of the capital and financial markets.

Mrs. Sereena, Assistant General Manager, addressed the students and introduced about the SEBI. She explained about the functioning of this Unit. She also explained the different aspects of financial market and the significance of investments in one's life. She provided information to the students on how to invest and the prospects that it would bring to the investor in future. The session lasted for almost three hours and it was really exceptional.

During this session, students interacted with the Manager very effectively. The session concluded with a tea. All the students expressed their thanks to the officials for the opportunity given. This trip was highly useful for the students in terms of ample knowledge about the investments management. This would also be helpful for them to become future business managers.



Students attending sessions during their IV at SEBI



Students during their Industrial Visit at SEBI



Group photo of Students at SEBI

List of students participated

1	Abin Binu
2	Abins Rasheed
3	Aby Mathew
4	Aiswarya Raju
5	Ajith K P
6	Akshara T.S.
7	Albin Shiji
8	Aleena Justin
9	Amalu Shaju
10	Anandu Aji
11	Angel D. Morris
12	Anjumol O.S.
13	Ann Maria Devasia
14	Ansal Asharf
15	Arunkumar. K
16	Ashin Joy
17	Ashna Salim



18	Aswathy M.S
19	Bichu Boban
20	Bimisha Paulose
21	Dawny Mathew
22	Devika .S.
23	Jibin George
24	Jinsha C Kader
25	Maria Paul
26	Muhammed Bilal
27	Neenu Babu
28	Noora T. Muhammed
29	Renjima Rajan
30	Roshan Joseph
31	Roshin Robins
32	Salomy K Johny
33	Sandra Ramadas
34	Sulu Mol Salim
35	Unnimaya B.M
36	Vishnu Santhosh

Outcome

The industrial visit provided the students an Opportunity to interact with Industry Experts, thus enriching their learning experience. It also gave students an opportunity to experience how professionals live, enhancing their interpersonal, communication skills, and teamwork abilities. These visits have, time and again, proved to be an excellent platform for networking as the students interact and connect with the corporate. Finally, these industrial visits provide the students much-needed break from the usual melancholic theory classes, and students get a chance to engage in fun learning. The students get an opportunity to learn something outside the four walls of their college.



DEPARTMENT OF ECONOMICS

Company Name: MOULD PLAST

Location: Kinfra Park, Koratty, Thrissur, Kerala, 680309

Industry: Furniture and Home Furnishings manufacturing, wholesale and retail

Date: 12/03/2023

Introduction

MOULD PLAST is a company operating in the manufacturing and retail sector, specifically within the Furniture and Home Furnishings Retailers industry. It is situated in the city of Koratty, Thrissur, Kerala, India. The company focuses on offering new furniture and home furnishings to its customers through fixed point-of-sale locations, such as showrooms, providing ample space for product presentation.

Services and Operations

MOULD PLAST offers a wide range of furniture and home furnishing products to its customers. In addition to selling products, It provides incidental services, including interior decorating, product assembly, installation, and repair services, enhancing the overall customer experience.

Market Presence

Being a part of the Furniture and Home Furnishings Retailers industry, MOULD PLAST competes with other retail establishments in the same sector. The company's market presence is likely influenced by factors such as customer preferences, product quality, pricing strategies, and marketing efforts.

Conclusion

MOULD PLAST operates in the competitive Furniture and Home Furnishings Retailers industry, offering new furniture and home furnishing products to customers. Their location at Ward III, Plot No 3 And 8a, Kinfra Park, Koratty Thrissur, Kerala, India provides them with a strategic advantage in attracting local and regional customers.



II BA Economics Industrial visit to Koratti (12/03/2023).



II BA Economics Industrial visit to Mould Plast, Kinfra, Mould Plast, Kinfra, Koratti (12/03/2023).

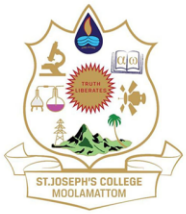


II BA Economics Industrial visit to Mould Plast, Kinfra, Koratti (12/03/2023).



List of students

Sl.No	NAME
1	AISWARYA A
2	AJMI JALEEL
3	AKHILA MANOJ
4	AKSHAYA RAJAN
5	ALEESHA SHAJI
6	ALEN JAMES
7	ALPHY GEORGE V A
8	ANANDHU SURESH
9	ANEX JOHNSON
10	ANJU JOSE
11	ANZIYAMOL RASHEED
12	ARATHY RAJAN
13	ARUN SHAJI
14	ASHIK SAKKEER
15	ASWAN VINOD
16	ASWATHY A R
17	BEEMA NIZAR
18	DANI J JOSEPH
19	DHANOOP DHAMODHARAN
20	GEORGIA GEORGE
21	GINO RAJESH
22	HIBA HAMEED
23	HITHAMOL C H
24	JASNA HUSSAIN
25	JERIN ANTONY
26	MUHAMMED SHAKKIR
27	NAZEERA P.N
28	NOUFIYA BEEVI N
29	RONY KURIAN
30	SANDRA RATHEESH
31	SHAHANA K A
32	SHEFINA SHAJI
33	SHIFANA SALIM
34	SIBIYAMOL BENNY
35	SNEHA RAJU

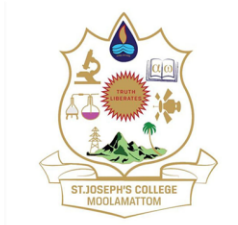


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36	SREELAKSHMI K HARI
37	SRUTHY G
38	AKHILA RAJ
39	FATHIMA NIZAR
40	KARTHIKA RAJAN
41	SANIYA BABU
42	SETHULAKSHMI S
43	SURUMI NOORJIN
44	VASUNDHARA G



POST GRADUATE DEPARTMENT OF CHEMISTRY

Report of the Industrial Visit conducted on 18 th February 2020

Objectives

- To enhance the academic - industrial collaboration.
- To provide students with firsthand exposure to real-world industrial operations, processes, and technologies, enabling them to bridge the gap between theoretical classroom learning and practical industry applications
- To prepare them for their future careers and helping them make informed career choices.

Report

Department of Chemistry conducted an Industrial Visit programme for the second year UG students of this department (2018-2021 batch B.Sc) on 18 th February 2020, to Anna Aluminium Company and Kitex Limited, Ambalamulal, Ernakulam, Kerala as part of imparting hands on experience to our students on the topics of Aluminium fabrication and in dye industry. The objectives of the industrial visit are to give practical experience in the aluminium moulding and to be familiar with the advent of latest technologies in the field of Chemical industry.

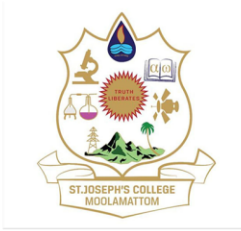
A total number of 30 students accompanied by three staff members participated in the visit. The staff members and technical experts of Anna Aluminium, Ernakulam explained the protocol in aluminium fabrication on this visit. Apart from visiting the moulding unit, the student community was given a class on 'Development of dye Industry' by Mr. Mohamed N. Ellias, Chief technician at Kitex. It was a fruitful session which enthused the students with the practical and futuristic knowledge on dye applications in textile field.



Students and teachers in front of Kitex Ltd, Ernakulam

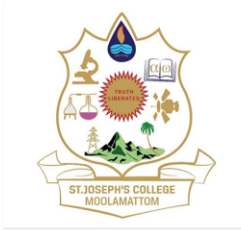


Girls Students at Anna Aluminium Fabrications



Student List

1. ALEENA THOMAS
2. ALEX JOHNSON
3. AMAL ANIRUDHAN
4. AMALA ABRAHAM
5. AMALU ABRAHAM
6. ANJU ANTONY
7. ANNU BENNY
8. ANSAR.S
9. ARDHRA TOM BENADICT
10. AYSHA AZIZ T
11. BEEMA JABBAR
12. DEVIKA MOHAN
13. DEVIKA MONICHAN
14. DHAYA THAMPI
15. DIBIN BABY
16. FATHIMA KABEER
17. FEMI SHAJI
18. HASEENAMOL P.S
19. JIS MARIA JAMES
20. JISBY ABRAHAM
21. NAISEN BENEDICT
22. NANDANA JIGY
23. NIKHILA S
24. PADMAJA MANMADHAN
25. PARVATHY SANTHOSH



26 . SHOJA SHAJI

27 . SHYAM PRAKASH P V

28 SREELAKSHMI VS

29 SRUTHY P. A

30 VARSHA PRASAD

Teachers Accompanied

- Dr.Saju M.Sebastian (Principal)
- Dr.Jose James
- Ms. Jaice Mariya

Outcomes

- Fostered a sense of motivation and enthusiasm among students as they witness the practical applications of their academic knowledge
- Increased engagement and better preparation for their future roles in the industrial sector.

Industrial visit to Nagarjuna Herbal Concentrates Limited Alakkode (03/03/2020)



Nagarjuna Herbal Concentrates Limited is the flagship company of Nagarjuna Ayurveda, engaged in the manufacturing and marketing of Ayurvedic products. 26 third year B.Sc chemistry students (B.Sc Chemistry 2017- 2020) and two teachers of St. Joseph's College, Moolamattom as a part of curriculum visited Nagarjuna Herbal Concentrates Limited wish to visit your institution on 3/3/2020 between 2-4pm. The visit to R And D labs was an eye opening to students. The experts provided a detailed explanation of the synthesis and application procedures.



Photos of manufacturing units



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ST. JOSEPH'S COLLEGE, MOOLAMATTOM

B. Sc Chemistry Third Year

List of Students

Sl. No	PRN	Name	AGE
1	170021027561	AISWARYA S	20
2	170021027562	AKSHEY B MICHAEL	20
3	170021027564	ALEX GEORGE	20
4	170021027565	ALWIN SANTO	21
5	170021027569	ANU VARGHESE	19
6	170021027570	APARNA JAYAN	20
7	170021027572	ASWIN KRISHNA	19
8	170021027573	BISMI BIJU	20
9	170021027574	CHANDINI K R	19
10	170021027575	DEVAPRIYA C MANOJ	19
11	170021027574	CHANDINI K R	19
12	170021027578	N KRISHNA RAJ	19
13	170021027579	NAMITHA BABU	19
14	170021027580	PARVATHY DINESAN	20
15	170021027581	PARVATHY JIJI	19
16	170021027582	RAHUL ANIL	20
17	170021027583	RENJITHA A.S.	20
18	170021027584	ROHITH ANILKUMAR	21
19	170021027585	SARATH SANTHOSH	21
20	170021027586	SHINUMOL JOHN	21
21	170021027587	SNEHA MATHAI	20
22	170021027588	SOORYA SURENDRAN	19
23	170021027589	SREEMOL K.S.	20
24	170021027590	SREERAM R.NATH	20
25	170021027591	SULUMOL K.S.	20
26	170021027593	VISHNU K SHAJI	20



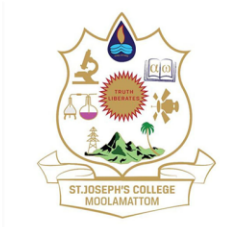


Photo of students visiting Nagarjuna Herbal Concentrates Limited at Alakkode

Outcome

- The students may have gained a deeper and more practical understanding of the chemistry involved in the production of Ayurvedic products.
- The visit might have exposed the students to potential career opportunities in the field of Ayurvedic chemistry and pharmaceuticals.



IV-Report by students

Visit To Nagarjuna Ayurvedic Centre,
Alakode, Thodupuzha

Department of Chemistry, St. Joseph's College, Moolamattom.

Industry Visited : Nagarjuna Ayurvedic Centre, Alakode, Thodupuzha

Date : 3rd March 2020

Transportation : Private bus

Students : 26 students of IIIrd Bsc Chemistry.

Faculty Accompanied: 2 Female

~~Dr. Sijo~~, Dr. Sr. Sijo Francis

Miss Mubeena.

Industry Profile

Nagarjuna Herbal Concentrates limited is the flagship company of the Nagarjuna Ayurvedic Group, engaged in the manufacturing and marketing of Ayurvedic products. Apart from traditional Ayurvedic Medicines, NHCC manufactures proprietary Ayurvedic

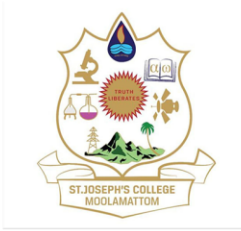


Medicines, and herbal products. Nagarjuna R & D has developed speciality medicines to cure and better management of a core group of diseases. The company has its presence in 19 states of India with a wide network with clinicians and medical fraternities. The distribution channel is well established to ensure proper and prompt delivery of products.

The Quality Control Lab is approved by the Pharmaceutical Laboratory of Indian Medicine, Govt. of India to test raw materials and finished products.

Nagarjuna Ayurvedic Group was established with the mission of restoring Ayurveda as a mainstream health management systems.

Namitha Babu



Industrial visit (01/04/2022)

Anna Aluminium Company Pvt Ltd, Kochi

1. Introduction

Anna Group is a multi-product, multi market, multi core success story that had begun in 1968, evolved as a company devoted to the manufacture of Aluminium vessels, into a multidimensional giant with interests in various fields ranging from textiles to spices. Anna Group, where quality is the buzz word, has built success; and success has opened new vistas of exciting challenges. Anna Aluminium products span the entire range of household and commercial needs, and have won the ISI mark for superior quality. Made from aluminium of 99.5% purity, these products have conquered the domestic market, as well as a sizeable export market in the Gulf, Africa and the U.S.A. Exclusive showrooms throughout Kerala and a wide retail network carry the ANNA hallmark of quality from the cities to even the most far flung village in Kerala.

ANNA GROUP-expanding possibilities from fast selling Aluminium utensils to much-in-demand anodized aluminium extrusions, ANNA GROUP expands its possibilities .Aluminium sheets are manufactured at the company's state-of-the-art factory and snapped up by the construction industry.

Anna Aluminium is the flagship company of Anna Group. Engaged in the manufacturing and marketing of Vessels and Utensils as per ISI standards for the past three decades, it is presently the only company having ISI Certification for Vessels in Kerala. The company manufactures vessels only using 99.5% pure aluminium ingots. The brand 'ANNA', has become a household name in Kerala due to its high standards of quality and workmanship. The Company has more than 525 different varieties of vessels and utensils, marketed through more than 1200 outlets.

Anna Aluminium has a wide range of vessels to cater to all necessities of a modern day kitchen.



Depending on the various types of cooking and dishes, Anna provides more than 525 varied vessels and utensils. Their products are made of high standards and strict adherence to quality. To maintain this quality, vessels and utensils are made using 99.5% pure aluminium. All products are as per ISI standards and Specifications.

1. Visit

As part of the industrial visit the second year students of B.Sc. Chemistry (2019-2022) along with three faculty members of Department of Chemistry, St. Joseph's College, Moolamattom visited Anna Aluminium and Kitex Garments Limited of Anna Group, an ISO 9007-2008 certified company, at Kizhakkambalam on 01st april 2022. Dr. Sr .Sijo Francis(HOD), Dr.Jobi KV (Class Tutor) and Dr. Anu Antony were the faculties accompanied in the industrial visit.

Anna Group started out as an aluminium product manufacturer over 53 years ago. At Anna Aluminium, machine power as well as manpower is utilized for making products. The moulding of vessels is done by group of skilled workers. Kitex Garments Limited uses automated weaving machines. For stitching and quality checking they use manpower. The employees of both industries are very dedicated and pleasing. They interacted with the students and explained how the whole process is going on smoothly.

The industrial visit to Anna Group inculcated the scientific awareness of aluminium moulding and fabrication protocols. It provided an ample opportunity to understand the chemistry and chemistry behind the success of this industry sector. It was a great experience.



List of Students and Accompanying Teachers

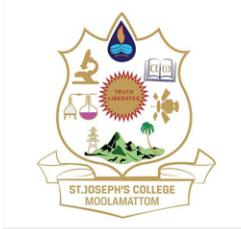
Sl No	Name	Age	Gender
1	Abil Ullas	21	M
2	Ahalya Sasi	21	F
3	Aiswarya KS	21	F
4	Alwin Sony	20	M
5	Anju Thankachan	20	F
6	Ansalna K Siddik	20	F
7	Athul Krishna M	21	M
8	Bibin Michael	21	M
9	Binishma Alphonsa Baby	20	F
10	Dhanu K Joseph	20	F
11	Emmanuel M Sunny	20	M
12	Jeswin George	20	M
13	Thomas Johnson	19	M
14	Yadhu Krishnan VR	20	M
15	Albiya Benny	20	F
16	Aleena Binu	20	F
17	Anjali Krishna MS	20	F
18	Anjana Jimmy	20	F
19	Anjid K Khadhar	21	M
20	Aparna KM	20	F
21	Athira Sasi	20	F
22	Bhavana S Raj	20	F
23	Bibin K Johnson	20	M
24	Blessymol Tomy	20	F
25	Malu Biju	20	F
26	Mariya Baby	21	F



27	PR Ammus Krishna	20	F
28	Pooja Parvathy P	20	F
29	Sneha Sebastian	20	F
30	Thasleema VS	21	F
Dr.Sijo Francis		9446929355	
Dr.Jobi KV		7034401742	
Dr.Anu Antony		9447165481	

An industrial visit & study tour of III B.Sc chemistry students (30 participants) to Wayanad and Kozhikode was conducted during 31/3/22-3/4/ 22. Dr.Sr.Sijo Francis, Dr.Jobi KV and Dr.Anu Antony were accompanied.





REPORT ON INDUSTRIAL VISIT AT THE CASHEW EXPORT PROMOTION COUNCIL OF INDIA (CEPCI) (18/05/2023)

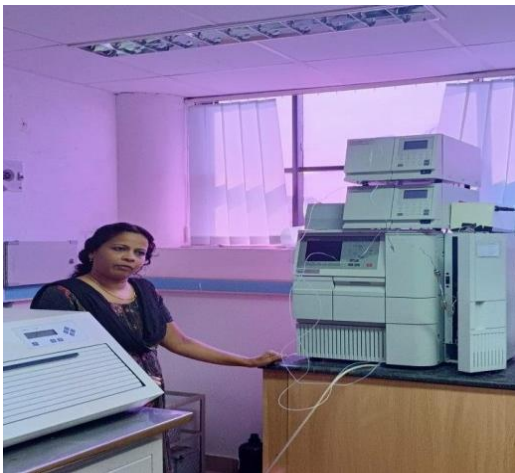
On 18th May 2023, 14 B.Sc Chemistry students and 2 accompanying teachers from St. Joseph's College, Moolamattom, Idukki visited The Cashew Export Promotion Council of India (CEPCI), Kollam. CEPCI serve to intensify and promote exports of cashew kernels and cashewnut shell liquid from India. The visit provided an excellent opportunity for the students to get an understanding of various instruments and techniques employed in labs to ensure the quality of food and water.

We arrived at the CEPCI campus at 2.00 pm and were guided by the officials who accompanied us throughout the visit. We were initially taken to the visitor's lounge, where we were given a brief introduction regarding the history of the institute, their goals and achievements. Then the scientists over there introduced and explained the various instrumentation facilities available at CEPCI. Finally, we returned from there by about 4.00 pm.

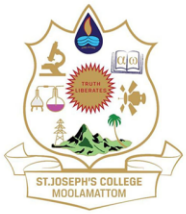


CEPCI

CEPCI was established in the year 1955 by the Government of India, with the active cooperation of the cashew industry with an objective of promoting exports of cashew kernels and cashewnut shell liquid from India. The council provides the entire necessary institutional framework for performing different functions that serve to intensify and promote exports of cashew kernels and cashewnut shell liquids. The institute also provides other services such as sample collections, testing and certification of food products, water, sugar etc...



Demonstrate the Cashew processing



DEPARTMENT OF COMMERCE

INDUSTRIAL VISIT- 2022

Industry Visited : Kerala State Coir Corporation, Alappuzha

Teachers coordinators : Ms. Bincy Francis and Mr. Shibu K R

Number of participants :28

Class : B.Com Finance and Taxation

On 17 Dec morning at 7.30 the journey starts from our college. They reached Alappuzha Coir Corporation at 11.30am. After quick verification of documents at the entrance they got the permission for the visit.

They are experienced with different machineries used for production, new products of coir corporation- floor mats, sealing mats, etc. they took around three hours for completing the visit. After they had lunch there and return to college after a short visit in Alappuzha beach.



Visisting Kerala state Coir Corporation-Alappuzha, Kerala-17/12/2022



INDUSTRIAL VISIT ALAPPUZHA COIR FACTORY 2022 BCOM TAXATION

Sl.No	Name
1	ABIN BINOY
2	AISWARYA P A
3	AISWARYA RAJENDRAN
4	AKSHAI ANIL
5	AKSHAI JIFY
6	ANAGHA JOY
7	ANAGHA R
8	ANAMIKA SANTHOSH
9	ANVIYA BENNY
10	ASHWIN SAJI
11	ATHIRA THULASIDAS
12	DONA BIJU
13	FEBIN JOSHY
14	HEMA MANOJ
15	JIBIN P VARGHESE
16	JOFFIN JOHN
17	JOHNSON THANKACHAN
18	JYOTHILAKSHMI V S
19	MARIYA SUNNY
20	MEHAR FATHIMA N
21	NANDU SAJI
22	SACHU SAJU
23	SHARON SHAJU
24	AJMIMOL K A
25	ANSIL MUJEEB
26	ANUPAMA ROY
27	DON ALOSHI
28	JOSH JOJO

OUTCOMES

The industry visit to Kerala State Coir Corporation yielded several significant outcomes for the participants.

1. Practical Understanding: Participants gained a hands-on understanding of the coir production process.
2. Insights in to various coir products.

INDUSTRIAL VISIT :KANNAN DEVAN TEA FACTORY, MUNNAR

Industry Visited : Kannan Devan Tea Factory ,Munnar

Teachers coordinators : AbinJose,Shaiju and JovanaPramod

Number of participants : 44

Class : **BBA**



Photograph of industrial visit to kannan Devan tea factory Munnar on 21/10/2022

An industrial visit to the Kannan Devan Tea Factory in Munnar was organized for BBA students of St. Josephs College from Moolamattom, Kerala. The objective of this visit was to provide the students with an in-depth understanding of the tea manufacturing process and to familiarize them with the tea industry's operations. The visit aimed to bridge the gap between theoretical knowledge and practical application.

The students and faculty members gathered at St. Josephs College early in the morning and boarded comfortable buses for the journey to Munnar. The scenic drive through the lush greenery of Kerala added



to the excitement and enthusiasm of the students. Arrival at Kannan Devan Tea Factory: Upon arrival at the Kannan Devan Tea Factory, the group was warmly welcomed by the factory representatives. They introduced themselves and provided an overview of the company's history, its contributions to the tea industry, and their commitment to sustainability practices.

The students were divided into smaller groups to ensure a better understanding of the various processes. The guided tour started from the tea plantation, where students learned about different varieties of tea plants, plucking methods, and the importance of climatic conditions for tea cultivation.

Next, the groups proceeded to the tea processing section. They observed the withering, rolling, fermentation, drying, and sorting stages of tea production. Factory staff explained the significance of each step in enhancing the Flavors and quality of tea leaves.

Quality Control and Packaging: The students were shown the quality control department, where tea samples were tested and graded based on aroma, taste, and appearance. They learned about the strict quality standards followed by the company to ensure consistency in their products.

In the packaging section, students witnessed the modern machinery used for packing tea and how it is prepared for distribution in various markets.

Lunch and Recreation: A delicious lunch was arranged for the students at the factory premises. After the meal, the students had some free time to explore the beautiful surroundings of Munnar and capture memorable moments.

CONCLUSION:

The industrial visit to the Kannan Devan Tea Factory was highly informative and engaging for the BBA students of St. Josephs College, Moolamattom. It provided them with practical knowledge of tea processing, quality control measures, and the functioning of a leading tea company in India.

The visit not only complemented their academic learning but also exposed them to the realities of the tea industry and the efforts undertaken to produce high-quality tea. The experience was both educational and enjoyable, leaving a lasting impression on the students minds.



ST. JOSEPH'S COLLEGE

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stjosephscollegemoolamattom.ac.in

LIST OF STUDENTS AND TEACHERS- INDUSTRY VISIT TO KANNAN DEVAN FACTORY MUNNAR	
LIST OF STUDENTS	
SL NO	NAME OF THE STUDENT
1	ABIN SABU
2	AFSAL NAVAS
3	AKHIL VINOD
4	AKSHAY KRISHNA
5	ALAN BABY
6	ALEX ONACHAN
7	AMAL C CHANDRAN
8	ANANDHU BINU
9	ANANDHU MANOJ
10	ANFIYA MOL ISMAIL
11	ANJO MATHEW
12	ANN ROSE GEORGE
13	ANTONY BENNY
14	ASHKAR HAMEED
15	ASHISH GOPAL
16	DELLA SHAJAN
17	EDISON KURIAKOSE
18	ELDHOSE K BIJU
19	FEMINA AJI
20	HARIDEV H
21	HARITHA M
22	IJAS MUHAMMED ISSAHAC
23	LAKSHMI SAJEEV
24	LINU SAM
25	LITHIN JACOB THOMAS
26	MUHAMMED IBRAHIM IBN RAFAEEK
27	MUHAMMED YAZEEN V S
28	NAZIHA NOUSHAD
29	PRAVEENA P UNNITHAN
30	RAZAL MUHAMMED
31	RESHMIMOL K R
32	RIYA SAJU
33	RONY JACKSON
34	S.ANANTHU
35	SABA KARIM
36	SAMBHU K BABU
37	SANIYA JAYAN
38	SARATH PRASANTH
39	SONU THOMAS
40	SREEJITH SASEENDRAN
41	SRUTHI DAMODARAN
42	TESSIN MATHEW
43	TONY SAJU

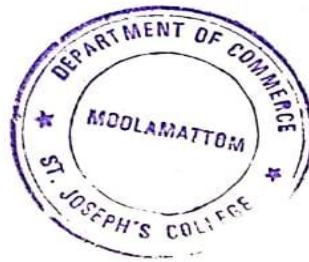


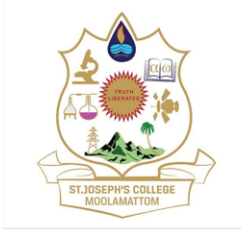
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stjosephscollegemoolamattom.ac.in

44	VISHNU VINOD	
LIST OF TEACHERS		
1	ABIN JOSE	
2	SHAIJU S	
3	JOVANA PRAMOD	





INDUSTRIAL VISIT - 2019

Industry Visited : Harrison Tea Factory, Munnar

Teachers Coordinators : Mr. Shibu P G, Ms. Sunitha M T

Number of participants : 56

Class : **B.Com Computer Application**

Objective of the Visit:

The main objective of the visit was to gain practical insights into the tea manufacturing process, understand the historical significance of the tea industry in Munnar, and observe the various techniques used in tea production.

The journey starts from the college on early morning by 6.00 am. After having breakfast from Adimali they reached Harrison tea factory by 11.00 am. They experienced the different stages of making tea powder. And they also tasted sample of tea and it was really delicious.

The tea factory provides a factory outlet for purchasing good quality tea powder from there. Thus all the students and teachers used to purchase tea powder from there. It was really good study tour for all of the students.

OUTCOMES

The industry visit to Tea Factory in Munnar yielded several significant outcomes for the participants.

1. **Practical Understanding:** Participants gained a hands-on understanding of the tea production process, from plucking the tea leaves to processing, packaging, and distribution. This practical exposure helped bridge the gap between theoretical knowledge and real-world application.

2. **Insights into Tea Manufacturing:** The visit provided valuable insights into the various techniques, machinery, and equipment used in tea manufacturing. Participants observed the intricacies of withering, rolling, fermenting, and drying that contribute to the final product's quality.

Conclusion:

The industry visit to Harrison Tea Museum was an enriching experience that bridged the gap between theoretical knowledge and practical application. It deepened our appreciation for the tea industry's historical significance, manufacturing processes, and cultural importance. This firsthand exposure will undoubtedly contribute to our academic and professional growth in the field.



Students list -industrial visit- 2019(B.Com Computer)

1	ABEY JOSE	
2	ABHIJITH BINU	
3	ABIL JAME JOSEPH	
4	AKHILESH A S	
5	ALEEN TENSING	
6	ALEENA SIJU	
7	ALVIN JOY PALACKAPARAMBIL	
8	AMALA SUNNY	
9	ANAGHA S NAIR	
10	ANANDHU BINOY	
11	ANSAL K SAMAD	
12	ANUPAMA SHAJI	
13	ANURUKTHA BABY	
14	APARNA JAYAPRASAD	
15	APARNA. P.J.	
16	ASHLY MATHEW	
17	ASIF T.RASHEED	
18	ATHIRA SABU	
19	ATHULYA RADHAKRISHNAN	
20	AUGUSTINE THOMAS	
21	BASIL SUNNY	
22	BONY BENNY	
23	CHINJU JOSEPH	
24	CYRIAC JOHN	
25	DELJO MATHEW	
26	DEVIKA G.NAIR	
27	DEVIKA K S	
28	DEVIKA RAJEEV	
29	DHANYA SUNNY	
30	GEETHA M	
31	JALEENA ANDREWS	
32	JIKSON GIGI	
33	JOSE THOMAS	
34	JOSNA MATHEW	
35	JOYAL MATHEW	
36	LIYAMOL CHACKO	



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37	MEBIN SANTY	
38	MEENU MANOJ	
39	MELVIN JOHNSON	
40	NANDAGOPU P.S.	
41	NIKITHA BOBAN	
42	PARVATHY THANKACHAN	
43	RENJOY JOSEPH	
44	SARASWATHY RAJEEV	
45	SARATH PRASAD	
46	SETHULAKSHMI K.B.	
47	SIDHARTH K VINOD	
48	SOURAVLAL K.G.	
49	SREEJITH P.S.	
50	STABIN SAJU	
51	STEPHYMOL RAJU	
52	SUJITH P.SURESH	
53	SWAPNA SIBI	
54	TINTO TOM	
55	VISHNU K C	
56	VISHNU SABU	



INDUSTRIAL VISIT: COIR MUSEUM ALAPPUZHA

Industry Visited : Coir Museum Alappuzha
Teachers coordinators : AbinJose, Shaiju and Neethumol Shaji
Number of participants : 28
Class : BBA



Photograph of industrial visit to international coir museum Alappuzha on 12/10/2019

An industrial visit has been organized by the Department of Commerce on 12/10/2019 with students of third year BBA to International Coir Museum, Alappuzha. The purpose of the visit was to gain insights into the coir industry, understand the traditional coir-making process, and learn about the history and significance of coir in Kerala's economy and culture.

1. Overview of the Coir Museum: The Coir Museum, situated in Alappuzha, is a prestigious institution dedicated to showcasing the rich heritage of the coir industry. It offers visitors an in-depth understanding of coir production, its history, and its significance in the socio-economic fabric of the region.

2. *Highlights of the Visit:* During our visit, we were provided with a guided tour of the museum by knowledgeable staff members. The main highlights of the visit included:

a. History of Coir: The museum offered a comprehensive overview of the history of coir in Kerala, dating back several centuries. We learned how coir extraction and weaving techniques have evolved over time.



- b. **Coir Extraction Process:** We witnessed the process of coir extraction from coconut husks. The traditional process involves manual extraction using special tools, and we got to see the skilled artisans at work.
- c. **Coir Weaving:** After extraction, we observed the weaving process where coir fibers are transformed into various products, such as mats, ropes, and brushes. We also learned about the different types of looms used in the coir industry.
- d. **Coir Products Display:** The museum houses a vast collection of coir products, showcasing the versatility and utility of this natural fibre. We saw a variety of products, including doormats, carpets, mattresses, and more.
- e. **Modern Innovations:** The visit also included information about modern innovations and technologies introduced in the coir industry to enhance efficiency and productivity.

3. *Educational Insights:* The industrial visit provided valuable educational insights to the BBA students of St. Josephs College. Some key takeaways were:

- a. **Socio-Economic Importance:** Coir is a crucial industry in Kerala, providing employment to thousands of people, especially in rural areas. We understood the impact of the coir industry on the local economy.
- b. **Sustainable Nature:** Coir is an eco-friendly and biodegradable natural fiber. The visit helped us appreciate the significance of sustainable industries in today's world.
- c. **Preservation of Tradition:** The visit highlighted the importance of preserving traditional craftsmanship and how it adds to the cultural heritage of a region.
- d. **Entrepreneurial Opportunities:** We learned about the potential entrepreneurial opportunities in the coir industry, encouraging students to consider it as a viable career option.

Conclusion:

The industrial visit to the Coir Museum in Alappuzha was an enriching and enlightening experience for BBA students of St. Josephs College. We gained a profound understanding of the coir industry, its history, and its socio-economic significance. The visit also fostered a sense of pride in the rich cultural heritage of Kerala and the sustainable practices employed in the coir production process. Overall, the trip was successful in achieving its objectives, and we express our gratitude to the Coir Museum staff for their warm hospitality and informative guidance during the visit. This experience will undoubtedly remain etched in our memories as a valuable learning opportunity.



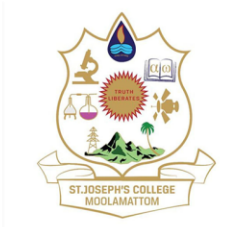
LIST OF STUDENTS AND TEACHERS- INDUSTRY VISIT TO COIR MUSEUM ALAPPUZHA

LIST OF STUDENTS

SL NO	NAME OF THE STUDENT
1	ADHARSH T.R
2	AKHILA MOHANAN
3	AKSA BABU
4	ALBIN JOSEPH
5	ALBIN MANOJ
6	ALEKH S
7	AMRUTHA K HARIDAS
8	ANJALY MOHANAN
9	ARJUN SURENDRAN
10	ASHIR MUHAMMED
11	BHAVYA SAJI
12	BINCY BENNY
13	CHERIAN CHERIAN
14	IRFAN K . S
15	JITHIN REJI
16	MARTIN T SHAIBU
17	MELVIN SHAJI
18	MUHAMMED RAZAL
19	NANDANA RAMAKRISHNAN
20	POOJA MOLT
21	ROHITH K BIJU
22	ROSHAN JOSHY GEORGE
23	SHANA SHAMSUDEEN
24	SHARAFUDEEN LATHEEF
25	SHEFIN N . S
26	SONU TOMY
27	SREEKANTH K . S
28	VAISHNAV C VIJU

LIST OF TEACHERS

1	ABIN JOSE
2	SHAIJU S
3	NEETHUMOL SHAJI



DEPARTMENT OF PHYSICS

3rd Year B. Sc. Physics 2020-2023

Industrial visits are an important part of the B.Sc. Physics curriculum because they provide students with the opportunity to: Gain exposure to real-world applications of physics. In the classroom, students learn about the theoretical principles of physics. However, it is important for them to see how these principles are applied in the real world. Industrial visits give students the opportunity to see how physics is used to develop new products, solve problems, and improve our lives. Meet with professionals in the field. During industrial visits, students have the opportunity to meet with professionals who work in physics-related fields. This gives them the chance to learn about the different career options available to them and to get advice from experienced professionals. Network with other students and professionals. Industrial visits are a great way for students to network with other students and professionals in the field. Gain hands-on experience. In addition to learning about the theoretical principles of physics, it is also important for students to gain hands-on experience. Industrial visits give students the opportunity to work with real-world equipment and to see how physics is used to solve problems. The most recent industrial outings are included here, along with a list of the students who went on each one and sample reports that were submitted.

Number of students: 12

Sl. No	Name of Student Participant
1	Abhimanue Ajith
2	Adarsh Sunil
3	Alfiya C. M.
4	Aparna Raju
5	Mevin Mathew
6	Rohit Murali
7	Vishak K. S.
8	Vishnu P.B.
9	Albin Jose
10	Gurupriya Sugathan
11	Sneha Mohanan
12	Sooraj Biju



At Holmarc Opto Mechatronics

Established in 1993, Holmarc Opto-Mechatronics Ltd manufactures variety of scientific and engineering instruments for research, industry and education. Holmarc manufactures wide range of scientific instruments and devices for manufacturing, research and education. Application of their products spreads into almost all scientific and engineering disciplines, be it space science, nuclear research, food and agricultural technology, life science, bio-medical engineering, factory automation, precision manufacturing, etc.. .

At the first stage the metal parts required for the equipment is being cut according to the shape and size. The materials used for the metal parts are usually from aluminum or the alloys of aluminum and steel. After the first stage the lady official from the company who gave the tour of the industry took us to the section where the metal parts are arranged and polished. These are either done manually or with the help machines for precision cutting. An example of assembly we saw was the arrangement of the optical table used for the setting up of the optical instruments and devices. They were cut at the initial stage and passed on to this stage. Here they are drilled for holes with at most precision. Every hole are drilled equidistance of 25mm. Plastic cups are being arranged beneath hole with glue to prevent dust particles from entering the setup. There are usually two different type of cutting machines employed for the precision cutting-the CNC milling and CNC lathe. The CNC stands for computer numerical control. For a CNC milling machine (aka CNC machining center), the work piece is fixed or mounted in position using a vice or fixture while the cutting tool is maneuvered on top of or around the piece. Material is then gradually removed using cutting tools or drills which rotate at high speed with varying feed rates along two or more axes. In the case of a CNC Lathe (aka CNC Turning Center), however, the work piece (usually cylindrical) is mounted on a rotating chuck or on the main spindle. It is then “turned” (hence the name turning Center) or rotated along a main axis while the cutting tool located in a rotational or positioning turret would move in a parallel direction to the piece. Material is then removed using stationery cutting tools.

Thus, a CNC milling machine use a spinning tool with a stationery work piece, whereas a CNC Lathe would involve spinning the material to be worked on by a stationery cutting tool. The major skill required for operating these machines are programming. The CNC lathe and milling has different programming. The drill material varies with application. Usually they are of HSS, carbide and sometimes even diamond for harder materials.

At the next section is where they process the optical parts for the instrument as per the demand. It is the largest section of the industry. It has different stages. At first large blocks of glass materials are being cut to sizes require. The glass materials also vary. The fundamental properties that characterize optical glass are refractive index, dispersion, and transmission.



When designing an optic that will be used in an extreme environment it is important to realize that each optical glass will have slightly different chemical, thermal, and mechanical properties. These properties can be found on the glass datasheet. Optical systems have to be optimized for a total set of functional characteristics. Geometrical and color-induced aberrations can be compensated only by the use of more than one glass type. In most cases three or more glass types are used. The requirements on optical systems for different applications cover a range so wide that they cannot be met with just a small set of glass types. So a wide range of glass types has been developed. Traditionally they are shown in the refractive index versus dispersion diagram - the Abbe diagram.

The Abbe diagram, first introduced by SCHOTT in 1923, is a long-established survey of the optical glass program. Glass types are given in a two-dimensional coordinate system with the Abbe number as x-axis and the refractive index as y-axis. The x-axis is in reversed direction with numbers increasing to the left side (Figure 2).

Some of the glass materials used there are H-K9L, Fused silica, NBK7, F2 etc. H-K9L is the alternative for N-BK7. H-K9L (N-BK7) is a RoHS-compliant borosilicate crown glass. It provides excellent transmission in the visible and near infrared portions of the spectrum (350 nm - 2.0 μm). It is typically chosen whenever the additional benefits of UV fused silica. H-K9L (NBK7) is probably the most common optical glass used in high-quality optical components. HK9L (N-BK7) is a hard glass that can withstand a variety of physical and chemical stressors. It is relatively scratch and chemical resistant. It also has a low bubble and inclusion content, making it a useful glass for precision lenses.

Then these raw glasses are grinded according to their shape, size and focal length. Different grinding surfaces are used for concave, convex and plane lenses and glasses. One particular thing we can everywhere was white colored water. This the calcium oxide mixed with water. Both lime and limestone (calcium carbonate) are essential components in glassmaking, as calcium is used as a stabilizer that improves the quality and physical appearance of the glass. Quicklime (calcium oxide) can also be used where higher efficiencies and outputs are required during glass manufacturing. Cerium Oxide is also recognized as a highly effective glass polishing agent in optical polishing. These finished products are tested under mercury lamp and patterns of the images formed taken as reference to find faults.

At the next stage, the metal parts are anodized and electroplated. Anodizing is a process of surface treatment. The final process of metal manufacturing is surface finishing; anodizing precision machined metal parts, a reliable and relatively inexpensive method to improve wear resistance and coloring aluminum and other non-ferrous metals. The key difference between electroplating and anodizing is that electroplating is the process of



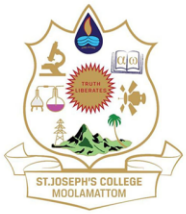
coating one metal on another metal surface whereas anodizing is the process of increasing the thickness of the natural **oxide** layer on the surface of the metal surfaces.

After this stage, all the mechanical parts are assembled. They have several quality and precision checking methods to ensure the quality of the product. Electronic production and assembly unit is followed by it where all the electronics parts for the equipment and manufactured and tested.

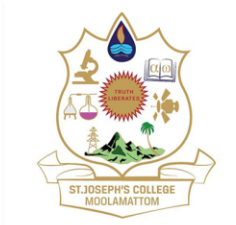
The designing of machine parts are done on AUTOCAD software. They also allowed us to have a view at some of their finished products used in different experiment such as the seimen effect experiment setup, Millikan's oil drop experiment setup, various spectroscopy instruments etc. They also provided us with snacks and drinks before sent off.



Manufacturing of engineering instruments for research



Demonstrate the process of manufacturing of engineering instruments for research



Industrial visit to National Institute of Oceanography

2020-2021

Industrial visit to National Institute of Oceanography

Number of Students:20

Sl. No.	Name of Student Participant
1	AISHA BINDHIYA T.A.
2	ANANDHU B
3	ANITA SHAJI
4	FOUSIYA SULAIMAN
5	LIBITHA JOSEPH
6	SANDEEP KRISHNA P.S.
7	SREEMOL K K
8	AJAL VARGHESE N
9	AKHIL KRISHNAN
10	ANANTHAKRISHNAN K R
11	ANJALY ANIL
12	ASWATH R. NAIR
13	DEENA K JOSE
14	DONY BENNY
15	KRISHNA PRASAD K S
16	LIVIN SUNIL
17	SOLOMON JOY
18	STAINS SURESH
19	THOMAS JUDE C MATHEW
20	VYSHAK DAS M

The **National Institute of Oceanography**, founded on 1 January 1966 as one of 37 constituent laboratories of the CSIR,^[3] is an autonomous research organization in India to undertake scientific



research and studies of special oceanographic features of the Northern Indian Ocean. Headquartered in Goa, it has regional centres in Kochi, Mumbai and Vizag



National Institute of oceanography

The principal focus of research has been on observing and understanding special oceanographic characteristics of the Indian ocean. The results have been reported in more than 5000 research articles so far. The institute has a sanctioned strength of 200 scientists and 100 technical support staff.

The major research area include the four traditional branch of oceanography:

- Biological
- Chemical
- Geological/geophysical
- Physical

As well as ocean engineering, marine instrumentation and marine archaeology.

The institute has numerous state-of-the-art laboratories at its headquarters in Goa as well as the regional centres. It also operates two research vessels RV Sindhu Sankalp(56m) and RV Sindhu Sadhana (80m) that are equipped for multidisciplinary oceanographic observations.