



## SCOTT CHRISTIAN COLLEGE (Autonomous), Nagercoil.

### Department of Chemistry and Research Centre

Name : Dr.G.R.Bella  
Designation : Assistant Professor  
Qualification : M.Sc.,B.Ed.,M.Phil.,Ph.D  
Date of Birth : 25-01-1985  
Gender : Female  
Date of Appointment : 14-11-2018  
Mobile Number : 9629367030  
Email : grbella321@gmail.com  
Approved Guide by :02-06-2020  
Ongoing Research Scholars :



S.No	Name	Title	Reg. No.	Full time / Part time
1	GIRUBA N	Fabrication and Characterization of cellulose nanocrystals enriched bio-composites using agricultural by products	21213162032024 28-01-2022	Full Time
2	MUSHKHAN R	Synthesis and characterization of carboxy methyl cellulose based polymer composites for food packaging and bio medical applications	21213162032017 2-02-2022	Full Time
3	SREETHA M	Cellulose acetate incorporated nanocomposites: synthesis, characterization and applications	21213162032016 1-02-2022	Full Time
4	ABISHA P.M	Fabrication and characterization of natural	23113162032012 06-05-2023	Full Time



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		polymer based composites and its applications		
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#### Completed Research Scholars:

S.No	Name	Title	Completed year	Reg No	Full time / Part time

#### List of Publications:

1. Preparation and Characterization of Micro Crystalline Cellulose Fiber Reinforced Chitosan based Polymer Composites. Asian J. Research Chem. 8(7): July- 2015.
2. Morphological, Thermal and Water Absorption Properties of Polyvinyl alcohol/ZnO Nanocomposites. International Journal of Latest Trends in Engineering and Technology Special Issue - International Conference on Nanotechnology: The Fruition of Science-2017, pp.226 -232.
3. Studies on Novel Chitosan / Polyvinyl Alcohol Polymer Blends. International Journal of Innovative Research in Science, Engineering and Technology. Vol. 5, Issue 6, June 20.
4. Polyvinyl alcohol/Starch/Carboxymethyl cellulose ternary polymer blends: Synthesis, Characterization and Thermal properties. Int. J. Curr. Res. Chem.Pharm. Sci. (2016).3(6):43-50.
5. Thermal and morphological characteristics of cellulose nanocrystals filled PVA/starch nanocomposites. Journal of Chemical and Pharmaceutical Research, 2015, 7(8):928-934.
6. Synthesis, Characterization and Visible Light Induced Photocatalytic Activity of Metal Doped TiO<sub>2</sub>. Asian Journal of Research in Chemistry, Year : 2015, Volume : 8, Issue : 5
7. Influence of TiO<sub>2</sub> Nanoparticles on Morphological, Thermal and Water Absorption Properties of Polyvinyl Alcohol Films: Journal of Chemistry and Chemical Sciences, Vol.6(10),879-892, October 2016



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#### Project Details

1.

#### Seminar/Conference Organised:

S.No	Title	Seminar/ Conference	State level/ National/ International
1	Mr. M. George Third Endowment Lecture(29-03-2021)	Seminar	State
2	webinar on Phytochemicals in health promotion and disease prevention(24-07-2021)	Webinar	State
3	Online Poetry Competition(10-09-2021)	Competition	State
4	Innovation Research in Chemical Sciences(10-12-2021)	Online Conference	International
5	Prof. R. Nithyanandham Inaugural Endowment lecture(22-2-2022)	Seminar	State
6	PG Level Quiz Programme(19-04-2023)	Quiz Master	State
7	PG Level Quiz Programme(18-03-2024)	Quiz Master	State

#### Participation Details (Conference/Seminar/Workshop/Symposium)

Title/ Institution	Conference/ Seminar/ Workshop/ Symposium	Level: State/ National/ International	Status of Participation Presentation/ Participator	Year
Advanced Frontiers in Chemistry, WCC Nagercoil	Seminar	National	Participation	27-02-2017
Nanotechnology: The Frution of Science, NMCC Marthandam	Conference	International	Participation	15,16-02 2017



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Third international conference of KAAS, NMCC marthandam	Conference	International	Participation	28,29-9-2018
Conference on Ethics and values in Higher education, SCC Nagercoil	Conference	National	Participation	2-03-2019
Non-Power Applications of Nuclear Energy, SCC Nagercoil	Seminar	National	Participation	7,8-03-2019
Modern Trends in Chemical Sciences, SCC Nagercoil	Seminar	National	Presentation	19-03-2019
Workshop on Green and sustainable Chemistry, SCC Nagercoil	Workshop	State	Participation	6-02-2019
Group theory and its applications in chemistry, SCC Nagercoil	Seminar	National	Participation	1,2-08-2019
Sixth Parker Memorial Lecture, SCC Nagercoil	Seminar	State	Participation	19-08-2019
Preparation of simple chemical products, SCC Nagercoil	Workshop	State	Participation	6-09-2019
Climate action for peace, SCC Nagercoil	Seminar	State	Participation	21-09-2019
Workshop on outcome based Education, SCC Nagercoil	Workshop	State	Participation	29-11-2019
Research Methodology with special reference to plagiarism, SCC	Workshop	State	Participation	13-12-2019



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Nagercoil				
Innovative Research in Chemical Science, SCC Nagercoil	Conference	International	Presentation	16-12-2019
Regional workshop on Research based Pedagogical Tools, SCC Nagercoil	Conference	National	Participation	30,31,1-02-2020
Value Based education, SCC Nagercoil	Conference	National	Participation	13-03-2020
Good Teacher to great Teacher, ICT Academy	Webinar	National	Participation	14-05-2020
Virtual Teaching Learning Experience	Online FDP(Two days)	State	Participation	29,30-07-2020
Elemental Arts: Evolution of Modern Periodic Table	Online Course(Two days)	State	Participation	1,2-05-2020
Online Induction Programme	Online Course(Four weeks)	National	Participation	4-06-2020 to 1-07-2020
Design Thinking on Sustainable Energy Conversion Devices	Webinar	State	Participation	13-01-2021
Role of Nano structured materials in Addressing the challenges of the 21 <sup>st</sup> century	Webinar	State	Participation	14-07-2020
Mr.K.M.George – Second Endowment Lecture	Seminar	State	Participation	6-02-2020
Futuristic Perspectives of Nano materials in	Online FDP(Two	State	Participation	11,12-05-2020



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Bio medical applications and energy storage devices	days)			
Introduction to co-ordination chemistry	Online Course(one week)	National	Participation	15to20-05-2020
Channelizing Innovation and Entrepreneurship Through ICT Tools	Online FDP(Five Days)	State	Participation	12 to 16-06 2020
Managing Online classes and Co creating MOOCS 2.0	Online FDP(Two weeks)	National	Participation	18-05to 3-06-2020
Hands on exposure in GChemPaint and LibreOffice Suite Writer	Online FDP(one week)	National	Participation	4 to 10-05 2020
Role of surfactants in Covid-19	FDP	State	Participation	8-05-2021
Phytochemicals in health promotion and disease prevention	Webinar	State	Organized	24-07-2021
How to strengthen our innovation through intellectual property rights	Webinar	State	Participation	21-06-2021
Skill development programme on chemistry from labs to industry	Online course	State	Participation	10-07-2021
Synthesis, Characterization and applications of Novel materials	Online FDP(One week)	National	Participation	2-08-2021 to 06-08-2021
Covid-19 Pandemic-Prevention and vaccination	Webinar	State	Participation	21-05-2021
Scientific writing with focus on writing research	Online Talk	National	Participation	29-06-2021



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proposal for acquiring funds and grants				
Reconnecting Mentor-Mentee in Pandemic	Online workshop	State	Participation	24-05-2021
Innovations, Research and Intelluctual Property Rights	Online workshop	National	Participation	30-06-2021
Recent Trends on applications of chemistry in Engineering	E-Symbosium	National	Participation	4 to 6-06-2021
Managing Online Classes & Co-creating MOOCS 2.0	FDP(Two weeks)	National	Participation	18-05 to 3-06-2020
Online Tools for Research & Analysis	FDP(one week)	National	Participation	8 to 14-06-2021
Evaluation of outcome attainment	Practical Session	State	Participation	22-03 2021
Mr.M.George Endowment Lecture	Seminar	State	Participation	29-03-2021
Innovation Research in chemical Sciences	Online International Conference	International	Presentation	10-12-2021
Prof.R. Nithyanadham Inaugral Endowment Lecture	Seminar	State	Participation	22-02-2022
Scope of Herbal Technology Startups	workshop	National	Participation	25-02-2022
Mr.M.George Endowment Lecture	Lecture	State	participation	29-04-2022
Faculty orientation programme	Orientation	IQAC	Participation	19-07-2022



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AKAM-ANU Awareness Programme	Awareness programme	National	participation	10,11-08-2022
HRDC Orientation Programme on Transforming Education	Orientation	State	Participation	28-11-2022
International Conference on integrated disciplines for sustainable development	Conference	International	Organizing committee member	23,24,25-02- 2023
The U-TURN	FDP	State	Participation	25-03-2023
Mr.M.George Fifth Endowment Lecture	Lecture	State	participation	05-04-2023
Leadership Programme for student Leaders	Seminar	State	Organizing committee member	18-04-2023
National Conference on Bio-Materials	Conference	National	Participation	21-04-2023
Seminar on Stem cell for Regenerative Therapy	Seminar	State	Participation	31-08-2023
Risk Assessment Using Monte Carlo Multiple Probability Simulation	Workshop	National	Participation	15,16-12-2023
International Conference on Biomaterials, Biode gradables and Biomimetics	Conference	International	Participation	23-01-2024
Prof. Nithyanandham Third Endowment Lecture	Seminar	State	Participation	27-03-2024





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#### Paper Presented

Title	Seminar/Conference	Date
Characterizational Studies of starch Isolated from Agricultural By-products	International Conference on Innovative Trends in functional nanomaterials for sustainable development	16-02-2024
Studies on Sodium alginate- Cellulose Acetate Bio-Composites	International conference on Biomaterials, Biodegradables and Biomimetics	23-01-2024
Synthesis and characterization of Guar Gum based polymer blends	International conference on Biomaterials, Biodegradables and Biomimetics	23-01-2024
Synthesis and characterization of starch-polyvinyl Alcohol Bio-composite films	International conference on Biomaterials, Biodegradables and Biomimetics	23-01-2024
Preparation and characterization of carboxymethyl cellulose	National Conference on Innovative Research in Medicinal Chemistry	10-02-2023
Synthesis and characterization of Cellulose Acetate	National Conference on Innovative Research in Medicinal Chemistry	10-02-2023
Characterization, solubility, water absorption studies of cellulose from renewable biomass	National Conference on Biomaterials	21-04-2023
Isolation, characterization and antibacterial activity of cellulose nanocrystals from agrowaste produced by acid hydrolysis	National Conference on Biomaterials	21-04-2023
Isolation and characterization of cellulose from the leaves of Artocarpus heterophyllus	National Conference on Biomaterials	21-04-2023
Preparation of biodegradable plastic from sweet potato	Prof. Nithyanandham second Endowment Lecture	27-01-2023



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Preparation and Characterization of Bio-plastic from Banana peels	Online International Conference	10-12-2021
Preparation and Characterization of Bio-plastic from Corn starch	Online International Conference	10-12-2021
Isolation and Characterization of Cellulose from Areca Catechu waste	Online International Conference	10-12-2021
Synthesis and Characterization of Polyaniline/Ag-TiO <sub>2</sub> /Clay Polymer Nano composites	National Seminar on Modern Trends in Chemical Sciences	19-03-2019
Synthesis and Characterization of carboxymethyl cellulose based polymer blends	International Conference on Innovative Research in Chemical Science	16-12-2019
Agricultural waste fibers towards sustainability and advanced utilization	International Conference on Innovative Research in Chemical Science	16-12-2019
Synthesis and Characterization of visible light induced Photocatalytic Activity of Doped TiO <sub>2</sub> Nanoparticles	National Seminar on Newer Innovations in Chemistry	30,31-01-2014
Synthesis, Characterization and visible light induced photocatalytic activity of Ag and Cu doped ZnO Nanoparticles	National Conference on Advances in Chemical and Nuclear Technology	13,14-02-2014

#### Served as Doctoral Committee Member:

- 1.
- 2.

#### Orientation/ Refresher

1. UGC sponsored Live online Induction Programme at University of Kerala, Kariavattom, from 06-09-2021 to 5-10-2021
2. UGC sponsored online Refresher Course in Chemistry Conducted by the UGC-HRDC, Bharathiar University, from 07-10-2022 to 20-10-2022.
3. UGC sponsored Refresher Course in Environmental Sciences and Sustainable Development Conducted by the UGC-HRDC, University of Kerala, Kariavattom, from 05-01-2024 to 18-01-2024.

#### Served as Resource Person:



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**Additional Responsibilities:**

1. HRDC- Committee Member

2. Mentor