



# CARMEL COLLEGE, MALA

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

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## Criteria III

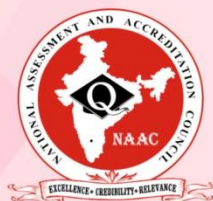
### Research, Innovations and Extension

3.5.2 Number of functional MoUs with institutions, other universities, industries, corporate houses etc. during the last five years

#### MoUs Activities

2019-2020

*Submitted to*



THE NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

**MoU between PG and Research Department of Chemistry, Christ College  
(Autonomous), Irinjalakuda and PG Department of Chemistry,  
Carmel College, Mala**

**Date of Commencement: 01.06.2018**

**Date of Completion: 31.05.2019**

| Sl. No | Activity  | Year                            |
|--------|---|---------------------------------|
| 1      | Project work by students  | 2018-19                         |
| 2      | One of our faculty chaired a session in National Seminar                        | 27 & 28 <sup>th</sup> July 2018 |
| 3      | Faculty & PG students Participation in seminars and workshops at Christ College | 2018-19                         |



*Reshmy*  
**.Principal  
Carmel College  
Mala**



**Collaboration between PG and Research Department of Chemistry, Christ College,  
Irinjalakuda and P G Department of Chemistry, Carmel College, Mala**

Collaborative activities: Knowledge dissemination through seminar participations and Project Work

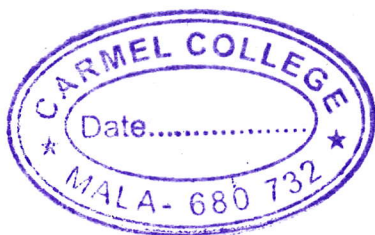
Year 2018-2019

**Brief Report**

The Collaboration with P G and Research Department of Christ College, Irinjalakuda and P G Department of Chemistry, Carmel College, Mala promoted Knowledge dissemination through project guidance and seminar/ workshop participation.

| Sl. No | Project Title   | Student Name    | Register Number | Name of institution where project was done |
|--------|---|-----------------|-----------------|--|
| 1      | Isolation of Antibacterial Secondary Metabolites From The Mushroom Clitopilus Prunulus                                  | Haritha T S     | CRARMCH006      | Christ College Irinjalakuda                |
| 2      | Evaluation of the Variation in Chemical Composition of Essential Oil Present in Nutmeg Mace Throughout its Growth Cycle | Neetha Varghese | CRARMCH009      | Christ College Irinjalakuda                |

Apart from project work consultancy, our Faculty and P G Students have participated in the seminars conducted by the Department of Chemistry, Christ College, Irinjalakuda. Our Faculty, Dr. Princy K G have attended and chaired the session in the national seminar on “Advanced Functional materials for energy production and medicinal applications”



*[Signature]*  
**Principal  
Carmel College  
Mala**



*[Signature]*  
**PRINCIPAL  
CHRIST COLLEGE (AUTONOMOUS)  
IRINJALAKUDA**

**MoU between PG and Research Department of Chemistry, Sree Sankara College,  
Kalady and PG Department of Chemistry, Carmel College, Mala**

**Date of Commencement: 01.06.2018**

**Date of Completion: 31.05.2019**

| <b>Sl. No</b> | <b>Activity</b>             | <b>Year</b> |
|---------------|-----------------------------|-------------|
| 1             | Project work by PG students | 2018-19     |

*S. S. Sree*  
**Principal  
Carmel College  
Mala**





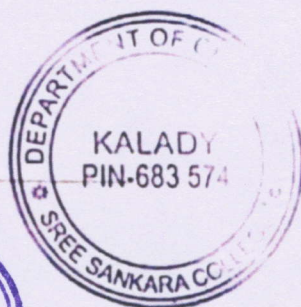
**Collaboration between PG and Research Department of Chemistry, Sree Sankara College, Kalady and PG Department of Chemistry, Carmel College, Mala**

Name of Activity: Project Work  
Year 2018-2019

**Brief Report**

The Collaboration with PG and Research Department of Chemistry, Sree Sankara College, Kalady and PG Department of Chemistry, Carmel College, Mala was for the promotion of Project.

| Sl. No | Project Title   | Student Name      | Register Number | Name of institution where project was done |
|--------|---|-------------------|-----------------|--|
| 1.     | Mechanical Properties of Banana Fibre Reinforced Phenol Formaldehyde Composites; Effect of Fibre Length   | Athira M C        | CRARMCH003      | Sree Sankara College, Kalady               |
| 2.     | Investigation of Novel Phenolic Foam Reinforced With Bio-Origin Nanocellulose"  | Ayisa Varghese    | CRARMCH004      | Sree Sankara College, Kalady               |
| 3.     | Bio-Origin Nanosilica Reinforced Phenolic Formaldehyde Nanocomposite Synthesis and Characterisation   | Deepika Devadas K | CRARMCH005      | Sree Sankara College, Kalady               |
| 4.     | Study of Mechanical Properties of Sisal Fibre Reinforced Biodegradable Starch Based Polymer Using Glycerol as Plasticizer; Effect of Fibre Length | Lakshmi V V       | CRARMCH008      | Sree Sankara College, Kalady               |
| 5.     | Rigid Phenolic Foams Reinforced With Ionic Liquid Functionalized Carbon Nanotubes   | Rupa S Mohanan    | CRARMCH010      | Sree Sankara College, Kalady               |
| 6.     | Modification and Characterization of Chitosan-Starchblend Films Using Mustard Oil   | Shaiji Shaju      | CRARMCH011      | Sree Sankara College, Kalady               |
| 7.     | "Preparation and Analysis of Chitosan-Starch Blend Films  | Simna Sathyan     | CRARMCH012      | Sree Sankara College, Kalady               |



*Sreekala*

Dr. Sreekala M. S.,  
Post Graduate and Research  
Department of Chemistry,  
Sree Sankara College, Kalady.

*S. S. Sathyan*  
Principal  
Carmel College  
Mala

**MoU between Research and PG Department of Chemistry St. Joseph's College  
(Autonomous), Irinjalakuda and PG Department of Chemistry,  
Carmel College, Mala**

**Date of Commencement: 01.06.2018**

**Date of Completion: 31.05.2019**

| Sl. No | Activity   | Year    |
|--------|--|---------|
| 1      | Faculty Exchange Programme   | 2018-19 |
| 2      | Project Guidance to PG student of St. Joseph's College             | 2018-19 |
| 2      | Project work by students of Carmel College at St. Joseph's College | 2018-19 |



*A. E. K. S. J.*  
**Principal**  
**Carmel College**  
**Mala**

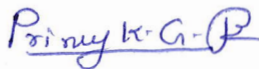


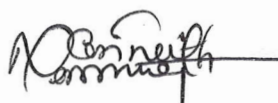
**MoU Activity Report (2018-19)**  
**Research and PG Department of Chemistry,**  
**St. Joseph's College (Autonomous) Irinjalakuda &**  
**PG Department of Chemistry, Carmel College, Mala**

Name of Activity: Project based learning

As part of Faculty Exchange program, Ms. Tessy Jose, Assistant Professor on contract, Carmel College, Mala handled the Practical sessions of PG students at St. Joseph's College, Irinjalakuda. Dr. Manoj A.L., Assistant Professor, St. Joseph's College, Irinjalakuda and Ms. Tessy Jose jointly guided six M.Sc. Chemistry students of Carmel College, Mala for doing their Project Work. Continuous monitoring on students' project was done by the institute. Students got exposure to work on live project. Infrastructure, Lab and Library facility was available for our students. Details of the students and Project work is as follows:

| Sl.No | Name of the student | Reg. No.   | Title of the project   |
|-------|---------------------|------------|--|
| 1.    | ALPHY MARTIN        | CRASMCH001 | Study on Hexanal Self Aldol Condensation by using Solid Clay and Amino Functionalized Catalysts.                             |
| 2.    | ANCILYN ANTU K      | CRASMCH002 | Study of Visible Light Photocatalytic Activity of Zinc Ferrite Doped Titania Nanocomposite on Methylene Blue Dye Degradation |
| 3.    | ANILA BASTIAN K     | CRASMCH003 | Screening of Amino Functionalized Lake Bottom Clay Catalyst for the Solvent Free Self Condensation of Pentanal               |
| 4.    | ARYA RAJEEV         | CRASMCH005 | Fast Amination of Aminophenol and its Derivatives to Amidine Adducts for Substituted Benzoxazole Synthesis.                  |
| 5.    | GEETHUKRISHNAN      | CRASMCH006 | PhI(OAc) <sub>2</sub> mediated fast cyclisation of amidine adducts for substituted benzoxazole synthesis                     |
| 6.    | SIJA P.C            | CRASMCH010 | Characterization of TiO <sub>2</sub> - ZnFe <sub>2</sub> O <sub>4</sub> Nano Composite                                       |

  
**Dr. PRINCY K.G.**  
ASSOCIATE PROFESSOR & HEAD  
DEPT. OF CHEMISTRY  
CARMEL COLLEGE, MALA

  
**Dr. MANOJ A.L.**  
Assistant Professor  
Research Department Of Chemistry  
St. Joseph's College, Irinjalakuda

**MoU between DAKOTA TECHNOLOGIES PVT LTD AKAMALY, and  
Carmel College, Mala**

**Date of Commencement: 04.06.2018**

**Date of Completion: 31.12.2020**

| <b>Sl. No</b> | <b>Activity</b>   | <b>Year</b> |
|---------------|---|-------------|
| 1             | App Training Programme for staff and students, updation of App for consolidated internal mark calculation | 2018-19     |
| 2             | Introduction of SMS gateway and Exam Room Allocation feature to App                                       | 2019-20     |



ACTIVITY REPORT

of

SMART CAMPUS APP

Under the MOU

BETWEEN

DAKOTA TECHNOLOGIES PVT LTD

ANKAMALY

AND

CARMEL COLLEGE MALA

THRISSUR

IN CONNECTION WITH

‘PROVIDING SERVICES OF SMART CAMPUS APP’

### Activities conducted during the Academic year 4/6/2018 – 31/03/2019

1. Data Updation: Through Excel Sheets, Staff from DAKOTA Technologies upated details of staff and students for the application
2. Training Programme: For the effective usage of App, staff from DAKOTA Technologies, conducted APP familiarization for staff and students
3. As per the request of Staff, Consolidated Internal mark Calculation feature added in APP features.

### Activities conducted during the Academic year 6/6/2019 – 31/03/2020

1. Data Updation: Through Excel Sheets, Staff from DAKOTA Technologies updated details of new staff and first year students for the application
2. As per the request of College, SMS gateway is added the features of APP, through this teachers can send SMS to parents and students

### Activities conducted during the Academic year 1/6/2020 - 31/12/2020

1. Data Updation: Through Excel Sheets, Staff from DAKOTA Technologies updated details of new staff and first year students for the application
2. As per the request from College, EXAM Room Allocation feature is added in features of APP.



For Dakota Technologies Pvt. Ltd.

Mg. Director

Director



Principal  
Carmel College  
Mala

**MoU between Cogniz Info Tech Palarivattom and Department of Vocation Studies,  
Carmel College, Mala**

**Date of Commencement: 12.06.2018**

**Date of Completion: 11/06/2019**

| Sl. No | Activity               | Year    |
|--------|------------------------|---------|
| 1      | Internship and Project | 2018-19 |



*Shree*  
**Principal  
Carmel College  
Mala**



**MoU between Cogniz Info Tech, Palarivatam, Kochin and Department of Vocation Studies, Carmel College, Mala**

Name of Activity: Internship & Project

Number of Participants: 4

Year: 2018-2019

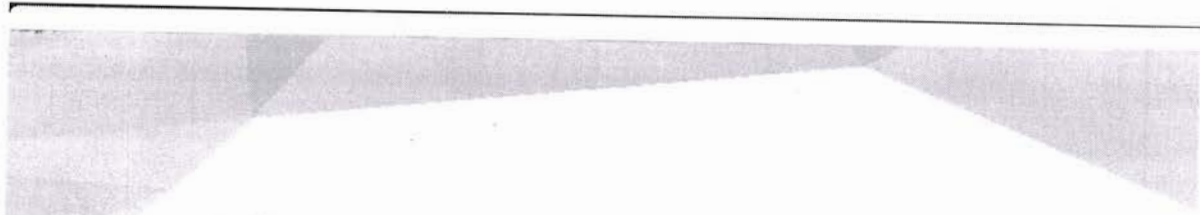
**Brief Report**

The Collaboration with Cogniz Info Tech, Palarivatam, Kochin and Department of Vocation Studies, Carmel College, Mala was for the promotion of Internship & Project.

| Sl. No | Project title                    | No. of students enrolled | Register Number | Name of the institution where internship is done |
|--------|----------------------------------|--------------------------|-----------------|--|
| 1.     | Find caller                      | Binsha Nasar             | CRAQBVW001      | Cogniz Info Tech, Palarivatam, Kochin            |
| 2.     | Police investigation" Be Secure" | Sismi                    | CRAQBVW006      | Cogniz Info Tech, Palarivatam, Kochin            |
| 3.     | My Slam book                     | Leenas                   | CRAQBVW008      | Cogniz Info Tech, Palarivatam, Kochin            |
| 4.     | Bus booking                      | Jyothi lakshmi           | CRAQBVW003      | Cogniz Info Tech, Palarivatam, Kochin            |



*A. Chacko*  
**Principal**  
Carmel College  
Mala



COCO MEDIA  
 Panangadi PO, Heppanahalli  
 Ernakulam, Kerala  
 Mob: +9447721671  
 Email : mediacocoi@gmail.com

CERTIFICATE OF PARTNERSHIP

We COCOi Media Hereby declare that we are ready to provide industrial partnership with Department of Vocational studies (B Voc) Carmel College Mala for providing internship, training sessions for the students of B.Voc. Multimedia.

For COCOi Media

Managing Partner

Vinu K John  
 Managing Partner



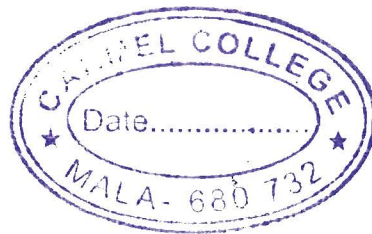
*S. Elizabeth*  
**Principal**  
**Carmel College**  
**Mala**

**MoU between RGB Media and Department of Vocation Studies,  
Carmel College, Mala**

**Date of Commencement: 02.07.2018**

**Date of Completion: 01/07/2022**

| <b>Sl. No</b> | <b>Activity</b>                 | <b>Year</b> |
|---------------|---------------------------------|-------------|
| 1             | Visiting Faculty from RGB media | 2018-19     |



*S. S. S. S.*  
**Principal**  
**Carmel College**  
**Mala**





**RGB MEDIA**  
We Re. Create Your Dream Moments

Date-08-01-2018

## CERTIFICATE OF PARTNERSHIP

We **RGB Media** hereby declare that we are ready to provide industrial partnership with the Department of Vocational Studies **B.Voc, Carmel College, Mala** for providing internship and training sessions for the students of **B.Voc Multimedia**.

We RGB Media is a production company that provides pre production to post production works such as Advertisements, Corporate Videos, Video Editing, Designing, Web Designing & Digital Marketing.



JITHU GEORGE  
CREATIVE HEAD  
RGB MEDIA, ERNAKULAM  
MOB: 9809030608

For RGB MEDIA



**Principal**  
**Carmel College**  
**Mala**

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