

# CURRICULAM VITAE

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DESIGNATION : ASSISTANT PROFESSOR  
DEPARTMENT : PHYSICS  
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## 1. ACADEMIC QUALIFICATION

S.NO.	DEGREE	DISCIPLINE	NAME OF THE INSTITUTION	YEAR OF PASSING
1.	UG	PHYSICS	MADURA COLLEGE, MADURAI	2002
2.	PG	PHYSICS	MADURACOLLEGE, MADURAI	2004
3.	M.PHIL.(Regular Mode)	PHYSICS	ALAGAPPA UNIVERSITY, KARAİKUDI	2005
4.	SET	PHYSICS	MOTHER TERESA WOMEN'S UNIVERSITY, KODAIKANAL	2016
5.	PH.D.	PHYSICS	DRAVIDIAN UNIVERSITY, ANDRAPRADESH	2017

## 2. TEACHING EXPERIENCE

S. NO.	INSTITUTION	FROM – TO (PERIOD)
1.	YADAVA COLLEGE, MADURAI(UG & PG)	JULY 2006 – TILL DATE

## 3. AREAS OF SPECIALIZATION

- COMPUTATIONAL PHYSICS AND NANOSCIENCE

## 4. REFRESHER COURSE ATTENDED:

S. NO.	PROGRAMMES	THEME	ORGANIZED BY	DATE
1.	SCIENCE ACADEMIES REFRESHER COURSE	QUANTUM MECHANICS	GOVERNMENT ARTS COLLEGE, MELUR	8 – 20, FEBRUARY 2016
2.	SCIENCE ACADEMIES REFRESHER COURSE	ADVANCED QUANTUM MECHANICS	GOVERNMENT ARTS COLLEGE, MELUR	12- 24 DECEMBER 2016
3.	SWAYAM ARPIT ONLINE COURSE	INTRODUCTION TO QUANTUM PHYSICS AND ITS APPLICATIONS	IIT BOMBAY	1 <sup>st</sup> DECEMBER 2020 – 31 <sup>st</sup> MARCH 2021

## 5. SHORT TERM COURSE ATTENDED

S. NO.	PROGRAMMES	THEME	ORGANIZED BY	DATE
1.	AICTE SHORT TERM COURSE	TWO-DIMENSIONAL MATERIALS: PHYSICS AND APPLICATIONS	DEPARTMENT OF PHYSICS, IIT-MADRAS	21 – 26, SEPTEMBER 2019

## 6. TRAINING PROGRAM

S. NO.	PROGRAMME	ORGANIZED BY	DURATION	MENTOR
1.	CSIR-SRTP 2020 ONLINE	CSIR-NEIST, JORHAT, ASSAM	JUNE-AUGUST, 2020	DR. RAM AWATAR MAURIYA
2.	OLYMPIAD EXPOSURE CAMP FOR PHYSICS	HOMI BHABHA CENTRE FOR SCIENCE EDUCATION(HBCSE),TIFR, MUMBAI	NOVEMBER 20-24, 2023	-
3.	OLYMPIAD EXPOSURE CAMP FOR ASTRONOMY	HOMI BHABHA CENTRE FOR SCIENCE EDUCATION(HBCSE),TIFR, MUMBAI	NOVEMBER 05-09, 2024	

## 7. NPTEL-SWAYAM ONLINE COURSES

S. NO.	COURSE	DURATION	NUMBER OF WEEKS	HOST
1.	EXPERIMENTAL PHYSICS II	JUL-OCT 2019	12	IIT KHARAGPUR
2.	EXPERIMENTAL PHYSICS III	JAN-APR 2020	12	IIT KHARAGPUR
3.	EXPERIMENTAL PHYSICS I	SEP-DEC 2020	12	IIT KHARAGPUR
4.	FDP COURSE ON STRUCTURAL ANALYSIS OF NANOMATERIALS	SEP-DEC 2020	4	IIT ROORKEE
5.	FDP COURSE ON SCIENTIFIC COMPUTING USING PYTHON	JUL-OCT 2023	12	IIT KANPUR
6.	SOLID STATE PHYSICS	JUL-OCT 2024	12	IIT KHARAGPUR

## 8. ONLINE CERTIFICATE COURSE COMPLETED

S. NO.	COURSE	DURATION	ORGANIZED BY	MENTOR
1.	LEARNING PHYSICS THROUGH SIMPLE EXPERIMENTS	April 2 to June 10, 2020	CENTER FOR CONTINUING EDUCATION IIT, KANPUR	PADMA SHRI.PROF. H.C. VERMA

2.	CLASSICAL MECHANICS AND QUANTUM MECHANIC	APRIL TO JULY ,2020	BREAKTHROUGH SCIENCE SOCIETY, KERALA CHAPTER	DR. MONCY V. JOHN
3.	FDP ON HOW'S & WHY'S IN LEARNING UG LEVEL QUANTUM MECHANICS	FEBRUARY 01 TO 29,2024	INDIAN ASSOCIATION OF PHYSICS TEACHERS	

#### 9. SENSITIZATION PROGRAM COMPLETED

S. NO.	COURSE	DURATION	NUMBER OF WEEKS	ORGANIZED BY
1.	NANOTECHNOLOGY SENSITIZATION PROGRAM	JUL-DEC 2007	24	NANO SCIENCE AND TECHNOLOGY CONSORTIUM, DELHI

#### 10. COMPUTER LITERACY PROGRAM

S. NO.	COURSE	DURATION	ORGANIZED BY
1.	DIPLOMA IN COMPUTER PROGRAMMING	AUG-OCT 2007	T.M.C. COMPUTER EDUCATION

#### 11. MEMBERSHIP IN PROFESSIONAL BODIES:

POSITIONS HELD / CURRENTLY HOLDING IN PROFESSIONAL BODY	YEAR – FROM (MONTH/YEAR) TO (MONTH/YEAR)
INDIAN ASSOCIATION OF PHYSICS TEACHERS(IAPT)	LIFE TIME MEMBER

#### 12. ARTICLES PUBLISHED IN JOURNALS/MAGAZINES

S.N O.	JOURNAL NAME	TITLE OF THE ARTICLE	MONTH / YEAR	VOL. NO.	DOI / URL	PAGE NO.	ISSN	PUBLISHER
1.	CHINESE PHYSICS LETTERS	ENERGY GAP DEPENDENCE ON Mn CONTENT IN A DILUTED MAGNETIC QUANTUM DOT	APR. 2011	28	DOI: 10.1088/0256-307X/28/4/047501	1-4	0256-307X	CHINESE PHYSICAL SOCIETY AND IOP PUBLISHING LTD
2.	AIP CONF. PROC.	SPIN POLARONIC SHIFT OF AN ACCEPTOR BOUND POLARON IN A GaMnAs/GaAs	JUL.2019	2115	DOI: <a href="https://doi.org/10.1063/1.5113296">https://doi.org/10.1063/1.5113296</a>	1-4	1551-7616	AMERICAN INSTITUTE OF PHYSICS PUBLISHERS

		QUANTUM WELL						
3.	JMSE	PREPARATION OF Zn DOPED BIVO4 NANOPARTICLES BY HYDROTHERMAL PROCESS FOR SOLAR PHOTOCATALYTIC ACTIVITY	JAN.2025		JMSE-D-24-03892R1			SPRINGER

### 13. NATIONAL/INTERNATIONAL SEMINAR, WORKSHOP, CONFERENCE & SYMPOSIUM

S. NO.	PROGRAMMES & THEME	ORGANIZED BY	DATE	PARTICIPATED / PRESENTED	TITLE OF THE PAPER
1.	NATIONAL LEVEL CONFERENCE ON RECENT TRENDS IN NANOTECHNOLOGY	DEPARTMENT OF PHYSICS, YADAVA COLLEGE, MADURAI, TAMIL NADU	7-8 JAN. 2010	PRESENTED	NANO OPTICS
2.	INTERNATIONAL CONFERENCE ON ADVANCEMENT OF NANOSCIENCE AND NANOTECHNOLOGY (ICOANN-2010)	DEPARTMENT OF NANOSCIENCE AND NANOTECHNOLOGY, ALAGAPPA UNIVERSITY, KARAIKUDI, TAMIL NADU	1-3 MARCH 2010	PRESENTED	INVESTIGATIONS ON IMPURITY STATES OF D <sup>+</sup> X ION IN A DILUTED MAGNETIC SEMICONDUCTOR QUANTUM-WELL
3.	STATE LEVEL SEMINAR ON NANO AND THIN FILMS SOLAR MATERIALS	DEPARTMENT OF PHYSICS, MADURA COLLEGE, MADURAI, TAMIL NADU,	29 DEC. 2011	PRESENTED	PREPARATION AND CHARACTERIZATION OF Fe <sub>2</sub> O <sub>3</sub> NANO PARTICLES
4.	NATIONAL SEMINAR ON ADVANCED MATERIALS RESEARCH	DEPARTMENT OF PHYSICS, ALAGAPPA UNIVERSITY, KARAIKUDI	19 <sup>TH</sup> JAN. 2017.	PRESENTED	MAGNETICALLY INDUCED SPIN SPLITTING DUE TO A HYDROGENIC IMPURITY IN A STRAINED GROUP II-VI QUANTUM

					DOT
5.	INTERNATIONAL CONFERENCE ON MATERIALS AND TECHNOLOGY-SYNTHESIS AND APLICATIONS	DEPARTMENT OF PHYSICS, SRI S. RAMASAMY NAIDU MEMORIAL COLLEGE, SATTUR	09 <sup>TH</sup> MARCH 2017	PRESENTED	EFFECT OF AG DOPING ON STRUCTURAL, OPTICAL AND ANTIBACTERIAL BEHAVIOR OF THE ZNO NANO PARTICLES
6.	63 <sup>RD</sup> DAE SOLID STATE SYMPOSIUM	GJUS&T, HISAR, HARYANA	18-22, DEC. 2018	PRESENTED	ACCEPTOR BOUND SPIN POLARON IN AGAMNAS QUANTUM WELL
7.	INTERNATIONAL CENFERENCE ON THIN FILMS AND NANOTECHNOLOGY	IIT MADRAS	6-8,JUL. 2023	PREESENTED	MAGNETIC FIELD INDUCED INTERBAND EMISSION ENERGY IN A GROUP II-VI SEMIMAGNETIC SEMICONDUCTO R QUANTUM DOT
8.	INTERNATIONAL CONFERENCE AND WORKSHOP ON NEW MATERIALS AND DEVICES FOR PHOTOVOLTAIC APPLICATIONS (ICWNMDP-2011)	DEPARTMENT OF MATERIALS SCIENCE, SCHOOL OF CHEMISTRY, MADURAI KAMARAJ UNIVERSITY, MADUAI, TAMIL NADU,	10-12 FEB. 2011	PARTICIPATED	
9.	NATIONAL WORKSHOP ON RECENT DEVELOPMENT IN PHYSICS	DEPARTMENT OF PHYSICS, GOVERNMENT ARTS COLLEGE, MELUR, TAMIL NADU,	3-4 MARCH 2011.	PARTICIPATED	
10.	WORKSHOP ON INDO NARWAEIAN SATELLITE MEETING ON ADVANCES IN SOLAR CELL MATERIALS & TECHNOLOGIES	DEPARTMENT OF MATERIALS SCIENCE, SCHOOL OF CHEMISTRY, MADURAI KAMARAJ UNIVERSITY, MADUAI, TAMIL NADU,	17 DEC. 2011	PARTICIPATED	
11.	UGC SPONSORED STATE LEVEL SEMINAR ON RECENT TRENDS IN	DEPARTMENT OF PHYSICS, MADURA COLLEGE, MADURAI,	18 <sup>TH</sup> JAN. 2013	PARTICIPATED	

	<b>CONDENSED MATTER PHYSICS</b>				
12.	<b>STATE LEVEL SEMINAR ON NANO MATERIALS</b>	<b>DEPARTMENT OF PHYSICS, VVV COLLEGE, VIRUDHUNAGAR</b>	<b>5<sup>TH</sup> FEB. 2013</b>	<b>PARTICIPATED</b>	
13.	<b>NATIONAL LEVEL SEMINAR ON X-RAY CRYSTALLOGRAPHY</b>	<b>DEPARTMENT OF PHYSICS, MADURAIK AMARAJ UNIVERSITY</b>	<b>29<sup>TH</sup> SEP. TO 1<sup>ST</sup> OCT. 2014</b>	<b>PARTICIPATED</b>	
14.	<b>STATE LEVEL SEMINAR ON WORKSHOP ON NANOTECHNOLOGY</b>	<b>DEPARTMENT OF NANOSCIENCE AND NANOTECHNOLOGY, MEPCOSCHLENK ENGINEERING COLLEGE, SIVAKASI</b>	<b>9<sup>TH</sup> JAN. 2015</b>	<b>PARTICIPATED</b>	
15.	<b>NATIONAL SEMINAR ON COMPUTATIONAL PHYSICS</b>	<b>DEPARTMENT OF PHYSICS, SVN COLLEGE, MADURAI,</b>	<b>5<sup>TH</sup> FEB. 2015</b>	<b>PARTICIPATED</b>	
16.	<b>NATIONAL SEMINAR ON RECENT TRENDS IN ENERGY TECHNOLOGIES</b>	<b>DEPARTMENT OF PHYSICS, THE AMERICAN COLLEGE, MADURAI</b>	<b>14<sup>TH</sup> AUG. 2015</b>	<b>PARTICIPATED</b>	
17.	<b>STATE LEVEL SEMINAR ON EXPANDING FRONTIERS IN MATERIAL SCIENCE</b>	<b>DEPARTMENT OF PHYSICS, ARUL ANANDAR COLLEGE, KARUMATHUR,</b>	<b>15<sup>TH</sup> DEC. 2015</b>	<b>PARTICIPATED</b>	
18.	<b>INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MATERIAL SCIENCE AND APPLICATIONS</b>	<b>DEPARTMENT OF PHYSICS, SRI MEENAKSHI GOVERNMENT ARTS COLLEGE FOR WOMEN</b>	<b>6<sup>TH</sup> JAN. 2016.</b>	<b>PARTICIPATED</b>	
19.	<b>WORKSHOP ON INTRODUCTION TO THEORETICAL PHYSICS</b>	<b>DEPARTMENT OF PHYSICS, GOVERNMENT ARTS COLLEGE, MELUR</b>	<b>4<sup>TH</sup>&amp; 5<sup>TH</sup> AUG. 2016</b>	<b>PARTICIPATED</b>	
20.	<b>WORKSHOP ON ADVANCED MATERIALS ENGINEERING</b>	<b>DEPARTMENT OF PHYSICS, THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI</b>	<b>26<sup>TH</sup> SEP. 2016</b>	<b>PARTICIPATED</b>	
21.	<b>WORKSHOP ON TEACHING AND RESEARCH METHODOLOGIES IN PHYSICS</b>	<b>DEPARTMENT OF PHYSICS, MADURAI KAMARAJ UNIVERSITY</b>	<b>25<sup>TH</sup> OCT. 2016</b>	<b>PARTICIPATED</b>	
22.	<b>HANDMADE TRAINING ON COMPUTATIONAL PHYSICS FOR COLLEGE TEACHERS</b>	<b>DEPARTMENT OF PHYSICS, GOVERNMENT ARTS COLLEGE, MELUR</b>	<b>29<sup>TH</sup> AUG. 2024</b>	<b>PARTICIPATED</b>	

**14. VIRTUAL WEBINARS ATTENDED**

<b>S. NO.</b>	<b>PROGRAMMES &amp; THEME</b>	<b>ORGANIZED BY</b>	<b>DATE</b>
1.	ONLINE COURSE ON “ ELEMENTAL ARTS: EVALUATION OF MODERN PERIODIC TABLE”	SRI KRISHNA COLLEGE OF ENGINEERING TECHNOLOGY, COIMBATORE	1&2 <sup>ND</sup> MAY 2020
2.	NATIONAL WEBINAR ON ROLE OF ICT IN SMART TEACHING AND SCIENTIFIC WRITING	GOVERNMENT COLLEGE, RAJAMUNDRY	02 MAY 2020
3.	HOW NANOSCIENCE AND NANOTECHNOLOGY INSPIRED FROM NATURE AND TRANSFORMING THE WORLD?	CUVERY COLLEGE FOR WOMEN, TRICHY	03 MAY 2020
4.	MICRO AND NANOTECHNOLOGY AND ITS APPLICATIONS	GTN ARTS AND SCIENCE COLLEGE, DINDUGAL	14 <sup>TH</sup> MAY 2020
5.	FDP ON NANOMATERIALS FOR ENERGY HARVESTING AND BIOMEDICAL APPLICATIONS	GODAVARI INSTITUTE OF ENGG. TECHNOLOGY, ANDRAPRADESH	18-22 <sup>ND</sup> MAY 2020
6.	SUPER CAPACITORS: NEW AGE ENERGY STORAGE DEVICE	AYYA NADAR JANAKI AMMAL COLLEGE, SIVAKASI.	19 <sup>TH</sup> MAY 2020
7.	INTERNATIONAL WORKSHOP ON SMART MATERIALS SENSORS AND ENERGY DEVICES	SSN COLLEGE OF ENGINEERING, KALAVAKKAM	25-30 <sup>TH</sup> MAY 2020
8.	SOLID STATE PHYSICS-SERIES I ELECTRONS IN SOLIDS	UNIVERSITY OF MADRAS, CHENNAI	26 <sup>TH</sup> -30 MAY 2020
9.	WEBINAR ON “ ELECTRON MICROSCOPY: AN ESSENTIAL TOOL FOR NANOMATERIALS CHARACTERIZATION	HINDUSTHAN COLLEGE OF ARTS AND SCIENCE, COIMBATORE	29 <sup>TH</sup> MAY 2020
10.	RECENT ADVANCES IN MATERIAL SCIENCE AND NANOTECHNOLOGY	BANNARI AMMAN INSTITUTE OF TECHNOLOGY, SATHYAMANGALAM	4-6, JUNE 2020
11.	RESEARCH METHODOLOGY	LYOLO COLLEGE, CHENNAI	12&13 JUNE 2020
12.	CENTURY OF QUANTUM MECHANICS AND STILL GOING STRONG	APPLIED PHYSICS DEPARTMENT, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA	15-17 JUNE 2020
13.	2 <sup>ND</sup> INTERNATIONAL CONFERENCE ON CRYSTAL ENGINEERING: FROM MOLECULE TO CRYSTAL	DST AND ACS PUBLICATIONS	19-20 JUNE 2020

14.	CHEMISTRY AND BIOLOGY OF NATURAL PRODUCTS	CSIR-NEIST, JORHAT, ASSAM	24-25 JULY 2020
15.	PREPARATION METHODS AND DEPOSITION TECHNIQUES OF NANOSTRUCTURES	NATIONAL COLLEGE, TRICHY	25, JULY 2020
16.	MASTERING THE PUBLISHING PROCESS	DST & ACS PUBLICATIONS	28 JULY 2020
17.	WORKSHOP ON ARTIFICIAL INTELLIGENCE IN DRUG DISCOVERY	CSIR-NEIST, JORHAT, ASSAM	1 <sup>ST</sup> SEPTEMBER 2020
18.	ADVANCES IN PEROVSKITE SINGLE CRYSTALS: FUNDAMENTALS AND APPLICATIONS	ACS PUBLICATIONS	30 SEPTEMBER 2020