

Name : Dr. Cintil Jose Chirayil
 Designation : Asst. Professor
 Department : Chemistry
 Date of Joining : 28-12-2015
 Email : cintiljose@gmail.com
 Teaching Experience in years : 5
 Details of Promotions : 29-10-2020 (Date of eligibility of promotion)

Academic Credentials:

Examinations	Name of the Board/University	Year of Passing	Percentage of marks obtained	Division/Class/Grade	Subject
Undergraduate (UG)	MG University Kottayam	2004	77	First class	Chemistry
Post-Graduate (PG)	MG University Kottayam	2006	73	First class	Chemistry
B.Ed	MG University Kottayam	2008	77	First class	Physical Science
Ph.D	MG University Kottayam	2015	-	-	Chemistry
PDF	Centre for Advanced Materials, Qatar University	2014-2015	-	-	Advanced Materials

Areas of Interest/ expertise:

- ✓ Analysis, formulation, characterisation, and technology transfer of polymer nanocomposites, separation technologies, and bio-based polymers.
- ✓ Introduction of surface groups with specific functionalities using chemical, enzymatic and physical methods.
- ✓ Preparation and stabilization of nano- micro particles and their surface modification for advanced biomedical and technical applications.

Scopus ID or Any Other Research ID:

- ❖ <https://www.scopus.com/authid/detail.uri?authorId=56096253100>
- ❖ <https://orcid.org/0000-0003-2731-1418>
- ❖ <https://publons.com/researcher/3920416/cintil-jose/>
- ❖ Web of Science Researcher ID : AAZ-9998-2020

Subjects Taught: Organic Chemistry, Inorganic Chemistry

Institutional Responsibilities:

	<i>Type of Responsibility</i>	<i>Role Performed</i>
2016-2017	Chemistry Department	Staff secretary
	Equal Opportunity Centre	Coordinator
	Research Promotion Committee	Member
	Chemistry Department	Staff secretary
	Practical Exam bill and nominal roll	Co-coordinator
	Arts Fest	Coordinator for literary competitions
	2017-2018	Equal Opportunity Centre
Research Promotion Committee		Member
I BSc Chemistry		Tutor
Practical exam Bills		In Charge
Chemistry Department		Staff secretary
Prof. Jose Mary memorial Quiz		Co-coordinator
Placement Cell Chemistry Dept.		In- Charge
2018-2019	Walk with scholar	Coordinator
	Practical Exam Bill and Nominal Roll	In- Charge
	Student-Grievance redressal.	Coordinator
	One day national seminar	Coordinator
	V.A Mathew Memorial lecture	Coordinator
	Sr. Jose Mary memorial Quiz competition	Coordinator
	Placement Cell Chemistry Dept.	In- Charge
	Walk with scholar	Coordinator
	Tutor III BSc	Tutor
2019-2020	Walk with scholar	Coordinator
	Practical Exam Bill and Nominal Roll	In Charge
	International Seminar on Environmental awareness and incentives	Coordinator
	First BSc students	Class Tutor
	Research promotion council	Member.
	V. A Mathew Endowment Lecture	Coordinator
	Orientation to first year students	Coordinator
	Chemical and equipment Stock Monitoring	In Charge
	UGC files/Dept.Records	In Charge
	Walk with scholar	Coordinator
2020-2021	Orientation to first year students	Coordinator
	UGC files/Dept.Records	In Charge
	Chemical and equipment Stock Monitoring	In Charge
	Walk with a Scholar Programme	Coordinator

Awards and Recognitions: Nil

Member of Board of Studies or any other academic/ professional bodies: Nil

Membership in Subject Related Professional Associations: Nil

Editor Editorial Board member of Journals: Nil

Reviewer in journals:

- Surfaces and Interfaces (Elsevier)
- Fibers and Polymers (Springer)
- Journal of Industrial Textiles

Details of Research Guidance:

Sl.No	Name of Student	Date of Registration	U.O granting Registration
1.	Reeba Mary Cherian	16-08-2021	3923/AC AII/2021/MGU
2.	Rini Thresia Varghese	16-08-2021	3923/AC AII/2021/MGU
3.	Tijo Antony	16-08-2021	3923/AC AII/2021/MGU

Details of Patents Filed and Acquired : Nil

Research Projects: Nil

Research Publications:

- ❖ Scopus or WoS indexed journals or journals in UGC Care list

2016-2017	Cintil Jose, Jithin Joy, Sabu Thomas, and Srikanth Pilla. "Preparation and Characterization of Poly (butylene succinate) Bionanocomposites Reinforced with Cellulose Nanofiber Extracted from Helicteres isora Plant." Journal of Renewable Materials 4, no. 5 (2016): 351-364.
	Cintil Jose Chirayil, Asha Krishan, and George K.E, Sisal nanofibril reinforced polypropylene-polystyrene blends: Morphology, mechanical, dynamic mechanical and water transmission studies, Industrial Crops and Products, 71(2016) 173-184.

2017-2018	Cintil Jose, Jithin Joy, Lovely Mathew, Sabu Thomas, Srikanth Pilla., “The influence of nanocellulosic fiber, extracted from Helicteres isora, on thermal, wetting and viscoelastic properties of poly (butylene succinate) composites’ Cellulose 24 (120), 1-11., 2017
	Novel Anticoagulant from Date Palm Leaf/Cellulose Nano Whisker, International referred journal of Engineering and science, ISSN 2319-183X, 2018.
2020-2021	Cintil Jose Chirayil, Abhimanue Tharayil, Blessy Joseph and Sabu Thomas, A short review on nanotechnology Interventions against COVID-19, Emergent Materials (Springer) 2021 , https://doi.org/10.1007/s42247-021-00163-z
	Cintil Jose Chirayil, Chin Han Chan , Tan Winie and Sabu Thomas, Thermomechanical Analysis of Isora Nanofibril Incorporated Polyethylene Nanocomposites, Polymers 2021 13, 299. https://doi.org/10.3390/polym13020299
	Cintil Jose Chirayil, Tamilselvan Mohan, and Sabu Thomas Anticoagulant Activity of Cellulose Nanocrystals from Isora Plant Fibers Assembled on Cellulose and SiO ₂ Substrates via a Layer-by-Layer Approach, Polymers 2021 , 13, 939 https://doi.org/10.3390/polym13060939

Book chapters

2016-2017

1. Cintil Jose Chirayil, Jithin Joy, Hanna J. Maria, Igor Krupa, and Sabu Thomas, “ Polyolefins in Automotive Industry”, for the book: Polyolefin Compounds and Materials” Published by Springer, ISBN/ISSN: 978-3-319-25980-2, 2016
2. Cintil Jose, Merin Sara Thomas, B.Deepa, Laly A pothan and Sabu Thomas, “Nanocellulose-Based Bionanocomposites “ for the book: Advances in Polymer Materials and Technology, Published by Elsevier, ISBN: 9781498718813, 2016
3. Cintil Jose, Jithin Joy “Recycling of PVC waste by fabrication of A NBR–PVC Blend” for the book, “Engineering technologies for renewable and recyclable materials” edited by Jithin Joy, Maciej Jaroszewski, and Sabu Thomas and Published by Apple Academic press 2016

2017-2018

1. Cintil Jose, Jiji Abraham, Raghavendra Misra and Sabu Thomas, “Instrumental Techniques for the Characterization of Nanoparticles” for the book: Thermal and Rheological Measurement Techniques for Nanomaterials Characterization, Published by Elsevier, ISBN: 9780323461399, 2017.
2. Cintil Jose Chirayil, Raghvendra Kumar Mishra and Sabu Thomas, “Materials Recovery, Direct Reuse and Incineration of PET Bottles”, for the book: Recycling of Polyethylene Terephthalate Bottles, Published by Elsevier, ISBN: 978-0-12-811361-5, 2018.
3. Cintil Josr, Jithin Joy and Sabu Thomas “Applications of aerogels in Aerospace and packaging” for the book “ Biobased aerogels, Polysaccharide and Protein based materials” published by RSC in 2018

2018-2019

1. Cintil Jose Chirayil, Cincy George, Mahesh Hosur, Sabu Thomas, ‘Nanocellulose-Reinforced Unsaturated Polyester Composites: for the book: Unsaturated Polyester Resins, Fundamentals, Design, Fabrication, and Applications, Published by Elseveir, ISBN : 978-0-12-811361-5, 2019.
2. Cintil Jose Chirayil, B. Deepa , Laly A. Pothan and Sabu Thomas, Lignocellulose based nanoparticles and nanocomposites. Preparation, properties and applications for the book “Lignocellulose for Future Bioeconomy” Edited by Hidayah Ariffin, S M Saupan and Mohd Ali Hasan published by Elsevier in 2019.

2019-2020

1. Cintil Jose, Jithin Joy “ Polymer Nanocomposite Membranes for Pervaporation.” Edited by Sabu Thomas, Soney C George and Thomaskutty Jose published by Elsevier in 2020.<https://doi.org/10.1016/B978-0-12-816785-4.00002-1>
2. Cintil Jose Chirayil, Rubie Mavelil Sam, Merin Sara Thomas, Laly A. Pothan, and Sabu Thomas, “Nanocellulose-based Aerogels: Preparation, Properties and Applications”, for the book: Nanocellulose Aerogels, Published by Royal Society of Chemistry, accepted 2020.

3. Cintil Jose, Blessy Joseph, Sagarika V K, Nandakumar Kalarikkal, and Sabu Thomas, “Solvent-casting approach for design of scaffold and their potential application”, for the book : Functional Biomaterials: Design and Development for Biotechnology, Pharmacology, and Biomedicine, published by Wiley accepted 2020.
4. Cintil Jose, Sona John, Cincy George and Sabu Thomas, “Carbon nanotubes for energy applications” for the book :Carbon Nanotubes Science: Advanced Topics in Production, Properties, Synthesis and Application published by Apple Academy press Taylor and Francis accepted 2020.
5. Cintil Jose, Tijo Antony, Rini Thresia Varghese, Reeba Mary Cherian and Sabu Thomas, “Plasma Modification of Polyolefin for Packaging Industry” for the book: Plasma modification of polyolefins-Synthesis, Characterisation and Applications published by Springer accepted 2020.
6. Cintil Jose, Jithin Joy, Unnikrishnan T G , Lovely Mathew, Rani Joseph and Sabu Thomas , “Processing of vegetable fibers” for the book: Vegetable fiber composites and their technological applications, Published by Springer Nature accepted 2020.

Books Edited

- ❖ Unsaturated Polyester Resins, Fundamentals, Design, Fabrication, and Applications. DOI : <https://doi.org/10.1016/C2017-0-04622-0>, ISBN 978-0-12-816129-6, Edited by, Sabu Thomas, Mahesh Hosur and Cintil Jose Chirayil Published by Elsevier International publishing company in 2019.

Paper presentations in scientific conferences

2016-2017	International Seminar on Recent Advances in Solar Energy Applications 15 December 2016 at Post-Graduate Dept. of Chemistry, St. Teresa’s College ,Ernakulam	Paper Presentation
	Three day National seminar on 26 th Swadeshi Science Congress 7-9 November 2016	Paper Presentation
2017-2018	Malaysia polymer international conference (MPIC 2017) University of Kebangsaan Bangi, Malaysia	Paper Presentation
	Conference on Biomaterials for tomorrow organised by Mahatma Gandhi University and Stockholm University, Sweden	Paper Presentation

Participation in External Workshops/ Seminars/ Conferences

Academic Year	Name of the Conference/ Seminar	Venue & Date
2016-2017	International Seminar on Recent Advances in Solar Energy Applications	Post-Graduate Dept. of Chemistry, St. Teresa's College ,Ernakulam on 15 December 2016.
	Three day National seminar	26th Swadeshi Science Congress 7-9 November 2016
2017-2018	One day workshop for WWS coordinators	Layola College Trivandrum, 17.09.2018
	Malaysia polymer international conference (MPIC 2017)	University of Kebangsaan Bangi, Malaysia on 19-20 July 2017
	International Conference on Biomaterials for tomorrow	Organised by Mahatma Gandhi University and Stockholm University, Sweden On 7-8 June 2018
	National Seminar on "Trends in Green Chemistry"	Organized by St. Thomas College, Ranni. On 10 January 2018
2019-2020	Three days International workshop on Polymer Nanocomposites and Applications.	M.G University Kottayam From 30-12-2019 to 01-01-2020
	National Seminar on New Frontiers in Material and Environmental Sciences	S.H College, Thevara 28-01-2020
2020-2021	'Cryo-Electron Microscopy Of Biological Molecules' by Prof. Joachim Frank, 2017 Nobel Prize in Chemistry	Organised by the Post Graduate and Research Department of Chemistry, Mar Athanasius College(Autonomous), Kothamangalam, Kerala on 11 August 2020.
	National Education Policy 2020 and Higher Education in Kerala	Organized by Internal Quality Assurance Cell, St. Xavier's College for Women, Aluva in collaboration with Kerala State Higher Education Council on 11-08-2020.
	National Education Policy 2020 Reforming and Rejuvenating Teaching and Learning in Higher Education Institutions for the 21 st Century.	Organized by IQAC, Nirmala College Muvattupuzha on 08 August 2020

	Covid-19 Diagnosis: Fundamentals, Current Diagnostic Techniques and Future Directions.	Organized by Postgraduate and Research Department of Chemistry, Nirmala College Muvattupuzha on 22 August 2020.
	Crisis Management: When Alarming Floods and Covid-19 Encounters in Kerala	Organized by PG Department of Chemistry in association with IQAC, Deva Matha College Kuravilangadu on 13 th August 2020.
	Science and Spirituality	Organized by PG Department of Chemistry, St.Georges College Aruvithura On 26/08/2020
	Molecular biochemistry of insect identification and management”	International webinar Organised by Research and Postgraduate Department of Chemistry, Newman College, Thodupuzha on Friday, 27 August 2020.
	Nanocomposites as Advanced Functional Materials	International webinar Organised by Research and Postgraduate Department of Chemistry, Newman College, Thodupuzha on 28 September 2020.
	Nanomaterials in Energy Devices	International webinar Organised by Research and Postgraduate Department of Chemistry, Newman College, Thodupuzha On 21 August 2020
	“Unboxing NEP 2020”	Organised by Department of Chemistry and IQAC, Newman College, Thodupuzha in Association with Educational Technology- IIT Bombay on Saturday, 19 September 2020
	Polarized Raman Spectroscopy as a Probe in Investigating Aqueous Speciation and Acid Dissociation under Hydrothermal Conditions	Organized by the Postgraduate and Research Department of Chemistry, Newman College, Thodupuzha on Friday, 09 October 2020

Orientation / Refresher Programme/ FDP Attended

Name of the Course/Summer school	Name of Institution & Place	Duration	Sponsoring Agency
Orientation Programme	UGC- HRDC MANU, Hyderabad.	10-07-2018 to 6/08/2018	UGC
Refresher Course	University of Kerala	14/08/2020-27/08/2020	UGC

Academic Programmes Organized:**2016-2017**

	Type of Activity	Role Performed
1.	State level seminar in connection with Prof.V.A. Mathew memorial annual lecture	Organizing Committee member
2.	Prof. Jose Mary memorial Quiz	Coordinator
3.	One day seminar on How to become a scientist 25th Aug 2016	Organizing Committee member
4.	One day International seminar on Recent trends in hybrid material research 5th Oct 2016	Organizing Committee member
5.	One day Interactive Programme on Science Education - A European Perspective 2nd Oct 2016	Organizing Committee member

2017-2018

Sl.No	Type of Activity	Role Performed
1.	State level seminar in connection with Prof.V.A.Mathew memorial annual lecture	Organizing Committee member

2018-2019

Sl.No	Type of Activity	Role Performed
1.	Coordinator – One day national seminar on Recent Trends in Nanotechnology	Coordinator

2.	V.A Mathew Memorial lecture	Coordinator
3.	All Kerala Intercollegiate Elocution & Quiz competition	Associate Coordinator
4.	State level seminar in connection with Prof.V.A.Mathew memorial annual lecture on	Organizing Committee member

2019-2020

Sl. No	Type of Activity	Role Performed
1.	One day national seminar	Coordinator
2.	Prof.V.A.Mathew memorial annual lecture	Coordinator
3.	Sr. Jose Mary memorial Quiz Competition	Coordinator

2020-2021

Sl. No	Type of Activity	Role Performed
1.	International webinar on “Molecular biochemistry of insects identification and management” on 27th August 2020	Coordinator
2.	International webinar on “Nanomaterials for Energy devices” on 21th August 2020	Coordinator
3.	International webinar on “Nanocomposites as advanced materials” 28th Sepember 2020	Coordinator
4.	International seminar on “ Cyber safety and Effective Utilization of Smart Devices in a connected world” by Mr.Sangameswaran Iyer , International cyber security specialist and Speaker, USA On 25 October 2020 for WWS Students	Coordinator
5.	International seminar on “Discovering Your Happines” by Mr.Prasad Nair, Director, Childrens Aids Society, Toronto, Canada on 14 November 2020 for WWS Students	Coordinator

Details of MOOC Courses Completed: Nil

Any other relevant matters: Nil