



FACULTY PROFILE

Name	DR SAINO HANNA VARGHESE
Designation	ASSOCIATE PROFESSOR
Department	CHEMISTRY

PERSONAL DETAILS

Date of entry into permanent service	06.07.2011
Total teaching experience as on 01 NOVEMBER 2025	14 YEARS 4 MONTHS
Age and Date of Birth	42, 03.03.1983
Residential Address	THURUTHEL BETHANYA, PODIYADI P.O., THIRUVALLA, PATHANAMTHITTA. PIN: 689110
Address for Correspondence	THURUTHEL BETHANYA, PODIYADI P.O., THIRUVALLA, PATHANAMTHITTA. PIN: 689110
E-mail (Personal and Official)	sainoshiju@gmail.com , sainohv@catholicatecollege.ac.in

ACADEMIC QUALIFICATIONS

Degree	Subject	Institution and University	Grade/ Rank etc.
UG	CHEMISTRY	ST. ALOYSIUS COLLEGE, EDATHUA/ MAHATMA GANDHI UNIVERSITY	97.3% FIRST RANK
PG	ORGANIC CHEMISTRY	SCHOOL OF CHEMICAL SCIENCES, MAHATMA GANDHI UNIVERSITY	81.3% FIRST RANK



Ph D	BIO-NANO SCIENCE FUSION	GRADUATE SCHOOL OF INTERDISCIPLINARY NEW SCIENCE, TOYO UNIVERSITY, JAPAN	
------	------------------------------------	---	--

COLLEGE LEVEL DUTIES / MAJOR CHARGES

Duty	Position	Duration
HEAD OF THE DEPARTMENT	HEA, chemistry	2023-TILL DATE
College Council	Member	2023- till date
IQAC	Member	2024-till date
UGC planning board	Member	2024-till date
Purchase Committee	Member	2024-till date
Research Advisory Committee	Member	2024-till date
PM-USHA Board of Governance	Member	2025-till date
Gender Justice Forum	Chairperson	2024-till date
Intellectual Property Rights Committee	Member	2024-till date
DMP & MEMA Hostel for Ladies	Member	2024-till date
Cath Centre for Life skills Development	Deputy Head	2024-till date
NAAC Steering Committee	Member	2024-till date
Website Committee	Convenor	2022-23
AISHE	Member	2022-23
Massive Online Open Course	Member	2022-23
Service Care Committee	Member	2022-23



Debating Forum	Member	2017-21
Parent Teacher Association	Member	2019-21
Quiz Club	Convenor/ Member	2020-21 & 2017-20
Remedial Classes	Member	2016-21
Departmental Association	Secretary	2016-19

POSITIONS HELD/ AWARDS/ RECOGNITIONS/ MAJOR ACHIEVEMENTS

Name	Details
First Rank	2003- First Rank in BSc Chemistry from M.G. University, Kerala
First Rank	2005- First Rank in MSc Organic Chemistry from M.G. University, Kerala
Mext Scholar	2008- Received Prestigious Monbukagakusho Fellowship for Research studies in Japan from Ministry of Education, Govt. of India & Ministry of Education, Culture, Sports, Science and Technology, Japan
Board Of Studies Member	2017-2021 PG Chemistry under the Faculty of Science, University of Kerala 2017-21 UG Biochemistry, Mahatma Gandhi University, Kerala 2021-till date UG Chemistry, Mahatma Gandhi University, Kerala
PG Polymer Chemistry Examination Board	Chairman 2023-till date , Mahatma Gandhi University, Kerala
MGU-UGP Expert Committee Member	2024-till date , Mahatma Gandhi University, Kerala
Syllabus Revision Committee Member	2018 UG syllabus revision, Mahatma Gandhi University, Kerala 2023- MGU-UGP syllabus committee, Mahatma Gandhi University, Kerala
Question Paper Setter	2020- PG Organic Chemistry- S B College, Changanassery
Question Bank Setter	2020 & 2021- PG CSS polymer chemistry, Mahatma Gandhi University, Kerala



RESEARCH AND CONSULTANCY

Year of Award of Ph.D.	2011
No. of Publications	10
No. of papers presented in Conferences, Seminars, Workshops and Symposia	7
No. of Minor Research Projects awarded/completed	1
Total amount of research grant awarded	1,90,000/-
Year of Award of Research Guideship	2023
No of Students as on 01.11.2025	1

RESEARCH PROJECTS

Name	Details	Amount
UGC Minor Project	Simulation of Carbon Nanotube based Biosensors Completed on 2016	1,90,000/-

PUBLICATIONS AND PRESENTATIONS

International/ National Publications	<ol style="list-style-type: none"> 1. Synergistic Targeting of Cancer and Associated Angiogenesis Using Triple-Targeted Dual-Drug Silica Nano formulations for Theragnostics. Small, Wiley Interscience, 2012, 8, No. 22, 3476–3489 2. Functionalized electrophoretic deposition of CdSe quantum dots onto TiO₂ electrode for photovoltaic application. Chemical Physics Letters 539–540 (2012) 197–203. 3. Nanotechnology Platforms; An Innovative Approach to Brain Tumor Therapy. Medicinal Chemistry, 2011, 7, 488-503
--	---



	<ol style="list-style-type: none"> 4. Aptamer-labeled PLGA nanoparticles for targeting cancer Cells. Cancer Nanotechnology, 2012;3(1-6) 5. Enhancement of Glucose sensing behaviour of Cobalt tetraphenyl porphyrin thin film using Single wall carbon nanotubes. Sensors and Materials, 2011, 23(6), 335-345. 6. Blood Compatibility of Surface Modified Poly(ethyleneterephthalate) (PET) by Plasma Polymerized Acetobromo-a-D-glucose. Journal Of Biomaterials Applications, 2010, 24, 528-544 7. Nanoparticulate material delivery to plants. Plant Science, 179 (2010) 154–163. 8. Two-Dimensional Materials for Sensing: Graphene and Beyond. Electronics, 2015, 4, 651-687. 9. Evaluation of Antithrombogenicity and Hydrophilicity on Zein-SWCNT Electrospun Fibrous Nanocomposite Scaffolds. International Journal of Biomaterials, Volume 2012, Article ID 345029, 10 pages 10. Sensors Based on Carbon Nanotubes and Their Applications: A Review. Current Nanoscience, 2010, 6, 331-346.
<p>Paper Presentations (International/ National)</p>	<ol style="list-style-type: none"> 1. Presented a paper entitled “Functionalized Carbon nanotubes for Biosensing” in International Conference “Trends in Nanotechnology” held in Barcelona, Spain in 2009. 2. Presented a paper entitled “Carbon nanotubes for Biosensing Applications” in International Conference held in Tokyo, Japan in 2010. 3. Presented a paper entitled “Two dimensional nanomaterials for sensing applications” in a National Conference at Kerala in 2015.

WORKSHOPS /SEMINARS/ CONFERENCES ORGANISED

Position	Details



Convenor	Two day International Conference on Emerging Trends in Advanced Functional Materials, ETAFM 2022 organized by Department of Chemistry, Catholicate College, Pathanamthitta in collaboration with St Alberts College, Ernakulam & Akay Natural Ingredients Pvt Ltd from August 11-12, 2022.
Co-ordinator	One day National Seminar in Resurgence of Molecular Photovoltaics organized by Department of Chemistry, Catholicate College, Pathanamthitta on 24 th June 2022.
Co-ordinator	One day International Webinar in Nanotechnology in Personalized Medicine organized by Department of Chemistry, Catholicate College, Pathanamthitta on 24 th September 2021.
Co-ordinator	One day International Webinar in Insight into Reaction Mechanisms organized by Department of Chemistry, Catholicate College, Pathanamthitta on 11 December 2020.
Co-ordinator	One day International Webinar in Nano-Drug Delivery: Concepts & Applications on 18 December 2020.
Co-ordinator	One day Symposium on Computational Chemistry organized by Department of Chemistry, Catholicate College, Pathanamthitta on 10 January 2020.
Convenor	Two-day National Seminar on Energy Materials and Environment sponsored by KSCSTE on June 13 and 14, 2024
Convenor	Two day National Seminar on Awareness and Action on Climate Change: An Intertwined pathway between Science and Literature sponsored by KSICL on December 4 and 5, 2024

WORKSHOPS /FDP/ORIENTATION/REFRESHERCOURSES ATTENDED

Name	Details
One-week online Faculty Development Programme	Hands on Training on Learning Management System (Moodle) organised by the Faculty Development Centre of the Kerala State Higher Education Council in association with the Digital University of Kerala during 11th to 17th May 2022
Faculty Development Programme	Two-day workshop on Outcome based Education Training from 20 th to 21 st May 2022, conducted at Catholicate College Pathanamthitta in association with Kerala state Higher Education council (KSHEC) and MG University.



IP Awareness Training Programme	Participated under Intellectual Property Mission on February 4, 2022 organised by Intellectual Property Office, India
One day Workshop	One day Workshop on Techniques in Chemistry, CHEMSPARK-2022 organized by PG Dept. of Chemistry Catholicate College, Pathanamthitta and All Kerala Chemistry Teachers Association (CHEMTAK), Pathanamthitta district committee.
Online Training on Virtual Labs for Experiential Learning	Online Training on Virtual Labs for Experiential Learning organized by the department on 30th October, 2021 on Zoom Online Platform in association with the National Institute of Technology (NITK), Karnataka.
One day Workshop	Workshop on Microscale Experiments in Inorganic and Organic Chemistry for college and Higher Secondary School Teachers organized by the department on 6th November, 2021 in collaboration with S. T. Hindu College, Nagercoil
Faculty Development Programme	Two-week Faculty Development Programme on Chemistry- The Catalyst for Change organized by Teaching Learning Centre, Ramanujan College, Delhi under the aegis of Ministry of Education, Govt of India from 14 July- 28 July 2020.
Faculty Development Programme	LaTeX document preparation organised by Department of Physics, Marthoma College, Thiruvalla in association with Spoken Tutorial IIT Bombay under PMMMMNMTT scheme during 17-21 August 2020.
Two-week MOOC Course	Two-week MOOC Course on Online learning and Content Development from 18th April -2nd May 2020, organized by Flair Kerala, Directorate of Collegiate Education, Kerala
Refresher Course	UGC sponsored refresher course in Curriculum Design, Implementation and Learning Outcome organized by HRDC, University of Kerala from 31-01-2020 to 13-02-2020.
ANY OTHER RELEVANT INFORMATION	

Name and Signature of Teacher with date