

□ HOLY CROSS COLLEGE (AUTONOMOUS)
NAGERCOIL
PROFILE

PERSONAL INFORMATION

Name : Dr. P. AJI UDHAYA, M.Sc., M.Phil., SET., PGDCA.,
Ph.D.

Gender : FEMALE

Department : PHYSICS

Designation : ASSISTANT PROFESSOR

Date of Birth : 02/04/1990

Date of Joining : 16/06/2016

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EDUCATIONAL QUALIFICATION (From Degree to Recent Degree)

Name of the Degree	Specialization	Year of Passing	Name of the Institution	Name of the University	% of marks/G rade	Class
B. Sc	Physics	2010	Holy Cross College, Nagercoil	Manonmani am Sundaranar University	94	First-class with special distinction
M. Sc	Physics	2012	Holy Cross College, Nagercoil	Manonmani am Sundaranar University	87	First-class with distinction
M.Phil	Physics	2013	Loyola College, Chennai.	Madras University	81	First-class with distinction
PGDCA	Computer Applications	2018	Annamalai University	Annamalai University		

Qualified SET exam in August 2017 (Mother Teresa University)

Academic Distinction

v Secured First Rank in B.Sc., M.Sc., and M.Phil. programs

v Achieved Second Rank in Part I Tamil during the Undergraduate Program

v Achieved Second Rank in Part II English during the Undergraduate Program

v Best Outgone Student in B.Sc. and M.Sc. Physics

v Recognized as the Best Outgoing Student in B.Sc. and M.Sc. Physics.

ACADEMIC EXPERIENCE

Name of College	Whether Govt/Aided/S.F	Designation	Joining Date	Relieving Date	Years	Months	Days
St. Joseph College of Engineering	S.F	Assistant Professor	05/08/2013	15/06/2016	2	10	5
Holy Cross College, Nagercoil	S.F	Assistant Professor	16/06/2016	27/12/2020	4	6	11
Holy Cross College, Nagercoil	Aided	Assistant Professor	28/12/2020	Till date			

REVIEWER IN JOURNALS

1. Journal of Inorganic and Organometallic Polymers and Materials (Springer)

2. Solid State Communications

3. Advanced Materials Letters

4. International Journal of Biochemistry Research & Review

5. Journal of Pharmaceutical Research International

6. Asian Journal of Advanced Research and Reports

7. Current Journal of Applied Science and Technology

RESEARCH ARTICLES PUBLISHED IN JOURNALS (International / National)

S. No.	Title of the article	Journal Name	International / National	ISSN No.	Year of Public ation	Volume /Issue/ Page No.	Impact Factor
1	Growth and characterizati on of single crystals of pure and Ba(NO) ₃ doped glycine sodium nitrate	Edureflector	National	ISSN 2454-4086	2017	Vol.1 No.3, Pg.No. 49-52	-
2	Hydrotherma l synthesis and characterizati on of cobalt disulfide in	Edureflector	National	ISSN 2454-4086	2017	Vol.1 No.3, Pg.No. 46-48	-

	polymer matrix						
3	Synthesis Of Magnesium Ferrite By Co-Precipitation Method	Crossian Resonance	National	ISSN 0976-5417	June 2018	Vol.9 No. 1 Pg.No. 35-40	
4	Structural and Dielectric Properties of Cobalt Disulphide Synthesized in Polymer Matrix	Journal of Applied Science and Computations	International	ISSN NO: 1076-5131	October/2018	Volume 5, Issue 10, Pg. No. 71-76	5.8
5	Antibacterial Activity of nickel and magnesium substituted ferrite nanoparticles synthesized via self-combustion method	Materials Today: Proceedings	International	ISSN NO: 2214-7853	2019	Volume 8, Pg. No. 169-175	0.71

6	Albumen Assisted Green Synthesis of NiFe ₂ O ₄ Nanoparticles and their Physico-Chemical Properties	Materials Today: Proceedings	International	ISSN NO: 2214-7853	2019	Volume 9, Pg. No. 528-534	0.71
7	Green synthesis of MgFe ₂ O ₄ nanoparticles using Albumen as Fuel and their Physico-Chemical Properties	International Journal of Scientific Research in Physics and Applied Sciences	International	E-ISSN: 2348-3423	April 2019	Vol.7, Issue.2, pp.71-74	1.130
8	Spectroscopic investigation of supramolecular organometallic compound L-threonine cadmium acetate monohydrate	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	International	ISSN 1386-1425	March 2020	Vol. 228 Pp.1 - 6	2.931

9	Synthesis, Structural Characterization and Antibacterial applications of Calcium nanoparticles	Journal of Advanced Scientific Research	International	ISSN 0976-9595	March 2020	Vol. 11, Issue 1, pp. 83-87	5.32
10.	Growth And Characterisation of Pure and Magnesium Sulphate Doped Glycine Zinc Chloride Single Crystals	Journal of Advanced Scientific Research	International	ISSN 0976-9595	March 2020	Vol. 11, Issue 1, pp. 101-109	5.32
11	Effect of Zn ²⁺ on the structural, optical and magnetic properties of L-threonine cadmium acetate	Journal of Interdisciplinary Cycle Research	International	ISSN NO: 0022-1945	March 2020	Vol. 12, Issue 3, pp. 1-7	6.2

	monohydrate single crystal						
12	Enhanced linear and non-linear optical activity of lead onto l-threonine cadmium acetate crystal	Journal of Materials Science: Materials in Electronics	International	Electronic ISSN 1573-482X Print ISSN 0957-4522	May 2021	Vol. 32 No.10 Pp.1326 1-13268 https:// doi.org/ 10.100 7/s108 54-021- 05881-y	2.478
13	Albumen-media ted Green Synthesis of ZnFe_2O_4 Nanoparticles and Their Physico-Chemi cal Properties	Jordan Journal of Physics	International	ISSN: 1994-7607 e-ISSN: 1994-7615	Dece mber 2021	Vol. 14 No. 5 445 - 449	0.33
14	Albumen Assisted Synthesis of Nanocrystalline Nickel Ferrite Photocatalyst	Jordan Journal of Physics	International	ISSN: 1994- 7607 e-ISSN: 1994-7615	Dece mber 2021	Vol. 14 No. 5 437 - 444	0.33

15	Hydrothermal Synthesis and Characterization of Tin Oxide (SnO ₂) Nanoparticles	Journal of Environmental Nanotechnology	International	eISSN 2319-5541 Print ISSN 2279-0748	Feb 2020	Vol 9 No. 2 15-19	
16	Enhancement on the electrical and optical behaviour of ZnFe ₂ O ₄ nano particles via transition metal substitution	Materials Today: Proceedings	International	ISSN NO: 2214-7853	2022	Volume 64, Part 5, Pg. No. 1671-1678	0.71
17	Copper Ferrite nanoparticles synthesised using a novel green synthesis route: Structural development and photocatalytic activity	Journal of Molecular Structure	International	ISSN NO: 0022-2860	2023	Volume 1277 , 5 April 2023, 134807 (1-7) https://doi.org/10.1016/j.molstruc.2022.134807	3.841

18	Investigation on the effect of Potassium on the structural, optical and thermal properties of the L-Threonine Cadmium acetate: Elucidation of organo-cadmium compound for dielectric filters	Journal of Materials Science: Materials in Electronics	International	Electronic ISSN 1573-482X Print ISSN 0957-4522	2023	Vol 34 https://doi.org/10.1007/s10854-022-09620-9	2.478
19	Facile Synthesis of Ni ²⁺ Doped MgFe ₂ O ₄ Spinel Nanoparticles: Structural, Optical, Magnetic, and Dielectric Behavior	Journal of Inorganic and Organometallic Polymers and Materials	International	Electronic ISSN 1574-1451 Print ISSN 1574-1443	2023	https://doi.org/10.1007/s10904-023-02820-8	3.518

20	Albumen mediated green synthesis of Copper Ferrite Nanoparticles	Crossian Resonance	National	ISSN 0976-5417	December 2024	Vol. 13 No. 2 Pg.No. 57-62	
21	PANI/Zn-Cu ferrite polymer composites as free-standing high dielectric materials	Polymers Advanced Technologies	International	1099-1581	December 2023	Vol. 35 (1), Pg. No. 2 - 15, 2023.	0.55
22	Synthesis and Exploring structural, magnetic, morphology and optical properties of $\text{La}_{2-x}\text{Al}_x\text{CuO}_4$ ($0 \leq x \leq 0.25$) perovskite nanoparticles by microwave-assisted combustion method	Journal of Ovonic Research	International	1584-9953	March 2024	Vol. 20, No. 2, p. 143 - 153	1.165

23	Structural, Magnetic, Morphology, optical and vibrational properties of In substituted La ₂ CuO ₄ Nanoparticles	Journal of Superconductivity and Novel Magnetism	International	15571939	May 2024		
24	Effect of Al ³⁺ substitution on structural, morphological, magnetic, optical, and functional study of ZnFe ₂ O ₄ nanoparticles	AIP Advances	International	2158-3226	Feb 2025	Vol. 15, No. 2, p. 025107 1 - 11	1.4

**RESEARCH AND OTHER ARTICLES PUBLISHED/ PRESENTED IN SEMINAR (P)
/CONFERENCE PROCEEDINGS (Pro) /ABSTRACTS (A)**

S. No.	Name of Seminar/ Conference	Title of the paper presented	Venue/ Sponsor	Conference Date	Page No	ISBN No/ if any
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1	XVI National Seminar on Crystal Growth (P, A)	Growth and Characterisation of Pure and Sodium Nitrate doped Potassium dihydrogen Phosphate single crystals	Dept. of Physics, Aditanar College of Arts and Science TNSCST, DRDO, BRNS	19/01/2012 & 20/01/2012	35	
2	XVI National Seminar on Crystal Growth (A)	Studies on Lithium Sulfate doped Potassium dihydrogen Phosphate single crystals	Dept. of Physics, Aditanar College of Arts and Science TNSCST, DRDO, BRNS	19/01/2012 & 20/01/2012	55	
3	A multidisciplinary National Conference on Current Trends in Science and Humanities (A, P)	Growth and Characterization of Pure and Sodium Nitrate doped Potassium dihydrogen Phosphate single crystals	Crossian Research Forum, Holy Cross College, Nagercoil.	10/02/2012	38&39	

4	National Seminar on Advances in Material Science (Pro)	Studies on Growth and Characterization of Pure and Magnesium Nitrate doped Glycine Sodium Nitrate Single Crystals	Dept. of Physics, Manonmaniam Sundaranar University	2/3/2017 & 3/3/2017	Pg. No. 64-67	ISBN 978-93-81402-40-5
5	National Seminar on Advances in Material Science (Pro)	Synthesis of Nickel Ferrite by EDTA assisted Co Precipitation method	Dept. of Physics, Manonmaniam Sundaranar University	2/3/2017 & 3/3/2017	Pg. No. 69-71	ISBN 978-93-81402-40-5
6	National Seminar on Radical Revolution in Higher Education Institutions for Sustainable Development (Pro, P)	Education for 21 st century: Now and into the Future	IQAC, Holy Cross College Nagercoil UGC	21.01.2017		
7	International Conference on Innovation in Research and Pedagogy (P)	Hydrothermal synthesis and characterization of cobalt	Crossian Research Forum, Holy Cross College, Nagercoil	03.03.17 & 04.03.17	-	-

		disulfide in polymer matrix				
8	International Conference on Materials for Energy and Environment (P, A)	Antibacterial Activity of Transition Metal Substituted Ferrites prepared via Self Combustion Method	Loyola Institute of Frontier Energy, Loyola College, Chennai. & DST-SERB	22/02/2018&23/02/2018	P-18&19	-
9	National Seminar on Recent Trends in Material Science (P,A)	Synthesis and Magnetic Properties of Nanocrystalline Magnesium Ferrite prepared via green synthesis route using egg white	Department of Physics, Sadakathullah Appa College, Tirunelveli & UGC	9/3/2018	p-5	-
10	International Conference on Green Methods for Separation, Purification and Nanomaterial Synthesis	Albumen Assisted Green Synthesis of NiFe_2O_4 Nanoparticles and their	Centre for Nano and Material Science, Jain University, Bangalore.	24/05/2018&25/05/2018	P-142	-

	(P,A)	Physico-Chemical Properties.				
11	National Seminar on Recent Trends in Material Science (P,Pro)	Synthesis, Structural and Magnetic Properties of Magnesium Ferrite Nanoparticles	Department of Physics, M. S University, Tirunelveli & UGC-SAP: DRS-II	28/06/2018 & 29/06/2018	Pg.No . 7&8	ISBN: 978-93-81402-55-9
12	International Conference on Nanomaterials for Energy Storage Devices (P,Pro)	Egg white Mediated Synthesis and Magnetic Properties of Nickel - Magnesium Ferrite Nanoparticles	Department of Physics, Holy Cross College, Nagercoil.	27/08/2018	Pg. No. 51-54	ISBN 978-93-5321-720-4
13	International Conference on Frontiers in Analytical and Clinical Chemistry- Nanomaterials for Medical Theranostics (P, A)	Ovalbumin assisted Green synthesis of $MgFe_2O_4$, Nanoparticles and their structural, optical and dielectric Properties	Department of Nanotechnology, Noorul Islam Centre for Higher Education	24/01/2019 & 25/01/2019	Pg. No. 45	-

14	Functional Materials and Nanotechnology (Pro)	Green synthesis of Nickel Oxide Nanoparticles using leaf extract of Lawsonia Inermis (henna)	Department of Physics, Annai Velankanni College, Tholayavattam	25/01/2019	Pg.No . 27-33	ISBN: 978-93-5346-855-2
15	Functional Materials and Nanotechnology (Pro)	Synthesis and structural characterization of Calcium nanoparticles	Department of Physics, Annai Velankanni College, Tholayavattam	25/01/2019	Pg.No . 112-117	ISBN: 978-93-5346-855-2
16	Frontiers in Physics (Pro)	Green Synthesis of Copper Oxide nanoparticles using Henna leaf extract	Women's Christian College, Nagercoil.	13/03/2019	Pg. No. 17-19	ISBN: 978-93-84734-71-6
17	Frontiers in Physics (Pro)	Antibacterial Applications of Calcium nanoparticles	Women's Christian College, Nagercoil.	13/03/2019	Pg. No. 20- 22	ISBN: 978-93-84734-71-6

18	Materials in Sustainable Chemistry (Abs)	Egg White Mediated Synthesis and Structural properties of nanocrystalline Nickel Ferrite.	Department of Chemistry, Sadakathullah Appa College, Tirunelveli & UGC	27/09/2019 & 28/09/2019	Pg. No. 7	ISBN: 978-81-938054-1-1
19	Innovative Trends in Chemistry (P,A)	Egg white Mediated Synthesis and Characterization of Zinc Ferrite Nanoparticles	Department of Chemistry, Holy Cross College, Nagercoil.	4/10/2019	Pg. No. 4	-
20	International Conference on Multidisciplinary Research in Global Challenges and Perspectives of Sustainable Development (P, Pro)	Structural, Optical and Magnetic Properties of Zinc Doped Organometallic Crystal	St. Jerome's College, Nagercoil	21/12/2019	Pg. No. 38-44	ISBN: 978-81-934604-9-8
21	International Conference on Recent Advances in	Green Synthesis of Zinc Ferrite Nanoparticles	PG & Research Dept. of Physics,	21/01/2020	Pg. No. 15	

	Material Science (P,A)	and their structural and magnetic properties	The New College, Chennai			
22	International Conference on Recent Advances in Material Science (A)	Effect of nickel on structural and optical properties of organometallic crystal	PG & Research Dept. of Physics, The New College, Chennai	21/01/2020	Pg. No. 14	
23	International Conference on Recent Advances in Material Science (A)	Effect of annealing temperature on structural properties of Tin Oxide (SnO ₂) Nanoparticles	PG & Research Dept. of Physics, The New College, Chennai	21/01/2020	Pg. No. 18	
24	National Conference on Scientific Approaches to Multidisciplinary Research (Pro)	Growth and optical properties of cobalt doped L-Alanine crystal for optoelectronic applications	Crossian Research Forum, Holy Cross College, Nagercoil	29/02/2020	Pg.No . 72	ISBN: 978-81-941608-4-7

25	National Conference on Scientific Approaches to Multidisciplinary Research (P, Pro)	Synthesis, Structural and Magnetic Properties of Zinc Ferrite Nanoparticles	Crossian Research Forum, Holy Cross College, Nagercoil	29/02/2020	Pg.No . 76	ISBN: 978-81-941608-4-7
26	International Conference on Novel Materials for Evolving Technological Applications (P,A)	Investigations of Structural, Optical and Magnetic Properties Of Nickel Ferrite Nanoparticles by Egg White Mediated Combustion Technique	Department of Physics, Holy Cross College, Nagercoil.	02/03/2020	Pp. 11	ISBN 978-81-941608-5-4
27	International Conference on Novel Materials for Evolving Technological Applications (A)	Albumen Assisted Synthesis of Copper Zinc Ferrite Nanoparticles	Department of Physics, Holy Cross College, Nagercoil.	02/03/2020	Pp. 18	ISBN 978-81-941608-5-4

28	International Conference on Novel Materials for Evolving Technological Applications (A)	Synthesis and Characterization of $\text{Cu}_{0.75}\text{Zn}_{0.25}\text{Fe}_2\text{O}_4$ Nanocomposites Via Auto Combustion Method using Egg White	Department of Physics, Holy Cross College, Nagercoil.	02/03/2020	Pp. 21	ISBN 978-81-941608-5-4
29	International Conference on Novel Materials for Evolving Technological Applications (A)	Growth and Characterization of Cobalt Doped l-Alanine Semi Organic Crystal	Department of Physics, Holy Cross College, Nagercoil.	02/03/2020	Pp. 45	ISBN 978-81-941608-5-4
30	International Conference on Novel Materials for Evolving Technological Applications (A)	Albumen Assisted Synthesis of Nanocrystalline Copper Ferrite Photocatalyst	Department of Physics, Holy Cross College, Nagercoil.	02/03/2020	Pp. 59	ISBN 978-81-941608-5-4
31	Second International Conference on Crystal	Growth and Characterization of binary mixed crystals of	Indian Institute of Technology, Karagpur.	19-20 June, 2020	Pp. 55	

	Engineering: From Molecule to Crystal (P)	Calcium Barium Tartrate	(A virtual meeting)			
32	National Web Conference on Challenges and Innovation in Engineering and Technology 2021 (P)	Structural and Functional Group Analysis of Sodium Sulphate doped L- Alanine crystal	Ramco Institute of Technology , Rajapalaya m (Web conference)	19 - 20 March 2021		
33	2nd International Symposium on Modeling of Crystal Growth Processes & Devices (MCGPD-2021)	Egg White Mediated Synthesis And Characterization Of Copper Ferrite Nano Crystals	SSN Research Centre (SSNRC), Chennai, India	05 – 08 July 2021	Pg. 312	
34	Recent Research Trends in Physics Chemistry and Mathematics (P)	Mechanistic Studies of Photocatalytic Behavior of Copper Ferrite nanoparticles	VTMNSS College, Kerala (Online)	24 - 26 March 2022		

35	International Conference on Materials - Properties, Measurements and Applications ICMPTMA 2022	Thermal Decomposition of Ammonium Perchlorate catalyzed with Ferrite nanoparticles	Research and Post Graduate Department of Physics, Fatima Matha National College, Kollam, Kerala.	9 to 13 May 2022	Pg. No. 254	ISBN: 978-81-950724-2-2
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**SEMINAR / CONFERENCES / SYMPOSIA / WORKSHOPS / REFRESHER COURSES/
TRAINING PROGRAMMES ATTENDED**

S. No	Date	Name of Seminar	Organizers	Venue	Sponsors	International/ National/ Regional
1.	15/02/2011	Radiation Detection and Measurement	Department of Physics, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil	-	National
2.	19/02/2012 & 20/01/2012	XVI National Seminar on Crystal Growth	Dept. of Physics, Adithanar College of Arts and Science	Adithanar College of Arts and Science	TNSCST, DRDO, BRNS	National

3.	04/02/2012	Recent Trends in Material Science and Nanotechnology	Department of Physics, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil.		National
4.	10/02/2012	A multidisciplinary National Conference on Current Trends in Science and Humanities	Crossian Research Forum, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil.		National
5.	12/09/2012	Recent Trends in Electrochemical Research and Solid-State NMR Spectroscopy	Faculties of Humanities and Science, Dr. M.G.R. Educational and Research Institute University, Chennai	Dr. M.G.R. Educational and Research Institute University, Chennai		International
6.	15/09/2012	Recent Trends in Plasma Display Technology	Division of Physics, School of Advanced Sciences, VIT, Chennai	VIT, Chennai	-	National

7.	21.01.2017	National Seminar on Radical Revolution in Higher Education Institutions for Sustainable Development	IQAC, Holy Cross College Nagercoil	Holy Cross College Nagercoil	UGC	National
8.	10.02.2017	Innovative Applications of Nano Materials	Department of Physics, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	National
9.	03.03.17 & 04.03.17	Innovation in Research and Pedagogy	Crossian Research Forum, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	In Collaboration with M.S.University	International
10.	11.08.2017	Seminar on Renewable Energy Resources for Clean energy	Department of Physics, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	Kudankulam nuclear power project	National
11.	27 th , 30 th , 31 st October 2017	Curriculum Design	IQAC, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	Regional
12.	22/02/2018 & 23/02/2018	International Conference on Materials for Energy and Environment	Loyola Institute of Frontier Energy, Loyola College, Chennai.	Loyola College, Chennai	DST-SER B	International

13.	9/3/2018	National Seminar on Recent Trends in Material Science	Department of Physics, Sadakathullah Appa College, Tirunelveli	Sadakathullah Appa College, Tirunelveli	UGC	National
14.	23.03.2018	Workshop on Revised NAAC Assesment and Accreditation Framework	IQAC, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	Regional
15.	06.04.2018	Workshop on Intellectual Property Rights	Crossian Research Forum, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	National
16.	24/05/2018 & 25/05/2018	International Conference on Green Methods for Separation, Purification and Nanomaterial Synthesis	Centre for Nano and Material Science, Jain University, Bangalore.	Jain University, Bangalore.	-	International
17.	28/06/2018 & 29/06/2018	National Seminar on Recent Trends in Material Science	Department of Physics, M. S University, Tirunelveli	M. S University, Tirunelveli	UGC-SAP : DRS-II	National

18.	27/08/2018	Nanomaterials for Energy Storage Devices	Department of Physics, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil.	TNSCST	International
19.	31/08/2018	Learning Management Systems	IQAC, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil.	-	Regional
20.	12/11/2018 to 24/11/2018	Faculty Development Programme in Entrepreneurship	CED Training Campus, Madurai. (Ministry of Science and Technology Funded)	CED Training Campus, Madurai.	Ministry of Science and Technology	National
21.	24 & 25/01/2019	Frontiers in Analytical and Clinical Chemistry- Nanomaterials for Medical Theranostics	Department of Nanotechnology, Noorul Islam Centre for Higher Education	Noorul Islam Centre for Higher Education, Kumarakoil	-	International
22	01/02/2019 & 2/02/2019	Quality Enhancement: New age teaching and classroom management	IQAC, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	International

23	25/02/2019 to 27/02/2019	Advanced Functional Materials	Department of Physics and Chemistry, S. T. Hindu College, Nagercoil, Materials Research Society of India, Trivandrum Chapter & The Society for Polymer Science, India, Trivandrum Chapter	S. T. Hindu College, Nagercoil.	-	National
24	23/03/2019	Research and Innovations in Higher Education	Crossian Research Forum, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	International
25	24/04/2019 & 25/04/2019	Faculty Development Programme on Emotional Intelligence	ICT Academy	Holy Cross College, Nagercoil	ICT Academy	National

26	19/07/2019	NPTEL workshop	IIT Madras	Manonmaniam Sundaranar University, Tirunelveli	IIT Madras	State level
27	28/08/2019	Workshop on Publishing Research Articles in Scopus Indexed Journals	Crossian Research Forum, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	National
28	18/09/2019 to 20/09/2019	Workshop on MOOCs and OER	School of Education	Manonmaniam Sundaranar University, Tirunelveli	<i>PMMMN MTT</i>	National
29	25/11/2019 and 26/11/2019	Workshop on Curriculum Revision for Sustainable and Societal Development - Outcome-Based Education	IQAC, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	-	Regional

30	5/12/2019 & 6/12/2019	Workshop on Intellectual Property Rights	Institution Innovation Council, Holy Cross College, Nagercoil	Holy Cross College, Nagercoil	<i>DST & TNSCST</i>	State
31	6/1/2020 & 7/1/2020	‘Entrepreneurship Awareness Program’ - ‘IIC Innovation Ambassador Training Series’	IIC, MHRD	Sri Krishna Engineering College, Coimbatore	IIC, MHRD	National
31	10/01/2020	Excellence through Technologies	Department of Computer Science, Holy Cross College, Nagercoil.	Holy Cross College, Nagercoil	-	National
32	25/02/2020	Inspirational Leadership for Higher Education Institutions in India in the 21st Century	Xavier Board, Fatima College, Madurai and St. Joseph’s College, Trichy	Fatima College, Madurai	-	National

33	13/03/2021	Rare Earth Elements: The Intersection of Science and Society	IREL (India) Ltd.	S.T. Hindu College, Nagercoil		National

WEBINARS ATTENDED

S.No	Date	Name of Seminar	Organizers	International/ National/ Regional
1.	10/04/2018	Edmodo Basics Webinar	Edmodo	International
2.	11/06/2018	Edmodo Basics Webinar	Edmodo	International
3	2/11/2019	Globally Connected Teaching and Learning	Edmodo	International
4	01/16/19	"You're in Charge?" Women's Leadership in Difficult	edWeb.net	International

		Circumstances		
5	05/03/19	Educators and Social Media: Avoiding the Pitfalls	Edmodo	International

ONLINE COURSES

S. No	Duration	Title of the course	Portal	Organizer	Status Ongoing/ Completed/ Registered	If completed Certificate received Yes/No
1	22/08/2018 (1 day)	Understanding Open Educational Resources	Commonwealth of Learning	Commonwealth of Learning, Canada.	Completed	Yes
2	24/09/2018 (2 months)	Nanotechnology and Nanosensors, Part1	Coursera	Technion - Israel Institute of Technology	Completed	Yes
3.	08/01/2019 (1 month)	The Science Of Nuclear Energy	FutureLearn	The Open University	Completed	Yes
4.	3/10/2018 to 01/11/2018	Awareness Programme on Solar Water Pumping System	Swayam	Indira Gandhi National Open University	Completed	No

5.	02/11/2018 to 28/12/2018	Student Assessment and Evaluation	Swayam	National Institute of Technical Teachers Training and Research - Chennai	Completed	Yes
6.	28/10/2018 to 24/02/2019	E-Content Development	Swayam	National Institute of Technical Teachers Training and Research - Chennai	Completed	No
7	07/01/2019 to 01/02/2019	ICT in Teaching and Learning	Swayam	National Institute of Technical Teachers Training and Research - Bhopal	Completed	Yes
8	15/10/2018 to 28/02/2019	Cornerstone ideas in Metallurgical Engineering and Material Science	Swayam	Indian Institute of Technology, Madras	Completed	Yes
9	03/07/2019	Why Study Astronomy	Udemy		Completed	Yes
10	22/07/2019	Physics of Human evolution	Udemy		Completed	Yes

11	22/07/2019	Learn about Social Entrepreneur	Udemy		Completed	Yes
12	23/07/2019	Physics: A beginners guide to Kinematics	Udemy		Completed	Yes
13	23/07/2019	Thevenin's and Norton's equivalent circuits	Udemy		Completed	Yes
14	08/10/2019	Udemy Instructor Course	Udemy		Completed	Yes
15	08/10/2019	The wide world of MOOCs	Udemy		Completed	Yes
16	26/08/2019 to 23/09/2019	Redefining Laboratory Instruction using Virtual Laboratory	Swayam	National Institute of Technical Teachers Training and Research - Chennai	Completed	Yes
17	01/10/2019 to 31/01/2020	Pedagogical Innovations And Research Methodology	Swayam	Guru Jambheshwar University of S&T, Hisar.	Completed	Yes

18	01/02/2022 to 31.05.2022	Pedagogy of Science	Swayam	Indira Gandhi National Open University	Completed	Yes
19	15.08.2023 to 15.10.2023	Basic Principles of Energy Management & Energy Audit	Swayam	Chhattisgarh Swami Vivekanand Technical University	Completed	Yes

INNOVATIVE LEARNING PEDAGOGIES ADOPTED

- **Teacher Centered Learning methods**
- **Learner Centered Learning methods**
- **Flipped Classroom**
- **Blended Classroom**
 - **Moodle (Gnomio)**
 - **Edmodo**
 - **Google Classroom**
 - **Schoology**
 - **Remind**
 - **Kahoot (Gold medal)**
 - **Quizizz**
 - **Plickers**
 - **Google Applications (drive, forms, docs, sheets, sites, etc)**
 - **Ideas on Open Educational Resources**
 - **Google Meet**
 - **Zoom**
 - **Microsoft Teams**

- **Starlight mobile App**
- **Stellarium software**
- **Flip**

OTHER ACADEMIC INFORMATION

- Have received the ‘ **Best Presentation Award**’ in UGC sponsored National Seminar on Recent Trends in Material Science organized by the Department of Physics, Sadakathullah Appa College, Tirunelveli.
- I had been a judge for the Science Exhibition in Jesus International School, Kavalkinaru on 01/11/2017.
- Organized sales exhibition on the college campus to improve the entrepreneurial skills of students on 11/10/2018.
- Organizing Secretary of SPECTRA 2019, National Science Day Celebration on 28/02/2019.
- Served as a resource person for workshops organized by IQAC on “Learning Management Systems” on 22/02/2019 & 20/03/2019.
- Served as a resource person for a workshop organized by Controller of Examination on “Learning Management Systems - Moodle” on 06/07/2019.
- Gave a radio talk on the title ‘Nanotechnology’ in Tamil in All India Radio, Tirunelveli Station for the “Vinthalai Ulagam” program on 18/09/2019.
- Organized sales exhibition on the college campus to improve the entrepreneurial skills of students on 28/09/2019.
- Judge for the Science Exhibition in Little Kingdom School, Asaripallam on 05/10/2019.
- Organizing Secretary of TNSCST and DST funded (Rs.50,000) two days, State Level Workshop on ‘Intellectual Property Rights’ on 5/ 12 / 2019 - 6 / 12 / 2019.
- Organizing Secretary of International Conference on “Novel Materials for Evolving Technological Applications” on 02/03/2020
- Gave a radio talk on the title ‘Renewable Energy Resources’ in Tamil in All India Radio, Nagercoil (Konam) Station for the “Telescope” program on 16/04/2020.

- Served as a resource person for an Online Faculty Development Program organized by the Institution Innovation Council of Holy Cross College Nagercoil on “Channelizing Innovation and Entrepreneurship through ICT Tools” from 12th May to 16th May, 2020.
- Member of Interview panel in Bishop Remigius School, Nagercoil