



# **CARMEL COLLEGE, MALA**

Nationally Re-accredited with 'A' grade (Third Cycle)

Thrissur Dt., Kerala- 680732, Ph:04802890247, Fax: 04802890247

E-mail: [carmelcollege@rediffmail.com](mailto:carmelcollege@rediffmail.com), Website: [www.carmelcollegemala.ac.in](http://www.carmelcollegemala.ac.in)



## **Criteria III**

### **Research, Innovations and Extension**

3.5.1 Number of Collaborative activities for Research, Faculty exchange, Student exchange/ Internship per year

**E-COPIES OF THE RELATED DOCUMENTS**

**2020-2021**

*Submitted to*



**THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL**



# **Carmel College, Mala** *Celebrating Ruby Jubilee* **Research Centre, Department of Botany**



**in collaboration with**  
**Marian Centre for Advanced Research (MCAR), St. Mary's College, Thrissur**  
**Organises**

## *National Seminar on Research Methodology*



**Research Seminar - 3**

**Topic - "How to get your research article published -  
The art of article writing for beginners"**

**Resource Person**

***Dr. Kayeen Vadakkan***

*Co ordinator*

*Department of Biotechnology*

*St. Mary's College, Thrissur*

**Date : 24 February 2021**

**Time : 10. 00 am**

**Venue : Audio Visual Seminar Hall**

**Dr. Sr. Licy A.D.**  
**Principal**

**Dr. Bindhu K.B**  
**HOD, Dept. of Botany**

**Dr. Sr. Kochuthressia K.P**  
**Coordinator**







കേരളം കേരल KERALA  
**MEMORANDUM OF UNDERSTANDING**

CX 433331

This memorandum of understanding entered into existence on 24<sup>th</sup> February 2021 between  
The Department of Botany, Carmel College, Mala (hereinafter also referred to as "the first  
party")

and

Marian Centre for Advanced Research, Research division of St. Mary's College, Thrissur, Kerala  
680 020. (here in after also referred to as "the second party" or "the MCAR")

It is hereby agreed between the parties as follows:

1. This Memorandum of Understanding ("MoU") is a non-exclusive agreement for collaboration between the first party and the second party (hereinafter also referred to as "both parties").
2. This MoU is valid for a period of 5 (five) year from the date of this document and may be extended further on mutual consent.

No: 57698 VALUE: 100

*Marginalia*

ROS. K. JOSE  
VENDOR No: 44  
M.O. ROAD, THRISSUR

16.02.2021 Principal  
St Mary's College  
Thrissur





3. For the services rendered by the second party to the first, charges or fees, wherever applicable, shall be paid to the Marian Centre for Advanced Research (MCAR) prior to the second party undertaking the activity.
4. Both parties will designate a contact person from each side who will be the primary point of contact on behalf of that party, the contact details of each of whom will be provided in writing to both parties.
5. This MoU will be renewed automatically if a party does not give one-month termination notice period. The MoU can be terminated with a minimum of 30 (THIRTY) days' prior notice in writing from either party. Such notification shall state the effective date of termination or cancellation and include any final performance and/or payment invoicing instructions/requirements. Termination of this MoU shall be without prejudice to continue validity of any agreement entered subsequent in time by the parties herein to this MoU unless otherwise expressly stated in the termination notice.
6. The Marian Centre for Advanced Research (MCAR) agrees to offer support and training based on its areas of operation and competency – including and not restricted to the following areas: basic microbiology, life science laboratory and industrial techniques, industrial microbiology, environmental biotechnology, career and skills training, bio-entrepreneurship, entrepreneurship – the training work of which shall be planned so as not to affect to the operational activities of organization.
7. The Marian Centre for Advanced Research (MCAR) agrees to send representatives with necessary expertise as visiting faculty to the first party as and when required, with dates, duration and remuneration (where applicable) for such visits agreed upon in advance by mutual consent, subject to the work such persons have at the MCAR.
8. The second party agrees to provide the information about opportunity and enhance employability in connection with their curriculum syllabus (Biotechnology, Immunology, Microbiology) by guiding them for industrial visits to the facilities of the MCAR and to its collaborators, also support and train the students of the first party, subject to confidentiality clauses, convenience and intellectual property protection.
9. Both parties acknowledge that they may gain access to or come in possession of confidential information relating the other party in the course of performance of obligations pursuant to this MoU and that each such party who is in possession of the confidential information of the other party shall maintain the same in strict confidence and accord to it such levels of protection not less onerous than the 'generally accepted industry standards' for the same in the biotechnology industry. The parties herein undertake not to use such confidential information except for the express purpose of obligation in the context of which the same has been shared or in the course of the performance of which the other party has gained access to it.

Upon termination of this MoU, all such confidential information shall be returned to the party to whom it relates to or under instructions destroyed. Any retained confidential information shall continue to be bound by these confidentiality obligations irrespective of

*Mary Goh*



termination of this MoU. For the purposes of this MoU, confidential information shall include without limitation any information shared by parties herein whether tangible or otherwise, stored in digital format or otherwise, copies thereof, derivatives thereof and would include information in the nature of commercial, financial, scientific, statistical, employee, personal data/information, design, technical know-how, IPRs, projects, research, products, information that either party or individuals or entities under its respective control are working on projects, research, product.

10. If the MoU is terminated steps shall be taken to ensure that the termination does not affect any prior obligations, projects or activities already in progress
11. The various clauses of this memorandum may be amended, modified or repealed only upon mutual agreement.
12. Both parties shall not during the pendency of this agreement, directly or indirectly solicit or offer employment or engagement to any personnel of the other party without the prior consent of the other party.

**Read, Understood and Consented:**

IN WITNESS WHEREOF the undersigned, duly appointed representatives of St. Mary's College, Thrissur, and Carmel College, Mala respectively, have on behalf of the Parties signed the present Memorandum of Understanding on this 24<sup>th</sup> day of February 2021 (Two Thousand and twenty one)

**For the first party:**

Signature: King. K.B  
24/2/2021

Name:

**Principal  
Carmel College  
Mala**

**For the second party:**

Signature: Magidose

Name:

**PRINCIPAL,  
ST. MARY'S COLLEGE  
THRISSUR - 20.**

Witnesses:

1. Anand  
Dr. Baidhu. K.B.

2. Alena

Dr. Sr. Meena K Cheruvathur



CARMEL COLLEGE, MALA

REGISTRATION

National Seminar On Research Methodology  
Date 24/02/2021

Sl. No.	Name	Class	Signature
1	Vishnupriya C.S	I Msc Botany	
2	Keesthoma T.N	"	
3	Athira V.V	"	
4	Akhiltha P.M	"	
5	Arabbi - R	"	
6	SUMAYYA	"	
7	Rosmy Antony	"	
8	Ann Maria Mony	"	
9	Anjana T.S	II <sup>nd</sup> Bsc Botany	
10	Aradra M.A	"	
11	Sisira Shaji	"	
12	Aswathy V.P	"	
13	Aswathy K.K	"	
14	Greeshma K.S	"	
15	Ajali E.R	"	
16	Abhirami M.V	"	
17	Aswathy N.R	"	
18	Gagathi C.S	"	
19	Anjana U.T	"	
20	Akhila Narayanan	"	
21	Olga Ouseph	"	
22	Shahana shamsheer	"	
23	Enosha Baiju	"	
24	Anushaga	"	
25	Aswathi P.K	"	
26	Saneesha P.S	"	
27	Aisena pauly	"	
28	Megha Mukundan	"	
29	Sreeshma Rameesh	"	
30	Aparna Belous	III <sup>rd</sup> B.Sc Botany	
31	Amy Jayachandran	"	
32	Grace John	"	
33	Amrutha M.P	"	
34	Jisa A.J	"	
35	Priya varghese	"	
36	Aiswarya H.S	"	



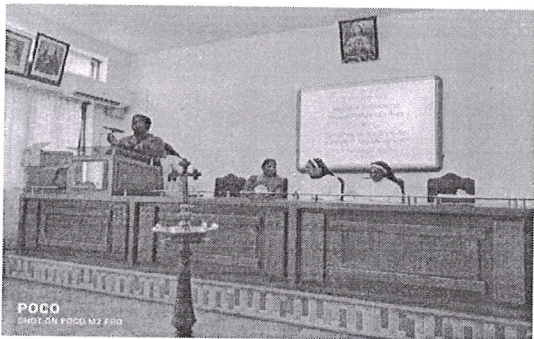
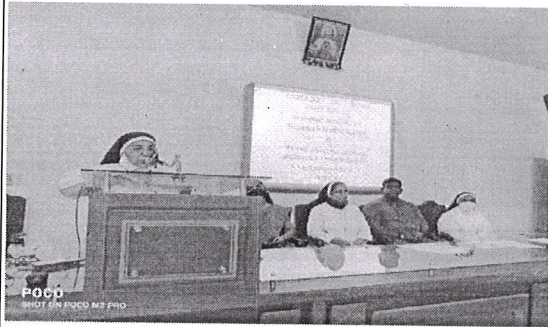
37	Shincy P.G.	III <sup>rd</sup> B.Sc. Botany	Shincy
38	Megha K.B	"	Megha
39	Sreesha K.N	"	Sreesha
40	Sreelakshmi P.S	"	Sreelakshmi
41	Sukanya K.P	"	Sukanya
42	Aswathy Lavan	"	Aswathy
43	Janas Jayachandran	"	Janas
44	Thejaswini A	1 <sup>st</sup> B.Voc Agriculture	Thejaswini
45	Aiswaryalakshmi E.L	"	Aiswaryalakshmi
46	Josna Joy	"	Josna
47	Ahalya Raveendran	"	Ahalya
48	Anjana T.C	"	Anjana
49	Karthika I.S	"	Karthika
50	Arjanalakshmi P.P	"	Arjana
51	Ganga K.S	"	Ganga
52	Sradha K.S	II <sup>nd</sup> B.Voc Agriculture	Sradha
53	Gouri Krishna A.U	"	Gouri
54	Niveditha T.S	"	Niveditha
55	Nandana I.B	"	Nandana
56	Anusree K.J	"	Anusree
57	Sumayya T.S	"	Sumayya
58	Parvathy N.P	"	Parvathy
59	Joshna Anie K.S.	"	Joshna
60	Aiswarya Manali	"	Aiswarya
61	Zakia K.R	"	Zakia
62	Arshiya Siddiqua K.K	"	Arshiya
63	Vismaya Sabhanan	"	Vismaya
64	Gopika K.G	"	Gopika
65	Krishna K.	"	Krishna
66	Sivalakshmi M.B	"	Sivalakshmi
67	Sandhya V.S	"	Sandhya V.S.





## Report of National seminar on Research Methodology organized by P.G and Research Department of Botany on 24/2/2021

A good academican becomes a powerful scholar with frequent publications. There is great relevance to research in education. Apart from ensuring an in-depth knowledge over a topic, scientific and historical research papers also contribute to the world of knowledge. Students need to understand the role of scientific research in society and the importance of scientific research in education as it will ultimately reward them in return. As part of Rubi Jubilee celebration of Carmel College, Mala, P.G and Research Department of Botany organized a national seminar on research methodology on 24<sup>th</sup> February 2021 at Audio Visual Seminar Hall. The resource person was Dr. Kayeen Vadakkan, Co.ordinator, Department of Biotechnology, St. Mary's College, Thrissur. The seminar was attended by M.Sc Botany, Chemistry students and Research Schilars. The programme commences at 10 am with prayer by Arathy I<sup>st</sup> M.Sc Botany. Dr. Sr. Kochuthresia K.P., Coordinator, welcomed the gathering, Dr.Sr.Licy A.D, principal, Carmel College delivered the presidential address and Dr.Bindhu K.B., Head of the Department felicitated the programme. Dr. Kayeen talk about " How to get your research article published- The art of article writing for beginners. The session was so spellbinding with the efficacy of the spokesperson and the topic. He discussed the act of deception in writing an article title, journal selection criteria, directed the students to publish their valuable work in SCI journals. The seminar concluded at 12 pm with the reflection from the students and the vote of thanks proposed by Ann Maria Mony, First year M.Sc student.



*Indira*

Head  
Department of Botany  
Carmel College, Mala  
Thrissur, Kerala - 680732

RESEARCH CENTRE, DEPARTMENT OF BOTANY  
CARMEL COLLEGE MALA, THRISSUR, KERALA

In collaboration with

Dept.of Biotechnogy, KS Rangasami College of Biotechnology  
Tiruchenode, Namakkal, TamilNadu.

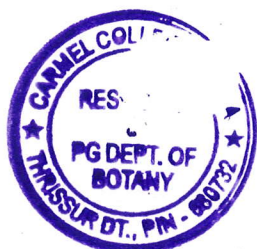
National webinar on  
“Modern techniques for plant Conservation”

Recourse Person  
Dr. Philip Robinson  
Professor & Head,  
Department of Biotechnology  
KS Rangasami College of Biotechnology  
Tiruchenode, Namakkal Tamil Nadu

Date 27-11-2020

Report

The research center, Department of Botany, Carmel College Mala Conducted a research webinar on 27-11-2020 at 2.00 pm . The topic of the National webinar was Modern techniques for plant Conservation. The webinar started with a prayer by Selma Johnson. Welcome speech was given by Dr.Sr.Kochuthressia K P,the co ordinator. The resource person Dr. Philip Robinson,Professor & Head, Department of Biotechnology, KS Rangasami College of Biotechnology, Tiruchenode, Namakkal , have given the talk on modern techniques for plant Conservation along with a wounderful powerpoint presentation. It was a relevant research area in the science . The second session of the webinar was interactive session. During that time the participants got cleared their doubt. The entire progrmme was very interesting and very informative to the students as well as the faculty members. The webinar was ended with a vote of thanks by Vyshna Thamban.



*Philip*  
Head  
Department of Botany  
Carmel College, Mala  
Thiruvananthapuram, Kerala - 680732





# K.S.Rangasamy College of Technology (Autonomous)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai  
Courses Accredited by NBA under Tier I Category & Accredited by NAAC,  
DBT - STAR College & DST - FIST Sponsored Institution, Recognised with 2F & 12B Status by UGC



**Lion Dr. K.S. Rangasamy MJF**  
Chairman

**Mr. R. Srinivasan BBM.**  
Vice Chairman

**Dr. R. Gopalakrishnan, BE, ME., PhD.**  
Principal

KSRCT/BT/2020-2021- 02

Mail/ courier

26.11.2020

To

Dr. Bindhu K B  
Head  
PG Research Department of Botany  
Carmel College, Mala  
Thrissur- 680732

**Sub: Collaboration for knowledge exchange and research extensions activities**

Dear Madam,

With reference to the above and as per the approval granted from the Principal and the College Management, Department of Biotechnology, K.S.Rangasamy College of Technology, (Autonomous) Tiruchengode- 637 215, Namakkal District Tamil Nadu is agreed to collaborate with the PG & Research Department of Botany, Carmel College Mala, Thrissur, Kerala for Research and Development activities, Consultancy services, Knowledge sharing extensions activities and faculty development programs.

Moreover, we request you to come forward for the MOU for the benefit of students, research scholars and faculty members in the future endeavor.

Thanking you

Yours faithfully

Dr. J. Philip Robinson  
**Dr. J. PHILIP ROBINSON**  
Professor and Head,

Department of Biotechnology,  
K.S.Rangasamy College of Technology,  
Tiruchengode - 637 215,  
TAMILNADU, INDIA

Build Your future@ksrct

KSR Kalvi Nagar, Tiruchengode - 637 215, Namakkal Dist, Tamilnadu, India.  
Website : www.ksrct.ac.in e-mail : principal@ksrct.ac.in

Tel : + 91-4288-274741 & 274748 (D)  
Fax : + 91-4288-274745



# CARMEL COLLEGE, MALA

*Celebrating Ruby Jubilee*



RESEARCH CENTRE, DEPARTMENT OF BOTANY, CARMEL COLLEGE MALA, THRISSUR,  
KERALA

*In collaboration with*

DEPT. OF BIOTECHNOLOGY, KS RANGASAMI COLLEGE OF BIOTECHNOLOGY TIRUCHENODE, NAMAKKAL,  
TAMILNADU.

*Organizes a National webinar series*

*Research Webinar 1*

## Modern Techniques for Plant Conservation



*Recourse Person*

**Dr. Philip Robinson**

Professor & Head,  
Department of Biotechnology  
KS Rangasami College of Biotechnology  
Tiruchencode, Namakkal Tamil Nadu



**27-11-2020**

**2.00.Pm**

*via*



Dr. Bindhu K B  
HOD, Dept. of Botany

Dr. Sr. Kochuthressia K P  
Dr. Sinjumol Thomas  
Co ordinators

Dr. Licy A D  
Principal

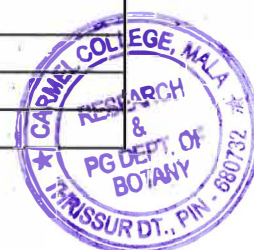


# National webinar 27-11-2020

The screenshot displays a Google Meet interface for a webinar titled "Sr.Seena's Class". The browser address bar shows the URL "meet.google.com/ayk-emih-ohx?authuser=0". The top right corner indicates the time as 2:18 PM and shows 77 participants. The main area is a grid of 21 video thumbnails, each with a name and a red mute icon. The participants are: Shahana Shamseer - BOT, sruthi k, Anjali er bot, Dr.Birndhu K.B., Anjali k J BOT, ROSMY ANTONY, SANEESHA PS BOT, OLGA OUSEPH - BOT, Arya Gopi BOT, Janas Jayachandran, Aiswarya KS, Gopika V M, Greeshma, ks BOT, SANDRA M S BOT, SUREMYA P S, and Aswathy Kk bot. Below the grid is a control bar with icons for microphone, video, screen sharing, and chat, along with "Turn on captions" and "Present now" options. At the bottom, a Windows taskbar shows several open applications: Manuscript.docx, Class List (2020-12....csv), Class List (2020-1....html), Class List (2020-12....csv), and New doc 08-Dec-2....pdf. The system tray on the right shows the date and time as 2:18 PM on 12/8/2020.

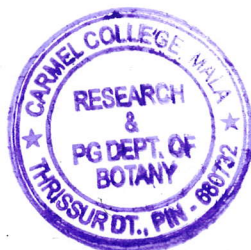


National Webinar Series			
Modern Techinques for Plant Conservation			
Attendance for:	Class List		
Date:	"2020-11-27"	"Meet ID:"	"sfz-jfhx-miu"
Names	"2020-11-27"	"Arrival time"	
8943031956 8943031956	" ✓"	"14:21"	
Anju K. A	" ✓"	"13:47"	
Krishnendu A.G	" ✓"	"13:47"	
Angelin.C	" ✓"	"14:04"	
Anjana Antony	" ✓"	"14:18"	
Annette Antony	" ✓"	"13:53"	
P Arthy	" ✓"	"13:51"	
Aswathi P.K, & Aswani P.K, Bot	" ✓"	"14:27"	
Megha K B	" ✓"	"13:50"	
Aparna Balan	" ✓"	"13:58"	
Alan Benny	" ✓"	"13:54"	
Sangeetha Betson	" ✓"	"13:47"	
B Deepan Biotech	" ✓"	"13:52"	
N Monika Bsc Biotech	" ✓"	"13:47"	
Santhanapetchi Ii Biotech	" ✓"	"13:47"	
Abhirami M V Bot	" ✓"	"13:51"	
Akhila Narayanan Bot	" ✓"	"13:57"	
Anjali Er Bot	" ✓"	"14:18"	
Anjali K J Bot	" ✓"	"13:47"	
Arya Gopi Bot	" ✓"	"13:47"	
Greeshma Ks Bot	" ✓"	"13:47"	
Megha Mukundan Bot	" ✓"	"13:47"	
Olga Ouseph - Bot	" ✓"	"14:10"	
Saneesha Ps Bot	" ✓"	"14:07"	
Shahana Shamseer - Bot	" ✓"	"13:53"	
Sisira Shaji Bot	" ✓"	"14:33"	
Sreeshma Ramesh Bot	" ✓"	"13:49"	
Roshni Cvenu	" ✓"	"13:47"	
Brigith Veneesa D'silva	" ✓"	"13:47"	
Akshara Dharman	" ✓"	"14:20"	
Shincy P G	" ✓"	"14:09"	
Jisa A J	" ✓"	"13:48"	
Krishnakumar J	" ✓"	"13:47"	
Janat James	" ✓"	"14:01"	
Amy Jayachandran	" ✓"	"13:49"	
Janas Jayachandran	" ✓"	"13:49"	
Bowsiya Jeyarani	" ✓"	"14:06"	
Selma Johnson	" ✓"	"14:09"	
Annmary Jose	" ✓"	"13:55"	
Agnisha G Joseph	" ✓"	"14:33"	
Athulya Joseph	" ✓"	"13:47"	
Fany Joseph	" ✓"	"13:53"	
Rani Joseph	" ✓"	"13:59"	
Athira P K	" ✓"	"13:54"	





Sruthi K	"√"	"13:53"	
Aiswarya Ks	"√"	"13:51"	
Ambily. K. M	"√"	"13:56"	
Gopika V M	"√"	"13:47"	
Greeshma K. M	"√"	"14:32"	
Athira Maliyekkal	"√"	"13:55"	
Sukanya Mohanan	"√"	"13:56"	
Rajamanickam Mohanraj	"√"	"14:07"	
Ann Maria Mony	"√"	"13:50"	
Mythumithras Mythustalin	"√"	"14:29"	
Sreesha K N	"√"	"13:49"	
B.Udhaya Nithi	"√"	"13:56"	
Nashima Noushad	"√"	"13:54"	
Amrutha M P	"√"	"14:03"	
Keerthana T P	"√"	"15:13"	
Lincy Paulson	"√"	"14:20"	
Sreelakshmi Ps	"√"	"13:48"	
Arabhi R	"√"	"14:12"	
Reshma Rajan	"√"	"14:00"	
Surya Rajan	"√"	"13:55"	
Bhadra K Reghulal	"√"	"13:47"	
Philip Robinson	"√"	"14:24"	
Ganga K S	"√"	"13:51"	
Neena A S	"√"	"15:22"	
Radha Sarath	"√"	"13:53"	
Pratheeksha Sasidharan	"√"	"14:19"	
Tamil Selvan.J	"√"	"14:36"	
Naveen Shankar	"√"	"15:22"	
Anaina Shibu	"√"	"13:53"	
Sandhra Simon	"√"	"14:17"	
Ajisha Sree	"√"	"13:47"	
Vaishna Thamban	"√"	"13:51"	
Dr.Sr.Sinjumol Thomas	"√"	"13:47"	
Thri Thrisha, Mary Matha College In	"√"	"14:04"	
Emilin Treesa Tom	"√"	"13:55"	
Aparna Tr	"√"	"14:18"	
Pournami V	"√"	"13:56"	
Anagha V.S	"√"	"13:47"	
Priya Varghese	"√"	"14:03"	
Nandana Vj	"√"	"15:22"	
Anagha Vr	"√"	"14:03"	
Femi Wilson	"√"	"14:24"	
Aswani C Dinesan Zol	"√"	"13:52"	
Maria Pd Zol	"√"	"15:00"	
Reshmi Kr Zol	"√"	"14:07"	



*Handwritten signature*

**Head  
Department of Botany  
Carmel College, Mala  
Thriassur, Kerala - 680732**





# St. Joseph's College (Autonomous)

College with Potential for Excellence

NAAC accredited at A grade in the third cycle

Irinjalakuda-680 121, Thrissur (Dt.), Kerala

Telephone: 0480 - 2825358, M.No. 8301000125

Email: [info@stjosephs.edu.in](mailto:info@stjosephs.edu.in)


Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)

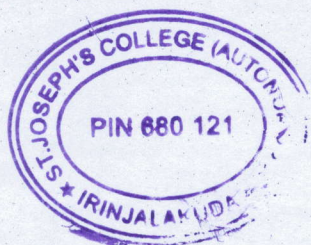
## Certificate of Faculty and Student Exchange Program

This is to certify that Carmel College, Mala, Thrissur has successfully accomplished Faculty and Student Exchange Program with St. Joseph's College (Autonomous), Irinjalakuda in fulfilment of MoU for academic collaboration. As a result, the departments of Physics from both the colleges actively participated in academic exchange during the academic year 2020-21. Four faculty members from St. Joseph's College (Autonomous), Irinjalakuda engaged 8 students from Carmel College, Mala on the topic '*Non-conventional Energy Sources and Interference of Light*'. Two faculty from Carmel College, Mala engaged 31 students from St. Joseph's College (Autonomous), Irinjalakuda on the topics '*Waves.*'

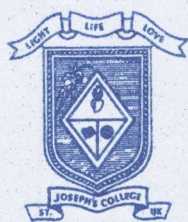
Irinjalakuda

14<sup>th</sup> September 2021

  
PRINCIPAL  
ST. JOSEPH'S COLLEGE  
(AUTONOMOUS)  
IRINJALAKUDA - 680 121  
THRISSUR DIST., KERALA







# St. Joseph's College (Autonomous)

College with Potential for Excellence

NAAC accredited at A grade in the third cycle

Irinjalakuda-680 121, Thrissur (Dt.), Kerala

Telephone: 0480 - 2825358, M.No. 8301000125

Email: info@stjosephs.edu.in

Website: www.stjosephs.edu.in

## Certificate of Participation in Faculty and Student Exchange Program

St. Joseph's College (Autonomous), Irinjalakuda and Carmel College, Mala have collaboratively undertaken a Faculty and Student Exchange Program during the academic year 2020-21. The Department of Physics from St. Joseph's College (Autonomous), Irinjalakuda has engaged classes on 'Non-conventional Energy Sources and Interference of Light' and the Department of Physics from Carmel College, Mala has engaged classes on 'Waves.' The following students and faculty members have actively participated in the Faculty and Student Exchange Program:

### Faculty members

No	Name	Designation	Institution
1.	Ms. Mary Gisby Poullose	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
2.	Ms. Madhu C A	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
3.	Dr. Benoy Anand	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
4.	Dr. Unnimaya A N	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
5.	Ms. Greatel Francis Paremél	Assistant Professor	Carmel College, Mala
6.	Ms. Nithya P	Assistant Professor	Carmel College, Mala

### Students

No	Name	Parent Institution	Topic
1.	Asna N F	Carmel College, Mala	Non-conventional Energy Sources
2.	Devika C S	Carmel College, Mala	Non-conventional Energy Sources
3.	Gopika Krishnakumar	Carmel College, Mala	Non-conventional Energy Sources
4.	Himalakshmi V S	Carmel College, Mala	Non-conventional Energy Sources
5.	Shalini K S	Carmel College, Mala	Non-conventional Energy Sources
6.	Saranya N B	Carmel College, Mala	Non-conventional Energy Sources
7.	Mariya Thomas	Carmel College, Mala	Non-conventional Energy Sources
8.	Vijitha E B	Carmel College, Mala	Non-conventional Energy Sources
9.	Adhithya V N	St. Joseph's College (Autonomous), Irinjalakuda	Waves
10.	Adithya Jayadevan	St. Joseph's College (Autonomous), Irinjalakuda	Waves
11.	Aiswarya V S	St. Joseph's College (Autonomous), Irinjalakuda	Waves



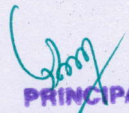
12.	Amrutha P M	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
13.	Anamika A S	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
14.	Anitta Babu	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
15.	Anjana Vinod	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
16.	Ann Mary Antony	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
17.	Anne Mary David	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
18.	Annemaria Shaiju	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
19.	Aparna Shaji	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
20.	Aryalakshmi K R	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
21.	Aswathi P R	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
22.	Christa Davis	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
23.	Dona Mariya	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
24.	Emrin Jacob	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
25.	Faheema T K	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
26.	Haritha K R	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
27.	Jasmin Ansari	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
28.	Jyothika Krishnan T	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
29.	Meenu Prasad S	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
30.	Midhila M S	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
31.	Naila V Y	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
32.	Navya Johnson	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
33.	Nivedya B Menon	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
34.	Punnya Jeshi	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
35.	Sandra M	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
36.	Sangamithra R	St. Joseph's College	<i>Waves</i>

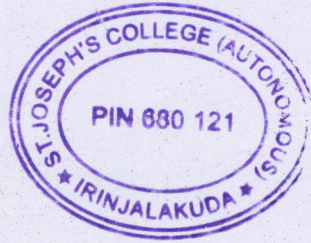


		(Autonomous), Irinjalakuda	
37.	Sreelakshmi Anoop	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
38.	Utthara Uday	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>
39.	Vyshna C V	St. Joseph's College (Autonomous), Irinjalakuda	<i>Waves</i>

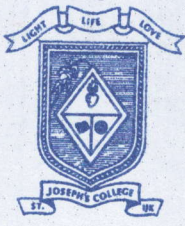
Irinjalakuda

14<sup>th</sup> September 2021

  
PRINCIPAL  
ST. JOSEPH'S COLLEGE  
(AUTONOMOUS)  
IRINJALAKUDA - 680 121  
THRISSUR DIST., KERALA







# St. Joseph's College (Autonomous)

College with Potential for Excellence

NAAC accredited at A grade in the third cycle

Irinjalakuda-680 121, Thrissur (Dt.), Kerala

Telephone: 0480 - 2825358, M.No. 8301000125

Email: [info@stjosephs.edu.in](mailto:info@stjosephs.edu.in)

Website: [www.stjosephs.edu.in](http://www.stjosephs.edu.in)


## Certificate of Faculty and Student Exchange Program

This is to certify that Carmel College, Mala, Thrissur has successfully accomplished Faculty and Student Exchange Program with St. Joseph's College (Autonomous), Irinjalakuda in fulfilment of MoU for academic collaboration. As a result, the departments of History from both the colleges actively participated in academic exchange during the academic year 2020-21. Three faculty members from St. Joseph's College (Autonomous), Irinjalakuda engaged 8 students from Carmel College, Mala on the topic '*A Voyage to Modern India*'. Five faculty from Carmel College, Mala engaged 11 students from St. Joseph's College (Autonomous), Irinjalakuda on the topics '*Mahatma Gandhi & Early Struggles of Indian National Movement.*'

Irinjalakuda

14<sup>th</sup> September 2021



  
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Website: www.stjosephs.edu.in

## Certificate of Participation in Faculty and Student Exchange Program

St. Joseph's College (Autonomous), Irinjalakuda and Carmel College, Mala have collaboratively undertaken a Faculty and Student Exchange Program during the academic year 2020-21. The Department of History from St. Joseph's College (Autonomous), Irinjalakuda has engaged classes on 'A Voyage to Modern India' and the Department of History from Carmel College, Mala has engaged classes on 'Mahatma Gandhi & Early Struggles of Indian National Movement.' The following students and faculty members have actively participated in the Faculty and Student Exchange Program:

### Faculty members

No	Name	Designation	Institution
1.	Ms. Sumina M S	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
2.	Mr. Jose Kuriakose	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
3.	Dr. Sr.Bindhu V M	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
4.	Dr. Vinitha N.Vijayan	Assistant Professor	Carmel College, Mala
5.	Ms. Brighty Robert	Assistant Professor	Carmel College, Mala
6.	Ms. Sandhya P A	Assistant Professor	Carmel College, Mala
7.	Ms. Reena T K	Assistant Professor	Carmel College, Mala
8.	Ms. Ambily Jayapal	Assistant Professor on contract	Carmel College, Mala

### Students


No	Name	Parent Institution	Topic
1.	Amritha C J	Carmel College, Mala	<i>A Voyage to Modern India</i>
2.	Saniga K.S	Carmel College, Mala	<i>A Voyage to Modern India</i>
3.	Devika E.M	Carmel College, Mala	<i>A Voyage to Modern India</i>
4.	Sruthy Paraman	Carmel College, Mala	<i>A Voyage to Modern India</i>
5.	Akshara Asokan	Carmel College, Mala	<i>A Voyage to Modern India</i>
6.	Ajina .P	Carmel College, Mala	<i>A Voyage to Modern India</i>
7.	Archana.k	Carmel College, Mala	<i>A Voyage to Modern India</i>
8.	Anjana C Gopi	Carmel College, Mala	<i>A Voyage to Modern India</i>
9.	Aiswarya Edwin	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
10.	AnujamsAnujams	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
11.	AswiniVinodbhat	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>

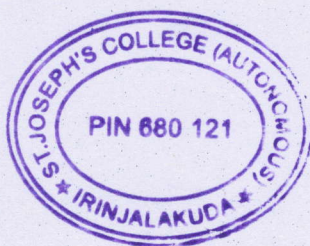


12.	Faeza Saidu	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
13.	Hisana Naseer Anas	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
14.	Nayana Parameswaran	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
15.	Negha Megha	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
16.	Nimisha Tom	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
17.	Parvathi Thundathil	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
18.	Roja Prakasan	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>
19.	Sneha Suresh	St. Joseph's College (Autonomous), Irinjalakuda	<i>Mahatma Gandhi &amp; Early Struggles of Indian National Movement</i>

Irinjalakuda

14<sup>th</sup> September 2021

  
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**Certificate of Participation in Faculty and Student Exchange Program**

St. Joseph's College (Autonomous), Irinjalakuda and Carmel College, Mala have collaboratively undertaken a Faculty and Student Exchange Program during the academic year 2020-21. The Department of English from St. Joseph's College (Autonomous), Irinjalakuda has engaged classes on '*Love Across the Salt Desert*' and the Department of English from Carmel College, Mala has engaged classes on '*Literary Theory- Liberal Humanism*' and '*English Grammar and Usage.*' The following students and faculty members have actively participated in the Faculty and Student Exchange Program:

**Faculty members**

No	Name	Designation	Institution
1.	Ms. Anju Susan George	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
2.	Ms. Geetha Jacob	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
3.	Ms. Veena Sany	Assistant Professor	St. Joseph's College (Autonomous), Irinjalakuda
4.	Ms. Linda P Joseph	Assistant Professor	Carmel College, Mala
5.	Ms. Keerthy Sophiya Ponnachan	Assistant Professor	Carmel College, Mala

**Students**

No	Name	Parent Institution	Topic
1.	Abhirami Aravindakshan	Carmel College, Mala	Love Across the Salt Desert
2.	Aleenamol P P	Carmel College, Mala	Love Across the Salt Desert
3.	Aparna K	Carmel College, Mala	Love Across the Salt Desert
4.	Aryanandha K S	Carmel College, Mala	Love Across the Salt Desert
5.	Agna Benny	Carmel College, Mala	Love Across the Salt Desert
6.	Ahalya Syamkumar	Carmel College, Mala	Love Across the Salt Desert
7.	Akhila Narayanan	Carmel College, Mala	Love Across the Salt Desert
8.	Alisha P J	Carmel College, Mala	Love Across the Salt Desert
9.	Ambily K	Carmel College, Mala	Love Across the Salt Desert
10.	Amritha Suresh	Carmel College, Mala	Love Across the Salt Desert
11.	Amritha C A	Carmel College, Mala	Love Across the Salt Desert
12.	Amrithalakshmi K M	Carmel College, Mala	Love Across the Salt Desert
13.	Amrutha S Nair	Carmel College, Mala	Love Across the Salt Desert
14.	Anagha E V	Carmel College, Mala	Love Across the Salt Desert
15.	Anagha Mol M S	Carmel College, Mala	Love Across the Salt Desert
16.	Aneena Thasneem T N	Carmel College, Mala	Love Across the Salt Desert



17.	Angel ROSE	Carmel College, Mala	Love Across the Salt Desert
18.	Anjali K J	Carmel College, Mala	Love Across the Salt Desert
19.	Anjana U J	Carmel College, Mala	Love Across the Salt Desert
20.	Anjana T S	Carmel College, Mala	Love Across the Salt Desert
21.	Anu Rose Joy	Carmel College, Mala	Love Across the Salt Desert
22.	Anupama George	Carmel College, Mala	Love Across the Salt Desert
23.	Anusha C S	Carmel College, Mala	Love Across the Salt Desert
24.	Apoorva Rajeev	Carmel College, Mala	Love Across the Salt Desert
25.	Ardra M A	Carmel College, Mala	Love Across the Salt Desert
26.	Arya Gopi	Carmel College, Mala	Love Across the Salt Desert
27.	Arya Ramesh	Carmel College, Mala	Love Across the Salt Desert
28.	Aryananda K R	Carmel College, Mala	Love Across the Salt Desert
29.	Asna T A	Carmel College, Mala	Love Across the Salt Desert
30.	Aswa	Carmel College, Mala	Love Across the Salt Desert
31.	Aswathy	Carmel College, Mala	Love Across the Salt Desert
32.	Aswathy K K	Carmel College, Mala	Love Across the Salt Desert
33.	Aswathy N R	Carmel College, Mala	Love Across the Salt Desert
34.	Athulya K	Carmel College, Mala	Love Across the Salt Desert
35.	Aurea Sabu	Carmel College, Mala	Love Across the Salt Desert
36.	Besteena Mathew	Carmel College, Mala	Love Across the Salt Desert
37.	Bhavana M S	Carmel College, Mala	Love Across the Salt Desert
38.	Chelsea Maria	Carmel College, Mala	Love Across the Salt Desert
39.	Diya Dev P	Carmel College, Mala	Love Across the Salt Desert
40.	Drisya A R	Carmel College, Mala	Love Across the Salt Desert
41.	Deepthy Babu	Carmel College, Mala	Love Across the Salt Desert
42.	Deepthy Mariya	Carmel College, Mala	Love Across the Salt Desert
43.	Densha Davis	Carmel College, Mala	Love Across the Salt Desert
44.	Devika Das	Carmel College, Mala	Love Across the Salt Desert
45.	Farsana Thajudeen	Carmel College, Mala	Love Across the Salt Desert
46.	Gopika M H	Carmel College, Mala	Love Across the Salt Desert
47.	Greeshma E S	Carmel College, Mala	Love Across the Salt Desert
48.	Gayathri C S	Carmel College, Mala	Love Across the Salt Desert
49.	Gopika P T	Carmel College, Mala	Love Across the Salt Desert
50.	Greeshma K S	Carmel College, Mala	Love Across the Salt Desert
51.	Himalakshmi V S	Carmel College, Mala	Love Across the Salt Desert
52.	Hiba Anzar	Carmel College, Mala	Love Across the Salt Desert
53.	Hridya C R	Carmel College, Mala	Love Across the Salt Desert
54.	Jaseela	Carmel College, Mala	Love Across the Salt Desert
55.	Jayalakshmi Jayan	Carmel College, Mala	Love Across the Salt Desert
56.	Jesly Jose	Carmel College, Mala	Love Across the Salt Desert
57.	Jishmi Biju	Carmel College, Mala	Love Across the Salt Desert
58.	Jisty Mariya	Carmel College, Mala	Love Across the Salt Desert
59.	Krishnapriya P A	Carmel College, Mala	Love Across the Salt Desert
60.	Karthika I P	Carmel College, Mala	Love Across the Salt Desert
61.	Kochuthressia Ashly	Carmel College, Mala	Love Across the Salt Desert
62.	Lisha PS	Carmel College, Mala	Love Across the Salt Desert
63.	Maria Chanchal	Carmel College, Mala	Love Across the Salt Desert
64.	Mariya Pathrose	Carmel College, Mala	Love Across the Salt Desert
65.	Megha Mukundan	Carmel College, Mala	Love Across the Salt Desert
66.	Manjima K	Carmel College, Mala	Love Across the Salt Desert
67.	Mariya Thankachan	Carmel College, Mala	Love Across the Salt Desert
68.	Mariya Joshna Johny	Carmel College, Mala	Love Across the Salt Desert
69.	Mary Lithiya	Carmel College, Mala	Love Across the Salt Desert



70.	Mary Anagha Benny	Carmel College, Mala	Love Across the Salt Desert
71.	Megha K S	Carmel College, Mala	Love Across the Salt Desert
72.	Merline Rodrigues	Carmel College, Mala	Love Across the Salt Desert
73.	Mizna K N	Carmel College, Mala	Love Across the Salt Desert
74.	Neethu V G	Carmel College, Mala	Love Across the Salt Desert
75.	Nusarath N Azeem	Carmel College, Mala	Love Across the Salt Desert
76.	Olga Ouseph	Carmel College, Mala	Love Across the Salt Desert
77.	Philo Amala Antony	Carmel College, Mala	Love Across the Salt Desert
78.	Praveena M V	Carmel College, Mala	Love Across the Salt Desert
79.	Rajeswary N	Carmel College, Mala	Love Across the Salt Desert
80.	Raseena P H	Carmel College, Mala	Love Across the Salt Desert
81.	Retly Devassy	Carmel College, Mala	Love Across the Salt Desert
82.	Rincy Jose	Carmel College, Mala	Love Across the Salt Desert
83.	Rini Maria	Carmel College, Mala	Love Across the Salt Desert
84.	Roja Prakasan	Carmel College, Mala	Love Across the Salt Desert
85.	Roshini K T	Carmel College, Mala	Love Across the Salt Desert
86.	Sandra M S	Carmel College, Mala	Love Across the Salt Desert
87.	Saneesha P S	Carmel College, Mala	Love Across the Salt Desert
88.	Sanika N R	Carmel College, Mala	Love Across the Salt Desert
89.	Sandra Suresh H	Carmel College, Mala	Love Across the Salt Desert
90.	Selin Stelvia	Carmel College, Mala	Love Across the Salt Desert
91.	Shahana Shamseer	Carmel College, Mala	Love Across the Salt Desert
92.	Shahma T S	Carmel College, Mala	Love Across the Salt Desert
93.	Shalini K S	Carmel College, Mala	Love Across the Salt Desert
94.	Sheethal Sajeevan	Carmel College, Mala	Love Across the Salt Desert
95.	Sidharath Beevi	Carmel College, Mala	Love Across the Salt Desert
96.	Siya Abi	Carmel College, Mala	Love Across the Salt Desert
97.	Sneha K D	Carmel College, Mala	Love Across the Salt Desert
98.	Sneha Sidharthan T S	Carmel College, Mala	Love Across the Salt Desert
99.	Sona Antony	Carmel College, Mala	Love Across the Salt Desert
100.	Sreelakshmi K S	Carmel College, Mala	Love Across the Salt Desert
101.	Sreeshma Ramesh	Carmel College, Mala	Love Across the Salt Desert
102.	Tincy P P	Carmel College, Mala	Love Across the Salt Desert
103.	Thasleema N S	Carmel College, Mala	Love Across the Salt Desert
104.	Unnimaya A	Carmel College, Mala	Love Across the Salt Desert
105.	Vishnusree T A	Carmel College, Mala	Love Across the Salt Desert
106.	Vismaya P S	Carmel College, Mala	Love Across the Salt Desert
107.	Anjana V B	Carmel College, Mala	Love Across the Salt Desert
108.	Bincy Edattukaran	Carmel College, Mala	Love Across the Salt Desert
109.	Linet Sebastian	Carmel College, Mala	Love Across the Salt Desert
110.	Neelima S L.	Carmel College, Mala	Love Across the Salt Desert
111.	Ruth Kokkatt Shigy	Carmel College, Mala	Love Across the Salt Desert
112.	Sivavaishna T S	Carmel College, Mala	Love Across the Salt Desert
113.	Aadhila.A.S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
114.	Abhirami C M	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
115.	Aishwarya Subhash	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
116.	Aiswarya P K	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
117.	Akshaja M S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism



118.	Alice Biju	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
119.	Alna Yeldho	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
120.	Amrutha S Nair	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
121.	Anagha Radhakrishnan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
122.	Anakha Kannan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
123.	Ancy Pauly	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
124.	Andriya Roy	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
125.	Angel Mary Varghese	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
126.	Ann Mary Princee	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
127.	Angelina S Kannadan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
128.	Anita Jose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
129.	Ann Siby	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
130.	Anna Joice Jaison	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
131.	Anna Mariya	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
132.	Annmary Pauly	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
133.	Antheres Jose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
134.	Anupama V Krishnan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
135.	Anzil Jose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
136.	Aparna Sudheer	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
137.	Aparna.T.D	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
138.	Aria Hellen Rose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
139.	Arishma T A	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
140.	Aswathi Aneshwara	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
141.	Devika Rajan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
142.	Diya P U	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
143.	E.S.Arria	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
144.	Elza Rose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism



145.	Gayathri E S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
146.	Gopika Gopi K	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
147.	Gopika. C. R	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
148.	Hajara Yahiya	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
149.	Hanna Devassy	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
150.	Haripriya. K. S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
151.	Hein Paulson	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
152.	Henna Rose Johnson	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
153.	Ihsana noora	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
154.	Indraja P J	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
155.	Isa Rose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
156.	Jewel Mary Geevarghese	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
157.	Jismi Shaju	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
158.	Johny Pius	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
159.	Josena Jose	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
160.	Justeena Johnson	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
161.	Karthika S Kumar	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
162.	Krishnapriya Sajeevan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
163.	Linnet Sebastian	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
164.	Malavika Manoj	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
165.	Maneesha P M	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
166.	Marita Shelden	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
167.	Mariya Babu	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
168.	Meenu Siby	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
169.	Milin Theresa Joby	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
170.	Nahala Yusef	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
171.	Nandhana C A	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism



172.	Navya Jaison	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
173.	Nayana Thilakan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
174.	Pratheeksha Sudhish K	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
175.	Ranjana P H	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
176.	Riza Rizz	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
177.	Roja Prakashan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
178.	Rosemary	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
179.	Saira P S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
180.	Sanam Ajaylal	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
181.	Sandra K.J	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
182.	Sandra P S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
183.	Sandra Sabu	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
184.	Sandra Saijesh	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
185.	Sandra. R. Menon	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
186.	Santhi Pramod	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
187.	Shahanas Ashraf	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
188.	Shilpa Subhash	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
189.	Sneha A S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
190.	Sona Dineshan	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
191.	Sreelakshmi R V	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
192.	Thanu M S	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
193.	Vaishnavy Raman	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
194.	Vishnupriya Vipin	St. Joseph's College (Autonomous), Irinjalakuda	Literary Theory: Liberal Humanism
195.	Amrutha S Nair	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
196.	Aadhila A. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
197.	Abhirami C. M.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
198.	Aiswarya O.S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage



199.	Aiswarya V. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
200.	Aishwarya Subhash	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
201.	Anjitha Sivakumar	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
202.	Anjitha Vinayan	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
203.	Alna Yeldho	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
204.	Anagha	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
205.	Anakha Kannan	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
206.	Andriya Roy	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
207.	Angel Mariya	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
208.	Angel T. R.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
209.	Anjali Unnikrishnan	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
210.	Ann Maria A. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
211.	Anna Joice	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
212.	Anna Mariya	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
213.	Aparna T. D.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
214.	Athira Rajesh	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
215.	Avon Paulson	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
216.	Devi Saparya T. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
217.	Diya Mary Saju	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
218.	Diya	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
219.	Gopika Gopi K.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
220.	Gopika P. N.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
221.	Gopika C. R.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
222.	Hanna	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
223.	Haripriya K. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
224.	Josena Jose	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
225.	Jewelmary Geevarghese	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage



226.	Jhoney Pius	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
227.	Justeena Johnson	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
228.	Lakshmi O.S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
229.	Marita Shelden	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
230.	Megha Santhosh Kumar	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
231.	Nahala Yusef	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
232.	Nandhana Anilan	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
233.	Rosanwyn Maeve	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
234.	Ruksana Subair	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
235.	R. Boss	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
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237.	Sandra K. J.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
238.	Sandra Saijesh	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
239.	Shahnas Ashraf	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
240.	Shemija P. C.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
241.	Shibitha Vinik	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
242.	Sneha A. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
243.	Sreelakashmi R. V.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
244.	Sreelakshmi Sreedharan	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
245.	Thanu M. S.	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage
246.	Vishnupriya Vipin	St. Joseph's College (Autonomous), Irinjalakuda	English Grammar and Usage

Irinjalakuda

30<sup>th</sup> October 2021



*[Signature]*  
**PRINCIPAL**  
**ST. JOSEPH'S COLLEGE**  
**(AUTONOMOUS)**  
**IRINJALAKUDA - 680 121**  
**TRISSUR DIST., KERALA**



# MEMORANDUM OF UNDERSTANDING BETWEEN

## **iConnut IT Solution**

Rays Complex (2nd floor)

Sankara Iyer Road Thrissur, 680004

Phone 0487-2361871, Mobile: +91 9446359371

AND

## **Department of Computer Science Carmel College, Mala, Thrissur**

In accordance with the mutual desire to promote academic research and development cooperation between the two organizations, this Memorandum of Understanding is being signed for collaboration in the following Our Online course/ Project Structure

- Language introduction and basics
- Project Topic selection
- Project Planning
- Database Design
- System Design
- Coding.
- Testing.
- Deployment.

In case any additional areas of cooperation may arise at a later date the same can be undertaken through mutual consent

This MOU will become effective and valid for end of project (2020-2021) the date of signing the representatives of the two organizations.

*Chithrabhanu*

Chithrabhanu K Pakaravoor (Project in Charge),  
iConnut IT Solution  
Rays Complex (2nd floor),  
Sankara Iyer Road Thrissur, 680004



*Greeshma*

Greeshma K V (HOD)  
Department of Computer Science,  
Carmel College, Mala, Thrissur

Head of the Department  
Department of Computer Science  
Carmel College, Mala



# HOTO – HOTEL MANAGEMENT SYSTEM



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of

**Bachelor of Computer Application of the Calicut University**

Submitted by

**AKSHAYA VARGHESE**

**Under the supervision of**

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

**Head of the Department**  
**Ms Greeshma K V**



# CERTIFICATE

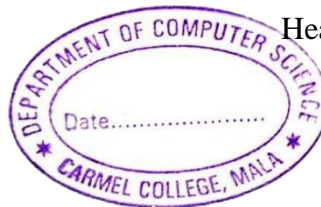
This is to certify that this project report entitled ..... HOTO – HOTEL MANAGEMENT SYSTEM..... has been done by ... AKSHAYA VARGHESE.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Malappuram.



Faculty in charge



Head of Department



Internal Examiner

External Examiner





# **HOTO – HOTEL MANAGEMENT SYSTEM**



## **MAIN PROJECT REPORT**

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SAFIRA P. N**

**Under the supervision of**

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

A handwritten signature in blue ink, appearing to read "Lakshmi", is enclosed in a thin black rectangular border.

**Head of the Department**  
**Ms Greeshma K V**

A handwritten signature in red ink, appearing to read "Greeshma", is enclosed in a red rectangular border with a white background.



# CERTIFICATE

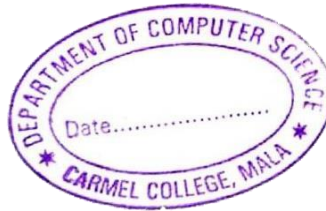
This is to certify that this project report entitled ..... HOTO – HOTEL MANAGEMENT SYSTEM..... has been done by ... SAFIRA P. N.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Malappuram.



Faculty in charge



Head of Department



Internal Examiner

External Examiner





# **HOTO – HOTEL MANAGEMENT SYSTEM**



## **MAIN PROJECT REPORT**

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SANDRA K. S**

**Under the supervision of**

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**



**Head of the Department**  
**Ms Greeshma K V**





## CERTIFICATE

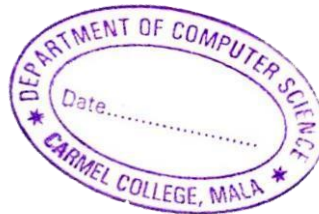
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Faculty in charge



Head of Department



Internal Examiner

External Examiner





# **HOTO – HOTEL MANAGEMENT SYSTEM**



## **MAIN PROJECT REPORT**

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**DIUTHY R. D**

**Under the supervision of**

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

A handwritten signature in blue ink, appearing to read "Lakshmi", is enclosed in a white rectangular box.

**Head of the Department**  
**Ms Greeshma K V**

A handwritten signature in red ink, appearing to read "Greeshma", is enclosed in a white rectangular box.



## CERTIFICATE

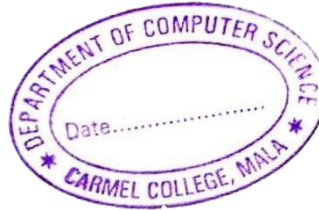
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Faculty in charge



Head of Department



Internal Examiner

External Examiner





# RESFEBER– TOURIST GUIDE SYSTEM



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SINDHOORA K. T**

Under the supervision of

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

A handwritten signature in blue ink, appearing to read "Lakshmi", is enclosed in a white rectangular box.

**Head of the Department**  
**Ms Greeshma K V**

A handwritten signature in red ink, appearing to read "Greeshma", is enclosed in a white rectangular box with a red border.

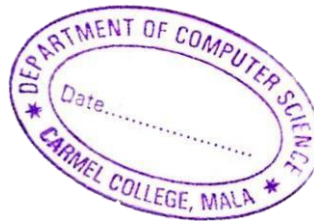


# CERTIFICATE

This is to certify that this project report entitled ..... RESFEBER  
– TOURIST GUIDE SYSTEM..... has been done by ...  
SINDHOORA K. T.....during the year....2020-2021 .... in partial  
fulfillment of the requirement for the award of the degree of BCA of  
Calicut university, Malappuram.



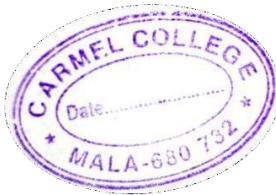
Faculty in charge



Head of Department

Internal Examiner

External Examiner





# RESFEBER– TOURIST GUIDE SYSTEM



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**ANJALI I. P**

Under the supervision of

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

A handwritten signature in blue ink, appearing to read "Lakshmi", is enclosed in a white rectangular box.

**Head of the Department**  
**Ms Greeshma K V**

A handwritten signature in red ink, appearing to read "Greeshma", is enclosed in a white rectangular box.



## CERTIFICATE

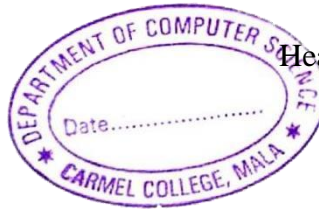
This is to certify that this project report entitled ..... RESFEBER – TOURIST GUIDE SYSTEM ..... has been done by ... ANJALI I. P .....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Malappuram.



Faculty in charge



Head of Department



Internal Examiner





# RESFEBER– TOURIST GUIDE SYSTEM



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**RAHMATH P. S**

**Under the supervision of**

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**

**Head of the Department**  
**Ms Greeshma K V**

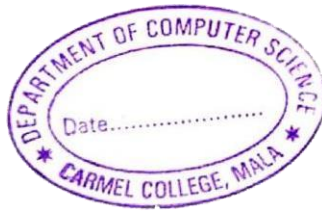


## CERTIFICATE

This is to certify that this project report entitled ..... RESFEBER – TOURIST GUIDE SYSTEM ..... has been done by ... RAHMATH P. S .....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Malappuram.



Faculty in charge



Head of Department

Internal Examiner

External Examiner





# RESFEBER– TOURIST GUIDE SYSTEM



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SONA JOHNY**

Under the supervision of

**Ms. LAKSHMI ANAND**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Lakshmi Anand**



**Head of the Department**  
**Ms Greeshma K V**



## CERTIFICATE

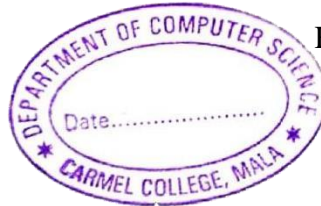
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Faculty in charge



Head of Department



Internal Examiner

External Examiner





# PRESENCIA



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**ALEENA WILSON**

Under the supervision of

**Ms. ANNMARIYA**

**DEPARTMENT OF COMPUTER SCIENCE**

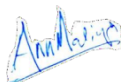
**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE, MALA**

**Supervisor**  
**Ms Annmariya Davis**



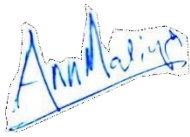
**Head of the Department**  
**Ms Greeshma K V**



# CERTIFICATE

This is to certify that this project report entitled ..... PRESENCIA..... has beendone by ... ALEENA WILSON.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

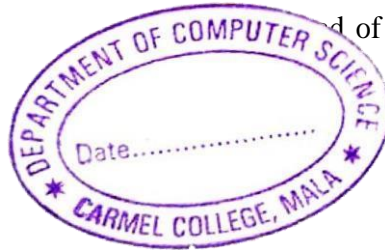
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# PRESENCIA



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**NEETHU V JOY**

**Under the supervision of**

**Ms. ANNMARIYA**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

**MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

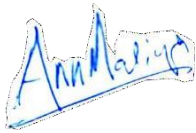
**Supervisor  
Ms Annmariya Davis**

**Head of the Department  
Ms Greeshma**

## CERTIFICATE

This is to certify that this project report entitled ..... PRESENCIA..... has beendone by ... NEETHU V JOY.....during the year...2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

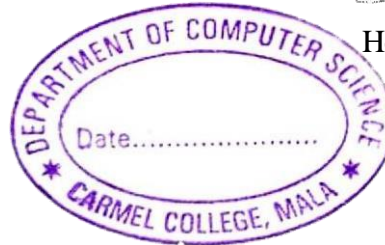
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# PRESENCIA



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**VARSHA SHAJU**

**Under the supervision of**

**Ms. ANNMARIYA**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE**

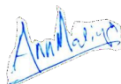
**MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Annmariya Davis**

**Head of the Department  
Ms Greeshma**

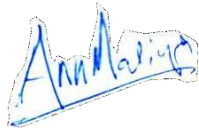




## CERTIFICATE

This is to certify that this project report entitled ..... PRESENCIA..... has beendone by ... VARSHA SHAJU.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

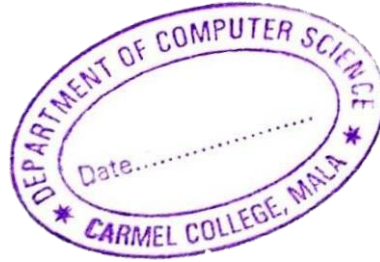
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# CLIQUE



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**AISWARYA SHAJU**

**Under the supervision of**

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Sandra Jose**

A handwritten signature in black ink, appearing to read "Sandra Jose", written over a white rectangular background.

**Head of the Department  
Ms Greeshma**

A handwritten signature in red ink, appearing to read "Greeshma", written over a white rectangular background.



## CERTIFICATE

This is to certify that this project report entitled ..... CLIQUE..... has been done by ... AISWARYA SHAJU.....during the year...2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

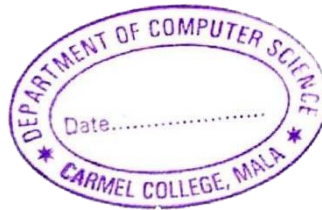
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# CLIQUE



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**ANGEL MARIA MARTIN**

**Under the supervision of**

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor**  
**Ms Sandra Jose**

A handwritten signature in blue ink, appearing to read "Sandra Jose", is written over a white rectangular background.

**Head of the Department**  
**Ms Greeshma**

A handwritten signature in red ink, appearing to read "Greeshma", is written over a white rectangular background.



## CERTIFICATE

This is to certify that this project report entitled ..... CLIQUE.....  
has been done by ... ANGEL MARIA MARTIN.....during the  
year....2020-2021.... in partial fulfillment of the requirement for  
the award of the degree of BCA of Calicut university, Kozhikode.

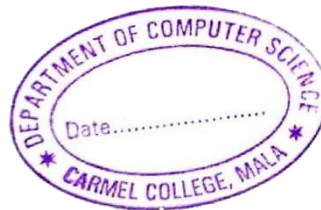
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# CLIQUE



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SREELAKSHMI P G**

Under the supervision of

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Sandra Jose**

A handwritten signature in blue ink, appearing to read "Sandra Jose", is written over a faint rectangular stamp.

**Head of the Department  
Ms Greeshma**

A handwritten signature in red ink, appearing to read "Greeshma", is written over a faint rectangular stamp.



## CERTIFICATE

This is to certify that this project report entitled ..... CLIQUE..... has been done by ... SREELAKSHMI P G.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

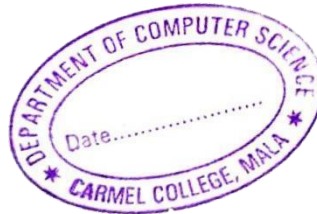
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# CLIQUE



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**LIMA K D**

Under the supervision of

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Sandra Jose**

A handwritten signature in blue ink, appearing to read "Sandra Jose", is written over a white rectangular stamp.

**Head of the Department  
Ms Greeshma**

A handwritten signature in red ink, appearing to read "Greeshma", is written over a white rectangular stamp.



## CERTIFICATE

This is to certify that this project report entitled ..... CLIQUE.....  
has been done by ... LIMA K D.....during the year....2020-  
2021.... in partial fulfillment of the requirement for the award of  
the degree of BCA of Calicut university, Kozhikode.

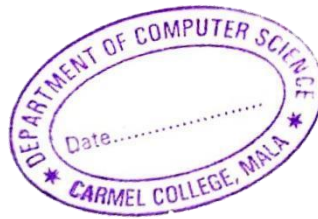
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# FOODLYNN



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**SHERSEENA P M**

Under the supervision of

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**



**Supervisor  
Ms Sandra Jose**



**Head of the Department  
Ms Greeshma**



## CERTIFICATE

This is to certify that this project report entitled ..... FOODLYNN..... has beendone by ... SHERSEENA P M.....duringthe year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

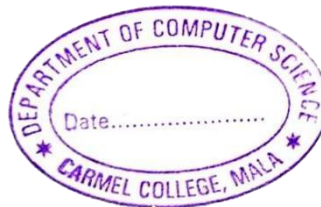
Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





# FOODLYNN



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**GAYATHRI MENON**

Under the supervision of

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Sandra Jose**



**Head of the Department  
Ms Greeshma**





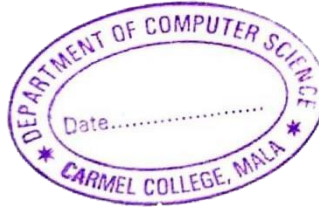
## CERTIFICATE

This is to certify that this project report entitled ..... FOODLYNN..... has been done by ... GAYATHRI MENON.....during the year....2020-2021.... in partial fulfillment of the requirement for the award of the degree of BCA of Calicut university, Kozhikode.

Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:



# FOODLYNN



## MAIN PROJECT REPORT

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by

**NEENU SHAJU**

Under the supervision of

**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**

**CARMEL COLLEGE MALA**

**(2020-2021)**

**CARMEL COLLEGE ,MALA**

**Supervisor  
Ms Sandra Jose**



**Head of the Department  
Ms Greeshma**





## CERTIFICATE

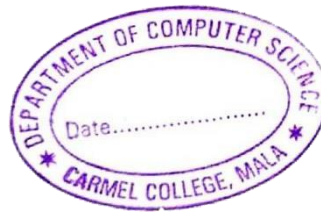
This is to certify that this project report entitled .....  
FOODLYNN..... has been done by ... NEENU  
SHAJU.....during the year....2020-2021.... in partial fulfillment  
of the requirement for the award of the degree of BCA of Calicut  
university, Kozhikode.

Valued on:

*Andra*

*Greeshma*

Faculty in charge :



Head of department

Internal Examiner :

External Examiner:





## **MAIN PROJECT REPORT**

Submitted in partial fulfillment of requirement for the award of the degree of  
**Bachelor of Computer Application of the Calicut University**

Submitted by  
**ANJANA BABU**

Under the supervision of  
**Ms. SANDRA JOSE**

**DEPARTMENT OF COMPUTER SCIENCE**  
**CARMEL COLLEGE MALA**  
**(2020-2021)**  
**CARMEL COLLEGE ,MALA**

**Supervisor**  
**Ms Sandra Jose**

**Head of the Department**  
**Ms Greeshma**



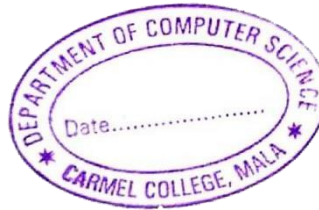
## CERTIFICATE

This is to certify that this project report entitled .....  
FOODLYNN..... has been done by ... ANJANA BABU.....during  
the year....2020-2021.... in partial fulfillment of the requirement for  
the award of the degree of BCA of Calicut university, Kozhikode.

Valued on:



Faculty in charge :



Head of department



Internal Examiner :

External Examiner:





**VIMALA COLLEGE**  
**(AUTONOMOUS)**  
THRISSUR, KERALA

30 March 2021

# CERTIFICATE

This is to certify that

**Sr.Jisha Chakkunny M**

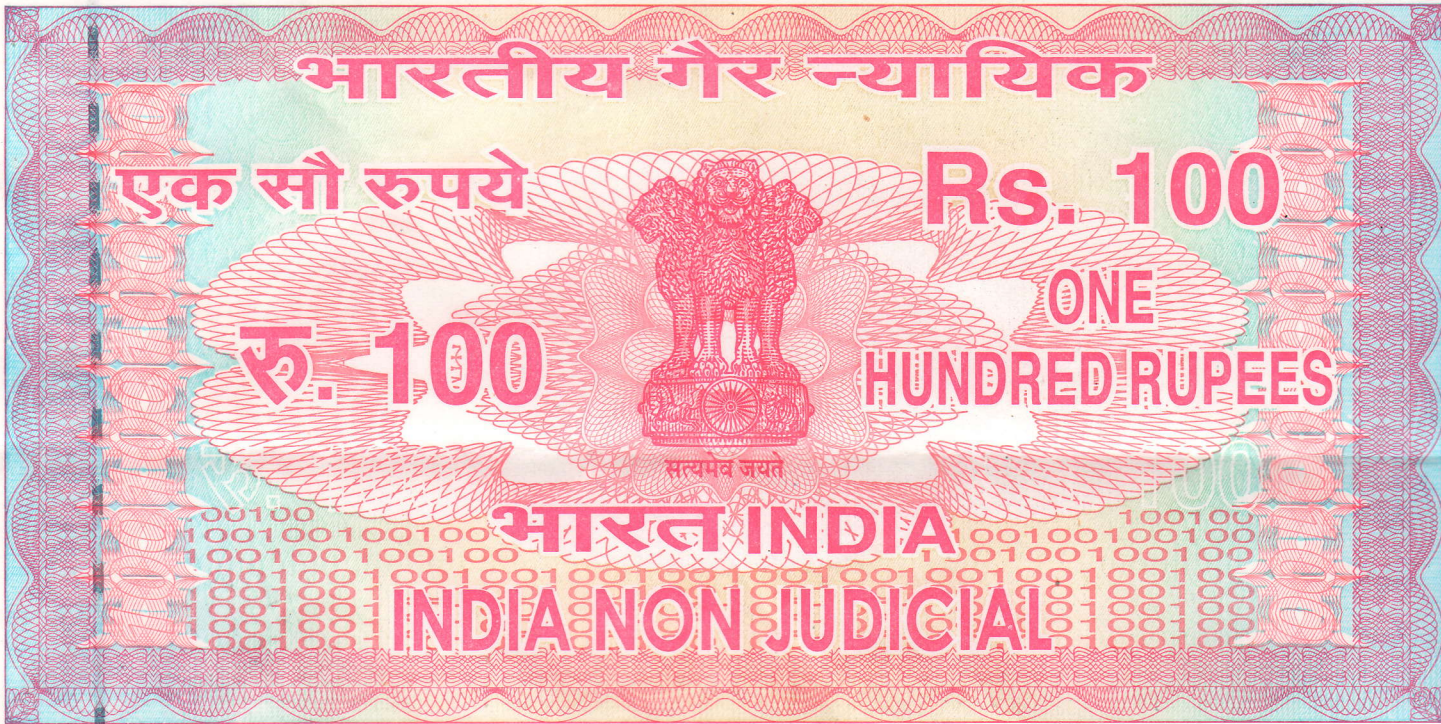
HOD & Asst. Professor, Dept. of Sociology, Carmel College, Mala

was the Resource Person of the **FACULTY EXCHANGE PROGRAMME** between the department of Sociology, Carmel College, Mala & Vimala College, Thrissur.



Dr Sr Beena Jose  
PRINCIPAL IN-CHARGE,  
VIMALA COLLEGE  
(AUTONOMOUS)  
THRISSUR-680 009





കേരളം കരം KERALA

CT 598462

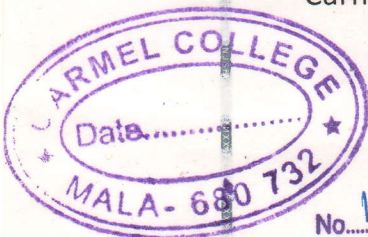
This MOU is signed by the Department of Sociology, Carmel College, Mala hereafter called First Party, and the Department of Sociology, Farook College (Autonomous), as Second Party, in accordance with the mutual desire to promote academic research and social development between the First Party and the Second Party with the following conditions.

1. Both the parties agree upon the Faculty Exchange Programme
2. Seminar/Workshop/Awareness Programmes will be organized on mutual cooperation
3. Training Programmes for staff and students will be organized on mutual cooperation
4. If an additional activity other than the above is organized, the same will be decided by the discussion and consent of both the parties
5. The expense incurred will be shared by both the parties

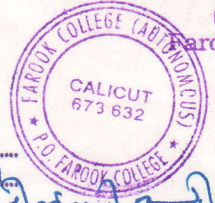
This MoU will come into force from the date of signing by the Principals of both the parties and will be valid for five years.

*Wing: AD*  
*30/11/2020*  
First Party  
Principal  
Carmel College, Mala,

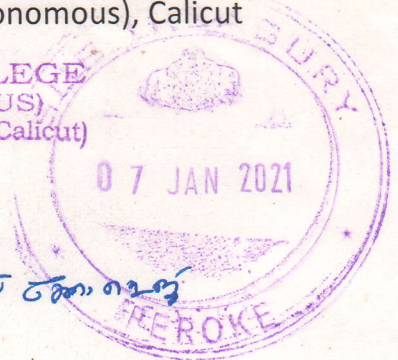
*30/11/2020*  
Second Party  
Principal  
Farook College (Autonomous), Calicut



Principal  
Carmel College  
Mala



Principal  
FAROOK COLLEGE  
(AUTONOMOUS)  
Farook College.P.O.(Calicut)



No. *13217* Value Rs. *100*  
DATE *15-01-2021*  
NAME *കെ.പി. സത്യേഷ് കുമാർ*  
STAMP VENDOR, RAMANATTUKARA  
K.P. SATHEESH KUMAR

*[Handwritten signature]*



FAROOK COLLEGE (AUTONOMOUS)  
FAROOK COLLEGE PO, KOZHIKODE - 673632

# CERTIFICATE

This is to Certify that

*Sr. Jisha Chakkunni. M*

**Assistant Professor, Department of Sociology  
Carmel College, Mala**

was the resource person of the  
**FACULTY EXCHANGE PROGRAMME**  
which had been conducted for  
the promotion of academic research  
and social development during the period  
from 01-12-2020 to 15-12-2020



15-12-2020



*Dr. K.M. Naseer*  
**Dr. K.M. Naseer**  
Principal





**The Zamorin's  
Guruvayurappan  
College**

Estd in 1877


Re Accredited with NAAC A Grade

---

**This is to certify that**

***Jisha Chakkunny M***  
**Assistant Professor,**  
**Department of Sociology**  
**Carmel College, Mala**

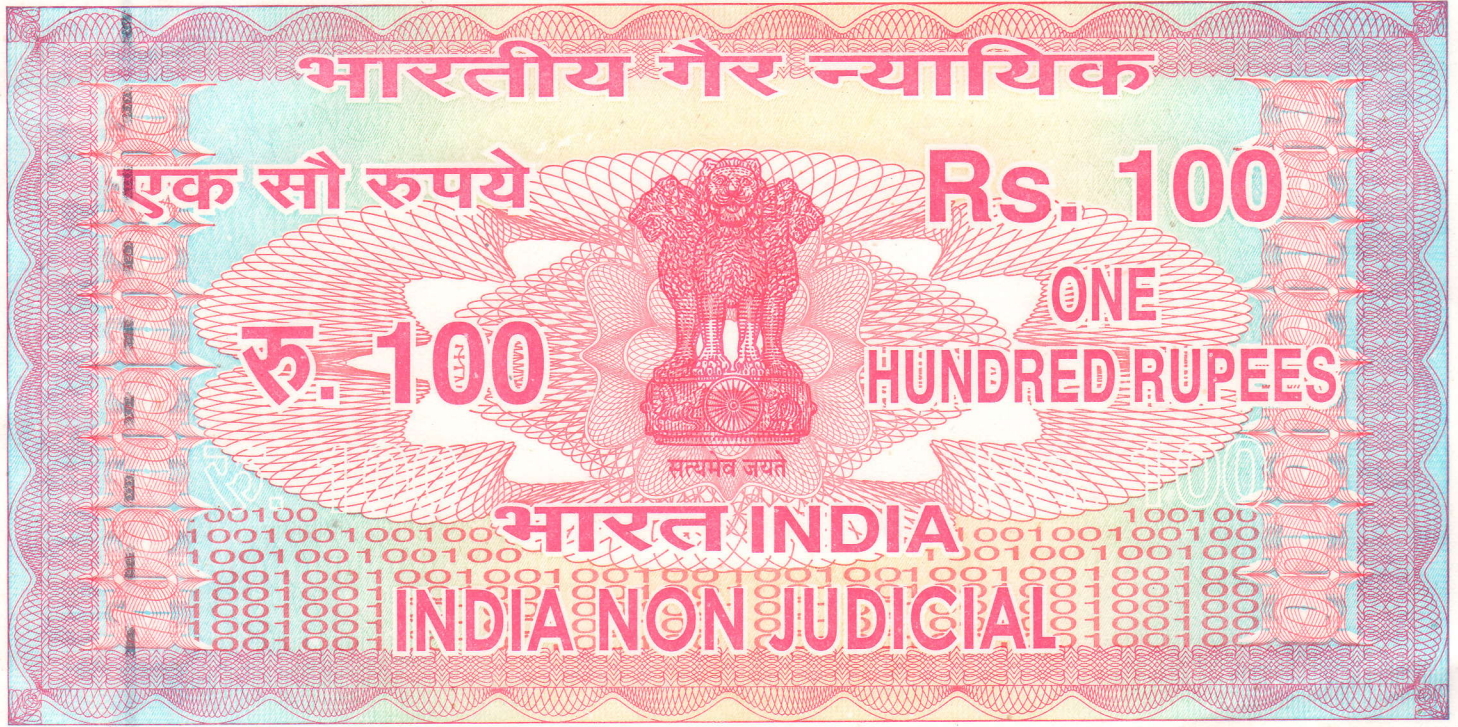
**was the resource person of  
the Faculty Exchange Programme  
between  
The Department of Sociology, The  
Zamorin's Guruvayurappan College,  
Kozhikode  
and  
Carmel College, Mala**

  
Dr. P T Malini  
Associate Principal  
The Zamorin's Guruvayurappan College,  
Kozhikode

Ph: 0495 2331516  
e mail: zgckozhikode@gmail.com

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കേരളം കേരल KERALA

CW 491355



**MEMORANDUM OF UNDERSTANDING**

between

**Department of Sociology, Carmel College, Mala**

and

**Kerala Institute of Local Administration (KILA), Mulankunnathukavu, Thrissur**

The Memorandum of Understanding (here in after referred to as MoU) is made on 29/03/2021 between Department of Sociology, Carmel College, Mala (herein after referred to as first party) and Kerala Institute of Local Administration (KILA) (here in after referred to as second party) for conducting Internship, Training Programmes and Certificate Courses for Students of Carmel College, Mala, Thrissur. This MoU is signed by Sr.Jisha Chakkunny M, Head of the Department of Sociology, Carmel College, Mala representing the first party and Dr. Joy Elamon, Director General, Kerala Institute of Local Administration (KILA) representing the second party.

*Jisha*  
JISHA CHAKKUNNY M  
Assistant Professor  
Dept. of Sociology  
Carmel College, Mala



*Joy Elamon*  
Dr. Joy Elamon  
DIRECTOR GENERAL  
Kerala Institute of Local Administration (KILA)  
Mulamgunnathukavu PO, Thrissur-680581, Kerala  
Tel: +91 - 487-2201312

*Ne. 7995*  
23-3-2021

*Rsl Lectr*

HEAD, DEPARTMENT OF SOCIOLOGY

*P.D. Paul*  
P.D. PAUL  
VENDOR NO: 14  
P.O. MALA-680723

*72-3-2021*



Whereas both parties have agreed to associate and carry out the Internship, Training Programmes and Certificate Courses with the overall objective of enhancing the knowledge, attitude and practices of the students of the Department of Sociology, Carmel College, Mala. Now both parties have agreed to enter into this MoU formulated as per the mutually agreed terms and conditions as mentioned below.

1. To organise Certificate Course on Local Governance to the students of the Department of Sociology, Carmel College, Mala at KILA Campus as per the timetable prepared jointly by both parties. The certificate courses can be either online or offline
  - a) The second Party will provide class rooms and basic infrastructure facilities including Library facilities for the participants of the course in KILA.
  - b) The selection of students will be done by the first party
  - c) The overall coordination of the programme will be done by the first party in consultation with the second party
  - d) The resource persons will be identified and arranged by the second party
  - e) Certificate will be issued jointly by both parties
2. Internship programme for the students can be either online or offline.
3. Workshops/Training programmes
4. Library for references

### Expenditure

All the expenditure related to the certificate course on Local Governance to the students arranged at KILA will be done by the second party. This includes resource person's fee, training materials, stay and food. If the programme is scheduled either at Carmel College, Mala or any other mutually agreed venue, the first/second party will bear the resource person's fee and other expenditure, if any based on mutual discussion and agreement. The programme co-ordination will be done by the first party.

*Jisha*  
JISHA CHAKKUNNY M  
Assistant Professor  
Dept. of Sociology  
Carmel College, Mala



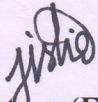
*Joy Elamon*  
Dr. Joy Elamon  
DIRECTOR GENERAL  
Kerala Institute of Local Administration (KILA)  
Mulamgannathukavu PO, Thrissur-680581, Kerala  
Tel: +91 - 487-2201312



The first party will provide the infrastructure facilities to KILA for organizing its programmes for Local Governments, based on mutually agreed terms and conditions.

### **Programme Implementation**

Course Structure and Syllabus will be prepared jointly by both the parties. The course will be steered by Course Director - a Faculty Member entrusted by the second party. Coordination of the sessions and maintenance of attendance will be done by the first party. Internal and external evaluation of the programme will be done jointly by both parties.



**Signature (First Party)**

**Sr. Jisha Chakkunny M.  
Head of the Department  
Sociology  
Carmel College, Mala**



JISHA CHAKKUNNY M  
Assistant Professor  
Dept. of Sociology  
Carmel College, Mala



**Signature (Second Party)**

**Dr. Joy Elamon, Director  
Kerala Institute of Local of  
Administration,  
MulankunnathuKavu, Thrissur**





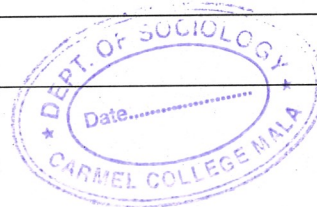
**CARMEL COLLEGE, MALA**  
**Department of Sociology**

**STUDENTS LIST**

SL.NO	NAME OF THE STUDENTS	CLASS	
1.	Amalu V R	I MA Sociology	<i>Amalu</i>
2.	Ardhra Hari	I MA Sociology	<i>Ardhra</i>
3.	Betsy Davis	I MA Sociology	<i>Betsy</i>
4.	Julie Saji	I MA Sociology	<i>Julie Saji</i>
5.	Murshidha Thasni N	I MA Sociology	<i>Murshidha</i>
6.	Nasreen	I MA Sociology	<i>Nasreen</i>
7.	Silpa Sivan	I MA Sociology	<i>Silpa Sivan</i>
8.	Varsha M	I MA Sociology	<i>Varsha M</i>
9.	Athira K K	I MA Sociology	<i>AKK</i>
10.	Lakshmi M A	I MA Sociology	<i>Lakshmi M.A</i>
11.	Sivadharshna Kallatt	I MA Sociology	<i>Sivadharshna</i>
12.	Ansha Babu	I MA Sociology	<i>Ansha Babu</i>
13.	Saaha K S	I MA Sociology	<i>Saaha</i>
14.	Adithya P	I MA Sociology	<i>Adithya P</i>
15.	Maneesha T M	I MA Sociology	<i>Maneesha</i>
16.	Varsha E M	I MA Sociology	<i>Varsha M</i>

**TEACHERS LIST**

SL.NO	NAME	
1.	Jisha Chakkunny M	<i>Jisha</i>
2.	Ms. Neethu C M	<i>Neethu</i>





# ST. MARY'S COLLEGE, THRISSUR



## DEPARTMENT OF ENGLISH

**This certificate is presented to  
Ms. Keerthy Sophiya Ponnachan, Asst. Professor of English,  
Carmel College, Mala, for being the Resource Person for the  
Online research Orientation Programme, held on 26 June 2020,  
as part of the Faculty Exchange programme.**

*Magie Jose*

**Sr. Dr. Magie Jose  
Principal**



*Bindu Ann Philip*

**Dr. Bindu Ann Philip  
Head of the Department**



## CERTIFICATE

Certified that the project proposal entitled **THE USE OF LIQUID AND SUPERCRITICAL CARBONDIOXIDE AS A GREEN SOLVENT IN PHARMACEUTICAL INDUSTRY** submitted to the University of Calicut in the partial fulfilment of the requirements for the award of the Degree of Master of Science in Chemistry is a research proposal prepared by ASWATHI. P., Register No. CRATMCH001 of CARMEL COLLEGE MALA, THRISSUR under my guidance.

Place: C. U.

Date: 28.08.2021

**Dr. P. Raveendran**

Professor, Department of Chemistry

University of Calicut



Phone: +91-484-2462341



Fax: +91-484-2466878  
email: info@sreesankaracollege.org  
info@ssc.edu.in

**POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY**  
**SREE SANKARA COLLEGE**

(Affiliated to Mahatma Gandhi University and included  
under Sec. 2(f) list / and 12 (B) of the U G C Act)  
and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU  
SREE SANKARACHARYA MAHASWAMIGAL  
SRI SARADA PEETHAM, SRINGERI

POST BOX NO. 1  
KALADY – 683 574  
ERNAKULAM DIST.  
KERALA STATE  
INDIA

**CERTIFICATE FROM THE GUIDE**

This is to certify that the Project Work Titled “**Enhanced mechanical properties of the starch-sisal fibre composites**” is a bonafide work of **CHANGEL ANTO**,  
**Reg no: CRATMCH002** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Mahatma Gandhi University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
Department of Chemistry  
Sree Sankara College



Phone: +91-484-2462341



Fax: +91-484-2466878  
email: info@sreesankaracollege.org  
info@ssc.edu.in

**POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY**

# **SREE SANKARA COLLEGE**

(Affiliated to Mahatma Gandhi University and included  
under Sec. 2(f) list / and 12 (B) of the U G C Act)  
and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU  
SREE SANKARACHARYA MAHASWAMIGAL  
SRI SARADA PEETHAM, SRINGERI

POST BOX NO. 1  
KALADY – 683 574  
ERNAKULAM DIST.  
KERALA STATE  
INDIA

## **CERTIFICATE FROM THE GUIDE**

This is to certify that the Project Work Titled “**WATER DIFFUSION CHARACTERISTICS OF CELLULOSE NANOFIBER REINFORCED PHENOL FORMALDEHYDE NANOCOMPOSITE**” is a bonafide work of **DELMA WILSON, Reg no: CRATMCH003** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Mahatma Gandhi University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
Department of Chemistry  
Sree Sankara College





Phone: +91-484-2462341



Fax: +91-484-2466878  
email: info@sreesankaracollege.org  
info@ssc.edu.in

**POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY**  
**SREE SANKARA COLLEGE**

(Affiliated to Mahathma Gandhi University and included  
under Sec. 2(f) list / and 12 (B) of the U G C Act)  
and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU  
SREE SANKARACHARYA MAHASWAMIGAL  
SRI SARADA PEETHAM, SRINGERI

POST BOX NO. 1  
KALADY – 683 574  
ERNAKULAM DIST.  
KERALA STATE  
INDIA

**CERTIFICATE FROM THE GUIDE**

This is to certify that the Project Work Titled “**Phenol formaldehyde-MWCNT-IL Foams-preparation and characterisation**” is a bonafide work of **Dona Devassy kutty, Reg no: CRATMCH004** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Mahatma Gandhi University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
Department of Chemistry  
Sree Sankara College





**SRI VYASA N.S.S.COLLEGE**  
VYASAGIRI P.O, WADAKANCHERY, THRISSUR - 680623

Phone : 04884 - 237249, 237718

Email : [mail@srivyasanss.ac.in](mailto:mail@srivyasanss.ac.in)

### **CERTIFICATE**

This is to certify that the project entitled "PREPARATION OF REGENERATED CELLULOSE FILM FROM SPONGE GOURD (LUFFA AEGYPTIACA) AND EVALUATION OF PROPERTIES "is an authentic record of the work carried out by FASNA K U under my supervision in partial fulfilment for the degree of Master of Science in Chemistry, through the Department of Chemistry, S.V.N.S.S College , Wadakkanchery and no part of this has formed the basis for the award of any degree, diploma, or other similar titles of any university.

Dr. Nisha Nandakumar

Date:11.2.2020



Phone: +91-484-2462341



Fax: +91-484-2466878  
email: info@sreesankaracollege.org  
info@ssc.edu.in

**POSTGRADUATE AND RESEARCH DEPARTMENT OF CHEMISTRY**  
**SREE SANKARA COLLEGE**

(Affiliated to Mahatma Gandhi University and included  
under Sec. 2(f) list / and 12 (B) of the U G C Act)  
and Re – accredited by NAAC with B++ grade

PATRON: HIS HOLINESS JAGADGURU  
SREE SANKARACHARYA MAHASWAMIGAL  
SRI SARADA PEETHAM, SRINGERI

POST BOX NO. 1  
KALADY – 683 574  
ERNAKULAM DIST.  
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This is to certify that the Project Work Titled “**PREPARATION AND PROPERTIES OF PHENOL FORMALDEHYDE-NANOSILICA FOAM**” is a bonafide work of **GILDA THOMAS, Reg no: CRATMCH006** carried out in partial fulfillment of the requirements for the award of the degree of M.Sc. Chemistry of Mahatma Gandhi University under my guidance. This project work is original and not submitted earlier for the award of any degree.

Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
Department of Chemistry  
Sree Sankara College





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**IRINJALAKUDA, THRISSUR**  
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This is to certify that the project titled “**DEVELOPMENT OF Ce-Cu ELECTROCATALYST ON GRAPHENE-VULCAN SUPPORT FOR ALKALINE ELECTROLYTE CELL**” is a authentic record of work carried out by **K P ANNET** under my supervision for the partial fulfillment of the degree of Master of Science in Chemistry, through Department of Chemistry, Christ College, Irinjalakuda and no part of this formed the basis for award of any degree, diploma or other similar titles of any university.

Place: Irinjalakuda

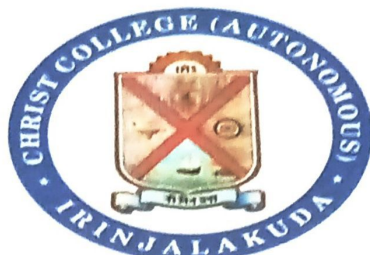
Date: 27-8-2021

Dr. JOY V T

Head of Department, Chemistry  
Christ College, Irinjalakuda



**DEPARTMENT OF CHEMISTRY  
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This is to certify that the dissertation entitled “**DENDRITE FREE RECHARGEABLE ZINC-AIR BATTERIES FOR ELECTRICAL ENERGY STORAGE**” is a record of original work done by, **LEYA MARY ANTO** REG NO **CRATMCH009**:, in the partial fulfillment of the requirement for the award of degree of **MASTER OF CHEMISTRY** under the guidance of **Dr. V.T JOY**., **Head, Department of Chemistry, Christ College, Irinjalakuda**. It is further certified that this dissertation or any part of this thesis has not been submitted elsewhere for any other degree.

Place: Irinjalakuda

Date : 28/8/2021

Dr. V.T JOY

(Supervising guide)

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Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
Department of Chemistry  
Sree Sankara College





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**Dr. Paulson Mathew**  
**Associate Professor**

09/07 /2021

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This is to certify that the dissertation entitled “**STUDIES ON THE GREEN SYNTHESIS, CHARACTERISATION AND ANTICANCER PROPERTY OF RUTHENIUM NANOPARTICLES**” is a record of original work done by, **MARIYA. P. KAMAL REG NO: CRATMCH011.**, in the partial fulfillment of the requirement for the award of degree of **MASTER OF CHEMISTRY** under the guidance of **Dr . PAULSON MATHEW, Associate professor, Department of Chemistry, ST .Thomas College, Thrissur.** It is further certified that this dissertation or any part of this thesis has not been submitted elsewhere for any other degree.

Dr. Paulson Mathew  
Associate professor, St. Thomas college,  
Department of Chemistry  
St Thomas College, Thrissur

Place:  
Date:



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This is to certify that the dissertation entitled “**DEVELOPMENT AND STUDY OF PALLADIUM CATALYST ON GRAPHENE-VULCAN SUPPORT IN ALKALINE FUEL CELL**” is an authentic record of work done by **Ms. SILVIYA RAMACHANDRAN** under the guidance of **Dr. V T JOY**, Assistant professor Head of Department of Chemistry, Christ College Irinjalakuda, in partial fulfilment for the award of degree of Master of Science in Chemistry during the academic year 2019-2021.

A handwritten signature in black ink, appearing to be "VT Joy", written over a horizontal line.

Place: **MALA**

Date: **3-9-2021**

**Dr. V T Joy**

Department of Chemistry

Christ College, Irinjalakuda



**DEPARTMENT OF CHEMISTRY**  
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This is to certify that the project entitled “**DEVELOPMENT OF ELECTROCATALYST FOR HYDROGEN EVOLUTION IN ALKALINE MEDIUM** ” submitted to faculty of Science, university of Calicut in partial fulfillment of the requirement for the award of degree of **Master of Science in Chemistry** is authentic record of work carried out at Christ College, Irinjalakuda by **SILVY K.V (Reg.No. CRATMCH014)** and was supervised and guided by **Dr. V.T JOY**, Head of Department of Chemistry, Christ College Irinjalakuda.

Place : Irinjalakuda

Date : 28/8/2021

Dr. V.T JOY

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Place: Kalady  
Date: 11/08/2021

**DR. SREEKALA M S**  
Assistant Professor,  
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## CERTIFICATE

This is to certify that Ms. Ammini.C.J, (CRATMBT002) M.Sc. Botany, Carmel College, Mala, affiliated under University of Calicut, has successfully completed her dissertation work on 'Diversity assessment of fresh water algae in summer season: A case study in Peechi-Vazhani Wildlife Sanctuary' at Kerala Forest Research Institute, Peechi, under the supervision of Dr.V.B.Sreekumar, Senior Scientist, Forest Botany Department, during January to March 2021.

Date: 09.07.2021

Supervising Guide

Academic Programme  
Coordinator

Director

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Senior Scientist

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## CERTIFICATE OF LINKAGE

First party:

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Research, Research Division of St. Mary's college  
Thrissur, Kerala, 680020

Second party:

BINIMOL K J  
Research scholar  
Carmel College, Mala  
Thrissur-680732

This is to acknowledge that BINIMOL K J of Carmel College, Department of Botany, Thrissur, Kerala, 680732 has utilized research lab and guidance from Marian Center for Advanced Research, Research division of St. Mary's college Thrissur, Kerala, 680020 as a part of her PhD during 2020-2021.

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25. 07. 2021

## INTERNSHIP CERTIFICATE

This is to certify that Ms. K. S. SILPA, student of Research and PG Department of Botany, Carmel College, Mala has successfully completed her internship and project under the guidance of Dr. KH Amitha Bachan. Her period of internship was from December 2020 to June 2021. She has earned proficiency in ecological field work and threatened status assessment using IUCN criteria. She has completed this as part of species conservation and ecorestoration program and her proficiency was good.

Dr. Amitha Bachan K.H



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## BONAFIDE CERTIFICATE

This is to certify that the dissertation entitled “**Evaluation of Amylase Activity of Phytozymes Extracted from *Syzygium aromaticum* L.**” is an original research work done by **YARDLY MARYA BENNY** at Marian Centre for Advanced Research (MCAR), Research division of St. Mary's College, Thrissur, Kerala, 680020.

Additional Director

Dr. Sr. Meena K. Cheruvathur  
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