

## Curriculum Vitae



1. **Name** Vijaya Manjunathaguru
2. **Qualification:** M.Sc, Ph.D
3. **Designation:** Associate Professor
4. **Department:** Physics
5. **Area of Specialization:** M. Sc (Solid State Physics),  
Ph.D (Nuclear Physics)
6. **Experience:** 30 Years
7. **Contact No./ E mail:** [vmguru2k8@gmail.com](mailto:vmguru2k8@gmail.com)
8. **Positions held:**
  - a. **College:**
    1. Member Secretary, Academic Council
    2. Coordinator, PG Department of Physics
    3. NEP 2020 Committee
    4. Convener, NAAC Criteria 6
    5. Member, Autonomy Extension Committee
    6. Chairman, BOS (PG), JSSC, Mysore -25 (2011 till date)
    7. Chairman, BOE (PG), JSSC, Mysore -25 (2011 – 2020)
    8. Chairman, BOS (UG), JSSC, Mysore -25 (2011 - 17)
    9. Chairman, BOE (UG), JSSC, Mysore -25 (2014- 18)
    10. Member, BOS (UG), JSSC, Mysore -25 (2017-20)
    11. Convener, Refresher Course organised by IASc, Bengaluru (2013)
    12. Convener, Cultural Committee(2019-20)
  - b. **In other institutions/ bodies:**
    1. Member BOE, Government College Autonomous, Mandya (Mandya University) (2019)

## 8. Membership in professional bodies:

### Life Member

1. Indian Association of Physics Teachers
2. Mysore university private college Teachers Association
3. Mysore university private college Teacher's welfare Association
4. Treasurer, KRMSS, Mysore Vibhagh

## 9. Faculty Improvement Programmes attended:

1. **04** Refresher Course – UGC ASC, UOM
2. **01** Orientation course – UGC ASC UOM
3. **01** Refresher Course- IASc, Bengaluru

## 10. Publications:

Sl. No	Title	Name of Journal	Date of Publication	Volume No/ Issue No/ Page No
1	<i>“Effective atomic numbers and electron densities of some biologically Important compounds containing H, C, N and O in the energy range 145– 1330 keV”</i>	IOP - Journal of Physics B: At. Mol. Opt. Phys.	12, September 2006	V39, PP 3969 - 81.
2	<i>“Total interaction cross sections and effective atomic numbers of some biologically important compounds containing H, C, N and O in the energy range 6.4 – 136 keV”</i>	IOP – Journal of Physics B: At. Mol. Opt. Phys.	7, September 2007	V.40 PP3707 - 18.
3	<i>“Simple parameterization of photon mass energy absorption coefficients of H, C, N, O based samples of biological interest in the energy range 200- 1500keV”</i>	Pramana – Journal of Physics,	February 209	V. 72(2) PP 375-387
4	<i>“Effective atomic number of some H, C, N and O based composite materials derived from differential Incoherent scattering cross sections”</i>	Pramana - Journal of Physics,	April 2010	V. 74(4) PP 555-562

## 11. PhD Thesis

Title	Guide Name	Institution	Month Year	Status
Studies on the interaction of some compounds of Biological interest with x-rays and gamma rays	Dr. T. K. Umesh, Professor of Physics University of Mysore	University of Mysore	June, 2009	Awarded

## 12. Paper Presentation

Sl. No	Name of the Conference /Seminar /Symposium/Workshop	Type of Program	Title of the Article	Venue/place and date
1	XVI National Symposium on Radiation Physics - NSRP 16	Symposium	Studies on the interaction of 6.4 keV and 59.54 keV photons with some Pharmaceutical compounds of therapeutic use	Meenakshi College for Women, Chennai 18 – 20, January 2006
2	National Conference on “Emerging Trends in Physics, Electronics and Engineering Sciences” - ETPEE	Conference	Studies on the interaction of photons with some compounds of biological interest in the Energy Range 6.4keV–136keV	JSS College Ooty Road, Mysore 25-26, Sept 2006
3	National level Symposium on “Radiation Sources, Detection and Applications” - SRSDA 07	Symposium	Effective atomic numbers and electron densities of some composite Materials at 661.6 keV,	Panjabi University Patiala 5-6, February 2007
4	National level Symposium on “Radiation Sources, Detection and Applications” - SRSDA 07	Symposium	A semi- empirical relation for photon mass energy absorption coefficients of some compounds of biological interest in the energy range 200keV – 1250keV	Panjabi University Patiala 5-6, February 2007
5	XVII National Symposium on Radiation Physics - NSRP 17	Symposium	Studies on the interaction of photons with sugars in the energy range 5.9 to1332.1keV	Saha Institute of Nuclear Physics, Kolkata 14- 16,Nov 2007
6	XVIII National Symposium on Radiation Physics - NSRP 18	Symposium	Effective atomic numbers and electron densities of some rare earth samples in the Energy range 145-1330 keV	Mohanlal Sukhadia University, Udaipur (Rajasthan), 19-21, Nov 2009
7	XIX National Symposium on Radiation Physics – NSRP 19	Symposium	Effective Atomic Number And Electron Density Of Some Rare Earth Oxides In the Gamma Ray Energy Range 279-1330kev	Mamallapuram, Tamil Nadu, India. 12-14, Dec 2012
8	UGC sponsored “Two day National level Seminar on Materials Science and Engineering”	National Seminar	compositional dependent parameters of some samples of therapeutic interest	JSS College Ooty Road, Mysuru 21 -22, March 2014

**CONFERENCE / SEMINAR / WORKSHOP/ SYMPOSIA ORGANIZED**

<b>Sl. No</b>	<b>Name of the Conference/Seminar /Symposium/Workshop</b>	<b>Date</b>	<b>Role</b>	<b>Venue/place</b>
1	State level seminar on “ Big Bang and Particle Physics –Cosmic connection	31 <sup>st</sup> March 2010	Convener	JSS College for women, ChamaraJanagara
2	Science Academies “Two Week Refresher Course in Quantum Mechanics”	2 <sup>nd</sup> to 14 <sup>th</sup> December 2013	Coordinator	JSS Institutions Campus Suttur,Mysore
3	UGC sponsored “Two day National Seminar onMaterials Science and Engineering”	21 <sup>st</sup> & 22 <sup>nd</sup> March 2014	Convener	JSSCollege Ooty Road, Mysuru
	Science Academies Sponsored Lecture Workshop on “Statistical Physics”	25 <sup>th</sup> , 26 <sup>th</sup> and 27 <sup>th</sup> November2015	Convener	JSSCollege Ooty Road, Mysuru
4	Special Lecture (SpecialLecture – 4 ) on “ <i>My lifein Physics from Quarks to Strings</i> ” b Prof. David Jonathan Gross 2004 Nobel Laureate for Physics	4 <sup>th</sup> January 2016	Coordinator	JSS College OotyRoad, Mysore
5	State Level Exhbition “ <i>Science and Village</i> ”	20 <sup>th</sup> , 21 <sup>st</sup> and 22 <sup>nd</sup> August 2016	Convener	JSS College OotyRoad, Mysore Mysuru in association with Karnataka Science and Technology Academy (KSTA), Bengaluru
6	Demonstrationof Fascinating experiments in Science by Prof. B. D. Chakradeo, Mumbai	25 <sup>th</sup> August 2016	Convener	JSS College, Ooty Road, Mysuru,
7	Special Lecture series on Quantum Mechanics by Dr M.V.N. Murthy, Professor Emeritus, IMSc, Chennai	4 <sup>th</sup> , 5 <sup>th</sup> and 6 <sup>th</sup> May 2017	Convener	JSS College, OotyRoad, Mysuru
8	UGC Sponsored Seminar on “Relativityand Gravitational Waves”	10 <sup>th</sup> March 2018	Convener	JSS College, OotyRoad, Mysuru
9	State Level Seminar on “Role of Nuclear Science in Energy Production and Societal Applications”	1 <sup>st</sup> & 2 <sup>nd</sup> March 2019	Convener	JSS College, OotyRoad, Mysuru

**PARTICIPATION OF TEACHING STAFF IN CONFERENCE / SEMINAR / WORKSHOP/  
SYMPOSIA ORGANIZED BY OTHER INSTITUTIONS**

<b>Sl. No.</b>	<b>Date</b>	<b>Event</b>	<b>Organizers</b>	<b>Place</b>
1	10 <sup>th</sup> Oct. 2017	Special Lecture on Space Technology by Padmashri Dr. S. Shivakumar, Former Director, ISRO Satellite Centre & Chairman, Karnataka Science & Technology Academy, Bengaluru	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
2	24 <sup>th</sup> & 25 <sup>th</sup> Nov 2017	National Level Conference on Science, Technology & Society	KSTA and Dept. of Information Technology & Dept. of Science & Technology, Govt. of Karnataka & JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
3	30 <sup>th</sup> Nov 2017	UGC Sponsored One Day Orientation Programme on Quality in Higher Education, Importance of Research and ICT-Enabled Teaching	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
4	24 <sup>th</sup> March 2018	UGC Sponsored One Day Workshop on Capacity Building” for Teaching & Non-teaching	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
5	16 <sup>th</sup> .Feb. 2019	State Level Workshop on Capacity Building for Teachers	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
6	1 <sup>st</sup> & 2 <sup>nd</sup> March 2019	State Level Seminar on “Role of Nuclear Science in Energy Production and Societal Applications”	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
7	14 <sup>th</sup> to 16 <sup>th</sup> Mar 2019	KSTA Sponsored National Workshop on “ Fermentation Process and Liquid Chromatography	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
8	11 <sup>th</sup> – 16 <sup>th</sup> July 2019	UG Student Induction Programme 2019 – Inauguration	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
9	29 <sup>th</sup> Aug 2019	Awareness programme on Live Visualization of FIT India Programme	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
10	26 <sup>th</sup> Sept 2019	PG Student Induction Programme – 2019	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
11	17 <sup>th</sup> – 19 <sup>th</sup> Oct 2019	Orientation Programme for CSIR/UGC NET	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
12	28 <sup>th</sup> Oct 2019	Awareness programme on Vigilance Awareness Week – 2019 Integrity – A Way of Life in association with The New India Assurance Company Limited	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru

13	6 <sup>th</sup> & 7 <sup>th</sup> Nov 2019	Faculty Induction Programme – 2019	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
14	21 <sup>th</sup> Nov 2019	Awareness programme on Sensitization Programme on Inter-generational Bonding in association with National Institute of Social Defence	JSS College, Ooty Road Mysuru	JSS College, Ooty Road Mysuru
15	13 <sup>th</sup> Feb 2020	UGC Sponsored One Day State level Workshop on “Teachers Capacity Building”	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
16	25 <sup>th</sup> to 28 <sup>th</sup> Feb 2020	UGC Sponsored Four-Day Frontier Lecture Series on Physical Sciences/biological Sciences/Social Sciences	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
17	19 <sup>th</sup> -21 <sup>st</sup> , June, 2020	Three Day National Webinar on Physics enrichment (NWPE2020)	Indian Association of Physics Teachers, IAPT, RC19, Patna	Online
18	03 <sup>rd</sup> -07 <sup>th</sup> July 2020	National Level Webinar on Stable Organic-Inorganic Halide Nano crystal for LEDs	Thyagarajar College Madurai,	Online
19	16 <sup>th</sup> July to 06 <sup>th</sup> Aug 2020	Webinar series on Migration during COVID 19 every Thursday from 16-07-2020 to 06-08-2020	Thozhamai and Stella Maris College in partnership with UNICEF, Chennai	Online
20	23 <sup>rd</sup> July 2020	Webinar on Radiation in Service of Mankind	JSS College for Women ,Mysuru	Online
21	27 <sup>th</sup> to 31 <sup>st</sup> , July 2020	International Symposium on Advanced Research in Physics - 2020	Dept of Physics Bangalore University in association with Sir M Vishveshvaraya – ISRO Chair, Bangalore University	Online
22	29 <sup>th</sup> & 30 <sup>th</sup> Jul 2020	“Recent Trends in Advanced Physics” by Dr. T K Umesh, Professor, UOM Dr. Basavaraj Angadi, Associate Professor, Bangalore University	PG Department of Physics, JSS College Ooty Road Mysuru	Online
23	10 <sup>th</sup> to 12 <sup>th</sup> Oct.2020	Three Day UG Student Induction Programme – 2020, An IQAC Initiative	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
24	9 <sup>th</sup> Jan 2021	One day National Seminar entitled “Implementation of NEP-2020 in Karnataka, Opportunities and road Ahead	KRMSS, UoM Vibhag in collaboration with UoM, KSOU, Karnataka State Higher Education Council & Center for Educational and Social Studies, Bengaluru	UOM, Mysuru
25	20 <sup>th</sup> Feb 2021	Do Photons Exist? By Dr. K.S. Mallesh Professor (Retd.), DOS in Physics University of Mysore	PG Department of Physics, JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru

26	13 <sup>th</sup> Mar 2021	Research Methodology for Researchers And Teachers	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
27	10 <sup>th</sup> May 2021	PG Student Induction Programme 2020-21	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
28	5 <sup>th</sup> June 2021	World Environment Day Celebration	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
29	16 <sup>th</sup> June 2021	Webinar on “Best practices in Online Teaching”	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
30	17 <sup>th</sup> - 19 <sup>th</sup> June 2021	Three Days Virtual International Workshop on Research Methodology”	APS College of Arts and Science, N R Colony, Bengaluru	Online
31	21 <sup>st</sup> June 2021	International Yoga Day Celebration	JSS College Ooty Road Mysuru	Online
32	23 <sup>rd</sup> June 2021	One Day online Workshop on “Magneto-electric Composites”	Vidyavardhaka College of Engineering, Mysuru	Online
33	26 <sup>th</sup> June 2021	One Day National Workshop on “Photonics- The Light Way to Future”	KL E Society`s Raja Lakhamagouda Science Institute (Autonomous), Belagavi	Online
34	30 <sup>th</sup> June 2021	National Level Webinar on “Asteroids”2021	Mysuru Science Foundation (R), Mysuru	Online
35	30 <sup>th</sup> June - 1 <sup>st</sup> July 2021	National Webinar on “Nurturing Leadership”	JSS College for Women, Mysuru	Online
36	7 <sup>th</sup> July 2021	Workshop entitled “yogasana. Pranayama and Meditation for Rejoice and Success in this pandemic”	DON BASCO Institute of Technology. Bangalore	Online
37	22 <sup>nd</sup> July 2021	The Significance of Intellectual Property Rights	JSS College Ooty Road Mysuru	Online Online
38	30 <sup>th</sup> July 2021	National Webinar on “E-CONTENT DEVELOPMENT”	JSS College for Women, Kollegala	Online
39	7 <sup>th</sup> August 2021	State Level E- Conference on “Emerging trends in Food processing”	JSS College Mysuru	Online
40	9 <sup>th</sup> August 2021	International Webinar on “Accelerating Research – The way to forward”	JSS College Mysuru	Online
41	20 <sup>th</sup> August 2021	One Day Workshop on National Education Policy-2020	Organized by University of Mysore, Mysuru	University of Mysore, Mysuru
42	26 <sup>th</sup> August 2021	Webinar on “Personality and Effective Communication”	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru

43	7 <sup>th</sup> Sep 2021	Workshop on Implementation of NEP - 2020	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
44	20 <sup>th</sup> Dec 2021	One Day Online workshop on Entrepreneurship and Skill Development	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
45	17 <sup>th</sup> Dec 2021	One Day National Seminar on 'Applied Condensed Matter Physics'	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
46	3 <sup>rd</sup> Mar 2022	UGC Sponsored One Day Seminar on 'Intellectual Property Rights'	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
47	14 <sup>th</sup> Jan 2022	UGC Sponsored State Level Orientation & Retraining Programme for Teachers	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru
48	28 <sup>th</sup> Feb 2022	UGC Sponsored One Day State Level Orientation and Retraining programme for teachers	JSS College Ooty Road Mysuru	JSS College Ooty Road Mysuru

### 13. Research project:

Title of the project.	Funding agency	Amount	Duration	Minor/Major/Others
Design and construction of Driver circuit for an electro-optic modulator. 2013 -14	VGST	Rs 30000/-	4 months	SPICE