

Prof. Dr. V. RAJENDRAN

PROFILE

1. General Information

Name Dr. V. RAJENDRAN

Date of Birth 02.11.1962

Correspondence Address Professor and Principal
Dr. N.G.P. Arts and Science College
Dr. N.G.P. – Kalapatti Road
Coimbatore – 641 048

Phone No Mobile : 99941 37373
Landline: 0422 - 2369220

Email veerajendran@gmail.com



2. Present Position

Designation Professor and Principal

Organization Dr.N.G.P. Arts and Science College
Coimbatore – 641 048

Date of Appointment to the present post 28.03.2018

Total Experience 30 Years 08 months

As a Professor 26 Years 8 Months

In current position 04 Years

3. Details of Experience possessed as per eligibility criteria:

Post held	Organization	Nature of duties	Total Experience	
			Years	Months
Professor and Principal	Dr. N.G.P. Arts and Science College Coimbatore - 641 048 Tamil Nadu	Academic, Research and Administration	04	-
Professor and Director	K.S.R. College of Technology & K. S. R. Educational Institutions, Tiruchengode-637 215 Tamil Nadu	Academic, Research and Administration	11	08

Professor and Head	Mepco Schlenk Engineering College Sivakasi – 626 005 Tamil Nadu	Academic, Research and Administration	04	00
Asst. Professor and Head	Mepco Schlenk Engineering College Sivakasi- 626 005 Tamil Nadu	Academic, Research and Administration	05	00
Senior Lecturer	Mepco Schlenk Engineering College Sivakasi- 626 005 Tamil Nadu	Academic, Research and Administration	04	09
Lecturer	Mepco Schlenk Engineering College Sivakasi- 626 005 Tamil Nadu	Academic, Research and Administration	01	09

4. Educational Qualification

S. No	Qualification	University	Year	Subject(s) / Topic(s)	% Achieved	Distinction
1	D.Sc.	Bharathiar University	2019	Physics (Biomaterials)	-	-
2	Ph.D.	Annamalai University	Aug 1988 – Mar 1992	Physics (Ultrasonics)	-	Thesis adjudged Excellent
3	M.Tech.	Anna University Coimbatore	Sep 2007 – Jun 2009	Nanotechnology	9.07 CGPA	Distinction
4	M.Phil.	Annamalai University	Aug 1986 – Jul 1988	Physics	70 %	First Class
5	M.Sc.	Annamalai University	Jul 1984 – May 1986	Physics	65.2 %	First Class
6	B.Sc.	Madras University	Jun 1981 - May 1984	Physics	72.6 %	First Class

5. Administrative Experience / Post(s) & Responsibilities held

S. No	Post	Organization / University	Duration		Experience
			From	To	
1.	LEAP (Leadership for Academicians Programme)	MHRD, Govt. of India Training at TISS, Mumbai and UPENN, USA	Jan 20, 2020	Jan 31, 2020	21 Days *Awaiting for University of Pennsylvania, USA Training
2.	NAAC Assessor	National Assessment and Accreditation Council, Bangalore	July 23, 2019	Till date	10 Months
3.	Fulbright-Nehru International Education Administrators Seminar fellowships	United States - India Educational Foundation Harvard, Boston, UMASS, etc. Universities	Oct 23, 2015	Nov 6, 2015	15 Days
4.	Director	Center for Nano Science and Technology, KSR College of Technology, Tiruchengode, Tamil Nadu	2006	2018	12 Years
		Research and Development, KSR Educational Institutions, Tiruchengode, Tamil Nadu	2006	2018	12 Years

5.	Professor and Head	Mepco Schlenk Engineering College Sivakasi – 626 005, Tamil Nadu	Jul 01, 2002	Jul 07, 2006	04 years 07 days
6.	Chairman, Board of Studies	M.Tech. KSR College of Technology, Tiruchengode, Tamil Nadu	July 1, 2008	Mar 28, 2018	09 Years 7 Months
		B.Tech. KSR College of Technology Tiruchengode, Tamil Nadu	July 1, 2014	Mar 28, 2018	03 Years 7 Months
7.	Member, Board of Studies	B.E./B.Tech. Madurai Kamaraj University Tamil Nadu	1996	1997	01 year
		Anna University, Tamil Nadu	1996	1997	01 year
8.	Chairman of Academic Council	Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu	Mar 28, 2018	Till date	02 years 02 months
9.	Member of Academic Council	PSGR Krishnammal College for Women Coimbatore, Tamil Nadu	2018	2021	03 years
		Vellalar College for Women, Erode, Tamil Nadu	2020	2023	03 years
		Gobi Arts and Science College Gobi, Tamil Nadu	2020	2023	03 years
		Sri Ramakrishna College of Arts and Science, Coimbatore Tamil Nadu	2020	2023	03 years
10.	Member of Executive Council	Instrument Society of India, Bangalore	2016	2018	02 Years
		Acoustical Society of India	2003	2005	02 Years
		Ultrasonics Society of India	1996	1998	02 Years
11.	President	Madras India Regional Chapter (MIRC ASA) of Acoustical Society of America	2008	2009	01 Year
12.	Vice-President	Acoustical Society of India	2007	2009	02 Years
13.	Evaluator	U.G.C. Career Advancement Scheme, Guru Nanak Dev University, Amritsar	2009	2010	01 Year
14.	General Secretary	Acoustical Society of India	2005	2007	02 Years
15.	Senate Member	Bharathiar University Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
16.	Chief Controller of Examinations	Dr. N.G.P. Arts and Science College, Coimbatore Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
17.	Chief Warden	Dr. N.G.P. Arts and Science College, Coimbatore Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
18.	Adviser NSS (National Service Scheme)	Dr. N.G.P. Arts and Science College, Coimbatore Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
19.	Member (Ex-Officio),	Dr. N.G.P. Arts and Science	Mar	Till	02 Years

	College Governing Body	College, Coimbatore, Tamil Nadu	28, 2018	date	02 Months
20.	Chairman, Finance Committee	Dr. N.G.P. Arts and Science College, Coimbatore, Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
21.	Chairman, Standing Committee on Academic Affairs	Dr. N.G.P. Arts and Science College Coimbatore, Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
22.	Chairman, IQAC	N.G.P. Arts and Science College Coimbatore Tamil Nadu	Mar 28, 2018	Till date	02 Years 02 Months
23.	Member of Professional Bodies	Total Memberships in Professional Bodies : 23			

6. (a) Academic / Teaching Experience & Responsibilities

Post	Organization	Date		Total Experience	
		From	To	Years	Months
Professor and Principal	Dr. N.G.P. Arts and Science College Coimbatore - 641 048,	Mar 28, 2018	Till date	02	02
Professor and Director	K.S.R College of Technology & K. S. R. Educational Institutions, Tiruchengode - 637 215	Jul 12, 2006	Mar 27, 2018	11	09
Professor and Head	Mepco Schlenk Engineering College Sivakasi – 626 005, Tamil Nadu	Jul 01, 2002	Jul 07, 2006	04	00
Asst. Professor and Head	Mepco Schlenk Engineering College Sivakasi- 626 005, Tamil Nadu	Jul 01, 1997	Jun 30, 2002	05	00
Senior Lecturer	Mepco Schlenk Engineering College Sivakasi- 626 005, Tamil Nadu	Jul 01, 1994	Jun 30, 1997	04	10
Lecturer	Mepco Schlenk Engineering College Sivakasi- 626 005, Tamil Nadu	Sep 14, 1992	Jun 30, 1994	01	10

7. INTERNATIONAL ACADEMIC EXPOSURES

a) No. of Papers Presented in International Academic/Research Events: 30

S. No.	Title	Conference Details	Date	Place
1)	Nanometal oxides from natural resources for biomedical and industrial applications	Alexandria University, Egypt	April 17-18, 2019	Egypt

2)	In vitro and in vivo toxicity studies on different metal oxides nanocomposites for biomedical applications	Fifth International Conference Nanotechnology, Biotechnology and Spectroscopy (ICNBS-2017)	Mar 24 - 27, 2017	Egypt
3)	Development of nanocomposite materials for biomedical applications	Bio Summit 2016	Oct 10 - 12, 2016	Dubai
4)	Nano metal oxides from natural minerals for industrial applications like anticorrosion	Macro-and Supramolecular Architectures and Materials (MAM-2014)	Nov 22 - 28, 2014	Johannesburg, South Africa
5)	Biocompatible nanocomposites for tissue engineering applications	International Conference on Nanomaterials: Science, Technology and Applications (ICNM-13)	Dec 5-7, 2013	B.S Abdur Rahman University, India
6)	Mass Production of MnO ₂ Nanoparticles for High Performance Zinc Primary Batteries	International Conference on materials for Nano Energy Convergence (ICMENC-2013)	Jul 04 - 07, 2013	Hindustan University, Coimbatore, Tamil Nadu,
7)	Biocompatible nano composite coating with cytotoxicity analysis for biomedical applications	International conference on Nano Electronics and Devices (ICNEND 13)	Jan 21- 22, 2013	Saveetha University, Chennai, Tamil Nadu
8)	Nanostructured metal oxide for industrial application	International Conference and Exposition on Advanced ceramics and Composites	Jan 22 - 27, 2012	USA
9)	Nano zirconia Embedded silica sol for surface protective coating	14 th Asian Chemical Congress, Contemporary Chemistry for Sustainable and economic Sufficiency	Sept 5 - 8, 2011	Bangkok, Thailand

10)	Design and Construction of Complex Nano structured Al_2O_3 Coating for Protective Applications	35 th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'11	Jan 23 - 28, 2011	Florida, USA
11)	On-Line Measurement Of Ultrasonic Velocity and Attenuation At Elevated Temperatures)	5 th International Conference on Advances in Mechanical Engineering and Mechanics	Dec 18 - 20, 2010	Hammamet, Tunisia
12)	Nano alumina embedded silica sol-gel coating for anticorrosive applications	International Conference on Recent Trends in Materials Science and Technology (ICMST 2010)	Oct 29 - 31, 2010	Thiruvananthapuram, Kerala, India
13)	Application of Nano Titania on Textiles and Refractories	International Conference on Nano Science and Technology	Mar 5 - 6, 2010	PSG CT Coimbatore, Tamil Nadu, India
14)	Production of ZrO_2 Nanoparticles from Zircon Sand Obtained by Spray Pyrolysis	International Conf. on Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE 2010)	Jan 7 - 9, 2010	Agra, India
15)	Nanobioactive glass (NBG) for biomedical implant applications	International Conference on Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE 2010)	Jan 7 - 9, 2010	Agra, India
16)	Industrial applications of nanostructured materials obtained from natural resources	First International Conference on Nanostructured Materials and Nanocomposites (ICNM-2009)	Apr 10 -12, 2009	Kottayam, Kerala, India
17)	Biomimetic composite of nanocrystalline hydroxyapatite and sodium alginate composite	Indraprastha International Conclave on Nano Science & Technology	Nov 16 - 17, 2010	Guru Gobind Singh Indraprastha University, New Delhi

18)	Impact of nano silica powders on the growth of maize crop	International Conference on Food and Agriculture Application of Nanotechnologies	Jun 20 - 25, 2010	Sao Pedro, SP, Brazil
19)	Symposium on Nano bio Materials and Electronics	2 nd WCU Symposium on Nanobio Materials and Electronics, South Korea	Apr 22 - 24, 2010	GIST, Gwangju, South Korea
20)	Functional Nano finishes on Cotton Textiles for Industrial and Medical Applications	International Conference and Training Workshop on Going NanoGreen: Nano/Molecular Photochemistry and Nanomaterials for green Energy Development	Feb 14 - 18, 2010	Ain Shams University, Cairo, Egypt, Solar'10
21)	Impact of nano silica powders on the growth of maize crop	6 th GCHERA Conference	Nov 23 - 27, 2009	JKUAT, Kenya
22)	Development of biocompatible nanocrystalline calcium hydroxyapatite and its characterization for biomedical application	International Conference on Nanomaterial Toxicology	Feb 5 - 7, 2008	Indian Institute of Toxicology Research, Lucknow, India
23)	Development of Nanomaterials from natural resources for various industrial applications	International Conference on Nanomaterials and Devices: Processing Applications (NADPA, 2008)	Dec 11 - 13, 2008	Indian Institute of Technology, Roorkee, India
24)	Nano Metal Oxides For Industrial Applications and The Prospects Of Joint Collaborations	Asia Nano Forum Summit 2006	Nov 1 - 3, 2006	Hong Kong
25)	Nano Metal Oxides For Industrial Applications	Nano Trends 2005	Jun 6 - 7, 2005	Munich, Germany
26)	Ultrasonic Applications to Nanomaterials and its Ability for Materials Characterization	3 rd International Conference on Materials Processing for Properties and Performance (MP3)	Nov 24 - 26, 2004	Nanyang Technological University, Singapore

27)	Tenth international congress on sound and vibration	10 th International Conference on Sound and Vibration (ICSV10)	July 7 -10, 2003	Royal Institute of Technology (KTH), Stockholm, Sweden
28)	Elastic properties on microstructural dependence on phosphate based bioactive glasses for biomedical application	9 th International Conference on Sound and Vibration (ICSV9)	Jun 4 - 8, 2002	University of Central Florida, Florida, USA
29)	Ultrasonic non-destructive evaluation of changes in structure and mechanical properties of the ferroelectric BaTiO ₃ dropped vanadate bismuth glasses	8 th International Congress on Sound and Vibration (ICSV8)	Jul 2 - 6, 2001	Polytech University, Hong Kong
30)	Non-Destructive Testing	15 th World Conference on Non-Destructive Testing (15th WCNDT)	Oct 15 - 21, 2000	Roma, Italy

b) No. of International Academic/Research Events conducted :10

S. No.	Title of Event	Date	Place	Role
1)	International Conference on Prospects of Nutraceuticals and Natural Medicine	Feb 28, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organising Chair
2)	International Workshop on Intellectual Property Rights (WIPR – 19)	Feb 15-16, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organising Chair
3)	International Conference on Emerging Trends in Applied Mathematics	Feb 18, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organising Chair
4)	International Workshop on Health Risk Assessment of Nanoparticles	Dec 05 - 07, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organising Chair
5)	International Conference on Recent trends in Computing Technologies - ICRTCT-18	Aug 09 - 10, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organising Chair

6)	International Workshop on Health Risk Assessment of Nanoparticles	Sep 11 -13, 2017	K S Rangasamy College of Technology, Tiruchengode	Organising Chair
7)	International conference on Nanomaterials and Nanotechnology (NANO-15)	Dec 07-10, 2015	K S Rangasamy College of Technology, Tiruchengode	Organising Chair
8)	International Symposium on Macro- and Supramolecular Architectures and Materials (MAM-12)	Nov 21 - 25, 2012	K S Rangasamy College of Technology, Tiruchengode	Organising Chair
9)	International conference on Nano materials and Nanotechnology (NANO -10)	Dec 13 – 16, 2010	K S Rangasamy College of Technology, Tiruchengode	Organising Chair
10)	International Conference on Nanomaterials and Nanotechnology (NANO - 05)	July 13-15, 2005	Mepco Schenk Engineering College, Sivakasi, Tamil Nadu	Organising Chair

c) Countries Visited for Academic/Research Purposes

Total No. of Countries 28

S. No.	Country	Purpose	Period
1)	Germany	i. DST-DAAD Fellow	May 19 - 26, 2019
		ii. DST-DAAD Fellow	Dec 04-20, 2019
		iii. Collaborative research work	Mar 30 – Apl 03, 2015
		iv. Collaborative research work	Dec 10-16, 2011
		v. M.Tech. (Nano) sandwich program	Mar 23, 2010
		vi. International conference Guest Scientist / Invited lecture in various universities	Jun 30 – Jul 16, 2005
		vii. DAAD Fellowship – AFM / AFAM	May 2 to Jun 30, 2002
		viii. International Workshop	Jun 12-14, 2002
		ix. Guest Scientist / Invited lecture	Nov 01 - 14, 2000

2)	Egypt	i. Chief guest / MoU	Apl 17 – 18, 2019
		ii. Conference	Mar 24-27, 2017
		iii. Guest Scientist / Invited lecture	Feb. 18, 2010
3)	Thailand	iv. Collaboration	Aug 07 – 08, 2016
		v. External Examiner – Thesis Defence Examination Committee	Aug 07 – 08, 2016
		vi. Conference	5 - 8 Sep, 2011
		vii. Guest Scientist / Invited lecture	Feb 26-27, 2010
4)	Dubai	i. Conference	Oct 10 – 12, 2016
5)	France	ii. Collaborative research work	Nov 1 – 15, 2016
		iii. Collaborative research work	Sep 8 – 24, 2014
6)	Poland	iv. INSA – Poland Bilateral Exchange Fellowship	May 09 – Jun 03, 2016
7)	Canada	i. Collaboration / MoU signing	Nov 08 - 13, 2015
8)	USA	ii. Fulbright-Nehru- Fellowship	Oct 23 – Nov 6, 2015
		iii. Conference	Jan 22-27 2012
		iv. Industry Visit	Oct 02-09, 2011
		v. Conference	Jan 23-28, 2011
		vi. Memorandum of understanding	Mar 23, 2011
		vii. Guest Scientist / Invited lecture	Jun 4-8, 2002
9)	Spain	i. Collaborative research work	Apl 04 – 05, 2015
10)	South Africa	i. Guest Scientist / Invited lecture	Nov 22–28, 2014
		ii. Conferences (MAM 14)	
11)	Australia	i. INSA Senior Scientist / MoU	May 6 – 22, 2013
12)	Taiwan	i. Visiting Scientist	Feb 19 – Mar 07, 2013
		ii. Guest Scientist / Invited lecture	Oct 19 to Nov 4, 2009
		iii. Guest Scientist / Invited lecture	Nov. 6-7, 2006
13)	Portugal	i. MoU	Mar 17-24, 2012

14)	Tunisia	i. Invited talk	Dec, 18-20, 2010
15)	Brazil	i. Conference Invited talk	Jun 20-25, 2010
16)	South Korea	i. Conference	Feb 14-18, 2010
		ii. Guest Scientist / Invited lecture	Nov 5 to 10, 2009
17)	Switzerland	i. Guest Scientist / Invited lecture	Mar 22, 2010
18)	Kenya	i. Conference	Nov 23 -27, 2009
		ii. Guest Scientist / Invited lecture	Aug 4 to 7, 2009
19)	Singapore	i. NUS–GuestScientist/Invited lecture	Nov 24-26, 2006
20)	Hong Kong	i. International Conference	Nov. 1-3, 2006
		ii. International Congress on Sound and Vibration	Jul 2-6, 2001
21)	Sweden	Guest Scientist / Invited lecture	Jul 7-10, 2003
22)	Italy (Roma)	Conference	Oct 15-21, 2000
23)	Mauritius	MoU	July, 2014
24)	Srilanka	Conference	June 28,2005
25)	West Indies (Jamaica)	Macro-and Supramolecular Architectures and Materials(MAM'10)	2010
26)	Finland	Abu Academy of Research Institute – Invited talk	Jun 30 – Jul 16, 2005
27)	China	Conference Invited talk	Nov. 1-3, 2006
28)	Austria	Conference Invited talk	July 1-18,2005

8. CONTRIBUTION TO RESEARCH

a) Technologies / Methodologies / Models, etc., developed

i) Technologies Developed

S. No.	Name	Utility	Year
1)	A device to fabricate nano fibers on industrial scale	Indigenous experimental design technique to create high surface area nano fibers	2014

2)	A device for Bulk production of Rice husk ash from Rice husk for Bulk production of Silica nanoparticles	Quick process and easy handling methods	2014 Granted patent Patent No. 281341
3)	A device for mass production for nanoparticles from natural minerals with in-build cleaning system a. Lab model b. Pilot plant model	Mass production of high purity nano alumina, nano zirconia and nano titania etc.,	2013
4)	A device for mass production of nano hydroxyapatite (nano Hap) particles.	Facilitates to scale up for mass production of nano crystalline hydroxyapatite materials for biomedical applications.	2011
5)	A device for the ultrasonic velocity and attenuation measurement in solid samples at low temperature a. Pilot plant model	Unique high sensitive NDT technique to explore the temperature dependent structural and phase transition in materials.	2002 Granted patent (14/DEL/2002 dt. 09.01.2002)
6)	A device for the measurement of ultrasonic velocity and attenuation in solid materials under different thermal conditions a. Lab model b. Pilot plant model (It is the first of its kind in India and the same was acclaimed in the IGC Newsletter on Page 4, volume 65, July 2005 issue.)	The measurements reveal that in-situ high temperature ultrasonic measurements enable assessment of creep and fatigue damage with high sensitivity in nuclear materials.	2001 Granted patent (699/DEL/2001 dt. 26.06.2001)

ii) Methodologies Developed

S. No.	Name	Utility	Year
1)	A novel method to prepare crystalline nano molybdenum particles	Industrial Applications	2018 Granted patent Patent No. 297894
2)	Evaluation of cytotoxicity of nanometal oxides from Zibra fish	Rapid screening in a feasible way for nanotoxicity	2018
3)	Nano Si from Quartz sand for cost effective solar cell	High purity nano Si and 50% higher efficiency	2017
4)	Nano Al ₂ O ₃ particles for thermal barrier coating	Industrial Applications	2016
5)	Nano Si from rice husk for Li – ion Battery anode	High energy density anode material	2014

b) Research Guidance

S. No.	Name of the Programme	Awarded
1)	Post Doc	4
2)	Ph.D.	27
3)	M.Phil.	-

c) MoU's Signed

- MoU Signed with Universities (Abroad) : 22
- MoU Signed with Industries : 09
- Consortium of Colleges : 03

S. No	Details of collaborations	Name(s) of the Departments/ Agencies involved	Year of MoU
1)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	Alexandria University, Egypt	2019
2)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences /Workshops 	Gajra Pai & Zhu, Chennai, India	2017
3)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	National Institute for Standards (NIS), Egypt	2017
4)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	SIGMA Clermont, Clermont -Ferrand, France	2016
5)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	Mahidol University, Bangkok Thailand	2016
6)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	Centre of Molecular and Macromolecular Studies, (Polish Academy of Sciences) Warsaw, Poland	2016
7)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	Université d'Auvergne, France	2016
8)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/ workshops 	University of Saskatchewan Saskatoon, Canada	2016

9)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	National Research Development Corporation (NRDC), New Delhi	2015
10)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	National Institute for Nanotechnology (NINT) Innovation Centre, Canada	2015
11)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	University of Calgary, Canada	2015
12)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	CIC energigune - energy cooperative research Centre, Spain	2015
13)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Institut Català de Nanociència i Nanotecnologia, Spain	2014
14)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	University of Witwatersrand Johannesburg, South Africa	2014
15)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	University of Mauritius (UM) Mauritius	2014
16)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Edith Cowan University Australia	2012

17)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Mintek Inc, South Africa	2012
18)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	University of Missouri, USA	2011
19)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	University of Aveiro, Portugal	2011
20)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Chonbuk National University South Korea	2010
21)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Jomo Kenyatta University of Agriculture, Nairobi, Kenya	2009
22)	<ul style="list-style-type: none"> • Students/Staff exchange • Collaborative research • Publications • Conferences/workshops 	Kaiserslautern University Germany	2008

ii) MoU Signed with Industries

S. No	Details of collaborations	Name(s) of the Departments/ Agencies involved	Year of MoU
1)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences/workshops 	M/s. Needle Industries(India) Pvt. Ltd. The Nilgiris – 643 243	2019
2)	<ul style="list-style-type: none"> • Students/Staff Industry Training 	Narayana Hrudayaalaya Limited Bangalore, Karnataka	2019

	<ul style="list-style-type: none"> • Internship • Industry Visit • Conferences / workshops 		
3)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	Annamalai Capital Services Pvt. Ltd, Coimbatore – 641 025	
4)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	Alpha Labs & Technologies, Coimbatore – 641 025	2019
5)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	Voice Training Solutions, Coimbatore	2019
6)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	M/s Pantech ProEd Pvt Ltd, Coimbatore – 641 009	2020
7)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	Aspire Systems(India) Pvt. Ltd, 1/D-1, SIPCOT IT Park, Siruseri, Chennai – 603 103	2020
8)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	Gateway Software Solutions Coimbatore – 641009	2020

9)	<ul style="list-style-type: none"> • Students/Staff Industry Training • Internship • Industry Visit • Conferences / workshops 	TwirlTact Technology Solutions Pvt. Limited	2020
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iii) MoU with Consortium of Colleges

S. No	Details of collaborations	Name(s) of the Departments/ Agencies involved	Year of MoU
1)	<ul style="list-style-type: none"> • Students/Staff Exchange • Collaborative Research • Publications • Conferences / workshops 	Gobi Arts and Science College Gobichettipalayam	2019
2)	<ul style="list-style-type: none"> • Students/Staff Exchange • Collaborative Research • Publications • Conferences / workshops 	Vellalar College for Women Erode	2019
3)	<ul style="list-style-type: none"> • Students/Staff Exchange • Collaborative Research • Publications • Conferences / workshops 	Sri Ramakrishna College of Arts and Science, Coimbatore	2019

d) Research Projects Obtained by the Applicant as PI / Co-PI:

	Completed (No.)	Under Progress (No.)	Amount Sanctioned (Rs. In Lakhs)
National	22*	-	350.37
As PI : 18 projects As CI : 04 projects			
International	-	1	07.69
ATAL New India Challenge (ANIC)	-	1**	100**
Total Amount Sanctioned			358.06

**** Awaiting for Sanction**

e) **Research Papers Published After Acquiring Ph.D. Degree**

Total No. of Research Paper Publications : 318

Impact factor ranges from : 0.3 to 11



Scopus ID 55694389100	Researcher ID H-5099-2012	Orcid ID <u>0000-0001-9471-5311</u>	Google Scholar ID Vi2mKHsAAAAJ
h-index : 30	h-index : 29		h-index: 35
Citations : 3231	Citations : 2840		Citations : 4639

i. **Research Papers Published After Acquiring Ph.D. Degree**

Research Papers Published

S. No.	Author(s)	Title of the Paper	Journal Name with Vol. & Year	Referred Journal or not	No. of citation
1.	Karthik S, Balu KS, Suriyaprabha R, Vinoth M, Surendhiran S, Oscar K A, Chiristophe M, Rajendran V	Functional and antimicrobial properties of herbal nanocomposites from Piper betle plant leaves for enhanced cotton fabrics	Journal of coating technology and research	Referred Journal	
2.	Balu KS, Suriyaprabha R, Karthik S, Surendhiran S, WK Aicher, Rajendran V	Biomimetic TiO ₂ -chitosan/sodium alginate blended nanocomposite scaffolds for tissue engineering applications	Materials Science and Engineering: C Vol 110, May 2020, 110710	Referred Journal	1
3.	A Karthik, SR Srither, NR Dhineshababu, N Lenin, S Arunmetha, P Manivasakan, V Rajendran	Stabilization of tetragonal zirconia in alumina-zirconia and alumina-yttria stabilized zirconia nanocomposites: A comparative structural analysis	Materials Characterization Vol: 158 Pages 109964	Referred Journal	
4.	R Suriyaprabha, KS Balu, S Karthik, M Prabhu, V Rajendran,	A sensitive refining of in vitro and in vivo toxicological behavior of green synthesized ZnO nanoparticles	Ecotoxicology and environmental safety	Referred Journal	2

	Wilhelm K Aicher, Malik Maaza	from the shells of <i>Jatropha curcas</i> for multifunctional biomaterials development			
5.	Siva P, Surendhiran S, Arunkumar P S, Naveenkumar R, Karthik S, Vinoth M, Rajendran V	Influence of nanoflower FeTiO ₃ in carbon dioxide reduction	SN Applied Sciences 1:10, 2019	Referred Journal	3
6.	M. Vinoth, S Surendhiran, P Senthilmurugan V Rajendran	Enhanced Photovoltaic Performance of Hybrid Solar Cells with a Calcium Interfacial Metal Electrode	Journal of electronic Materials, 48, 7: 4589-4597 & 2019	Referred Journal	
7.	P. Siva, P.S. Arunkumar, S. Surendhiran, V. Rajendran	Novel modified nano activated carbon and its influence on the metal–O ₂ battery system	Journal of energy storage, 22, April 2019, 283-294.	Referred Journal	
8.	P. Siva, P.S. Arunkumar, S. Surendhiran, V. Rajendran	Water dispersible graphene wrapped MnO ₂ nanospheres and their applications in supercapacitors coin cell	Ionics, 2019 (Accepted, DOI: 10.1007/s11581-019-03004-6).	Referred Journal	
9.	P.S. Arunkumar, P. Siva, R. Naveenkumar, V. Rajendran	Enhanced discharge capacity of Mg-air battery with addition of water dispersible nano MoS ₂ sheet in MgCl ₂ electrolyte	Ionics, doi.:10.1007/s11581-018-2691-3.	Referred Journal	
10.	R. Naveenkumar, P. Siva, P. Prabu, V. Rajendran	Enhancing of the tribological characteristics of the lubricant oils using Ni- promoted MoS ₂ nanosheets as nano additives	Tribology International, doi:10.1016/j.triboint.2017.10.001 (2017) (IF: 3.517).	Referred Journal	23
11.	R. Naveenkumar, P. Siva, P.S. Arunkumar, V. Rajendran	Enhancing the thermophysical and tribological performance of gear oil using Ni promoted ultrathin MoS ₂ nanocomposites	Tribology International, doi:10.1016/j.triboint.2018.03.030 (2018).	Referred Journal	3
12.	G Nandhini, R Suriyaprabha, WMS Pauline, V	Influence of solvents on the changes in structure, purity, and in	Applied Nanoscience 8 (6), 1353-1360	Referred Journal	

	Rajendran, WK Aicher,	vitro characteristics of green-synthesized ZnO nanoparticles from <i>Costus igneus</i>	(2018)		
13.	M. Vinoth, S. Arunmetha, M. Sridharpanday, S. Karthik, V. Rajendran	Light trapping and power conversion efficiency of P3HT: nano Si hybrid solar cells	RSC Advances, 8, 61: 35162-35169.	Referred Journal	
14.	R Saha, S Karthik, K S Balu, R Suriyaprabha, P Siva, V Rajendran	Influence of the various synthesis methods on the ZnO nanoparticles property made using the bark extract of <i>Terminalia arjuna</i>	Materials Chemistry and Physics, 209, 208-216.	Referred Journal	7
15.	R Saha, K Subramani, S Arunachala Kumar, R Suriyaprabha, V Rajendran	Psidium guajava leaf extract-mediated synthesis of ZnO nanoparticles under different processing parameters for hydrophobic and antibacterial finishing over cotton fabrics	Progress in Organic Coatings, 124, 80-91.	Referred Journal	3
16.	S Rangaraj, R Venkatachalam Rajendran	In vitro and in vivo characteristics of biogenic high surface silica nanoparticles in A549 lung cancer cell lines and <i>Danio rerio</i> model systems for inorganic biomaterials development	Artificial cells, nanomedicine, and biotechnology, 2018, 46, 1415-1424	Referred Journal	1
17.	Suriyaprabha, KA Sreeja, M Prabu, P Prabu, V. Rajendran	Bioaccumulation of Transition Metal Oxide Nanoparticles and Their Influence on Early Growth Stages of <i>Vigna unguiculata</i> Seeds	BioNanoScience, 2018, 3: 752-760.	Referred Journal	1
18.	S. Karthik, P. Siva, K. S. Balu, R. Suriyaprabha, V. Rajendran, M. Maaza (2017)	<i>Acalypha indica</i> -mediated green synthesis of ZnO nanostructures under differential thermal treatment: Effect on textile coating, hydrophobicity, UV resistance, and antibacterial activity	Advanced Powder Technology (Accepted)	Referred Journal	16

19.	L Arunraja, P Thirumoorthy, A Karthik, R Subramanian, V Rajendran	Investigation and characterization of ZnO/CdS nanocomposites using chemical precipitation method for gas sensing applications	Journal of Materials Science: Materials in Electronics 28 (23), 18113- 18120 & 2017	Referred Journal	2
20.	Suriyaprabha R, Rajendran V (2017)	A lucrative chemical processing of bamboo leaf biomass to synthesize biocompatible amorphous silica nanoparticles of biomedical importance	Applied Nanoscience 7- 5, 145–153	Referred Journal	7
21.	Mohan A, Suriyaprabha R, Prabhu M, Prabu P, Rajendran V (2017)	Nanosilver Enabled Reactive Dyes for Antimicrobial Medical Textiles	Nanomedicine & Nanotechnology 2(S1): 000S1- 003.	Referred Journal	
22.	Siva. P, Prabu. P, Karthik. S, Arunkumar. P, Rajendran. V (2017)	Ultrathin sheet structure Ni-MoS ₂ anode and MnO ₂ /water dispersion graphene cathode for modern asymmetrical coin cell supercapacitor	Journal of Alloys and Compounds 731, 936-944	Referred Journal	7
23.	R. Suriyaprabha, V. Rajendran (2017)	In vitro and in vivo characteristics of biogenic high surface silica nanoparticles in A549 lung cancer cell lines and Danio rerio model systems of inorganic biomaterials development Artificial Cell	Nanomedicine and Biotechnology (Accepted)	Referred Journal	1
24.	S. Karthik, R. Suriyaprabha, M. Vinoth, S. R. Srither, P. Manivasakan, V. Rajendran, Suresh Valiyaveetil (2017)	Larvicidal, super hydrophobic and antibacterial properties of herbal nanoparticles from Acalypha indica for biomedical applications	RSC Advances (Accepted)	Referred Journal	8

25.	S. Arunmetha, M. Vinoth, S.R. Srither, A. Karthik, M. Sridharpanday, R.Suriyaprabha, P. Manivasakan and V. Rajendran	Study on production of silicon nanoparticles from quartz sand for hybrid solar cell applications	Journal of Electronic Materials, Accepted (2017)	Referred Journal	5
26.	Karthik S, Vinoth M, Balu K.S, Suriyaprabha R, Manivasakan P, Rajendran V , Valiyaveetil Suresh (2017)	An ecofriendly route to enhance the antibacterial and textural properties of cotton fabrics using herbal nanoparticles from Azadirachta indica (neem)	Journal of Alloys and Compounds 10.1016/j.jallcom.2017.06.242.	Referred Journal	12
27.	N. Nithyavathy, V. Rajendran , L. John Berchmans, M. Maaza, S. Krithika, S. Arunmetha	Gas Sensing Behaviour of Composites of Cerium Oxide and Magnesium Aluminate	Bulletin of Materials Science Accepted (2017)	Referred Journal	
28.	Manickam Pavunraj, Kathirvelu Baskar, Veeramuthu Duraipandiyan, Naif Abdullah Al-Dhabi, Venkatachalam Rajendran , Giovanni Benelli	Toxicity of Ag nanoparticles synthesized using stearic acid from Catharanthus roseus leaf extract against Earias vittella and mosquito vectors (Culex quinquefasciatus and Aedes aegypti)	Journal of Cluster Science 28 (5), 2477-2492 & 2017	Referred Journal	5
29.	P. Siva, P. Prabu M. Selvam S. Karthik & V. Rajendran (2017)	Electrocatalytic conversion of carbon dioxide to urea on nano-FeTiO ₃ surface	Ionics DOI 10.1007/s11581-017-1985-1.	Referred Journal	4
30.	LA Raja, P Thirumoorthy, A Karthik, R Subramanian, V Rajendran	Effect of EDTA on cadmium sulfide thin films for oxygen gas sensor applications	Journal of Alloys and Compounds 706, 470-477	Referred Journal	8
31.	R. Kokila, R. Suriyaprabha, S. Karthik, G. Nandhini, V. Rajendran (2017)	Antibacterial and Antioxidant Potential of Herbal Nanoparticles Produced from the Shells of Jatropha Curcas	Adv Nano Bio M&D: 2017: 1(1):1-9.	Referred Journal	
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	R Suriyaprabha, M Vinoth, SR Srither, P Manivasakan, V Rajendran	hydrophobic and antibacterial properties of herbal nanoparticles from <i>Acalypha indica</i> for biomedical applications	(66), 41763-41770	Journal	
33.	S. Arunmetha, V. Rajendran , M. Vinoth, A. Karthik, SR. Srither, M. Sridharpanday; N. Nithyavathy, P. Manivasakan, M. Maaza (2017)	An efficient photoanode for Dye Sensitized Solar cells using naturally derived S/TiO ₂ nanoparticle	Materials Research Express, 4(3).	Referred Journal	3
34.	SR Srither, A Karthik, S Arunmetha, D Murugesan, V Rajendran	Electrochemical supercapacitor studies of porous MnO ₂ nanoparticles in neutral electrolytes	Materials Chemistry and Physics 183, 375-382	Referred Journal	16
35.	P.R. Rauta, B.K. Panda P. Manivasakan and V. Rajendran (2016)	Nano-Zirconia Enabled Zirconia-Carbon Submerged Nozzle For Improved Corrosion-Erosion Resistance	Transactions of the Indian Ceramic Society, (Accepted: In press).	Referred Journal	
36.	S. Praveen Kumar, K. Sakthipandi, R. Gayathiri, M. Sridhar Panday, V. Rajendran (2016)	Online ultrasonic characterization of La _{1-x} NaxMnO ₃ : Bulk and nanostructured perovskites	Journal of Inorganic and Nano-Metal Chemistry (Accepted)	Referred Journal	1
37.	M. Sridhar Panday, M. Vinoth, S. Surendhiran, V. Rajendran , P. Susthitha Menon (2016)	Investigation on electrical conductivity of strontium (Sr ²⁺) influenced CaTi _{0.8} Fe _{0.2} O ₃ polycrystalline perovskite	IEEE 192-195.	Referred Journal	
38.	S. Karthik, R.Suriyaprabha, K.S. Balu; V. Rajendran (2016)	Influence of ball milling on the particles size and antimicrobial property of <i>Tridaxprocumbens</i> leaf nanoparticles	IET Nanobiotechnology, (doi: 10.1049/iet-nbt.2016.0028).	Referred Journal	7
39.	S. Praveenkumar, K. Sakthipandi, R. Gayathiri, M. Sridhar Panday, V. Rajendran (2016)	Online Ultrasonic Characterization of La _{1-x} NaxMnO ₃ : Bulk and Nanostructured Perovskites	Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, (In press).	Referred Journal	1

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41.	M. Vinoth, R. Suriyaprabha, S. Arunmetha, A. Karthik, S. Karthik, P. Paramasivam, P. Prabu, K. Saminathan, V. Rajendran (2016)	Synthesis of Nothapodytesnimmonia leaf nanoparticles for antireflective and self-cleaning applications	Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, (In press).	Referred Journal	5
42.	N. Nithyavathy, S. Arunmetha, M. Vinoth, G. Sriram, and V. Rajendran (2016)	Fabrication of nanocomposites of SnO ₂ and MgAl ₂ O ₄ for gas sensing applications	Journal of Electronic Materials, (In Press).	Referred Journal	3
43.	J. Martina, P. Prabu, M. Kalirajan, S. Sankar, K. Kavitha, R. Suriyaprabha, V. Rajendran (2016)	In situ synthesised TiO ₂ -chitosan-chondroitin4-sulphate nanocomposites for bone implant applications	IET Nanobiotechnology, DOI: 10.1049/ietnbt.2015.0023.	Referred Journal	
44.	G. Karunakaran, R. Suriyaprabha, V. Rajendran (2016) Narayanasamy Kannan	Influence of ZrO ₂ , SiO ₂ , Al ₂ O ₃ and TiO ₂ nanoparticles on maize seed germination under different growth conditions	IET Nanobiotechnology, DOI: 10.1049/ietnbt.2015.0007.	Referred Journal	6
45.	A. Karthik, S. R. Srither, S. Arunmetha, P. Manivasakan, V. Rajendran (2016)	High temperature corrosion resistance of silicate based nanostructured thermal barrier coatings using Al ₂ O ₃ -(Y ₂ O ₃) ZrO ₂ /SiO ₂ nanocomposite	Surface and Coatings Technology. (In Press).	Referred Journal	10
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47.	L. Arunraja, P. Thirumoorthy, A. Karthik,	EDTA Decorated Nanostructured ZnO/CdS Thin Films	Journal of Electronic Materials.	Referred Journal	7

	L. Edwinpaul, and V. Rajendran , (2016)	for Oxygen Gas Sensing Applications	(Article in press). 45(8) 4100-4107		
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49.	S Praveen Kumar, K Sakthipandi, R Gayathiri, M Sridhar Panday, V Rajendran (2016)	Ferromagnetic–paramagnetic transition temperature in bulk and nanostructured $\text{La}_{0.7}\text{Sr}_x\text{Ca}_{0.32-x}\text{MnO}_3$ ($x= 0.10, 0.15$ and 0.20)	Manganite materials, Rare Metals, 1-11.	Referred Journal	1
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51.	R. Palanivelu, V. Rajendran , N.R. Dhineshbabu, T. Palanisamy and S. Balasubramanian (2015)	Comparative study of addition of amorphous nanosilica particles with different grades of cement mortar	International Journal of Applied Ceramic Technology, 12(S 3) E14–E22.	Referred Journal	1
52.	N. Lenin, A. Karthik, M. Sridharpanday, M. Selvam, S. R. Srither, S. Arunmetha, P. Paramasivasam, V. Rajendran (2016)	Electrical and magnetic behavior of iron doped nickel titanate ($\text{Fe}^{3+}/\text{NiTiO}_3$) magnetic nanoparticles	Journal of Magnetism and Magnetic Materials, 397, 281-286.	Referred Journal	10
53.	G. Karunakaran, R.Suriyaprabha, N. Kannan, V. Rajendran , (2015)	Toxicity evaluation based on particle size, contact angle and zeta potential of SiO_2	Advances in Nano Research, 3 (4), 243-255.	Referred Journal	4
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55.	S.R. Srither, A. Karthik, D. Murugesan,	Electrochemical capacitor study of spherical MnO_2	Frontiers in Nanoscience and Nanotechnology,	Referred Journal	15

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57.	V. Rajendran , A. Karthik, S.R. Srither, S. Arunmetha, P. Manivasakan, (2015)	Effect of high temperature on the surface morphology and mechanical properties of nanostructured Al ₂ O ₃ - ZrO ₂ /SiO ₂ thermal barrier coatings	Surface and coating technology, 262,154-165.	Referred Journal	7
58.	M Mayilvel Dinesh, K Saminathan, M Selvam, SR Srither, V Rajendran , Karan VIS Kaler (2015)	Water soluble graphene as electrolyte additive in magnesium-air battery system	Journal of Power Sources, 276, 32- 38.	Referred Journal	40
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60.	A. Karthik, S. Arunmetha, S.R. Srither, P. Manivasakan, V. Rajendran (2015)	Nano alumina-zirconia blended epoxy polymeric composites for anticorrosive applications	Journal of sol-gel science and technology, 74(2), 460-471.	Referred Journal	3
61.	S. Sutha, N. R. Dhineshababu, M. V. Rajendran (2015)	Mg-doped hydroxyapatite/Chitosa n composite coated 316L stainless steel implants for biomedical applications	Journal of Nanoscience and Nanotechnology, 15(6), 4178- 4187.	Referred Journal	10

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63.	G. Karunakaran, R. Suriyaprabha, V. Rajendran , N. Kannan (2015)	Effect of contact angle, zeta potential and particle size on the in vitro studies of Al ₂ O ₃ and SiO ₂ nanoparticles	IET Nanobiotechnology, 9(1),27-34.	Referred Journal	17
64.	R Palanivelu, P Manivasakan, NR Dhineshbabu, V Rajendran (2015)	Comparative Study on Isolation and Characterization of Amorphous Silica Nanoparticles from Different Grades of Rice Hulls	Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, 46, 445-452.	Referred Journal	3
65.	N.R. Dhineshbabu, V. Rajendran (2015)	Antibacterial activity of hybrid chitosan–cupric oxide nanoparticles on cotton fabric	IET Nanobiotechnology,1-7.	Referred Journal	7
66.	S. Arunmetha, A. Karthik, S. R. Srither, M. Vinoth, R. Suriyaprabha, P. Manivasakan, V. Rajendran (2015)	Size-dependent physicochemical properties of mesoporous nanosilica produced from natural quartz sand using three different methods	RSC Advances46(3), 5, 47390-47397.	Referred Journal	11
67.	V. Rajendran , M. Prabhu, R. Suriyaprabha (2015)	Synthesis of TiO ₂ -doped mesoporous nanobioactive glass particles and their cytocompatibility against osteoblast cell line	Journal of Materials Science,50(15), 5145-5156.	Referred Journal	
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70.	V. Rajendran , N. R. Dhineshbabu, R. Rajesh Kanna, Karan VIS Kaler (2015)	Enhancement of Thermal Stability, Flame retardancy	Industrial & Engineering Chemistry Research, 53(50), 19512-19524.	Referred Journal	26
71.	M Prabhu, K Kavitha, S Sutha, P Manivasakan, V Rajendran , P Kulandaivelu, Kamal Alameh (2014)	Bioactivity of Zirconium-Substituted Nanobioactive Glass Particles	Synthesis and Reactivity in Inorganic, Metal- Organic, and Nano-Metal Chemistry, 45(1), 92-96.	Referred Journal	1
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74.	N.R. Dhineshbabu, P. Manivasakan, P. Prabu, N. Gopi, N.K. Palanisamy and V. Rajendran (2014)	Development of functional hybrid cotton fabrics by coating SiO ₂ and ZrO ₂ /SiO ₂ composite	Micro and Nano letters. 9 (10), 717 - 720.	Referred Journal	2
75.	R Yuvakkumar, AJ Nathanael, V Rajendran and SI Hong (2014)	Rice husk ash nanosilica to inhibit human breast cancer cell line (3T3)	Journal of sol-gel science and technology, 72, 198-205.	Referred Journal	7

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77.	S. R. Srithier, A. Karthik, M. Selvam, K. Saminathan, V. Rajendran and Karan V.I.S. Kaler (2014)	Nano-sized MnO ₂ particles produced by spray pyrolysis for a Zn/MnO ₂ primary cell: comparative discharge performance studies with their bulk counterparts	RSC Adv., 4, 42129-42136.	Referred Journal	7
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79.	K. Kavitha, W. Chunyan, D. Navaneethan, V. Rajendran , Suresh Valiyaveetil and A. Vinoth (2014)	In vitro gene expression and preliminary in vivo studies of temperature dependent titania-graphene nanocomposites for bone replacement applications	RSC Adv., 4, 43951-43961.	Referred Journal	8
80.	M. Prabhu, S. Ruby Priscilla, K. Kavitha, P. Manivasakan, V. Rajendran and P. Kulandaivelu (2014)	In Vitro bioactivity and Antimicrobial tuning of bioactive glass nanopowder doped with neem (Azadirachta indica) for tissue engineering applications	BioMed Research International, 2014, 1-10.	Referred Journal	16
81.	N.R. Dhineshbabu, S. Arunmetha, P. Manivasakan, G. Karunakaran, and V. Rajendran . (2014)	Enhanced Functional Properties of Cotton Fabrics Using TiO ₂ /SiO ₂ nanocomposites	Journal of Industrial Textiles, Accepted: DOI: 10.1177/1528083714538684.	Referred Journal	14

82.	K. Jothi Ramalingam, N. R. Dhineshbabu, S. R. Srither, B. Saravanakumar, R. Yuvakkumar and V. Rajendran. (2014)	Electrical measurement of PVA/graphene nanofibers for transparent electrode applications	Synthetic metals. 191, 113-119.	Referred Journal	26
83.	R. Palanivelu, P. Padmanaban, S. Sutha and V. Rajendran. (2014)	Inexpensive approach for production of high- surface area silica nanoparticles from rice hulls biomass	IET Nanobiotechnolo gy, 8(4), 290- 294.	Referred Journal	7
84.	D. Shanmugapriya, R. Yuvakkumar, R. Suriyaprabha and V. Rajendran. (2014)	Chitosan Nanoparticle- Incorporated Composite HPMC Films for Food Preservation	Journal of Nanoparticle Research, 16, 2248.	Referred Journal	38
85.	R. Suriyaprabha, G. Karunakaran, R. Yuvakkumar, P. Prabu, V. Rajendran and N. Kannan. (2014)	Effect of silica nanoparticles on microbial biomass and silica availability in maize	Biotechnology and applied biochemistry. 61(6), 668–675.	Referred Journal	3
86.	R. Suriyaprabha, G. Karunakaran, K. Kavitha, R. Yuvakkumar, V. Rajendran and N. Kannan. (2014)	Applications of silica nanoparticles in maize to enhance fungal resistance	IET Nanobiotechnol., 8(3), 133-137.	Referred Journal	36
87.	R. Suriyaprabha, G. Karunakaran, R. Yuvakkumar, V. Rajendran and N. Kannan. (2014)	Foliar application of silica nanoparticles on the phytochemical responses of maize (Zea mays L.) and its toxicological behavior	Synthesis and Reactivity in Inorganic, Metal- Organic, and Nano-Metal Chemistry, 44, 1128-1131.	Referred Journal	16
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100.	V Rajendran (2013)	Influence of Various Surfactants on Size, Morphology, and Optical Properties of CeO ₂ Nanostructures via Facile Hydrothermal Route	Journal of Nanoparticles.	Referred Journal	14
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102.	Nazmemoushmy, Kamal Alameh, V. Rajendran and Yong Tak Lee. (2013)	Silver-Nanoparticle-based etch mask control for subwavelength structure development	Nanosystems: Physics, Chemistry, Mathematics, 4(3), 387-394.	Referred Journal	1

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	V. Rajendran, K. Singh, A.V. Gayathri Devi and S. Aravindan. (2006)		2356 – 2364.		
187.	N. Palanivelu, V. Rajendran. (2006)	Dependence of elastic properties and ultrasonic velocities on the structure of vanadate lead tellurite glasses.	Phys. stat. sol. (a). 203(10) 2347-2355.	Referred Journal	8
188.	A.V. Gayathri Devi, V. Rajendran, K. Jeya subramanian, N. Suresh Kumar and S.A.M. Abdel- Hameed. (2006)	Ultrasonic Investigation on Nanocrystalline Barium Borate (BBO)	Glass Ceramics. Synthesis and Reactivity in Inorganic. Metal- Organic and Nano-Metal Chemistry, 36, 215-219.	Referred Journal	7
189.	A. Nishara Begum, V. Rajendran and HeimoYlanen. (2006)	Effect of thermal treatment on physical properties of bioactive glass.	Materials Chemistry and Physics. 96(2-3), 409-417.	Referred Journal	25
190.	V. Rajendran, N. Palanivelu and B.K. Chaudhuri. (2005)	A device for the measurement of ultrasonic velocity and attenuation in solid materials under different thermal conditions	Measurement . 38(3), 248-256.	Referred Journal	22
191.	V. Rajendran, S. Muthu Kumaran, . Jayakumar, P. Palanichamy and Baldev Raj. (2004)	Ultrasonic studies for microstructural characterisation in A98090 aluminium lithium alloy.	Materials Evaluation. 63(8), 837-842.	Referred Journal	103
192.	V. Rajendran, S. Muthu Kumaran, V. Siva subramanian, T. Jayakumar, and Baldev Raj. (2003)	Anomalies in ultrasonic velocity and attenuation in Nd _{0.67} Sr _{0.33} MnO ₃ perovskite	Physica B, 336, 261-266.	Referred Journal	8
193.	V. Rajendran, A. Nishara Begum, M.AAzooz, and F H El-Batal. (2003)	Effect of thermal treatment on elastic properties of SiO ₂ -Na ₂ O-CaO-P ₂ O ₅ glasses for biomedical applications	Materials Letters, 58, 211-215.	Referred Journal	3
194.	V. Rajendran, A. Nishara Begum, AA El- Kheshen and F H	Elastic properties of and dependence on microstrucutre of	International Journal of Acoustics and	Referred Journal	

	El-Batal. (2003)	phosphate based bioactive glasses	Vibration. 8(2), 89-94.		
195.	V. Rajendran, N. Palanivelu, BK Chaudhuri and K. Goswamy. (2003)	Characterisation of semiconducting $V_2O_5 - Bi_2O_3 - TeO_2$ glasses through ultrasonic measurements	Journal of Non-crystalline Solids, 320, 195-209.	Referred Journal	156
196.	V. Rajendran, A. Nishara Begum and F.H. El-Batal. (2003)	Structure, Stability and Mechanical Properties of Calcium Aluminoborate containing and Na_2O and P_2O_5 Glass for Biomedical Applications	Key Engineering Materials. 240-242, 963-966.	Referred Journal	4
197.	V. Rajendran, S. Muthu Kumaran, V. Siva subramanian, T. Jayakumar and Baldev Raj. (2003)	Anomalies in elastic moduli and ultrasonic attenuation near ferromagnetic transition temperature in $La_{0.67}Sr_{0.33}MnO_3$ perovskite	Phys. stat. sol. (a). 195, 350-358.	Referred Journal	
198.	V. Rajendran and A. Nishara Begum. (2002)	Structural role of tellurim atoms in $TeO_2 - B_2O_3$ glassy system through ultrasonic studies.	Journal of Acoustical Society of India. 30, 103-108.	Referred Journal	
199.	V. Rajendran, N. Palanivelu, B.K. Chaudhuri and K. Goswami. (2002)	Influence of $BaTiO_3$ doping on elastic properties in semiconducting $V_2O_5 - Bi_2O_3 - TeO_2$ multicomponent oxide glasses	Journal of Materials Science Letters. 21, 1619-1622.	Referred Journal	7
200.	V. Rajendran, A. Nishara Begum, F.H. EL-Batal, M.A. Azzoz and H.A. EL-Batal. (2002)	Microstructural dependence on relevant physical-mechanical properties on $SiO_2 - Na_2O - CaO - P_2O_5$ biological glasses	Biomaterials. 23, 4263 – 4275.	Referred Journal	61
201.	V. Rajendran, N. Palanivelu, B.K. Chaudhuri and K. Goswamy. (2002)	Temperature and composition dependence of the elastic properties of semiconducting $(100-x)V_2O_5 - xPbO$ oxide glasses	Phys. stat. sol. (a). 191(2), 445-457.	Referred Journal	23
202.	V. Rajendran, N. Palanivelu, P. Palanichamy, T. Jayakumar, Baldev Raj and	Ultrasonic Characterization of ferroelectric $BaTiO_3$ doped Lead-bismuth oxide semiconducting	Journal of Non-Crystalline Solids. 296(1-2), 39-49.	Referred Journal	40

	B.K. Chaudhuri. (2001)	glasses			
203.	V. Rajendran, N. Palanivelu, D.K. Modak and B.K. Chaudhuri. (2000)	Ultrasonic investigation on ferroelectric BaTiO ₃ doped 80V ₂ O ₅ -20PbO oxide glasses	Physica Status Solidi (a).180(2), 467- 477.	Referred Journal	70
204.	V. Rajendran, N. Palanivelu, I.M. Youssof and H.A. El-Batal. (2000)	Investigation of elastic properties of Titanium doped Calcium Alumino Borate Glasses	Journal of Acoustical Society. India, 28 (1-4), 203-206.	Referred Journal	
205.	V. Rajendran, N. Palanivelu, H.A. El-Batal, F.A. Khalifa and N.A. Shafi. (1999)	Effect of Al ₂ O ₃ addition on the acoustical properties of Lithium Borate glasses.	Acoustics Letters. 23(6), 113-121.	Referred Journal	22
206.	V. Rajendran, N. Palanivelu and B.K. Chaudhuri. (1999)	Estimation of Debye temperature on highly conducting superconducting glassy precursors and oxide glasses	. Acoustics Letters, 22(11), 212-219.	Referred Journal	
207.	V. Rajendran, N. Palanivelu and B.K. Chaudhuri. (1999)	Ultrasonic Investigation on Vanadate Glasses containing Lead	Journal of Acoustical Society. 27 (1- 4), 249-252.	Referred Journal	2
208.	V. Rajendran, N. Palanivelu, F.A. Khalifa and H.A. El-Batal. (1999)	Elastic properties of some alkali silicate glasses	Journal of Acoustical Society. 27 (1- 4), 239-243.	Referred Journal	
209.	V. Rajendran, S. Sivaram Kumar, P. Kannan and M.S. Palanichamy. (1999)	Effect of Texture and grain size on elastic properties of some igneous rocks	Journal of Acoustical Society. 27 (1- 4), 225-229.	Referred Journal	
210.	V. Rajendran. (1999)	Ultrasonic non- destructive evaluation for characterisation, microdefects detection and imaging of industrial /medical based materials.	J. Pure Appl. Ultrason. 21(1), 16-26.	Referred Journal	2
211.	V. Rajendran, HA. EL-Batal, and F.A. Khalifa. (1998)	Behaviour of ultrasonic waves on chromium doped XPbO- (100-X) B ₂ O ₃ glasses	Egypt. J. Chem. 41(1-6), 329- 337.	Referred Journal	
212.	V. Rajendran, A.K. Bera and	Ultrasonic study of bioactive	Acoustics Letters.	Referred Journal	6

	D.K. Modak. (1997)	Na-Ca-B-Al-Si-P-O glasses	20(8), 168-172.		
213.	V.Rajendran , S. Bhattacharya, D.K. Modak , A.K. Bera, S. Chatterjee and B.K. Chaudhuri. (1997)	Concentration dependent acoustic and Electrical properties of highly conducting Bi _{3.5} PbO _{0.5} Sr ₃ Ca ₃ Cu ₄ O _z + xAg ₂ O type glassy precursors for high T _c superconductors.	Phil. Mag. B, 75(5), 647-658.	Referred Journal	
214.	V.Rajendran , H.A. EL-Batal and F.A. Khalifa. (1997)	Analysis of the propagation of ultrasonic waves on chromium doped 40Na ₂ O-60SiO ₂ glasses.	Indian Journal of Pure & Applied Physics. 35, 82-86.	Referred Journal	
215.	V.Rajendran , F.A. Khalifa and H.A. EL-Batal. (1997)	Propagation of ultrasonic waves on nickel doped calcium aluminoborate glasses	Indian Journal of Pure & Applied Physics. 35, 618-623.	Referred Journal	
216.	V.Rajendran (1996)	Volumetric, viscometric and ultrasonic behaviour of n-heptane with isomeric alcohols at 298.15K	Indian Journal of Pure & Applied Physics. 34, 52-56.	Referred Journal	22
217.	V.Rajendran , AN. Kannappan and R. Mani. (1995)	Study of Ultrasonic Velocity and attenuation in some Rock Specimens.	Acustica, 81, 79-80.	Referred Journal	2
218.	V.Rajendran and H.A. El-Batal. (1995)	Behaviour of acoustical parameters of mixed alkali silicate glasses	Indian Journal of Pure & Applied Physics. 33, 29-33.	Referred Journal	13
219.	V.Rajendran , F.A. Khalifa and H.A. El-Batal. (1995)	Investigation of acoustical parameters in binary X LiO ₂ -(100-X) SiO ₂ glasses	Indian Journal of Physics A. 69, 237-242.	Referred Journal	6
220.	V.Rajendran . (1995)	Acoustical behaviour of Tetraalkylammonium salts in dioxane + water solvent mixtures at 303.15 K.	Journal of Pure and Applied Ultrasonics. 17, 65-68.	Referred Journal	9
221.	V.Rajendran and AN. Kannappan. (1994)	Excess isentropic compressibility and computation of sound velocity in ternary liquid	Indian Journal of Physics B. 68, 131-138.	Referred Journal	34

		mixtures			
222.	AN. Kannappan, N. Palanivelu, S. Vanaja and V.Rajendran (1994)	Thermodynamic studies on binary liquid mixtures from ultrasonic data.	Indian Journal of Chemical Technology. 1, 124-126.	Referred Journal	5
223.	V.Rajendran. (1994)	Computation of thermodynamic parameters of tetra-alkylammonium bromides in dioxane-water mixtures at 303.15K.	Indian Journal of Pure & Applied Physics. 32, 523-525.	Referred Journal	6
224.	V.Rajendran, A. Marikani and N. Palanivelu. (1994)	Temperature dependence of excess thermodynamic properties of acetic acid with allyl and benzyl alcohol mixtures.	J. Pure Appl. Ultrason. 16, 16-20.	Referred Journal	
225.	V.Rajendran (1994)	Excess enthalpies of some ternary liquid mixtures	Indian Journal of Pure & Applied Physics. 32, 19-24.	Referred Journal	13
226.	V.Rajendran and AN. Kannappan. (1994)	Partial molar compressibilities and partial molar volumes in some aqueous salt solutions	Indian J. Phys. B, 68(6), 525 - 538.	Referred Journal	
227.	V.Rajendran and A. Marikani. (1994)	Investigation of Thermodynamic properties of amine-alcohol mixtures at 303.15K.	Acoustics Letters. 18, 90-94.	Referred Journal	3
228.	V. Rajendran. (1993)	Internal Pressure studies of Binary mixture higher alcohol in TEA	Indian Journal of Pure & Applied Physics. 31(11) , 8 12-814	Referred Journal	21
229.	V. Rajendran. Benny (1993)	Ultrasonic studies of Isentropic compressability in polar liquid	Acoustic Letters 32- 36	Referred Journal	7
230.	AN. Kannappan, R. Kesavasamy and V. Rajendran	Acoustic and physico-chemical properties of binary mixtures of some hydrocarbons with bromoform	J. Pure Appl. Ultrason. 15, 29-32. 1993	Referred Journal	-
231.	V. Rajendran.	Prediction of excess enthalpy of ternary liquid mixtures and their correlation with Flory's statistical theory	Journal of Acoustical Society of India. 21, 255-259	Referred Journal	4

232.	V. Rajendran and AN. Kannappan.	Ultrasonic studies on Na ₂ SO ₄ in dioxane-water mixtures at different temperatures.	Journal of Molecular liquids. (Poland), 54, 27-31 (1992)	Referred Journal	-
233.	AN. Kannappan and V. Rajendran.	Acoustic parameters of some ternary liquid mixtures	Indian Journal of Pure & Applied Physics. 30, 240-242. (1992)	Referred Journal	-
234.	AN. Kannappan and V. Rajendran.	Viscosity and PMR spin-lattice relaxation studies in some ternary electrolytes	Indian Journal of Pure & Applied Physics. 30, 178-179. (1992)	Referred Journal	-
235.	AN. Kannappan and V. Rajendran.	Ultrasonic study on ternary electrolyte	Indian Journal of Physics B. 66, 135-139. (1992)	Referred Journal	8
236.	V. Rajendran and AN. Kannappan.	Ultrasonic study of molecular interactions and evaluation of sound velocity from Flory's theory in ternary liquid mixtures	Acustica (Germany). 75, 192-195 (1991)	Referred Journal	10
237.	AN. Kannappan and V. Rajendran,	Ultrasonic studies on carboxylic acids with amine in a non-polar solvent.	Indian J. Phys. B65 (3), 266-271. (1991)	Referred Journal	-
238.	AN. Kannappan and V. Rajendran.	Molecular interaction studies in ternary liquid mixtures from ultrasonic data.	Indian Journal of Pure & Applied Physics. 29, 465-468. (1991)	Referred Journal	-
239.	AN. Kannappan and V. Rajendran.	Ultrasonic studies on hydrogen-bonded complexes in ternary liquid systems	J. Pure Appl. Ultrason. 13, 27-29. (1991)	Referred Journal	-
240.	AN. Kannappan and V. Rajendran	Excess isentropic compressibility and computation of sound velocity using Flory's theory in ternary liquid mixtures	1. J. Pure Appl. Ultrason. 13, 60-63. (1991)	Referred Journal	-

241.	AN. Kannappan and V. Rajendran.	Ultrasonic studies on molecular interaction and theoretical evaluation of sound velocity in ternary liquid mixtures.	Journal of Acoustical Society of India. 18, 137-140	Referred Journal	-
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ii) Research Papers Published as Co-author

Total No. of research publications

21

Impact factor range from

: 0.3 to 11

S. No.	Author(s)	Title of the Paper	Journal Name with Vol. & Year	Referred Journal or not	No. of citation
242.	JM Ferreira Jr, V Rajendran, G Simonelli, ACM Silva, LCL Santos, S Mattedi, LAM Pontes, I Costa, JL Rossi, MA Baker	Deposition and characterization of a sol-gel Mg-substituted fluorapatite coating with new stoichiometries	Applied Surface Science Volume 505, 1 March 2020, 144393	Referred Journal	
243.	V. Ramasamy, V. Mohana, V. Rajendran	Characterization of Ca doped CeO ₂ quantum dots and their applications in photocatalytic degradation	Open Nano, (2018) 3:38–47.	Referred Journal	2
244.	Susthitha Menon, V. Rajendran	Investigation of Graphene on metal substrates for SPR based sensor using finite difference time domain	IET Nanotechnology (Accepted) (2017)	Referred Journal	10
245.	A. Diallo, T.B. Doyle, B.M. Mothudi, E. Manikandan, V. Rajendran , M. Maaza	Magnetic Behavior of Biosynthesized CO ₃ O ₄ Nanoparticles	Journal of Magnetism and Magnetic Materials (Accepted) (2016)	Referred Journal	20
246.	M. Selvam, K. Saminathan, P. Siva, P. Saha, V. Rajendran	Corrosion behavior of Mg/graphene composite in aqueous electrolyte	Journal of Materials Chemistry and Physics 172(1):129–136. (2016)	Referred Journal	28
247.	L. Arunraja, P. Thirumoorthy, A. Karthik, L. Edwinpaul, and V. Rajendran ,	EDTA Decorated Nanostructured ZnO/CdS Thin Films for Oxygen Gas Sensing Applications	Journal of Electronic Materials. Accepted (2015).	Referred Journal	8
248.	A. Diallo, E. Manikandana, V.	Physical & enhanced photocatalytic	Journal of Alloys and Compounds,	Referred Journal	49

	Rajendrana, M.Maaza	properties of green synthesized SnO ₂ nanoparticles via <i>Aspalathus linearis</i>	681 , 561–570. (2016)		
249.	L. Arunraja, P. Thirumoorthy, A. Karthik, L. Edwinpaul, and V. Rajendran,	Structural, optical, morphology and electrical properties of cadmium sulfide nanoparticles: a simple chemical route	Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, (2015) (Accepted).	Referred Journal	4
250.	Meher Wan, R.R. Yadav, Devraj Singh, M. Sridhar Panday, V. Rajendran	Temperature dependent ultrasonic and thermo-physical properties of polyaniline nanofibers reinforced epoxy composites	Composites Part B: Engineering, 87 , 40–46. (2016)	Referred Journal	15
251.	M Selvam, SR Srithir, K Saminathan, V. Rajendran	Chemically and electrochemically prepared graphene/MnO ₂ nanocomposite electrodes for zinc primary cells: a comparative study	Ionics, 21(3) , 791-799. (2015)	Referred Journal	5
252.	Deniz Po Wong, R.Suriyaprabha, R Yuvakkumar, V. Rajendran, Yit-Tsong Chen, Bing Joe Hwang, Li-Chyong Chen and Kuei Hsien Chen	Binder-free Rice Husk-based Silicon-Graphene Composite as Energy Efficient Li-ion Battery Anodes	J. Mater. Chem. A, 2 , 13437- 13441. (2014)	Referred Journal	65
253.	L Arunraja, P Thirumoorthy, P Gowthaman, L Dhatchinamurthy, V Rajendran and A Karthik	Effect of Annealing Temperature on Optical Properties of Cadmium Sulfide Thinfilms	Journal of NanoScience and NanoTechnology 2 (1), 714-716. (2014)	Referred Journal	1
254.	P. Palanichamy, V.S. Srinivasan, T. Jayakumar & V. Rajendran.	Microstructural Characterisation of Fatigue and Creep-Fatigue Damaged 316L (N) Stainless Steel Through Ultrasonic Measurements	Procedia Engineering, 55 , 154-159. (2013)	Referred Journal	44
255.	S. Padmaja, S. Jayakumar, R. Balaji, C. Sudakar, Kumaravel, V. Rajendran, M.	Structural and Optical Properties of CdS/PEO Nanocomposite Solid Films	Materials Science in Semiconductor Processing, 16 , 1502–1507.	Referred Journal	

	Rajkumar and A.V.Radhamani		(2013)		
256.	M. Selvam, K. Sakthipandi, R. Suriyaprabha, K. Saminathan & V Rajendran.	Synthesis and Charaterisation of Electrochemically-Reduced Graphene	Bull. Mater. Sci., 36 , 1315–1321. (2013)	Referred Journal	15
257.	N. Gobi, T. Ramachandran, V. Rajendran & R. Palanivelu.	Effect of Silica Nanoparticles and BTCA on Physical Properties of Cotton Fabrics	Materials Research. 14(4) , 552-559. (2011)	Referred Journal	56
258.	E. Nithya, R. Radhai, R. Rajendran, S. Shalini, V. Rajendran and S. Jayakumar.	Synergetic effect of DC air plasma and cellulase enzyme treatment on the hydrophilicity of cotton fabric	Carbohydrate Polymers. 83 , 1652-1658. (2011)	Referred Journal	
259.	T. Ramachandran, N. Gobi, V. Rajendran & C.B. Lakshmikantha.	Optimization of process parameters for crease resistant Finish to cotton fabric using citric acid.	Indian Journal of Fibre and Textile Research, 34 , 359-367. (2009)	Referred Journal	
260.	G. Sharma, K. Singh, Manupriya, H.S. Klare, V. Rajendran , A.V. Gayathri Devi and S.B. Narang.	γ - Irradiation effect on acoustical properties of zinc lead borate glasses	Phys. stat. sol. (a). 202(14) , 2720-2730. (2005)	Referred Journal	9
261.	M Noel and V Rajendran	A comprehensive model for cyclic voltammetric study of intercalation/de-intercalation process incorporating charge transfer, ion transport and thin layer phenomena	Journal of power sources 88 , 243-249. (2000)	Referred Journal	6

II. Books authored

a) Text Books	:	19
b) Research Books	:	02
c) Monographs	:	01
d) Compendium	:	01

i) Text Books

S. No.	Authors	Title	Year	ISBN	Publishers
1)	V. Rajendran	Engineering Physics	2019	978-93-5316-290-0	McGraw-Hill, New Delhi
2)	V. Rajendran	Engineering Physics (Gujarat Technological University)	2014	978-93-3921-413-5	McGraw-Hill, New Delhi
3)	V. Rajendran	i. Engineering Physics	2014	978-9-38-328-646-1	McGraw-Hill, New Delhi
		ii. Engineering Physics (All India Edition 4th reprint)	2014	978-0-07-107014-0	McGraw-Hill, New Delhi
		iii. Engineering Physics (All India Edition)	2009	978-0-07-026103-7	McGraw-Hill, New Delhi
4)	V. Rajendran	Engineering Physics (Jawaharlal Nehru Technical University, Kakinada)	2014	978-93-3290-122-3	McGraw-Hill, New Delhi
5)	V. Rajendran	Engineering Physics (Anna University, Chennai, Coimbatore, Trichy & Tirunelveli)	2011	978-0-07-070793-1	McGraw-Hill, New Delhi
6)	V. Rajendran	Material Science (All India Edition)	2012	978-0-07-132897-5	McGraw-Hill, New Delhi
7)	V. Rajendran	Engineering Physics (Visvesvaraya Technological University, Bangalore)	2011	978-0-07-106830-7 0-07-106830-9	McGraw-Hill, New Delhi

S. No.	Authors	Title	Year	ISBN	Publishers
8)	V. Rajendran K Thyagarajan	Engineering Physics (JNTU, Anantapur)	2011	978-0-07-106826-0	McGraw-Hill, New Delhi
9)	V Rajendran K Thyagarajan	Engineering Physics (JNTU, Andra Pradesh)	2009	978-0-07-068132-3	McGraw-Hill, New Delhi
10)	V. Rajendran, A. Marikani	Physics – I (Dr.M.G.R. University)	2007	978-0-07-066751-8	McGraw-Hill, New Delhi
11)	V. Rajendran, A. Marikani	Material Science	2011	978-0-07-058369-6 0-0-7-05869-2	McGraw-Hill, New Delhi
12)	V. Rajendran, A. Marikani	i. Applied Physics for Engineers (4/e) (Anna University, Chennai)	2003	978-0-07-053482-7	McGraw-Hill, New Delhi
		ii. Applied Physics for Engineers (3/e) (Anna University, Chennai)	2001	978-0-07-044549-4	McGraw-Hill, New Delhi
		iii. Applied Physics for Engineers (2/e) (Anna University, Chennai)	2002	978-0-07-463102-0	McGraw-Hill, New Delhi
		iv. Applied Physics for Engineers (1/e) (Anna University, Chennai)	1997	978-0-07-463345-7	McGraw-Hill, New Delhi
13)	V. Rajendran, A. Marikani, J. Poongodi	Semiconductor Physics and Optoelectronics (Anna University, Chennai)	2003	978-8-12-591448-8	Vikas Publishing House

S. No.	Authors	Title	Year	ISBN	Publishers
14)	V. Rajendran, Sankar Rajan S, Shunmugasundaram A, Rajasekaran K, Anandam N, Muthusamy A & Inbamani N	A complete guide to TNPCEE 2000 (Engineering)	2000	978-0-07-044518-4	McGraw-Hill, New Delhi
15)	V. Rajendran, Sankar Rajan S, Shunmugasundaram A, Rajasekaran K, & Inbamani N	A complete guide for TNPCEE 2000 (Medical & Agriculture)	2000	978-0-07-463938-2	McGraw-Hill, New Delhi
16)	V. Rajendran	Engineering Physics (VIT University, Sathyabama University & Noor Islam University)	2012	978-0-07-132874-6 0-07-132874-2	McGraw-Hill, New Delhi
17)	V. Rajendran	Engineering Physics (Semester – I) (Sathyabama University)	2011	978-0-07-107247-2	McGraw-Hill, New Delhi
18)	V. Rajendran	Engineering Physics (Semester – II) (Sathyabama University)	2011	978-0-07-107248-9	McGraw-Hill, New Delhi
19)	V. Rajendran, A. Marikani	Physics – I (Anna University, Chennai)	2004	978-0-07-058600-0	McGraw-Hill, New Delhi

ii) Research Books

S. No.	Authors	Title	Year	ISBN	Publishers
1)	Baldev Raj, V. Rajendran, P. Palanichamy	Science and Technology of Ultrasonics	2004	1-84265-066-1	Narosa Publishing House, New Delhi

2)	Baldev Raj, V. Rajendran P. Palanichamy	Science and Technology of Ultrasonics (Russian Edition)	2006	5-94836-088-1	Alpha Science International Ltd, Pangbourne, United kingdom & M/s. Narosa Publishing House, New Delhi
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iii) Monographs

S. No	Authors	Title	Year	ISBN	Publishers
1)	V. Rajendran, (Col.) S. K. Bhandari	Bioactive Glasses For Implant Applications.	2010	81- 86514- 33-3	Defense Scientific and Documentation Centre (DESIDOC), New Delhi

iv) Compendium

S. No	Authors	Title	Year	ISBN	Publishers
1)	V. Rajendran, W. Selvamurthy	Indian Capability on Nano Science and Technology	2011	978-935- 059-030-0	MacMillan Publishers India Ltd

f) Details of Research/Academic events conducted

International Conferences : 10

National Conferences : 17

(i) International

S. No.	Title	Date	Organization and Place	Role
1)	International Conference on Prospects of Nutraceuticals and Natural Medicine	Feb 28, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
2)	International Workshop on Intellectual Property Rights (WIPR – 19)	Feb 15-16, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
3)	International Conference on Emerging Trends in Applied Mathematics	Feb 18, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair

4)	International Workshop on Health Risk Assessment of Nanoparticles	Dec 5-7, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
5)	International Conference on Recent trends in Computing Technologies - ICRTCT-18	Aug 9-10, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
6)	International Workshop on Health Risk Assessment of Nanoparticles	Sep 11 -13, 2017	KS Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
7)	International Conference on Nanomaterials and Nano Technology (NANO-15)	Dec 7-10, 2015	KS Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
8)	International Symposium on Macro- and Supra-molecular Architectures and Materials (MAM-12)	Nov 21-25, 2012	KS Rangasamy College of Technology and Le Meridian, Coimbatore	Organizing Chair
9)	International Conference on Nano Materials and Nano Technology (NANO-10)	Dec 13-16, 2010	KS Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
10)	International Conference on Nanomaterials (NANO-05)	Dec 5 -7, 2005	MepcoSchlenk Engineering College, Sivakasi, Tamil Nadu	Organizing Chair

(ii) National

S. No.	Title	Date	Organization and Place	Role
1)	National Conference on Entrepreneurship and Women Development NCEWE-2018	Sep 20, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
2)	National Conference on Opportunities and Challenges of Business in the Digitalized ERS (COCBD-18)	Sep 27-28, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair

3)	Faculty Development Programme on Quality Measures in Higher Education	Dec 3- 9, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
4)	National Seminar on Nonwovens Materials, Production Technologies & Applications	Dec 14, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
5)	National Conference on Applications of Statistics in Biological Sciences	Feb 7-8, 2018	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
6)	DBT Sponsored National Workshop on Data Analytics and its Applications in Biotechnology	Feb 14-15, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
7)	National Symposium on Graduate Research-19	Feb 26 - 27, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
8)	National Conference on Recent Discourses on Language and Literature	Mar 11, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
9)	Faculty Development Programme on NAAC Revised Accreditation Framework (RAF) and OBE Implementation	May 27 – June 2, 2019	Dr. N.G.P Arts and Science College, Coimbatore	Organizing Chair
10)	Science Academies Lecture Workshop on Recent Trends in Nano biotechnology	Jan 25-27, 2016	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
11)	Regional International Ozone Day Celebration – 2013	Sep 16, 2013	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Convener
12)	Lecture Workshop on Selected Topics in Pure and Applied Physics	Feb 6-8, 2015	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
13)	Programme Advisory Committee Meeting – Condensed Matter Physics (DST - PAC)	Jul 6-8, 2009	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Convener
14)	National Symposium on Acoustics (NSA - 2007)	Dec 5 -7, 2007	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair

15)	National Workshop on Nanotechnology	Jan 11-12, 2007	K S Rangasamy College of Technology, Tiruchengode, Tamil Nadu	Organizing Chair
16)	National Symposium on Acoustics (NSA - 99)	Sep 23-24, 1999	Mepco Schenk Engineering College, Sivakasi, Tamil Nadu	Convener
17)	National Symposium on Ultrasonics (NSU - 96)	Sep 6-7, 1996	Mepco Schenk Engineering College, Sivakasi, Tamil Nadu	Convener

f) Conference/Seminar/Workshop/Training Participated

International Participated 20
National Participated 34

i) International

S. No.	Title	Date	Place	Organized by
1)	Fifth International Conference Nanotechnology, Biotechnology and Spectroscopy (ICNBS-2017)	Mar 24-26, 2017	Egypt	Naqaa Foundation for Scientific Research, Technology and Development, Egypt
2)	Bio Summit 2016	Oct 10-12, 2016	Dubai	Conference Series LLC, UK
3)	MAM-14	Nov 22-28, 2014	Johannesburg, South Africa	Macro-and Supramolecular Architectures and Materials
4)	International Conference on Nanostructure and nanomaterials : Science and Applications	Feb 7-9, 2012	Iran	Prof. Pezhman Molaei, Masjedsoleyman, Iran
5)	International Conference and Exposition on Advanced ceramics and Composites	Jan 22-27, 2012	The American Ceramic Society, USA	The American Ceramic Society, USA
6)	14 th Asian Chemical Congress, Contemporary Chemistry for Sustainable and economic Sufficiency	Sep 5-8, 2011	Bangkok, Thailand	Chemical Society of Thailand

7)	35 th International Conference and Exposition on Advanced Ceramics and Composites (ICACC'11)	Jan 23-28, 2011	Florida, USA	ACerS Engineering Ceramics Division
8)	5 th International Conference on Advances in Mechanical Engineering and Mechanics	Dec 18-20, 2010	Hammamet, Tunisia.	iMechanica web of mechanics and mechanicians
9)	International Conference on Food and Agriculture Application of Nanotechnologies	Jun 20-25, 2010	Sao Pedro, SP, Brazil	Food and Agriculture Organization of the United Nations (FAO)
10)	2 nd WCU Symposisum on Nanobio Materials and Electronics, South Korea	Apl 22-24, 2010	Gwangju,	GIST, South Korea
11)	International Conference and Training Workshop on Going NanoGreen: Nano/Molecular Photochemistry and Nanomaterials for green Energy Development	Feb14-18, 2010	Egypt	Ain Shams University, Cairo, Egypt
12)	6 th GCHERA Conference	Nov 23 - 27, 2009	Kenya	Jomo Kenyatta University of Agriculture and Technology, Kenya
13)	Asia Nano Forum-Summit 2006	Nov 1-3, 2006	Hong Kong	Asia Pacific Nanotechnology Forum
14)	Nano Trends 2005	Jun 6-7, 2005	Munich, Germany	TNT Conference series
15)	3 rd International Conference on Materials Processing for Properties and Performance(MP3)	Nov 24-26, 2004.	Singapore	Nanyang Technological University, Singapore
16)	10 th International Conference on Sound and Vibration (ICSV10)	Jul 7-10, 2003	Sweden	Royal Institute of Technology (KTH), Stockholm, Sweden
17)	Eighth International Workshop on Electromagnetic Nondestructive Evaluation (ENDE)	Jun 12-14, 2002	Germany	Fraunhofer Institute for Nondestructive Testing, Izfp, Saarbrucken, Germany

18)	9 th International Conference on Sound and Vibration (ICSV9)	Jun 4-8, 2002	Florida, USA	University of Central Florida, Florida, USA
19)	8 th International Congress on Sound and Vibration (ICSV8)	Jul 2-6, 2001	Hong Kong	Polytech University, Hong Kong
20)	15 th World Conference on Non Destructive Testing (15th WCNDT)	Oct 15-21, 2000	Roma	Italy

ii) National

S. No.	Title	Date	Place	Organized by
1)	National Conference on Nano materials 2019	January 24-25, 2019	Tirupur, Tamil Nadu	LRG Government Arts College for Women, Tirupur, Tamil Nadu
2)	National Conference on Recent Innovation in Nano Medicine and Drug Delivery	June 7, 2019	Coimbatore, Tamil Nadu	Sri Ramakrishna College of Arts & Science, Coimbatore, Tamil Nadu
3)	International Conference on Nanomaterials: Science, Technology and Applications (ICNM-13)	December 5-7, 2013	Chennai, Tamil Nadu	B.S Abdur Rahman University, Chennai, Tamil nadu
4)	Current trends in advanced biomedical nanotechnology, 2013 (CTAB-13)	October 9-10, 2013	Coimbatore, Tamil Nadu	Nehru College of Technology, Coimbatore, Tamil Nadu
5)	International Conference on materials for Nano Energy Convergence (ICMENC-2013)	July 04-07, 2013	Coimbatore, Tamil Nadu	Hindustan University, Coimbatore, Tamil Nadu
6)	International conference on Nano Electronics and Devices (ICNEND 13)	January 21-22, 2013	Chennai, Tamil Nadu	Saveetha University, Chennai, Tamil Nadu
7)	National workshop on nanotechnology for defence applications	November 16-17, 2011	New Delhi	SSPL, DRDO, New Delhi
8)	National training on Nanotechnology: Concepts and applications in basic and strategy research	April 23-May 6, 2011	New Delhi	NAIP, ICAR, New Delhi

9)	Indraprastha International Conclave on Nano Science & Technology,	November 16-17, 2010	New Delhi	Guru Gobind Singh Indraprastha University, New Delhi
10)	International Conference on Recent Trends in Materials Science and Technology (ICMST 2010),	October 29-31, 2010	Thiruvananthapuram, Kerala	Thiruvananthapuram, Kerala
11)	International Seminar and Course on Surface Engineering for Industrial Application	March 24-25, 2010	Chennai	Surface Technologies Chennai
12)	International Conference on Nano Science and Technology	March 5-6, 2010	Coimbatore, Tamil Nadu	PSG College of Technology Coimbatore, Tamil Nadu
13)	International Conf. on Nanoscience and Technology in Chemistry, Health, Environment and Energy (NATCHEE 2010)	January 7-9, 2010	Agra	Dayalbagh Educational Institute, Agra, India.
14)	International Symposium on Nanostructured Materials: Structure Properties and Applications (ISNM-2009)	October 28-29, 2009	Jalandhar, Punjab	Kanya Maha Vidyalaya, Jalandhar, Punjab
15)	National Conference on Technology Applications for Sustainable Development	January 29-30, 2009	Erode, Tamil Nadu	Kongu Engineering College, Erode, Tamil Nadu
16)	State-Level Seminar on Growth and Applications of Nanotechnology	January 25, 2008	Rasipuram, Tamil Nadu	Muthayammal College of Arts and Science, Rasipuram, Tamil Nadu
17)	International Conference on Nanomaterial Toxicology,	February 5-7, 2008	Lucknow	Indian Institute of Toxicology Research, Lucknow
18)	International Conference on Nanomaterials and Devices: Processing Applications (NADPA, 2008)	December 11-13, 2008	Roorkee	Indian Institute of Technology, Roorkee
19)	National Seminar on Thrust Research Areas in Modern Biosciences	January 24, 2008	Coimbatore, Tamil Nadu	PSG College of Arts & Science, Coimbatore, Tamil Nadu

20)	National Conference on Nanoscale Devices and Systems (NDS '07)	March 30, 2007	Rasipuram, Tamil Nadu	Muthayammal Engineering College, Rasipuram, Tamil Nadu
21)	National Seminar on Nanotechnology and Nano Science Nanoworld	January 4-5, 2007	Trichy, Tamil Nadu	SRC, Trichy, Tamil Nadu
22)	National conference on Recent Advancements in Materials Science RAMS-2006	December 29-30, 2006	Chennai, Tamil Nadu	Ramakrishna Mission Vivekananda College, Chennai, Tamil Nadu
23)	National Symposium on Acoustics (NSA – 2006)	November 16-17, 2006	New Delhi	National Physical Laboratory, New Delhi
24)	Fourteenth National Symposium on Ultrasonics	February 16-18, 2006	New Delhi	National Physical Laboratory, New Delhi
25)	National Conference on Ultrasonics (NCU05)	December 1, 2005	Trichy, Tamil Nadu	Holy Cross College Trichy, Tamil Nadu
26)	National Seminar on Emerging Trends in Physics,	September 22-23, 2005	Karumathur, Tamil Nadu	Arul Anandar College Karumathur, Tamil Nadu
27)	National Symposium on Acoustics (NSA-2003)	October 31st-November 1st, 2003	Pune	The Automotive Research Association of India, Pune
28)	Fundamentals of Ultrasound	December 26, 2002	Chidambaram, Tamil Nadu	Department of Physics UGC Sponsored Refresher Course in Physics, Annamalai University, Chidambaram, Tamil Nadu
29)	National Conference on Recent Advances in Materials Sciences (NCMS-2002)	December 11-12, 2002	Trichy, Tamil Nadu	Nehru Memorial College Puthanampatti, Trichy, Tamil Nadu
30)	National Symposium on Acoustics (NSA-2002)	October 22-24, 2002	Aligarh	Aligarh Muslim University, Aligarh
31)	One day seminar on Recent Trends in Physics	February 15, 2000	Trichy, Tamil Nadu	S.R. College for Women Trichy, Tamil Nadu

32)	One day Workshop on Physical Ultrasonics	February 27, 1999	Trichy, Tamil Nadu	St. Joseph's College Trichy, Tamil Nadu
33)	9th National Symposium on Ultrasonics (NSU-98)	December 14-16, 1998	Pondicherry	Ultrasonics Society of India, Raman School of Physics, Pondicherry University, Pondicherry
34)	One day Workshop on Physical Ultrasonics	January 27, 1998	Trichy, Tamil Nadu	St. Joseph's College Trichy, Tamil Nadu

h) Patents and Technology

Patents : Granted : 04, Listed : 10

Technology Transfer : 01

i) Patents

S. No.	Title	Submitted Pending Award	Awarded
1)	A device for the ultrasonic velocity and attenuation measurement in solid samples at low temperature	-	14/DEL/2002 dt. 09.01.2002
2)	A device for the measurement of ultrasonic velocity and attenuation in solid materials under different thermal conditions	-	699/DEL/2001 dt. 26.06.2001
3)	Processing of amorphous nano silica particles from rice hulls through chemical route	-	Patent No. 281341
4)	A novel method to prepare crystalline nano molybdenum particles	-	Patent No. 297894
5)	Preparation of nanoparticles from <i>Acalypha indica</i> leaves employing milling technique for biomedical applications	1715/CHE/2009 dt.20.07.09 Pub:28.01.2011	-
6)	Influence of nano silica on the growth and yield of maize crop (<i>Zea mays</i> .L.)	237/RQ-CHE/2009 dt. 18.05.09	-
7)	Monodispersed colloidal and cocoon shaped nano silica particles for industrial applications	430/RQ-CHE/2009 dt. 27.01.09	-
8)	Preparation of Nanoparticle (<i>Azadirachtha indica</i>) leaves for	2177/CHE/2010 dt. 30/07/2010	-

	biomedical applications		
9)	Preparation of nanotitania (TiO ₂) from ilmenite	4042/CHE/2013 dt. 10/09/2013	-
10)	Titania and Neem Doped Chitosan - Hydroxypropyl Methylcellulose Nano composite Films for Food Packaging Applications	736/CHE/ 2014 dt. 17/02/2014	-
11)	Eco-friendly production of nano alumina (Al ₂ O ₃) from raw bauxite	Filed	-
12)	A Precursor for producing nano sized Titanium dioxide from titanium-bearing materials	Filed	-
13)	Production Nanostructured Silicon from Natural Quartzite	Filed	-
14)	Mass production of MnO ₂ nanoparticles employing spray pyrolysis method for Zinc primary batteries	Filed	-

ii) Technology Transfer

S. No.	Title	Beneficiary	Year
1)	REFRACTORY APPLICATIONS OF NANO METAL OXIDES Collaborative Research Work between K S Rangasamy College of technology & Dalmia Institute of Scientific and Industrial Research	M/s. OCL India Limited, Rajgangpur, Odisha	2011

VIII. ACADEMIC CONTRIBUTIONS

a) Contribution to Formal Education

i) At Dr. N. G. P. Arts and Science College (Bharathiar University)

S. No.	Event	Objectives
1)	Curriculum development cell (CDC)	Revised board of studies members includes Professors from National premier institutions like Indian Institute of Technology's, IISc, IIM, Central universities, National research Laboratories, State universities etc.

2)	Exam reforms	Examination reforms include imparting students analytical skills, OBE, CBCS, MCQ etc.
3)	ICT tools	ICT enabled Teaching Learning through Flipped class rooms and other digital learning tools.
4)	DBT- Star College	Implementation of DBT star college scheme in departments (Biochemistry, Biotechnology, Microbiology, and Food and Nutrition).
5)	National symposium on Graduate Research (NSGR)	Organising NSGR since 2018 for college's regconenzed under DBT star scheme to bring out the inherent talents, skills and innovative ideas from students, NSGR was conceived and organised every year from 2018 formed by linking DBT scheme operating college.
6)	Job oriented course (JOC)	More than, 90 different job-oriented diploma and certificate courses through autonomous scheme, Bharathiyar University and NCVRT are offered to cater to the jobs requirements.
7)	Life Skills	Different life skills (hard and soft) to modle and build character of the students are provided through centre for Value Education.
8)	Academic Careers Development cell	Enlighted students are motivated through different plan forms by providing exposers to seek admissions in higher education particularly in abroad.
		More than 10 students got admission in postgraduate admission in countries like UK and Australia
		During the year 2018 - 19. One of the students got British Council Fellowship to complete her post-graduation at UK.
9)	Training and Placement	Intensive training on communication skill, aptitude, VERSANT, BEG etc. are offered to graduate students to get jobs in MNC.
10)	Value education	Sensitizing the students, towards social needs via courses like Human Rights (HR), Women's Rights (WR) and Environmental studies (EVS).
11)	MHRD initiatives	Courses like IPR, Research Methodology, Entrepreneurship Development and Innovation as directed by MHRD are introduced in all graduates / Post Graduate programmes.

12)	Graduate Research	Graduate students are given more drive to undertake research to bring out their hidden talents and ideas through lab on project (LoP) and Advanced Learner Course (ALC).
13)	Inter and Extra disciplinary knowledge	Flexible learning environment has been created by offering courses of interdisciplinary and extra disciplinary nature.
14)	Industry connect	A platform for students to meet and interact with the notable Entrepreneurs, to equip their ED skills.
15)	Introduction of self-study course in UG & PG curriculum	To inculcate self-learning habits among student community and self-study courses introduced in each program
16)	Promotion of Digital Learning	e-learning through NPTEL, SWYAM & Spoken tutorial is encouraged by giving extra credits to students for course completion through MOOC

ii) At K S Rangasamy College of Technology, (Anna University)

S. No.	Event	Objectives
1)	B. Tech. programme on NST	Graduate programme on NST was conceived and introduced for the first time under organised sector in the year 2014-15.
2)	M. Tech. programme on NST	Graduate programme on NST was conceived and introduced for the first time under organised sector in the year 2008-09.
3)	Students Exchange programmes	Exchange of students and staff was initiated with International Universities (Germany, France, Thailand, South Africa ect.) to motive Indian students to step into Global research event.
4)	Post-Doctoral studies	Mentioned the Post-Doctoral students from developing countries on nanotechnology through Non Aligned Movement of Science and Technology (NAM S & T), India.
5)	International Collaborations	Ph.D. alumni are positioned in various reputed institutions / Universities concern globe due to the MoU and collaborations, staff exchange and student exchange programmes.

6)	Text book publications by staff	More than six books are written and published by staff members through leading publications like Mchraw Hill edition Ltd.
7)	Digital Learning	Digital learning like Nodules, Google class room etc., has been implemented.
8)	Laboratory Manuals	Laboratory manuals for all lab programs are initiated for the skill and knowledge enhancement.
9)	Course materials	Staff members are oriented to bring out their course materials in lucid languages for easy understanding of studies.

b) Textbooks, Manuals, etc., written

i) Text Books

Authored 19 textbooks and 2 research books. Two books, namely, Engineering Physics and Materials Science have been prescribed as textbooks in more than 19 universities, including Anna University, Chennai; Jawaharlal Nehru Technological University (JNTU) - Hyderabad /Anantapur/ Kakinada; Gujarat Technical University (GTU), Gujarat; Visvesvaraya Technological University, Karnataka; Jamia Hamdard University, New Delhi; University of Pune; IGNOU; Biju Patnaik University for Technology, Orissa; Vellore Institute of Technology; SRM University; and Karunya University. Some of the books are in the fourth/fifth/sixth editions due to the quality and elegant presentation, which leads to an annual sale of more than 30,000 copies.

ii) Practical Books

S. No.	Authors	Title	Year	ISBN	Publishers
1)	V. Rajendran, A. Marikani, J. Poongodi	Practical Physics for Engineers – I (Anna University, Chennai)	1997	978-0-07- 040307-4	McGraw-Hill, New Delhi

c) Teaching Aids Developed

S. No.	Design Developed	Beneficiaries
1)	Bulk production of Rice husk ash from Rice husk for Bulk production of Silica nanoparticles	B. Tech & M. Tech Students Synthesis Laboratory Particles
2)	Spray Pyrolysis Experimental Design for Bulk Production of Alumina, Zirconia and Titania Nanoparticles	B. Tech & M. Tech Students Synthesis Laboratory Particles
3)	Hydrothermal Experimental Set-Up for mass production of nano crystalline hydroxyapatite materials for biomedical applications	B. Tech & M. Tech Students Synthesis Laboratory Particles
4)	Electrospinning Set-up to produce polymer nanofibers with variable dimensions	B. Tech & M. Tech Students Synthesis Laboratory Particles
5)	On-line phase transition and the competition between the magnetic and electrical properties of perovskite materials over function of temperature are calculated-On-line High Temperature Ultrasonic Characterisation Facility	B. Tech & M. Tech Students Characterisation Laboratory Particles

d) Courses Designed / Introduced

i) At Dr. N. G. P. Arts and Science College (Bharathiar University)

S. No.	Name of the course	Course level (UG/PG) and program	University / Institute implemented
1)	B.Sc. Computer science with cognitive system	<ul style="list-style-type: none"> • UG programme • Industrial bilateral programme • Tata Consultancy Service from academic year 20-21 	Bharathiar University
2)	B.Sc. Computer science with Data Analytics	<ul style="list-style-type: none"> • UG programme • Industrial bilateral programme • From academic year 2020 – 21 	Bharathiar University

S. No.	Name of the course	Course level (UG/PG) and program	University / Institute implemented
3)	M.Sc. Computer science with data Analytics	<ul style="list-style-type: none"> • PG programme • Industrial bilateral programme • From academic year 2020 – 21 	Bharathiar University
4)	95 Certificate programs	<ul style="list-style-type: none"> • certificate program • Job oriented • Industrials linked • NCVRT – Govt. of India 	Bharathiar University

ii) At K S Rangasamy College of Technology (Anna University)

S. No.	Name of the course	Course level (UG/PG) and program	University / Institute implemented
1)	B. Tech. Nanoscience and Technology	<ul style="list-style-type: none"> • UG course • Approved by AICTE Ref: Southern/1-20173606/2014/EOA, dt. 10.06.14 KSRCT, Academic Council No.10 dt.18.01.14 	Anna University
2)	M. Tech. Nanoscience and Technology	<ul style="list-style-type: none"> • PG course • Approved by AICTE Ref: 730-52-228/97, Dt. 06.08.2008 KSRCT, Academic Council No.03 dt. 21.06.2008 	Anna University
3)	Ph.D. /M.S. Programme (By Research)	<ul style="list-style-type: none"> • Research Program • Approved by Anna University 	Anna University

e) Faculty Development Programmes Conducted

S. No.	Programme title	Duration	Sponsored by	Participants	Resource persons
1.	FDP Programme	7 Days	The Management, Dr. N.G.P. Arts and Science College	In-house: 288 outside: 22	<ul style="list-style-type: none"> • Dr. Prashanth Viswanath • Dr. Bernad D Swami • Dr. E.M. Ashok • Dr. S. Saira Banu • Dr. Ms. Ordetta Mendoza • Dr. S. J. Thiruvankadam • Dr. Suman Sharma • Dr. K. Uthayasurian • Dr. S. Senthilnathan • Dr. C. Kiran Mai Cherukuri • Dr. G. Sethuraman • Dr. S. Murugan • Dr. Latha Nair • Mrs. Sivakami Rajan
2.	Introduction to R programming	2 Days (Aug 30 - 31 st , 2018)	The Management, Dr. N.G.P. Arts and Science College	40 Nos	ICT Academy Staff, Chennai
3.	FDP Programme	7 Days (27 May - 2 June, 2019)	The Management, Dr. N.G.P. Arts and Science College	In-house: 288 outside: 22	<ul style="list-style-type: none"> • Dr. G. Gopal Reddy • Dr. R. Vasantha Gopal • Prof. Marmar Mukhopadhyay • Dr. Prathiba Jolly • Dr. S.P. Thyagarajan • Prof. Dr. V. Rajendran • Dr. B. S. Mathukar

f) Academic Contribution to Other Universities

S. No.	Nature of Contribution	University	Year
1)	Subject Expert Member World class Curriculum Development Cell	Madurai Kamaraj University, Madurai	2014 - 15
2)	Undergraduate curriculum reviewer B. Sc. Materials Science	Srinakharinwirot University, Bangkok, Thailand	2016 - 17
3)	Expert Member UGCCareerAdvancedScheme for University Teachers	Guru Nanak Dev University, Amritsar, India	2011
4)	An International Expert Panel Member of the Nano mineral unit	Mintek Nanotechnology Innovation Centre, Johannesburg, South Africa	2014
5)	Expert Member for nanotechnology conclave - A commercial meet	CII India at New Delhi	2009
6)	Ph. D. thesis examiner Total No of Ph. D. thesis : 28 International 17 National 11	i) International	
		Alexandria university	2019
		Alexandria university	2019
		North-West University	2019
		University of Witwatersrand Johannesburg	2018
		Mansoura University	2018
		University of Johannesburg South Africa	2017
		North West University, South Africa	2017
		Cairo University	2017
		University of South Africa	2016
		Mahidol University, Thailand	2016
		North West University	2015

		South Africa	
		Fayoum University, Egypt	2012
		Cairo University, Egypt	2011
		Kuvempu university, Shankaragatta	2011
		Kuvempu University	2010
		Cairo University	2010
		South Korea	2010
		ii) National	
		Davangare University, Karnataka	2018
		Gauhati University	2017
		Amity Institute of Applied Sciences	2017
		University of Mumbai, India	2016
		Annamalai University, Annamalai Nagar	2014
		D.Y.Patil University, Kolhapur	2013
		University of Madras, Chennai	2013
		Periyar University Salem	2012
		Vinayaka Mission University, Salem	2010
		Urumu. Dhanalakshmi College, Trichy	2008
		Guru Nanak Dev University, Punjab, India	2005
7)	Member	AICTE/UGC/University inspection commission / University Standing Committee	2007
8)	Member Board of Studies	B.E./B.Tech. Madurai Kamaraj University	1996
9)	Member Board of Studies	Anna University, Tamil Nadu	1996

IX. INSTITUTION BUILDING

Funded Research Projects

i) Completed funded projects

S. No	Role	Title of the Project	Amount (in Lakhs)	Funding Agency	Duration
1.	PI	Influence of particle size on the in vivo and in vitro toxicity of metal oxides causing toxicity in a model zebra fish and in normal human bladder cells and bladder tumour cells	07.69	DST – DAAD New Delhi	2016 - 2018
2.	PI	Natural Mineral Sand/Biomass rice husks as a sustainable source of nano silicon for cost effective solar cells	025.00	DST-SERB, New Delhi	2015-2018
3.	PI	Herbal Nanoparticles for Anti-Microbial and UV protection Applications	031.63	BRNS, Mumbai	2014-2018
4.	PI	Development of nano protected fabrics for army and medical application	047.54	DRDO, New Delhi	2011-2014
5.	PI	Nanobioactive glass coated implants for biomedical applications	042.19	DST, New Delhi	2011-2013
6.	PI	Development and characterisation of nanometal oxides for biomedical applications	007.58	UGC-DAE CSR, Kalpakkam	2009-2013
7.	CI	Strategy to improve the growth and yield of maize crop employing nano silica powders	016.09	DRDO, New Delhi	2010-2013
8.	PI	Mapping of Indian capability on Nano Science and Technology	006.50	DRDO, New Delhi	2010-2011
9.	PI	High Temperature in-Situ Ultrasonic Characterisation of Nuclear and other Structural Materials Using First and Second Order Signal Differentials for Identifying Phase Transitions	024.44	IGCAR Kalpakkam	2008-2010
10.	PI	Mono Dispersed colloidal and Cocoon Shaped Nano Silica Particles for abrasive applications	004.98	DRDO New Delhi	2008-2009
11.	CI	Studies on the Growth and yield of Maize Crop Applied with Different Combinations of Nano-Size Silica Particles	004.97	DRDO, New Delhi	2008-2009
12.	CI	Influence of Nano Nutrients on Nitrogen Fixation and yield Rice Crop	004.98	DRDO, New Delhi	2008-2009

13.	PI	Indigenous development of polymer and blended nano fibers for defence and medical applications	009.72	DRDO, NewDelhi	2007-2009
14.	PI	Development of nanocrystalline hydroxyapatite (HAp) - polymer composite for drug design and biomedical applications	024.03	DST, NewDelhi	2007-2010
15.	PI	Development of nano metal oxides incorporated refractories for refractory applications	056.46	DST, NewDelhi	2007-2010
16.	CI	Computer simulation and characterisation studies of nano structured Si-based gels	003.53	UGC NewDelhi	2007-2010
17.	PI	Monograph project - Bioactive glasses for implant applications	001.50	DESIDOC New Delhi	2007-2009
18.	PI	Development of a Technique for Online Measurement of Surface Tension on Flowing Liquids Employing Ultrasonic Velocity Measurements	013.34	BRNS Mumbai	2004-2007
19.	PI	Investigation of the Biocompatibility and Mechanical Interaction of Different Bioactive Glasses for Different Biomedical Applications	009.98	INMAS New Delhi	2005-2007
20.	PI	Elastic Moduli, Ultrasonic Attenuation and Resistivity Properties of $R_{1-x}A_xMnO_3$ Perovskite Manganite Materials	015.81	DST NewDelhi	2003-2006
21.	PI	Ultrasonic non - destructive characterisation of nuclear materials at high temperature	015.25	BRNS Mumbai	2000-2003
22.	PI	Development of Ultrasonic Device for on line measurement of ultrasonic velocity to correlate material properties relevant for safety analysis of simulated experimental studies	011.67	IGCAR Kalpakkam	
23.	PI	Low and high temperature ultrasonic investigation on ferroelectric barium titanate doped bismuth oxide, tellurium oxide and lead oxide containing semiconductors.	004.81	CSIR NewDelhi.	

Total INR 358.06

ii) INSTITUTION BUILDING

S. No.	Name of Project	Event	Budget (Lakhs)	Funding Agency	Year
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1)	IMPRINT	3 days programme on Impacting Research Innovation and Technology (IMPRINT)	31.00	DST, New Delhi	2019
2)	DST-Inspire	5 days internship camp on Innovation in Science Pursuit for Inspired Research	892.87	DST, New Delhi	2010- 2017
3)	Science academics refreshers course	Science academics refreshers course on nanotechnology and its applications	16.00	Indian Academy of Sciences, Bangalore	2018
4)	Conference Funding	Science Academies Lecture Workshop on Recent Trends in Nanobiotechnology (January 25-27, 2016)	1.70	Indian Academy of Sciences, Bangalore	2016
		International Conference on Nanomaterials and Nanotechnology (NANO - 15) Dec 07-10, 2015	3.00	Science and Engineering Research Board (SERB), Department of Science and Technology (DST), New Delhi	2015
			2.00	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			1.00	Defence Research and Development Organisation (DRDO), New Delhi	
			0.40	Indian Council of Medical Research (ICMR), New Delhi	
		Lecture Workshop on Selected Topics in Pure and Applied Physics (February 6-8, 2015)	1.45	Indian Academy of Sciences, Bangalore	2015
		Macro-and Supramolecular Architectures and Materials (MAM-12) Nov 21-25, 2012	1.50	Department of Science and Technology (DST), New Delhi	2012
			1.25	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			1.00	Ministry of Earth Sciences (MOES), New	

				Delhi	
			1.00	Defence Research and Development Organisation (DRD O), New Delhi	
			0.40	Council for Scientific and Industrial Research (CSIR), New Delhi	
			0.40	Indian National Science Academy (INSA)	
			0.05	Indian Society for Technical Education (ISTE)	
		International Conference on Nano Materials and Nano Technology (NANO - 2010) Dec 13-16, 2010	3.50	Department of Science and Technology (DST), New Delhi	2010
			2.50	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			2.00	Ministry of Earth Sciences (MOES), New Delhi	
			2.00	Defence Research and Development Organisation (DRD O), New Delhi	
			1.00	Department of Biotechnology (DBT), New Delhi	
			0.40	Council for Scientific and Industrial Research (CSIR), New Delhi	
			0.25	Indian Council of Medical Research (ICMR), New Delhi	
			0.50	National Research Development Corporation, New Delhi	

			0.50	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	
		National Symposium on Acoustics (NSA - 2007), December 5 -7, 2007	0.50	Defence Research and Development Organisation (DRDO), New Delhi	2007
			0.50	Ministry of Information Technology (MIT), New Delhi	
			0.50	Indian Council of Medical Research (ICMR), New Delhi	
			0.40	Council for Scientific and Industrial Research (CSIR), New Delhi	
			0.30	Department of Science and Technology (DST), New Delhi	
			0.30	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			0.15	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	
			0.05	Indian Society for Technical Education (ISTE),	
		International conference on Nanotechnology (NANO - 2005), July 13-15, 2005	1.0	Department of Science and Technology (DST), New Delhi	2005
			0.50	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			0.50	Ministry of Information Technology (MIT), New Delhi	

			0.30	Defence Research and Development Organisation (DRDO), New Delhi	
			0.25	Council for Scientific and Industrial Research (CSIR), New Delhi	
			0.25	Indian Council of Medical Research (ICMR), New Delhi	
			0.20	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	
		National Symposium on Acoustics (NSA - 99), September 23-24, 1999	0.50	All India Council for Technical Education (AICTE), New Delhi	1999
			0.20	Board of Research in Nuclear Sciences (BRNS), Mumbai	
			0.20	Council for Scientific and Industrial Research (CSIR), New Delhi	
			0.20	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	
			0.15	Department of Science and Technology (DST), New Delhi	
			0.15	Acoustic Society of India (ASI)	
			0.05	Indian Institute of Science (IISc), Bangalore	
			0.05	National Aerospace Laboratory (NAL), Bangalore	

			0.05	National Institute of Oceanic Technology (NIOT), Chennai	
		National Symposium on Ultrasonics (NSU - 96), September 6-7, 1996	0.30	All India Council for Technical Education (AICTE), New Delhi	1996
			0.20	Tamil Nadu State Council for Science and Technology (TNSCST), Chennai	
			0.10	Department of Ocean Development (DOD), New Delhi	
5)	Regional International Ozone Day Celebration – 2013 (Sep 16, 2013)	Ozone day celebration – cycle rally	0.70	Ministry of Earth Science, New Delhi	2013
6)	Travel Grant	INSA–Poland Bilateral Exchange Fellowship for the year 2015–16 to visit Polish Research Institutes like Centre for Molecular & Macro- molecular Studies	0.38	INSA–Poland Bilateral Exchange Fellowship	2015-2016
		Indo-Australia Senior Scientist Science and Technology visiting fellowship for the year 2012–13	2.70	Indian National Science Academy (INSA), New Delhi and the Department of Science and Technology (DST), New Delhi.	2012-2013
		Financial Assistance to Atten Int. Nano/Molecular Photochemistry & Nano Materials from 14/02/2010 to 18/02/2010 in EGYPT	0.73	Department: Ministry of Science & Technology	2010
7)	Programme Advisory Committee	2009	11.75	DST, New Delhi	

	Meeting – Condensed Matter Physics (DST - PAC) July 6-8, 2009				
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Total amount : **991.63 Lakhs**

Total No. of Govt. Agency: **21**

a) Institutions Established

S. No.	Name of Institution/Unit	Funding Agency	Year
1)	Centre for Nanoscience and Technology, K S Rangasamy College of Technology	DST - SERB, DST - FIST DRDO, BRNS, IGCAR, CSIR etc.,	2007 - 13

b) Infrastructure Developed

S. No.	Name of Infrastructure	Budget Rs in Lakhs	Year
1)	Nano indentation	37.95	2010
2)	BET	37.9	2011
3)	Atomic Force Microscopy	32.16	2008
4)	TGDTA	25.19	2010
5)	Auto Lab	19.30	2011
6)	Pilot model spray Pyrolyser	18.00	2007
7)	EDAX (XRF)	17.62	2007
8)	UV - Visible Spectro Photo Meter PDA Fluorescence Spectro Photo Meter	17.03	2014
9)	Particle size analyser	15.40	2007
10)	Contact angle	13.85	2011
11)	FTIR	12.63	2008
12)	Vickers Hardness Tester	11.00	2016
13)	Mini model spray Pyrolyser	09.82	2007

14)	High pressure & high temperature hydrothermal autoclave	08.21	2008
15)	IV Tester with Keithly Source meter	06.00	2017
16)	Four Probe with Keithly Source meter	05.33	2010
17)	Ball Mill	04.29	2007
18)	Spin Coating	04.14	2010
19)	DC Sputtering	04.00	2017
20)	Indigenous furnace	03.56	2008
21)	Electro spinning Setup High Voltage Power Syringe pump	02.59	2009
22)	pH/Ion Selective Electrode and Meter	02.03	2007
23)	Sonicator	02.01	2007
24)	Ultrapure Water Purification System for Pyrogen free Water	01.96	2007

X. CONTRIBUTION TO EXTENSION

a) Training Programmes Organized

In order to prepare students to enter the workforce or further their education, the following training programmes which emphasize employability skills and other critical skills necessary for effective and productive professionals were organized.

S. No.	Date	Name of the Training	Participant details	Period
1)	3.07.2018	Hands on Training Program on Screen Printing Adams Screen Printers at Tirupur	45	1 day
2)	13.07.2018	Demonstration program Mr. Prabhu, Assistant branch manager, USHA Automatic sewing machine, Coimbatore	55	1 day
3)	27.9.2018 & 28.9.2018	Workshop on Basic Illustration	43	2 days
4)	17.07.2018	Meet the Hotelier	56	1day

5)	10.09.2018.	North Indian Gravies and Rotis preparation”	61	1 day
6)	19.09.2018	Continental Cooking	32	1 day
7)	5.02.2019	Vegetable Carving Workshop	43	1 day
8)	6.02.2019	Flower Arrangement	46	1 day
9)	16.02.2019	Sweet Preparation	35	1 day
10)	18.09.2019 & 19.09.2019	Phytochemical analysis	45	2 day
11)	14.02.2019	R-Programming for Biologists	51	1 day
12)	23.02.2019	Quantification of alkali and alkaline earth metals in Biological samples by flame photometry	45	1 day
13)	18.09.2019	Photochemical analysis	55	1 day
14)	14.02.2019	R-Programming for Biologists	43	1 day
15)	23.02.2019	Quantification of alkali and alkaline earth metals in Biological samples by flame photometry	56	1 day
16)	07.01.2019	Mushroom Cultivation	61	1 Day
17)	10.01.2019	Nanophotometric Techniques	32	1 Day
18)	01.02.2019	Training for the Lab Assistants on the usage of bottle top dispenser	43	1 Day
19)	07.02.2019	Microtome	46	1 Day
20)	13.02.2019	PCR and Nanophotometer	35	1 Day
21)	19.02.2019	Protein & Nucleic Acid Quantification with Nanophotometer	45	1 Day
22)	21.02.2019	Operations and Applications of UV-Visible Spectrophotometer	51	1 Day

23)	30.03.2019	Animal Cell Culture Technique	45	1 Day
24)	19.9.2018	A hands on training on Liquid based cytology	55	1 day
25)	23.03.2019	Hands on training on Staining Technique	43	1 day
26)	19.9.2018	A hands on training on Liquid based cytology	56	1 day
27)	23.03.2019	Hands on training on Staining Technique	61	1 day
28)	28.06.2018	An Introduction to Foldscope	32	1 day
29)	02.07.2018	An Introduction to Foldscope	43	1 day
30)	28.06.2018	Identification of Fungi	46	1 day
31)	02.07.2018	Identification of Fungi	35	1 day
32)	08.01.2019 & 09.01.2019	Identification of Fungi & Algae and Hands on training in Foldscope	45	2 days
33)	06.02.2019 & 07.02.2019	Identification of Fungi & Algae and Hands on training in Foldscope	51	2 days
34)	11.09.2018	Safety Measures and Awareness on Symbols	45	1 day
35)	11.02.2019 to 15.02.2019	Stereo and Inverted microscope	55	2 days
36)	28/02/2019	Workshop - .net framework	43	1 day
37)	01/03/2019	Workshop - PC Assembly	56	1 day
38)	05/03/2019	Workshop- Introduction to PYTHON Programming	61	1Day
39)	06/03/2019	Workshop- Selenium Testing Tool	32	1Day
40)	31/01/2019 & 01/02/2019	Aptitude and Softskills Training programme	43	2 days

41)	01/03/2019	Placement Readiness Programme	46	1 Day
42)	05.07.2018	Big Data Analytics – Hadoop Environment	35	1 Day
43)	27.07.2018	Pig & Hive	45	1 Day
44)	08.09.2018	Networking With Java	51	1 Day
45)	05.07.2018	Big Data Analytics – Hadoop Environment	45	1 Day
46)	09.07.2018	Guestlecture: “Lateral thinking with adult students”	55	One Day
47)	27.07.2018	Guest lecture: “Cloud Computing and Real time Cloud Tools”	43	One Day
48)	28.07.2018	Guest lecture: “.Net Technology “	56	One Day
49)	31.08.2018	Guest lecture: “Employment on the Core”	61	One Day
50)	03.01.2019	Out Reach Program : “Cyber Women - A Digital Self Defense Tips	32	One Day
51)	22.02.2019	Alumni Interaction Program	43	One Day
52)	22.02.2019	Seminar : “Internet of Things”	46	One Day
53)	23.02.2019	Seminar : “Machine Learning”	35	One Day
54)	25.02.2019	Seminar : “Emerging Technologies in Computer Science-Applications of Drone	45	One Day
55)	11.07.2018	TCS Training Program MBP’s 1 - FDP	51	2 days
56)	24.08.2018	Workshop on Electronic Transfer of Funds	56	One Day
57)	25.02.2019	Workshop on Advance Excel	55	2 hours
58)	28.06.2019	Business English Certification	59	2018-19
59)	21.8.2018	Workshop on MongoDB – A NoSQL DB	55	One day

60)	06.09.2018	Workshop on Data Mining using WEKA Too	61	One day
61)	20.3.2019	Case Study Analysis	45	2 Hours
62)	15.02.2019	Workshop on SPSS	42	1 day
63)	05.01.2019	Digital marketing	45	2days
64)	11.07.2018	Workshop on Research Tools	30	1 day
65)	09.3.2019	Accounting skills for managers	26	Half Day
66)	05.03.2019	Skill based training programme	26	2 hours
67)	05.03.2019	Statistical package social science	25	Half Day
68)	28.02.2019	Data Analysis and Interpretation	45	2 hours

b) Mass Awareness Programmes Organized

The following mass awareness programs were organized with the aim of positively influencing the health behaviour of people by informing & instructing common populace about health & hygiene.

S. No.	Date	Title of the Awareness Programme	Participating Students	Venue and Place
1)	07.02.2018	Transpired Food Truck	10	Dr. N.G.P. Arts and Science College
2)	11.02.2019	Healthy Cooking	24	Veerampalayam Coimbatore
3)	10/09/18	First Aid Awareness Programme	40	Thadagam Village
4)	07.08.2018	Hand loom day celebration - Pamphlet Distribution and Board Display	45	Dr. N.G.P Arts and Science College
5)	28.09.2018	How to prepare for NIFT and NID entrance exam	45	Dr. N.G.P Arts and Science College

6)	03.01.2019	Awareness on avoiding plastic bag and awareness on “Save Girl Child & Educate Girl Child” (Beti Bacho & Betti Padha	60	Govt. Primary Panchayat School, Chinna Thadagam
7)	04.01.2019	Awareness on avoiding plastic bag and awareness on “Save Girl Child & Educate Girl Child” (Beti Bacho & Betti Padhao)	58	Govt. Primary Panchayat School, Chinna Thadagam
8)	28.02.2019	Raising Cancer Awareness	150	Seminar Hall - VII
9)	22.09.2018	Rose Day	200	KMCH- Conference Hall
10)	13.06.2018	International Albinism Awareness Day	55	A Block College campus
11)	16.07.2018	Swachh Bharat-Save Water	45	Thadagam Village
12)	20.07.2018	Drug abuse and Illicit Trafficking	45	Thadagam Village
13)	20.07.2018	Blood Group Identification	50	Panchayat Union Primary School, Periya thadagam
14)	29.08.2018	International Day against Nuclear Tests	51	A Block College campus
15)	10.09.2018	World suicide prevention day	52	College Premises
16)	11.09.2018	Child sexual abuse	50	School students in Thadagam village
17)	12.02.2019	Health camp (Blood grouping,Haemoglobin analysis,Blood glucose and Blood Pressure) for Public	45	Kaikolampalayam

18)	28.02.19	National Science Day Celebration	35	Government Primary School, Avinashi Pongupalayam Primary School Washington Primary School
19)	08.09.2018	Drug Abuse	45	Chinnathadagam, Coimbatore
20)	25.09.2018	Prevention of Breast and Cervical Cancer	45	Dr. N.G.P Arts and Science College, Coimbatore
21)	25.09.2018	Drug Abuse	60	Veeriyampalayam, Karuppurayampalam & Kaikolampalayam, Coimbatore
22)	July 28, 2018	Hepatitis-prevention and treatment	58	Periya Thadagam
23)	July 28, 2018	Health and Hygiene	150	Govt. School, Periya Thadagam
24)	21.07.2018	Awareness programme on Self Medication through Door to Door campaign	200	General public, Periya Thadagam, Coimbatore
25)	21.07.2018	Awareness programme on Immunization against Lethal Diseases	55	General public, Periya Thadagam, Coimbatore
26)	29.07.2018	Liver Safety Awareness Programme on World Hepatitis day	45	students of Dr. N.G.P. Arts and Science
27)	15.10.2018	Awareness Programme on Hand Wash practice for the Celebration of World Hand Wash day	45	students of Dr.N.G.P. Arts and Science
28)	30.01.2019	Extension activity on Awareness about Zoonotic diseases and Personal Hygiene	50	General Public at Periya Thadagam Village

29)	08.02.19	Awareness programme on Water Borne and Zoonotic Diseases	51	General public at Veeriyam Palayam, Karupparayan Palayam and Kaikolam palayam Villages
30)	23.07.2018	Awareness programme on Personal Hygiene for School children	52	Govt. School, Veeryampalayam
31)	01.08.18	Awareness campaign at village	50	Karupparayan Palayam
32)	13.07.2018	Creating Awareness on Traffic Safety-Rules and Regulations by Mr.Karthikeyan, Sub-Inspector of Traffic Police, Coimbatore	45	Pregnant and Lactating Women
33)	26.06.2018	Awareness on Drug abuse	35	Commissioner office
34)	20.07.2018	Awareness on Small Savings	15	Govt. Primary school, Periathadagam
35)	09.02.2019	Plastic Awareness Rally	150	Veeriampalayam Village
36)	26.06.2018	International Drug abuse day	40	Dr. N.G.P. Arts and Science
37)	09.02.2019	Eradication of plastic Pollution	117	Karrpparayampalayam Village
38)	20.09.2018	Awareness on Govt. Insurance Schemes	60	Veeriyampalayam
39)	08.02.2019	Awareness Programme on Cashless Economy & Insurance Schemes	60	Kovilpalayam
40)	26.07.19	Awareness Programme on Coir and Coir Industry	25	PG Seminar Hall
41)	27.07.2019	Plastic Awareness	25	Kalapatti, Coimbatore

42)	12.7.2018	Environmental Awareness and Motivational Program	45	Government Middle School,Vellanaipatti
43)	31.01.2019	Plastic Awareness	45	Veeriampalayam Village, Coimbatore.
44)	13.02.2019	NSE offering NCFM certificate courses	60	NGP Conference centre
45)	23.02.2019	Government schemes for rural peoples	58	Senjeri Village
46)	22.06.2019	Awareness on B2C Digitally	150	Vagarayanpalayam
47)	17.09.2018	Outreach Programme on “Awareness on Online Banking Procedures and Challenges”	200	Thadagam Village
48)	12.01.2019	Importance and Awareness of Online Transaction through Mobile Apps	55	Veeriyampalayam and Karupparayanpalayam Village
49)	28.01.2019	Learning Through Digital Media	45	Boys Hr.Sec. Schoool, Thadagam
50)	28.02.2019	Awareness on Mobile /Net Banking	45	Senjeri Village
51)	11/01/2019	A Bright Future by Preventing Plastics	50	Kurumbapalayam
52)	13/02/2019	Contemporary Effects on Eradication of Plastic A Survey	51	Kurumbapalayam
53)	14.02.2019	Awareness on Agriculture applications	52	Kaikolapalayam
54)	15.02.2019	Awareness on defects of using plastic in daily life	50	Andakkapalayam and Vellanaipatti
55)	17.07.2018	Skill Based Programme: Computer Hardware	45	Government High School, Kadampadi, (Sulur Block)

56)	17.07.2018	Outreach Programme: Swatch Bharat	35	Government High School, Kadampadi, (Sulur Block)
57)	03.01.2019	Out Reach Program - “Cyber Women” - A Digital Self Defense Tips	45	Appanaickenpalayam Village, Thudiyalur, Coimbatore
58)	11.12.2018	Social Awareness	50	The United Orphanage for the Disabled Home, Coimbatore.
59)	07.02.2019	Goodbye to Plastics	200	Panchayat Union Middle School, Shajahan Nagar, Saravanampatti, Coimbatore
60)	01.03.2019	Leadership Skills	180	Panchayat Union Middle School, Vellanaipatti, Coimbatore
61)	02.03.2019	Patriotism – Drawing Competition	200	Panchayat Union Middle School, Veerampalayam, Coimbatore.

c) Guest Lectures Delivered

S. No.	Institution	Topic	Date
1)	Sri Ramakrishna College of Engineering	Future Scope on Renewable Energy Using Nanotechnology	August 29, 2019
2)	Coimbatore Institute of Technology, Coimbatore	Planning and Administration for Sustainable Institutional Development: A two day colloquium for Higher Education leaders	August 02-03, 2019

3)	St. Joseph's College, Trichy	Draft National Education Policy 2019	July 25, 2019
4)	Sethu Institute of Technology, by SERB, CSIR & BRNS, Mumbai	Practice of X-ray Diffraction and Scanning Electron Microscope	May 31, 2019
5)	Gopalan college of Engineering & Management, Bangalore	Presentation and discussion on Grants from various funding agencies	May 11, 2019
6)	Karpagam Academy of Higher Education, Coimbatore	Workshop on Nano- Materials	March 01, 2019
7)	National Conference on Nano materials 2019	LRG Government Arts College for Women, Tirupur	Jan 24 – 25, 2019
8)	Faculty Development Programme on "Funding and Consultancy Project"	St. Aloysius College, Mangalore	September 3, 2018
9)	Workshop on MeltingPot2020- Decoding Rankings	CL Educate Ltd, Chennai	May 5 , 2018

d) Extension Campaigns / Exhibitions, Organized

To portray the growth of science and technology and their applications in industry and human welfare amongst the students and general public, the following programmes were organized under my guidance;

i) Extension Campaigns

S. No.	Date	Nature of the Extension	Place
1.	07 to 13.02.19	7 days Special Camp for the academic year 2018-19 on the mission "Healthy Youth for Healthy India"	Veerampalayam, Karupparayanpalayam & Kaikolampalayam villages
2.	11.02.2019	Awareness on drug abuse	Veerampalayam, Karupparayanpalayam & Kaikolampalayam villages

3.	10.01.2019	Financial Safety Awareness Programme	Veeriampalayam and Karupparayampalayam
4.	13.12.2018	Blood Donation Camp	Blood Bank- Government Hospital, Coimbatore and HDFC Bank, Coimbatore
5.	27.09.2018	Tax Payments Through Online	Appanaickenpalayam
6.	17.09.2018	Outreach Programme on “Awareness on Online Banking Procedures and Challenges”	Thadagam Village
7.	10.09.2018	Awareness programme on cleanliness and Health	Family for Children Orphanage, Podanur
8.	08.09.2018	Awareness Programme “Drug Abuse”	Chinnathadagam
9.	06.09.2018	Awareness about the household electronic devices	Veeriampalayam
10.	01.08.2018	School Visit-Plastic Awareness	Chinniyampalayam
11.	01.08.2018	Awareness Programme on Plastic Pollution	Government High School A.G.Pudhur-Irugur
12.	28.07.2018	Awareness programme on “Hepatitis-prevention and treatment for village peoples	Periya Thadagam
13.	28.07.2018	Awareness programme on “Health and Hygiene” for the school children	Periya Thadagam
14.	14.07.2018-21.07.2018	Swachh Bharat Summer Camp	Chinna Thadagam Village, Coimbatore
15.	21.07.2018	Immunization against Lethal Diseases for General Public	Dharmaraja campus, Periya Thadagam, Coimbatore.
		Awareness Programme on Self Medication through Door to Door campaign for General public	Periya Thadagam, Coimbatore.
		Immunization against Lethal Diseases for General Public	Dharmaraja campus, Periya Thadagam, Coimbatore.
16.	20.07.2018	Awareness on Small Savings	Govt. Primary school, Periathadagam.
	20.07.2018	Drug abuse and Illicit Trafficking-	Thadagam Village

		Blood Group Identification camp	Panchayat Union Primary School, Periya thadagam
17.	12.07.2018	Environmental Awareness and Motivational Program	Government Middle School, Vellanaipatti
18.	02.02.2018	Awareness Programme on Goods and Service Tax Students gave pamphlets about GST and explained about GST to the people in the village and clarified the doubts of the general public.	Karupparayanpalayam Village

ii) Exhibitions

S. No.	Title	Venue	Duration	No. of Participants
1)	KSR Science and Technology Exhibition (KSR Scitex'07)	K.S. Rangasamy College of Technology, Tiruchengode	Feb 16-18, 2007	More than 20,000 school students along with teachers
2)	A State Level Students Projects Seminar cum Exhibition	K.S. Rangasamy College of Technology, Tiruchengode	Aug 24-25, 2007	More than 100 No of projects reviewed
3)	Science and Technology Exhibition (Scitex'03)	Mepco Schenk Engineering College, Sivakasi, Tamil Nadu	Aug 22-24, 2003	More than 27,000 school students along with teachers

e) Rural Development Projects Implemented

Sustainable rural development is critical to enhance national well-being. The following Rural Development programmes were conducted to create awareness on environmental protection, rural infrastructure and in rural health and education were organized under my leadership.

S. No.	Date	Title of the Awareness programme	Participating Students	Venue and Place
1)	10.09.2018	First Aid Awareness Programme	40	Thadagam Village

2)	16.07.2018	Swachh Bharat-Save Water	45	Thadagam Village
3)	20.07.2018	Drug abuse and Illicit Trafficking	45	Thadagam Village
4)	20.07.2018	Blood Group Identification	50	Panchayat Union Primary School, Periya thadagam
5)	11.09.2018	Child sexual abuse	50	School students in Thadagam village
6)	12.02.2019	Health camp (Blood grouping, Hemoglobin analysis, Blood glucose and Blood Pressure) for Public	45	Kaikolampalayam
7)	08.09.2018	Drug Abuse	45	Chinnathadagam, Coimbatore
8)	25.09.2018	Drug Abuse	60	Veeriyampalayam, Karuppurayampalam & Kaikolampalayam, Coimbatore
9)	July 28, 2018	Hepatitis-prevention and treatment	58	Periya Thadagam
10)	July 28, 2018	Health and Hygiene	150	Govt. School, Periya Thadagam
11)	21.07.2018	Awareness programme on Self Medication through Door to Door campaign	200	General public, Periya Thadagam, Coimbatore
12)	21.07.2018	Awareness programme on Immunization against Lethal Diseases	55	General public, Periya Thadagam, Coimbatore
13)	30.01.2019	Extension activity on Awareness about Zoonotic diseases and Personal Hygiene	50	General Public at Periya Thadagam Village

14)	08.02.2019	Awareness programme on Water Borne and Zoonotic Diseases	51	General public at Veeriyam Palayam, Karupparayan Palayam and Kaikolam palayam Villages
15)	23.07.2018	Awareness programme on Personal Hygiene for School children	52	Govt. School, Veeriyampalayam
16)	20.07.2018	Awareness on Small Savings	15	Govt. Primary school, Periaithadagam
17)	09.02.2019	Plastic Awareness Rally	150	Veeriampalayam Village
18)	09.02.2019	Eradication of plastic Pollution	117	Karupparayampalayam Village
19)	20.09.2018	Awareness on Govt. Insurance Schemes	60	Veeriyampalayam
20)	08.02.2019	Awareness Programme on Cashless Economy & Insurance Schemes	60	Kovilpalayam
21)	12.7.2018	Environmental Awareness and Motivational Program	45	Government Middle School, Vellanaipatti
22)	31.01.2019	Plastic Awareness	45	Veeriampalayam Village, Coimbatore.
23)	23.02.2019	Government schemes for rural peoples	58	Senjeri Village
24)	17.09.2018	Outreach Programme on “Awareness on Online Banking Procedures and Challenges”	200	Thadagam Village
25)	28.02.2019	Awareness on Mobile / Net Banking	45	Senjeri Village
26)	17.07.2018	Outreach Programme: Swatch Bharat	35	Government High School, Kadampadi, (Sulur Block)

f) Popular Articles Published

S. No.	Date	Title	Magazines
1)	August 2014	K S Rangasamy College of Technology- Centre of Nanoscience and Technology : Introducing the Awe Inspiring world of Nanotechnology	Higher Education Review
2)	February y 2013	Screening of in vitro cytotoxicity, antioxidant potential and bioactivity of nano- and micro –ZrO ₂ and TiO ₂ particles	Global Medical Discovery
3)	February y 2013	Research in Nanotechnology	NEWSRX
4)	July 2009	Functional Nanotextiles-Feature	Nano Digest
5)	July 2009	Ready for Technology Transfer	Trends
6)	May 2006	Nanoscience and Technology	Thinamani (Manavar Malar)

XI. ANY OTHER SIGNIFICANT CONTRIBUTION

i) Dr. N.G.P. Arts and Science College

S. No.	Contributions	Objectives
1)	NIRF Ranking	As a principal, played vital role to improve NIRF ranking of Dr. NGPASC from 91 st to 67 th position, which lead to elevate Bharathiar University ranking too.
2)	RD Parade	Motivating and encouraging the students of Dr. NGPASC through Bharathiar university parade troop to participate in National and State level Republic Day Parade /Events.
3)	Industry Linked Undergraduate Programme	Initiated and formulated Placement Guaranteed undergraduate B.Sc. Computer Science course along with Tata Consultancy Services (TCS) and successfully implemented in Dr. NGPASC from academic year 2020-21.
4)	Job oriented Undergraduate and Post graduate Programme	To meet the current global need and demand, initiated course on Computer Science with Data Analytics at UG and PG level (B.Sc. and M.Sc.) from the Academic year 2019-20 and affiliated with Bharathiar University. It's a novel course and a first of its kind.

S. No.	Contributions	Objectives
5)	DBT Star College Cluster of College formation	First National Conference on Graduate Research (NCGR-2018) was organized to bring out inherent research and innovative skills from graduate students under DBT-Star College sponsorships; where in the cluster was formed with the association of DBT star schemes offering colleges.
6)	IPR awareness Programmes	Conducted two workshops on IPR/Patent awareness to disseminate, motivate and encourage the students to convert their researches / innovations into patent.
7)	Administration	Contributing to the administrative improvement activities of Bharathiar University as senate member since April 2018.
8)	43 Best Practices	Forty three best and innovative practices are followed at Dr.NGP ASC to instill ideal thoughts in the young minds. Each of the practice is constructed with objectives and goals to mould the students to become an individual with appropriate attitude, capability and temperament to serve the ever-changing need of the community. The best practices practiced are broadly categorized as Green initiatives, Research as a career, Initiatives for student holistic development, Student support services.
9)	Sports activities	National/State level noteworthy achievements of our students are the major contribution to sports achievements of Bharathiar University.
10)	Application of S&T for Rural Area (ASTRA)	Applications of Science and Technology techniques and finding will be disseminated to Rural areas by Dr.N.G.P College of Arts and Science funded by Tamil Nadu State Council for Science and Technology, Chennai
11)	Swachh Bharath	Activities like Students internship, Unnath Bharat Abhiyan, Swachhta etc are in progress. NSS Units of the college adopted Five villages around Coimbatore and implemented Swachh Bharat initiatives effectively which has brought laurels to Bharathiar University
12)	Institution's Innovation Council, MHRD	IIC has been established at our College to create an innovative ecosystem for students, which will influence the Innovative product development and add feathers to the achievements of Bharathiar University.

S. No.	Contributions	Objectives
13)	Digital Campus	Teaching and learning was made as a pleasurable pursuit by transcending physical boundaries of a classroom or library by establishing Academic digital campus.
14)	Digital 17BY17	Digital initiatives for higher education Action Plan 17- by-17 like NDL, NAD, SWAYAM etc, is under implementation.
15)	Faculty Improvement Programme	Six moth FIP leave is granted to staff members for completing the Ph.D work. This initiative enhances Research and Innovation ecosystem of the Institution and facilitates creation of Quality Human resource.
16)	Student Induction Programme (SIP)	Fourteen-day SIP is organised for incumbent students to adjust and feel comfortable in the new environment and inculcate the ethics and culture of the institution.

j) K. S. Rangasamy College of Technology, Tiruchengode

S. No.	Contribution	Objectives
1)	Under graduate Programme on emerging Nano science and Technology	Conceived and formulated the nomenclature, syllabus/Curriculum and scheme of study for Nano Science and Technology (NST) in UG Level (B. Tech. Nano Science and Technology) in 2014-15. It is the first of its kind in India
2)	Post graduate Course & Research on emerging Nano science and Technology	Conceived and formulated the nomenclature, syllabus/Curriculum and scheme of study for Nano science and Technology (NST) in PG Level (M.Tech. Nano technology) in 2016-17. It is the first of its kind in India.
3)	IPR (Patents)	Possession of 4 granted and 8 listed patents from affiliated college of Anna University helped to raise the rank of Anna University as one of the top patent granted/filling university in India.
4)	FIVE Nobel Laureate Interactions with students	Invited four International Nobel Laureates - Prof. Ernst (Chemistry, 1991), Prof. Michel (Chemistry, 1988), Prof. Giaever (Physics, 1973), and Prof. Huber (Chemistry, 1988) to participate and motivate young minds by staying in five days DST-INSPIRE programm

S. No.	Contribution	Objectives
		during the years 2012, 2014, 2014 and 2015 at the college camps. Similarly, Nobel Laureates like, Prof. Ernst (Chemistry, 1991), Prof. Gruenberg (Physics, 2007), and Prof. Huber (Chemistry, 1988) were invited to deliver Plenary talks in NANO-10, MAM-12, and NANO-15 international conferences.
5)	Popularisation of Science among Students	Conducted DST-INSPIRE (Innovation in Science Pursuit for Inspired Research), an innovative programme proposed by the Government of India. Till date 35 DST- INSPIRE camps (with a sponsorship of Rs.892.87/- lakhs) have been organised and a total of 13,410 students of 11 & 12 ^{std} have been benefited all over Tamil Nadu. His eagerness in popularization of S&T and dedicated contribution among school children through DST INSPIRE and other programmes bagged DST-National Council for Science & Technology Communication- National Award (2016) from MHRD, Govt. of India, New Delhi.

XII. OTHER SCHOLARLY ACHIEVEMENTS

a) Participation and Contribution in the Area of Your Academic/Professional Expertise

Contribution	Number	
	International	National
Plenary Lectures	01	20
Invited Talks	19	19

b) Editor / Editor-in-Chief of Academic / Research Journals

S. No	Editorship s	Number s
1.	Editorships – Special issue of International journals	14
2.	Guest editors in International Journals	10

c) Member of Editorial / Advisory Board of Academic Journals

S. No.	Editorship s	Number s
1.	Peer reviewer in International journals	23
2.	Member of the International Advisory Board	14
3.	Editorial Board member in international journal	11

d) Membership in Professional Bodies, etc.,

i) Fellow

S. No.	Name of Institution / Society	Grade of Membership	Since from
1.	UNESCO-UNISA Africa Chair in Nanoscience and Nanotechnology	Senior Fellow	2015
2.	The Academy of Science, Chennai	Fellow	2015
3.	Eurasian Academy of Environmental Science (FEAES)	Fellow	2014
4.	Institute of Physics, UK (F 1084128)	Fellow	2002
5.	Acoustical Society of India (LF 208)	Fellow	1997
6.	Ultrasonics Society of India (LF 56)	Fellow	1997

ii) Life Member

S. No	Name of Institution / Society	Grade of Membership	Year
1)	Asian Nano Forum (ANF), Asia	Life Member	2000
2)	Acoustical Society of America (Full Member) (USA) (95010373)	Life Member	1997
3)	International Institute of Acoustics and Vibrations (USA)	Life Member	1995
4)	Indian Society for Non-Destructive Testing (LM 4532)	Life Member	1994

S. No	Name of Institution / Society	Grade of Membership	Year
5)	Materials Research Society of India (LM B166)	Life Member	2001
6)	Indian Science Congress Association (LM) 5273)	Life Member	1996
7)	Indian Institute of Metals (LM 30289)	Life Member	2002
8)	Indian Nuclear Society (LM 7007)	Life Member	2000
9)	Instrument Society of India (LM 893)	Life Member	2000
10)	Indian Society for Technical Education (LM 12801)	Life Member	1992
11)	Institute for Smart Structures and Systems (LM 169)	Life Member	1999
12)	Indian Association for the Cultivation of Science	Life Member	1995
13)	Indian Physics Association (LM 10893)	Life Member	1998
14)	Indian Physics Society	Life Member	1998

iii) Executive Member

S. No.	Name of Institution / Society	Grade of Membership	Period
1)	Instrument Society of India, Bangalore	EC Member	2016
2)	Acoustical Society of India	EC Member	2003
3)	Ultrasonics Society of India	EC Member	1996

e) Consultancy Experience

S. No.	Name of the Client / Organization	Nature of Consultancy	Duration of Assignment
1)	M/s. NanoLab ^R Diagnostics and biomedical research centre, Namakkal, Tamil Nadu	Advisory and Research Consultant	2010 to till date

f) Participation and Contribution in Relevant Areas of Higher Education

i) Senate / Society

S. No.	Senate / Society	Name of the Organization
1)	Senate Member	Bharathiar University (2018 – till date)
2)	President	Acoustical Society of India (ASI) 2010-14: Two terms
		Madras India Regional Chapter of Acoustical Society of America (MIRC ASA) (2008-09)
3)	Vice-President	Acoustical Society of India (2007-09)
4)	General Secretary	Acoustical Society of India (2005-07)
5)	Member Secretary	G.D. Naidu award, Makkal Sinthanai Peravai

ii) Visiting Faculty

S. No	Position	Name of the Organization	Area of Specialization
1.	Visiting Faculty	Tubingen University, Germany, May 19 to 25, 2019	Nano toxicology
		Tubingen University, Germany, Nov 26 to Dec 10, 2017	Nano toxicology
		Polish Research Institutes, Poland, May 09- June 03, 2016	Bio nanotechnology
		University of Calgary, Canada, May 01-08, 2016	Nanomaterials synthesis
		Asian institute of Technology, Thailand, August 07-08, 2016	Nanomaterials application
		Universite d' Auvergne France, Nov 1-15, 2016	Recent trends in nanoscience and technology
		Uni. of Saskatchewan, Saskatchewan, Canada, November 11-12, 2015	Energy and environmental

S. No	Position	Name of the Organization	Area of Specialization
		Boston & New York, United States, October 23 - November 6, 2015	Bio nanomaterials applications
		York University, Toronto, Canada, November 13, 2015	Bio nanotechnology
		Catalan Institute of Nanoscience and Nanotechnology Bellaterra, Spain, April 04-05, 2015	Green energy
		Interdisziplinäres Nanowissenschafts-Centrum, Hamburg, Germany, March 30 – April 03, 2015	Nanomaterials synthesis and characterization
		Mintek Nanotechnology Innovation Centre, Johannesburg, South Africa, 23–27 November 2014	New ideas about nanomaterials
		Universite d' Auvergne France, Sep 8-24, 2014	Green synthesis and coating technology
		Edith Cowan University, Perth, Australia, May 6-22, 2013	Energy devices
		Institute of Atomic & Molecular Sciences, Taipei, Taiwan, Feb 19-March 07, 2013	Bio nanomaterials
		Edith Cowan University (EDU), Australia, May 6-22, 2013	Energy devices
		Indo-Australia Senior Scientist Science and Technology, Australia, May 13-21, 2012	Energy devices
		M/s. Data Physics Instruments GmbH, Germany, December 10-16, 2011	Nano toxicology
		M/s. Hysitron, INC., USA, October 02-09, 2011	Nanomaterials
		Swiss Federal institute of Technology, Lausanne (EPFL), Swiss, March 22, 2010	Green energy

S. No	Position	Name of the Organization	Area of Specialization
		National Institutes for standards, NIS, Egypt, Feb. 18, 2010	Nanomaterials coating
		Asian Institute of Technology, Centre of Excellence in Nanotechnology, Thailand, Feb 26-27, 2010	Recent trends in nanoscience
		Institute of Atomic & Molecular Sciences, Taipei, Taiwan, Oct 19 to Nov 4, 2009	Nanomaterials synthesis
		Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, Aug 4 to 7, 2009	Nanotechnology in agricultural applications
		National University of Singapore, Singapore, Nov, 2006	Nanomaterials Coating technology
		Nayang Technological University, Singapore, Nov, 2006	Recent trends in Nanomaterials
		Institute of Atomic & Molecular Sciences, Taipei Taiwan, Nov. 6-7, 2006	Energy and environmental applications in nanotechnology
		Institute of Applied Mechanics National Taiwan University, Taiwan, Nov. 6-7, 2006	Battery applications
		NDT & E Section, DPEND, Indira Gandhi Centre for Atomic Research, Kalpakkam, India, Dec 8, 2003- Jan 7, 2004	Ultrasonics
		NANOVAL GmbH & Co. KG Berlin, Germany, July 15/16, 2003	Nano biomaterials
		Wet Processing Division of Alpine, Augsburg, Germany, July 14, 2003	Nanomaterials applications in Agricultural field
		Fachbereich Physik Technische Universität, Kaiserslautern, Germany, July 10-11, 2003	Solar energy applications

S. No	Position	Name of the Organization	Area of Specialization
		Royal Institute of Technology Stockholm, Sweden, July 7-10, 2003	Nanotechnology applications in Biomedical field
		University of Rostock Rostock, July 2-3, 2003	Biomedical applications
		German Centre of Competence in Nano-scale Analysis, University of Hamburg, Germany, July 1, 2003	Nanostructured materials synthesis
		Hahn-Meitner-Institut Berlin, Germany, June 30, 2003	Nanotechnology applications in Medical field
		Fraunhofer Institute for Non- destructive Testing, Saarbrücken, Germany, May 2 to June 30, 2002	Biomedical applications
		University of Central Florida, Florida, USA, June 4-8, 2002	Nano biomaterials
		Fraunhofer Institute for Non- Destructive Testing (IzFP), Saarbrücken, Germany, November 6– 11, 2000	Nanotechnology
		Abdus Salam International Centre for Theoretical Physics, Italy, October 23–31, 2000.	Energy storage devices
		Board of Research in Nuclear Sciences (BRNS), Kalpakkam, India, May 3 –Aug 2, 2000	Ultrasonics
		NDT & E Section, DPEND, Indira Gandhi Centre for Atomic Research, Kalpakkam, India, May 3 –Aug 2, 2000	Ultrasonics
		Institute of Physical Chemistry, Heidelberg, Germany, Nov 1-3, 2000	Nanomaterials in energy applications

S. No	Position	Name of the Organization	Area of Specialization
		Fraunhofer Institute for Non-Destructive Testing, Saarbrucken, Germany, Nov 4-11, 2000	Energy devices applications
		University of Saarland, Germany, Nov 5-6, 2000	Biomaterials applications
		Solid State Physics Department, Indian Association for the Cultivation of Science, Calcutta, India, Apr – Oct 1995	Nano devices applications
2	Resource Person	International Conference on Ultrasonics and Materials Science for Advanced Technology, Veer Bahadur Singh Purvanchal University, Jaunpur, UP, 2019.	International Advisory, Committee member
		International Conference on Pharmacology & Pharmaceutics, Bangkok, Thailand, Salverign Science Group, 2019-2020	Organizing Committee Member
		9th Global Summit on Microbiology & Infectious Diseases at Prague, Czech Republic, 2019.	Organizing Committee Member
		3 Years (2018-19 to 2020-21), PSGR Krishnammal College for Women.	Academic Council Member
		National Assessment and Accreditation Council, Govt. of India	NAAC Accesor in peer team member in accreditation process in higher education institution
		Dr. N.G.P. Arts and Science College, Coimbatore	Ex-Officio, College Governing Body
		Dr. N.G.P. Arts and Science College, Coimbatore	Chairman, Academic Council, Since 2018
		Bharathiar University Coimbatore, From April 2018	SENATE Member

S. No	Position	Name of the Organization	Area of Specialization
		Dr. Kalam Educational Trust 2016- Till date.	Selection committee member for the National level awards
		French Embassy, Bangalore on October 26, 2016 as a mentor.	Invitees in French Tour to India 2016.
		Ministry of Finance, Government of India.	Recognized and appreciated as the honest tax payer in Bronze category
		IUT- département Mesures Physiques Université d'Auvergne, France.	Adjunct Professor
		Mintek Nanotechnology Innovation Centre, Johannesburg, South Africa (2014).	International Expert Panel Member of the nanomineral unit
		Guru Nanak Dev University, Amritsar, India.	Expert Member-UGC Career Advanced Scheme for University Teachers (Professor)
		CII India at New Delhi during April 14–15, 2009.	Expert Member for nanotechnology conclave—a commercial meet
		CII India at New Delhi during June 22-23, 2009.	Expertise in 2nd Food Technology Summit
		Asia Nano Forum, Hongkong at November 1–3, 2009.	One out of the three delegates from India to present the progress on nanotechnology
		Madurai Kamaraj University for Nanoscience and Technology.	Member of world class Curriculum Development Cell

XIII. HONOURS/AWARDS/FELLOWSHIPS/PRIZES/MEDALS**a) International**

S. No.	Name of Award/Fellowship	Awarded by	Year
1)	Fulbright-Nehru International Education Administrators Seminar fellowships	United States-India Educational Foundation	2015–16
2)	Personnel exchange programme	Indo-German DST - DAAD	2016 - 18
3)	As an invitee for participation in French Experts Tour to India	French Embassy	2016
4)	Best Poster Paper Award	International Conference on Nanomaterials and Nanotechnology (NANO-2015)	2015
5)	An International Expert Panel Member of the nanomineral unit of the Mintek Nanotechnology Innovation Centre	Johannesburg, South Africa	2014
6)	Senior Fellow	UNESCO-UNISA Africa Chair in Nanoscience and Nanotechnology	2014
7)	Silver Prize	6 th International Symposium on Macro-and Supramolecular Architectures and Materials (MAM-12)	2012
8)	Silver Prize	6 th International Symposium on Macro-and Supramolecular Architectures and Materials (MAM-12)	2012
9)	Gold Prize	International Conference on Nanomaterials and Nanotechnology (NANO-2010)	2010

S. No.	Name of Award/Fellowship	Awarded by	Year
10)	Silver Prize	International Conference on Nanomaterials and Nanotechnology (NANO-2010)	2010
11)	One out of the three delegates from India to present the progress on nanotechnology	Asia Nano Forum, Hongkong.	2009

b) National

S. No.	Name of Award/Fellowship	Awarded by	Year
1)	LEAP (Leadership for Academicians Programme)	MHRD, Govt. of India	2019
2)	Outstanding efforts in science and technology popularization among children with Cash prize Rs. 1,00,000	DST/NCSTC-National Award	2015
3)	PSN National Award for Excellence in Science with cash prize Rs. 1 Lakh	PSN Educational and Charitable trust	2013
4)	Senior Scientist	Indo-Australia visiting fellowship, Indian National Science Academy (INSA), New Delhi and the Department of Science and Technology (DST), New Delhi.	2012 - 2013
5)	Life Time Achiever with Cash prize Rs. 25, 000	Nehru Group of Educational and Charitable Trust India	2016
6)	Life Time Achiever	Dr. Kalam Educational Trust, Chennai.	2016
7)	NAAC Accesor	National Assessment and Accreditation Council, Govt. of India	2019
8)	Selection committee member for the National level awards offered	Dr. Kalam Educational Trust	2016 - 17

9)	Recognized and appreciated as the honest tax payer in Bronze category	Ministry of Finance, Government of India	2017
10)	Expert Member-UGC Career Advanced Scheme for University Teachers (Professor)	Guru Nanak Dev University, Amritsar, India	2015–16
11)	Bilateral Exchange Fellowship	INSA–Poland	2015–16
12)	Best Poster Presentation Award	The Material Society of India	2012
13)	Prof. K. Arumugam National Award	The Indian Society for Technical Education (ISTE)	2011
14)	Silver Prize	National Seminar on Nanomaterials and Applications (NSNMA)	2011
15)	Best Oral Presentation Award	Madras India Regional Chapter – Acoustical Society of America (MIRC-ASa)	2010
16)	Best Paper Award – Paper I	MIRC-ASA	2010
17)	Best Paper Award – Paper II	MIRC-ASA	2010
18)	Best Faculty Award	Nehru Group of Educational and Charitable Trust India	2010
19)	Raman-Chandra Sekhar silver medal	Acoustical Foundation for Education and Charitable Trust (AFECT)	2010
20)	An expertise in 2 nd Food Technology Summit organized	CII India at New Delhi	2009
21)	An Expert Member for nanotechnology conclave—a commercial meet organized	CII India at New Delhi during April	2009
22)	Best Paper Award	MIRC-ASA	2009
23)	Best Paper Award	MIRC-ASA	2007
24)	Awarded the NDT man of the year	The Indian Society for Non- Destructive Testing	2004

25)	Outstanding Organiser Award	Ultrasonics Society of India, New Delhi.	1996
26)	Young Scientists Fellowship	Tamil Nadu State Council for Science & Technology, Chennai.	1994-95

c) State Level

S. No	Name of Award / Fellowship	Awarded by	Year
1.	Tamil Nadu Scientist Award (TANSA) and Cash price	Tamil Nadu State Council for Science & Technology	1996 – 97

XIV. STRENGTH / AREA OF SPECIALIZATION / INNOVATION(S) / ANY SIGNIFICANT CONTRIBUTION

- Administrator:** Leads 350 Staff and 7500 students.
- Researcher:** 23 sponsored projects, 14 Patents; H index: Scopus- 27; WoS: 27, Implemented policy for Research, Seed money, Industry Linked Project, IPR cell, publication, funding and Research fellowships.
- Collaborator:** MoU's:22 Foreign Universities, Visiting Professor: 3 Countries, Countries visited: 33, Guided: 24 Ph. D and 3 PDFs; Student exchange with Foreign Universities.
- Institution-builder:** Acquired NIRF, India Today ranking to the institution, appointed Adjunct Faculty.
- Student welfare:** Promotes Quality education with character, Entrepreneurial skills, higher Education in abroad with fellowship, Industry linked Job Oriented Courses; Mentoring the Mentors and Training the Trainers concept; Established Start-ups and Incubation centres.

XV. VISION

N

ACADEMI

CS

Brand Building -International Campus

- ☐ Contribution to the necessary expansion of knowledge and training to meet global standards by converting into International campus.

International contributions on syllabi

- ☐ Curriculum updation to meet global marketplace.
- ☐ Online learning courses to address broader spectrum of student

International Technical Collaboration

- ☐ Facilitation of external funding, international consultancy, collaboration with the industry

Scientific and Academic Chairs, Endowments and research centers

- ☐ Endowments to foster academic excellence in a specific area of interest by supporting Faculty Chairs, Research Awards and Scholarships.

Teaching and Learning Process

- ☐ Promotion of Online and blended learning by integrating digital tools with physical classroom.
- ☐ Job-embedded practice to enhance career readiness standard of students
- ☐ Digital Teaching and learning through MOOC

ICT in Examination

- ☐ Introduction of Online examination.
- ☐ Examination to assess Domain-specific problem-solving skills of students

ADMINISTRATION

Recognition and Ranking

Benchmarking the University with peers by:

- ☐ Accreditation Board for Engineering and Technology (ABET) *and*
- ☐ Quacquarelli Symonds (QS) Ranking

Digital initiatives for Higher education 17- by- 17

- Digitalization of academic and administrative process towards paperless office

Exchange of Professors and students

- Integration of international and intercultural dimension of the University by promoting Student and Staff exchange with International Universities

Make in India

- Tripartite agreement between University, MSME and CODISSIA for establishing centre of learning to generate employment for students, undertake market-need based research and consultancy.

Alumni Network

- Increasing the alumni volunteer base, alumni participation and involvement in University activities and promoting alumni participation in fund raising activities.

RESEARCH & DEVELOPMENT

Creation of Technology Transfer Centers (TTC) Department Centre

Technology Transfer Center will help basic and Applied researchers to assess market opportunities, secure intellectual property protection, negotiate partnering/licensing arrangements, and assist in the commercialization process. The Center will focus on:

- Promotion of product and patent centric Research
- Mobilization for MoUs & funded projects
- Programs from National / International/Private sectors by ToT through TTC
- Start-ups on developed Products

Memorandum of Understanding (MoUs) for Incubation Centre - Start-ups/ Accelerators, etc.

- MoUs with Companies to mentor and coach the start-up founders.
- Support by the companies for technological facilities, network, co-working spaces etc.
- Lab facilities and mentoring support by Professors to the young Entrepreneurs.

Sponsored Research & Fellowships

Academic and research cooperation among various institutions for building network to share knowledge, resources and innovations by enriching the following:

- Funded projects (DST/DRDO/DAE/AICTE)
- Collaborative Projects
- National Post-docs

Nobel Laureates and Alexander von Humboldt Lecture series

Lecture series by

- Nobel Laureates and
- Alexander von Humboldt awardees
- Eminent Industrialists

SOCIO ECONOMIC INITIATIVE

Biotechno Park

- Translation of Biotechnology research into products and services by providing infrastructure support, pilot studies for accelerated commercial development of natural products with Government and Industry funding.

Industry Connect

- Conversion of Research into products and services through Industry partnership.
- Curriculum changes to offer tailor made courses for better employment of graduates

Regional Development

- Exploration of Western Ghats to develop commercially important products for job creation to promote socio-economic development of the region.

Bharathiar University in Coimbatore Smart City

- Producing a creative and highly skilled workforce and technology for effective implementation of Smart city project.