

## 2) Research Methodology

### Invitation

**B.V.V. Sangha's**  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001: 2015 Certified College

**IQAC Initiative**  
**Self Financed**  
**One Day State Level Workshop**  
on  
**Research Methodology**

**Resource Persons**

**Dr. Sunilkumar M. Hosamani**  
Assistant Professor  
Department of Mathematics  
Rani Channamma University, Belagavi  
Topic : "Significance & Research Methods of Graph Theory on Chemistry & Physics"

**Dr. Shreekanth G. Karkun**  
Librarian  
Basaveshwar Engineering College, Bagalkote  
Topic : "Searching Skills & Research Metrics for Academic Integrity"

Date: 04-07-2024 Day: Thursday Time: 10.30 AM to 5.00 PM  
Venue : Hall No-09

*All are cordially invited*

Dr. S. G. Hanasikar, Head of IQAC, Dr. (Smt) S. B. Kaladgi, Program Coordinator, Dr. D. S. Laxmi, IQAC Coordinator, Dr. S. M. Gaikar, Principal

### Banner

**B.V.V. Sangha's**  
**BASAVESHWAR SCIENCE COLLEGE**  
**BAGALKOTE**  
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**Self Financed**  
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**Research Methodology**

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## Program Copy



B.V.V.Sangha  
Basaveshwar Science College, Bagalkote  
ISO 9001:2015 Certified College  
IQAC Initiative, Self financed  
**One Day State Level Workshop**  
**On**

### **RESEARCH METHODOLOGY**

Prayer	:	Miss. Sahana Kulkarni
Welcome	:	Dr.S.R.Kaladagi
Flower presentation	:	1. President 2. Dr.Sunilkumar M. Hosamani 3. Dr.Shreekant G.Karkun 4. Dr.D.S.Lamani 5. Smt.S.G.Hunosikai 6. Dr.S.R.Kaladagi
<b>Inauguration</b>	:	<b>By Watering the Plant</b>
<b>Technical session I</b>	:	<b><i>"Significance and Research Methods of Graph Theory on Chemistry and Physics"</i></b>
Resource person	:	<b>Dr.Sunilkumar M. Hosamani</b> Assistant professor Department of Mathematics Rani Channamma University,Belagavi
Introduction of resource person	:	Dr. D.S.Lamani
Vote of thanks	:	Miss. Nagaveni Neeralakeri
<b>Technical session II</b>	:	<b><i>"Searching skills and Research Metrics for Academic Integrity"</i></b>
Resource person	:	<b>Dr.Shreekant G. Karkun</b> Librarian Basaveshwar Engineering College, Bagalkote
Introduction of resource person	:	Dr. M.B.Patil
Presidential remark	:	Dr.S.M.Guonkar
Vote of thanks	:	Dr.Madhavarao .Kulakarni

Date: 04-07-2024

Venue: Hall No. 09

Time: 10:30AM

*All are Cordially Invited*

*Anchoring: Dr.Jayashri B.Uppin*

## Report

B.V.V. Sangha's

### **Basaveshwar Science College, Bagalkot**

Report on "One Day Workshop on Research Methodology"

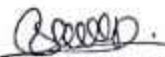
Date of Event: 4<sup>th</sup> July 2024

Under IQAC initiative one day state level workshop (self financed) on "Research methodology" was organised by the college on 4<sup>th</sup> July 2024 for post-graduate students and young faculty members of the college, sister concern institutions and other colleges. Inaugural function was conducted with welcome note by Dr.(Smt)S. R. Kaladagi, Dr. D. S. Lamani, IQAC coordinator briefed about the event and introduced the chief guest (first session guest speaker) Dr. Sunilkumar M. Hosamani, Assistant Professor, Department of Mathematics, Rani Channamma University, Belagavi who is having 20 years of research experience.

In the first session, resource person Dr. Sunilkumar Hosamani initially focused on seven steps to be followed by a researcher. Dr. Hosamani made the students and young faculty members to understand the scope of research and requirements needed to go for research. He emphasised on motivation, curiosity, thinking in a different way, commitment, analysis of trust worthy and reproducible data which are the key points of successful researcher. By taking the example of Graph theory, then extended the application of graph theory to Chemistry and Physics part as well. He discussed on setting-up experiments, collecting & analysing the data, result and discussion with conclusion which are required to draft a manuscript for communication (short communications or articles) to various publishers like ACS, RSC, Elsevier etc.

In the second session, Dr. M. B. Patil introduced the resource person of the second session Dr. S. G. Karkun, Librarian, Basaveshwar Engineering College, Bagalkot. Dr. Karkun explained the literature survey and how to choose and list out the references in standard format. He emphasised the usage of various search engines like Google, Google Scholar, N-List, BASE, CORE, Pub Chem, Chem Spider, Springer *etc* and demonstrated each with examples. He explained about citations and H index which are very much important to understand the research profile of a researcher. Dr. Karkun encouraged the young teachers and post-graduate students to develop the research attitudes.

Dr. S. M. Gaonkar Principal of the college delivered the presidential remarks and encouraged the students to develop research attitude by participating in such workshops. Smt. S. G. Hunasikai, Student Welfare Officer; Dr. D. S. Lamani, IQAC coordinator; Dr.(Smt) S. R. Kaladagi, Program Coordinator, Dr. V. S. Hegde, Chairperson - Research Committee and all faculty members were present in the program. After each session students were interacted with resource person and program was found very fruitful. Dr. Jayashree Uppin, HOD of Biotechnology who anchored the program summarised the outcome of the event. Miss. N. Y. Neeralakeri delivered the vote of the thanks.

  
Dr.(Smt) S. R. Kaladagi  
Program Coordinator

  
Dr. D. S. Lamani  
IQAC Coordinator

  
Dr. S. M. Gaonkar  
Principal

## C V of Resource Person

### 1) Dr. Sunilkumar M. Hosamani

#### CURRICULUM VITAE

##### **Dr. SUNILKUMAR M. HOSAMANI**

Assistant Professor  
Department of Mathematics  
Rani Channamma University  
Belagavi -591156  
Karnataka, India

Email:[sunilkumar.rcu@gmail.com](mailto:sunilkumar.rcu@gmail.com)[sunilkumarhb@rcub.ac.in](mailto:sunilkumarhb@rcub.ac.in)

Websites:<https://rcub.ac.in/English%20website/schools/math.s.html>

<b>Citations</b>	<b>869</b>
<b>h-index</b>	<b>13</b>
<b>i10-index</b>	<b>16</b>

#### **Education**

- Ph.D., in 2012, in KarnatakUniversity, Dharwad
- M.Sc, in 2008, in KarnatakUniversity, Dharwad
- B.Sc, in 2006, in KarnatakUniversity, Dharwad

#### **Academic Experiences**

- Research: More than 10 years
- Teaching:  
Assistant Professor, Rani Channamma University, Belagavi(Since Nov.30, 2012)
- Referee of several reputed international and national journals. Reviewer to Mathematical Reviews, AMS.

#### **Areas of Specialization**

- Graph Theory &Combinatorics
- Chemical Graph Theory
- Domination Theory

#### **Scholarships/Fellowships/Awards**

- UGC Junior Research Fellowship (JRF) from October 2008 to October 2011
- UGC Senior Research Fellowship (SRF) From October 2011 to April 2012.

### List of Recent Publications

S. No	Title of the Paper	Name of the author/s	Name of journal	Year of publication	ISSN number
1	New Upper Bounds for the first Zagreb index	<i>Sunilkumar Hosamani</i> (with B. Basavanagoud)	MATCH communications in mathematical and in computer chemistry	2015	0340-6253
2	The First Geometric-Arithmetic Index Of Graph Operations	<i>Sunilkumar Hosamani</i> (with S. H. Malghan and I. N. Cangul)	Advances and Applications in Mathematical Sciences	2015	0974-6803
3	Bounds for the minimum covering energy of a graph	<i>Sunilkumar Hosamani</i> (with P. V. Patil)	Jamal academic research journal	2016	0973-0303
4	On The Second Zagreb Eccentricity Index Of Linear Polycene Parallelogram Of Benzenoid P(N,N),	<i>Sunilkumar Hosamani</i> (with M. R. Farahani, Rajesh Khanna),	Journal of Environmental Science, Computer Science and Engineering and Technology	2016	2278-179X
5	The Wiener Index And Hosoya Polynomial Of The Subdivision Graph Of The Wheel S(Wn) And The Line Graph Subdivision Graph Of The Wheel L(S(Wn)),	<i>Sunilkumar Hosamani</i> (with M. R. Farahani, M. K. Jamil and Rajesh Khanna)	Applied mathematics	2016	2163-1409
6	2. An Improved proof for the Wiener index when $\text{diam}(G) \leq 2$	<i>Sunilkumar Hosamani</i>	Mathematical Science Letters	2016	2090-9616
7	3. The Edge Zagreb Indices Of Circumcoronene Series Of Benzenoid,	<i>Sunilkumar Hosamani</i> (with M. R. Farahani, Rajesh Khanna and Pradeep Kumar)	International Journal of Mathematics and its Applications	2016	2347-1557
8	Computing Sanskruti index of certain nanostructures	<i>Sunilkumar Hosamani</i>	Journal of Applied Mathematics and Computing	2016	1598-5865

19	The Schultz Polynomial, Modified Schultz Polynomial And Their Indices For The Jahangir Graphs	<i>Sunilkumar M. Hosamani(With Shaohui Wang and M.R.FARAHANI)</i>	Pacific Journal of Applied Mathematics	2017	1941-3963
20	Zagreb indices of Semi-total(total) Block Graphs of Bridge and Chain Graphs	<i>Sunilkumar M. Hosamani(With De-Xun Li, Jia-Bao Liu and M.R.FARAHANI)</i>	Journal of Computational and Theoretical Nanoscience	2017	1546-1955,
21	Experimental and modeling study of oxy-fuel combustion of coal particles for heat and power generation	<i>Sunilkumar M. Hosamani(With WieGao and M.R.FARAHANI)</i>	Energy Sources Part A Recovery Utilization and Environmental Effects	2017	1556-7230
22	Computation of K-Indices for Certain Nanostructures	<i>Sunilkumar M. Hosamani(With De-Xun Li, Jia-Bao Liu and M.R.FARAHANI)</i>	Journal of Computational and Theoretical Nanoscience	2017	1546-1955,
23	A Note On The Minimum Dominating Energy Of A Graph	<i>Sunilkumar Hosamani(with S. H. Malghan and P. V. Patil),</i>	Palestine Journal of Mathematics	2017	2219-5688
24	QSPR Analysis of Certain Degree Based Topological Indices	<i>Sunilkumar Hosamani(with DeepaPerigidad and Sharadagavade),</i>	J. Stat. Appl. Pro	2017	1927-7032
25	On topological properties of the line graphs of subdivision graphs of certain nanostructures-II	<i>Sunilkumar Hosamani</i>	GJSCR	2017	2350-2088
26	First Zagreb Coindex of hamiltonian Graphs,	<i>Sunilkumar M. Hosamani(with S. H. Malghan and P. V. Patil)</i>	Journal of Information and Optimization Sciences	2017	0252-2667
27	ACHARYA POLYNOMIAL OF SOME GRAPH TRANSFORMATIONS	<i>Sunilkumar M. Hosamani(with Shailaja Shankar Shirkol,Shobha V Patil)</i>	Bulletian Mathematics and Statistics Research	2017	2348-0580
28	Computing Sanskruti Index Of Ture4c8(S) Nanotube	<i>Sunilkumar M Hosamani (with Mohammad Reza Farahani, Y. Y. Gao and Muhammad ShoaibSardar</i>	International Journal of Pharmaceutical Sciences and Research	2017	2455-4685

29	Operations On Gear Graph With Topological Indices	<i>Sunilkumar M. Hosamani</i> (with V. Lokesha and Shruti R)	IJMMS	2017	1687-0425
30	More on inverse degree and topological indices of graphs	<i>Sunilkumar M. Hosamani</i> (with E. Suresh, T. Mansour and M. A. Rastomi),	Filomat	2018	0354-5180
31	Degree Equitable regular set domination in graphs, ( <i>Springer</i> ).	<i>Sunilkumar M. Hosamani</i>	<i>national Academy Science Letters</i>	2018	0250-541X
32	On Hyper Terminal Wiener index of a Graph	<i>Sunilkumar M. Hosamani</i> (with Shailaja Shankar Shirkol,Shobha V Patil)	International Journal of Mathematical Archieve	2018	2229-5046
33	Some Numerical Invariants Associated with V-phenylenic Nanotube and Nanotori	<i>Sunilkumar M. Hosamani and Rachanna Kamabur</i>	Engineering and Applied Science Letters	2018	2617-9709
34	Degree based topological indices of Penta chains	<i>Sunilkumar M. Hosamani</i> (with Shailaja Shankar Shirkol,Shobha V Patil)	IOSR Journal of Applied Chemistry	2018	2278-5728
35	The Accurate Independent Dominating Energy of a Graph	<i>Sunilkumar M. Hosamani, B. Basavanagoud and S. T. Timmanaikar</i>	International Journal of Applied Engineering Research	2018	0973-4562
36	First Neighbourhood Zagreb Index Of Some Nanostructures	<i>Sunilkumar M. Hosamani, B. Basavanagoud and A. P. Barangi</i>	PROCEEDINGS OF IAM	2018	2225-0530.
37	QSPR Analysis of certain Distance Based Topological Indices	<i>Sunilkumar M. Hosamani</i> (with Shailaja Shankar Shirkol,Shobha V Patil)	Applied Mathematics and Nonlinear Sciences	2019	2444-8656.
38	On graphs with equal dominating and c-dominating energy	<i>Sunilkumar M. Hosamani, V. B. Avati and R. S. Honamore</i>	Applied Mathematics and Nonlinear Sciences	2019	2444-8656.

## **2) Resource Person Dr.Shreekant G.Karkun**

### **BRIEF BIODATA**

Dr.Shreekant G.Karkun obtained his bachelor's Degree in First Class with Distinction from Basaveshwar Science College, Bagalkot. Master's degree from KarnatakUniversity Dharwad. And Ph.D.fromthe University of Mysore, Mysore. 32 years of professional experience. Presently working as Librarian in Basaveshwar Engineering College (Autonomous), Bagalkot. Worked as a Department Coordinator in TEQIP Phase –I and responsible for adding up of more than 1.25 crore worth of Information resources. TEQIP Phase II hascoordinated the Department for the establishment of an institutional Repository. In TEQIP Phase III, responsible for the implementation of the RFID security system to the Library and Information Centre, Which is unique in this part of Karnataka. Under his able guidance, 96 undergraduate projects have been completed. He published 86 papers in National and International journals. He presented papers in International Conferences, National Conferences. Recognized Guide for Ph.D. at VTU, 3 students are perusing research under him for the Doctoral program one has been awarded. 9 Students are awarded with M.Phil. and 16 students are awarded with Post Graduate Diploma in LAN.

Editorial Board member of severalInternational and National Journals.

LIC and BOS member of VTU, Belagavi

Chaired sessions at National and International Seminars and Conferences

Best paper award atthe International conference held at Goa

Most Dynamic librarian award by Golden AIM Foundation, New Delhi

International Education award for lifetime achievement,Noida



# PHOTOS







## Attendance List

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41	Smt. Vansha Nirsalkar	→ → →			200/-	
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215	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
216	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
217	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
218	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
219	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
220	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
221	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
222	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
223	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
224	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]
225	Dr. M. R. Dalpad	Basaveshwara Science College Bijalpet	Microbiology	dalpad.m.r.1@gmail.com	9832640000	[Signature]

Sl. No.	Name of person	College Name	Dept.	E-mail	TD	Mobile No.	Sign
206	Mamta Laxkar	B.V.V.S. Dnyaneshwari Sanshodhan Mandal	English	mamtalaxkar@gmail.com		9921071405	ML
207	Smt. Gita Navdighi	B.V.V.S. Commerce College Durgalkot	Dept. of Commerce	sushitiladagis@gmail.com		9822882218	GN
208	J.G. Chitambar	B.V.S. Dnyaneshwari Sanshodhan Mandal Durgalkot	Dept. of Journalism and Mass Communication			9172729252	JG
209	M.P. Dhadwal	B.V.S. Dnyaneshwari Sanshodhan Mandal Durgalkot	Dept. of Journalism and Mass Communication			9125620976	MP
210	Mrs. P. Kulkarni	B.V.S. Dnyaneshwari Sanshodhan Mandal Durgalkot	Dept. of Mathematics	preetikulkarni@gmail.com		9022794297	PK
211	Mrs. O. S. Shrivastava	B.V.S. Science College Durgalkot	Chemistry	ojsrivastava19@gmail.com		9150943552	OS
212	M. L. P. Dhadwal	B.V.V.S. Science College B.G.P.	P.H. Chem	mlpdhadwal@gmail.com		9017403004	ML



## FEED BACK FORMS

B.V.V.Sangha's  
Basaveshwar Science College, Bagalkote  
IQAC Initiative

One Day State Level Workshop On "Research Methodology"

Date: 4-7-2024

### Feedback Form

Name of the Participant: Megha . Bagr  
Designation: Msc Mathematics  
Name of the Institution/College: Basaveshwar Science College  
Bagalkote.

1. How useful was the workshop?

Poor 

1	2	3	4	5
---	---	---	---	---

 Excellent

2. Relevance of the topic?

Relevant 

1	2	3	4	5
---	---	---	---	---

 Irrelevant

3. Was the workshop clear and easy to understand?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

4. To what extent the workshop helped you to acquire knowledge on "Research Methodology"?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

5. Did the event meet your expectation?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

6. How would you rate the organization?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

7. Any Suggestions?

Good

B.V.V.Sangha's  
**Basaveshwar Science College, Bagalkote**  
IQAC Initiative

**One Day State Level Workshop On "Research Methodology"**

**Date: 4-7-2024**

**Feedback Form**

**Name of the Participant:**  
**Designation:**  
**Name of the Institution/College:**

1. How useful was the workshop?

Poor 

1	2	3	4	5
---	---	---	---	---

 Excellent

2. Relevance of the topic?

Relevant 

1	2	3	4	5
---	---	---	---	---

 Irrelevant

3. Was the workshop clear and easy to understand?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

4. To what extent the workshop helped you to acquire knowledge on "Research Methodology"?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

5. Did the event meet your expectation?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

6. How would you rate the organization?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

7. Any Suggestions?

*Conduct more workshops on skill development. It will  
helpful to our D.I.*

B.V.V.Sangha's  
Basaveshwar Science College, Bagalkote  
IQAC Initiative

One Day State Level Workshop On "Research Methodology"

Date: 4-7-2024

Feedback Form

Name of the Participant: Dr. Veena Kalmath

Designation: Assistant Professor

Name of the Institution/College: Basaveshwar Arts College..1

1. How useful was the workshop?

Poor 

1	2	3	4	5
---	---	---	---	---

 Excellent

2. Relevance of the topic?

Relevant 

1	2	3	4	5
---	---	---	---	---

 Irrelevant

3. Was the workshop clear and easy to understand?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

4. To what extent the workshop helped you to acquire knowledge on "Research Methodology"?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

5. Did the event meet your expectation?

Agree 

1	2	3	4	5
---	---	---	---	---

 Disagree

6. How would you rate the organization?

Good 

1	2	3	4	5
---	---	---	---	---

 Poor

7. Any Suggestions? No more suggestions. It's quite helpful for Researcher.

B.V.V.Sangha's  
Basaveshwar Science College, Bagalkote  
IQAC Initiative

One Day State Level Workshop On "Research Methodology"

Date: 4-7-2024

**Feedback Form**

Name of the Participant: Keerthi, Yarnagatti

Designation: M.Sc Mathematics

Name of the Institution/College: Basaveshwar Science college, Bagalkote

1. How useful was the workshop?

Poor 

1	2	3	4 ✓	5
---	---	---	-----	---

 Excellent

2. Relevance of the topic?

Relevant 

1 ✓	2	3	4	5
-----	---	---	---	---

 Irrelevant

3. Was the workshop clear and easy to understand?

Agree 

1 ✓	2	3	4	5
-----	---	---	---	---

 Disagree

4. To what extent the workshop helped you to acquire knowledge on "Research Methodology"?

Good 

1 ✓	2	3	4	5
-----	---	---	---	---

 Poor

5. Did the event meet your expectation?

Agree 

1	2 ✓	3	4	5
---	-----	---	---	---

 Disagree

6. How would you rate the organization?

Good 

1 ✓	2	3	4	5
-----	---	---	---	---

 Poor

7. Any Suggestions?

The section was so good.

## Certificates

 **B.V.V.Sangha's**  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001:2015 Certified College  
IQAC Initiative 

One Day State Level Workshop on

**Research Methodology**

**Certificate of Participation**

This is to certify that, Dr/Prof/ Mr/Mrs/Miss Mr Naveen R. Gowda  
of BLED'S Com BHS, Arts & TGP Science College Jamakandi  
has actively participated in **One Day State Level Workshop on "Research Methodology"**  
conducted by B.V.V. Sangha's Basaveshwar Science College, Bagalkote on 4-7-2024.

  
Dr.(Smt.) S. R. Kaladagi  
Program Coordinator

  
Dr. D. S. Lamani  
IQAC Coordinator

  
Dr.Sunilkumar M.Hosamani  
Asst. Prof. Department of Mathematics  
Rani Channamma University, Belagavi

  
Dr.S. M. Gaonkar  
Principal

 **B.V.V.Sangha's**  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001:2015 Certified College  
IQAC Initiative 

One Day State Level Workshop on

**Research Methodology**

**Certificate of Participation**

This is to certify that, Dr/Prof/ Mr/Mrs/Miss M. B. Paranagoudar  
of Basaveshwar science college, Bagalkot  
has actively participated in **One Day State Level Workshop on "Research Methodology"**  
conducted by B.V.V. Sangha's Basaveshwar Science College, Bagalkote on 4-7-2024.

  
Dr.(Smt.) S. R. Kaladagi  
Program Coordinator

  
Dr. D. S. Lamani  
IQAC Coordinator

  
Dr.Sunilkumar M.Hosamani  
Asst. Prof. Department of Mathematics  
Rani Channamma University, Belagavi

  
Dr.S. M. Gaonkar  
Principal

Made for free with Certify'em





B.V.V.Sangha's  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001:2015 Certified College  
IQAC Initiative



One Day State Level Workshop on

**Research Methodology**

***Certificate of Participation***

This is to certify that, Dr/Prof/ Mr/Mrs/Miss Ojaswini Shivananda Shirur  
Of Basaveshwar Science College Bagalkote  
has actively participated in **One Day State Level Workshop** on "Research Methodology"  
conducted by B.V.V. Sangha's Basaveshwar Science College, Bagalkote on 4-7-2024.

Dr.(Smt.) S. R. Kaladagi  
Program Coordinator

Dr. D. S. Lamani  
IQAC Coordinator

Dr.Sunilkumar M.Hosamani  
Asst. Prof. Department of Mathematics  
Rani Channamma University, Belagavi

Dr.S. M. Gaonkar  
Principal

Made for free with Certify'em



B.V.V.Sangha's  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001:2015 Certified College  
IQAC Initiative



One Day State Level Workshop on

**Research Methodology**

***Certificate of Participation***

This is to certify that, Dr/Prof/ Mr/Mrs/Miss Ravikumar B.Goudar  
of S. R. Kanti Arts, Commerce & Science College, Mudol  
has actively participated in **One Day State Level Workshop** on "Research Methodology"  
conducted by B.V.V. Sangha's Basaveshwar Science College, Bagalkote on 4-7-2024.

Dr.(Smt.) S. R. Kaladagi  
Program Coordinator


Dr. D. S. Lamani  
IQAC Coordinator

Dr.Sunilkumar M.Hosamani  
Asst. Prof. Department of Mathematics  
Rani Channamma University, Belagavi

Dr.S. M. Gaonkar  
Principal

## 2) One day National Seminar on “Challenge and Solutions in Science and Technology”

### Invitation



The poster features a central image of the Basaveshwar Science College building in Bagalkote, surrounded by palm trees. The top section is a dark blue banner with the college's name and ISO certification. Below this, a yellow banner contains the seminar title. The bottom section is a light blue banner with the date, time, and venue. The bottom-most section is a white banner with the names and titles of the organizing committee members, flanked by decorative images of a molecular model and a robot.

B.V.V.Sangha's  
**BASAVESHWAR SCIENCE COLLEGE, BAGALKOTE**  
ISO 9001: 2015 Certified College

**IQAC Initiative**  
**One day National Seminar**  
on  
**"Challenges and Solutions in Science and Technology"**  
(CSST-2024)  
*Sponsored by Alumni Association*

**Date: 29-08-2024 Day: Thursday Time: 10.00 AM to 5.30 PM**  
**Venue : New Auditorium B.V.V.S Campus Bagalkote**

**Dr. (Smt) S. R. Kaladagi**  
Organizing Secretary

**Dr. D. S. Lamani**  
Convener & IQAC Co-Ordinator

**Dr. B. N. Kirasur**  
President Alumni Association

**Dr. S. M. Gaonkar**  
Principal

*All are cordially invited*

**One day National Seminar on  
"Challenges and Solutions in Science and Technology" (CSST-2024)**

**Programme Schedule**

**Inauguration : 10.00 am to 11.00 am**

**Shri. G. S. Sulibhavi**

Chairman, CGC, B.V.V Sangha, Bagalkot.

**KEYNOTE ADDRESS & TECHNICAL SESSION-I: 11.00 AM TO 12.15 PM**

**Topic: Essentiality of Research in Higher Education.**

**Prof. M. K. Rabinal**

Chairman, Department of Physics, Karnatak University Dharwad.

**Tea Break :12.15pm to 12.30pm**

**TECHNICAL SESSION-II: 12.30 PM TO 02.00 PM**

**Topic: Identification of Products in Organic Transformation: A Great Challenge**

**Prof. D. M. Pore**

Department of Chemistry, Shivaji University, Kolhapur.

**Lunch-Break :2.00pm-3.00pm**

**TECHNICAL SESSION-III: 3.00 PM TO 4.00 PM**

**Topic: Status and Conservation Challenges in Amphibians of Western Ghats**

**Dr. K. G. Girish**

Ecologist, Panchavati Research Academy for Nature  
(PRANA), Sagar-Shivamogga.

**Tea Break :4.00 pm to 04.15 pm**

**Paper Presentation by Students :4.15 pm to 5.00pm.**

**Best Paper Presentation will be Awarded**

**Valedictory Function: 5.00pm to 5.30pm.**

**Registration Fee**

Student & Research Scholars : Rs. 100/-

Faculty Members : Rs. 200/-

Name of the A/C Holder:

Principal Basaveshwar Science College, Bagalkot

IFSC Code: IOBA0002407

A/C No: 240701000 000115

<https://forms.gle/nFDg57Xp5saJuPyEA>

Contact : Principal Dr. S. M. Gaonkar 9448876176, Dr. D. S. Lamani : 9986238512



Registration Scanner

## Programme Copy

B.V.V.Singha's  
Basaveshwar Science College, Bagalkote  
IQAC Initiative  
One Day National Seminar

On  
**"Challenges and Solutions in Science and Technology"**  
(CSST-2024)

Sponsored by Alumni Association 2023-24

---

### PROGRAMME AGENDA

Invocation	:	Kumari Sahana & Group
Welcome Speech	:	Dr. S.M.Gaonkar (Principal)
Flower Presentation	:	<ul style="list-style-type: none"><li>• President - Sri Gurubasav S. Solibhavi (Chairman, College Governing Council, BVVS, Bgk)</li><li>• Prof.M.K.Rabinal (Chairman, Dept. of Physics, KUD, Dharwad)</li><li>• Prof.D.M.Pore (Dept. of Chemistry, Shivaji University, Kolhapur)</li><li>• Dr.K.G.Girish (Ecologist, Panchvati, Research Academy for Nature (PRANA),Sagar, Shivamogga)</li><li>• Dr. S.M.Gaonkar (Principal)</li><li>• Dr.D.S.Lamani (IQAC Coordinator)</li><li>• Dr.B.N.Kirsur (President, Alumni association)</li><li>• Dr.(Smt) S.R.Kaladgi (Organizing Secretary)</li></ul>

### **Inauguration by Watering the Plant**

About Seminar & Introduction	:	Dr.D.S.Lamani
Keynote address &		
Guest Speech (Session 1)	:	Prof.M.K.Rabinal (Chairman, Dept. of Physics, KUD, Dharwad)
		(Session 2)
Guest Introduction	:	Dr.M.B.Patil
Guest Speech	:	Prof. D.M.Pore (Dept. of Chemistry, Shivaji University, Kolhapur)

Vote of Thanks

LUNCH BREAK

### **(Session 3)**

Guest Introduction	:	Dr.(Smt) J.B.Uppin
Guest Speech	:	Dr.K.G.Girish

(Ecologist, Panchvati, Research Academy for  
Nature (PRANA),Sagar, Shivamogga)

## **Paper Presentation by Students**

**Valedictory**

B.V.V.Sangha's  
Basaveshwar Science College, Bagalkot

**One Day National Seminar on "Challenges and  
Solutions in Science and Technology "(CSST-2024)**

**VALEDICTORY**

Welcome	:	Dr.D.S.Lamani
Flower Presentation	:	1. Dr.S.M.Gaonkar 2. Dr.K.G.Girish 3. Dr.D.S.Lamani 4. Smt.S.R.Kaladagi
Feedback by Participants	:	
Guest Speech	:	Dr.K.G.Girish Ecologist, Parichavati Research Academy for nature Sagara Shivamogga
Prize Distribution	:	
Presidential Remarks	:	Dr.S.M.Gaonkar
Vote of Thanks	:	Miss.Laxmi Rathod

**All are cordially invited**

## Report

B.V.V. Sangha's

### **Basaveshwar Science College, Bagalkot**

#### Report on

**"One Day National Seminar on Challenges and solutions in Science & Technology"(CSST-2024)**

**Date of Event: 29<sup>th</sup> August 2024**

Under IQAC initiative one day national seminar (Alumni Association sponsored) on "One Day National Seminar on "Challenges and Solutions in Science & Technology" (CSST-2024) was organised by the college on 29<sup>th</sup> August 2024 for post-graduate students and young faculty members of the college, and other colleges. Inaugural function was started with welcome note by Principal Dr. S. M. Gaonkar. Convenor Dr. D. S. Lamani, IQAC coordinator briefed about the event and introduced the chief guest (and first session guest speaker) Dr. M. K. Rabinal, Professor and Chairman Department of Physics, Karnatak University, Dharwad who is having 30 years experience in teaching and research. Dr. Rabinal claimed that research and teaching must go side by side. President of inaugural function Sri. G. S. Sulibhavi Chairman, College Governing Council, B.V.V. Sangha, Bagalkote insisted the students to take full use of such national seminars and conferences. Dr. B.N.Kiresur President of Alumni Association was also present in the inaugural function.

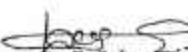
In the first session, resource person Prof. M. K. Rabinal initially justified the title of the national seminar and discussed the necessity of such seminars in college level. Prof. Rabinal delivered a talk on "Essentiality of Research in Higher Education". During his talk he gave all the data related to research in India and other developed countries. He emphasized on motivation, thinking in a different ways, commitment, analysis of trust worthy and reproducible data, which are the key points of successful researcher.

In the beginning of second session, Dr. M. B. Patil introduced the resource person of the second session Dr. D. M. Pore, Professor of Organic Chemistry, Department of Chemistry, Shivaji University, Kolhapur. Dr. Pore delivered a talk on "Identification of Products in Organic Transformation : A Great Challenge".

In the beginning of third session, Dr. Jayashree Uppin introduced the third session speaker K. G. Girish, Ecologist, Panchavati Research Academy for Nature, Sagar-Shivamogga. Dr. Girish delivered a wonderful talk on "Status and Conservation Challenges in Amphibians of Western Ghats" Dr. Girish discussed many challenges and solutions related to amphibians by showing video clips and many rare photos of variety of amphibians. At the end, eight students gave ppt presentation on various thirist areas of research and best three are selected for awards,

Dr. S. M. Gaonkar Principal of the college, Smt. S. G. Hunasikni, Treasurer, Alumni Association, Dr. D. S. Lamani IQAC coordinator, Dr. S. R. Kaladagi Program Coordinator, Dr. V. S. Hegde Chairperson - Research Committee and all faculty members, PG students were present in the program. After each session students were interacted with resource persons and program was found very fruitful. Miss. Laxmi Rathod delivered the vote thanks. Smt. Mahanada Math anchored the function.

  
Dr. S. R. Kaladagi  
Organising Secretary

  
Dr. D. S. Lamani  
IQAC Coordinator

  
Dr. S. M. Gaonkar  
Principal

## CV of recourse Persons

### 1) Dr. Dattaprasad Marutrao Pore

#### CURRICULUM VITAE



#### **1. Personal Details**

Name : **Dr. Dattaprasad Marutrao Pore**  
Designation : Professor  
Department of Chemistry,  
Shivaji University, Kolhapur – 416004.  
Date of Birth : 17<sup>th</sup> June 1976  
E-mail Address : p\_dattaprasad@rediffmail.com  
Permanent Address : Plot No. 8, Hanuman Nagar,  
Behind RCC builders,  
Ujalaiwadi, Kolhapur

#### **2. Academic Details**

Qualification : M.Sc., SET, Ph.D.  
Specialization : Organic  
Position : Professor

#### **3. Research Specialization**

- Synthetic Organic Chemistry
- Multicomponent Reactions
- Surfactant Chemistry
- Coupling Chemistry
- Ionic liquids
- Heterogeneous Catalysis

#### 4. Honors /Rewards

- ❖ Prof M. H. Jagdale award for securing 1<sup>st</sup> rank in M.Sc. Chemistry, Shivaji University, Kolhapur in 1998
- ❖ Summer research fellowship by Indian Academy of Sciences, Bangalore
- ❖ BOYSCAST fellowship by DST, Govt. of India, New Delhi in 2010-2011
- ❖ Recipient of Fast Track Research Proposal for Young Scientist from DST
- ❖ Fellow of Maharashtra Academy of Sciences 2016

#### 5. Teaching Experience

Total	:	18.5	years
U.G.	:	2.5	years
P. G.	:	16	years

#### 6. Research Guidance

##### PG Programme

M.Sc. Projects	:	88
<b>M.Phil</b>	:	02 Students
M. Phil working	:	00
<b>Ph. D.</b>	:	14
Ph. D. working	:	06

#### 7. Research Publications :

National	:	04
International	:	89

#### 8. Conferences Attended :

National	:	20
International	:	25
Invited Talk	:	23



## 9. Research Project :

Sr. No.	Title of the project	Funding Agency	Period	Grant sanctioned/ Amount mobilized In Rs.	Status
1	Development of newer synthetic methodologies using heterogeneous solid acid and bases	UGC	1/04/2008 to 31/03/2011	6, 78,300/-	Completed
2	Development of cleaner methodologies for heterocycles and coupling reactions	UGC	28/03/2013 to 27/03/2016	10, 28,880/-	Completed
3	Designing and synthesis of ionic liquids for pharmaceutically important organic transformations	DST	24/07/2014 to 23/07/2017	26,00,000/-	Completed
4	"Application of Magnetically Separable Nanoparticles	SUK	01/04/2019 to 31/03/2021	2,10,000/-	Ongoing

10. Membership/Other Charges: NIL

## 11. List of Publications : [Citation: 1861, H index: 26]

- Benzylpyrazolyl naphthoquinones as potential VEGFR-2, GPCR and PPAR inhibitors: Synthesis, anti-cancer evaluation, molecular docking and DFT studies  
Pradnya Patil, Pruthanka Patil, Padma Dandge, Prakash Bansode, Bajarang Kumbhar, Wilson Chandane, Sanket Rathod, Prafulla Choudhari, Suraj Khot, Navanath Valekar, Dattaprasad Pore, Gajanan Rashinkar  
Journal of Molecular Structure, 2023, 1301,137202

- Cellulose/silica supported Schiff base Pd (II) catalyst for copper-free Sonogashira cross-coupling  
Pravin S Pharande, Pradeep M Mhaldar, Mayuri V Patil, Suraj A Sonawane, Shrikrishna T Salunke, Dattaprasad M Pore  
Research on Chemical Intermediates, 2023, 1-23
- Nano-magnetite supported N-heterocyclic carbene-gold complex with pendant ferrocenyl group as a multi-modal anti-breast cancer agent  
Pradnya V Patil, Prakash A Bansode, Shivanand P Gajare, Ajit H Deshmukh, Arpita P Tiwari, Vishwajeet M Khot, Sandeep B Patil, Dattaprasad M Pore, Gajanan S Rashinkar  
Research on Chemical Intermediates, 2023, 49, 5141-5161
- A novel green synthesis of honey-mediated CoCr2O4 nanoparticles and their expeditious heterogeneous catalytic role for the synthesis of 5-aryl-[1, 2, 4] triazolidine-3-thiones  
S Ghotekar, D Sanap, KYA Lin, H Louis, D Pore, R Oza, Research on Chemical Intermediates, 2023, 1-20
- A selective heterogeneous cellulose supported Schiff base Cu (II) catalyst for Chan–Evans–Lam coupling: PS Pharande, PM Mhaldar, TR Lohar, SK Ghotekar, TN Chhowala, GS Rashinkar, DM Pore, Research on Chemical Intermediates, 1-20, 2023
- Nano-magnetite supported N-heterocyclic carbene-gold complex with pendant ferrocenyl group as a multi-modal anti-breast cancer agent; PV Patil, PA Bansode, SP Gajare, AH Deshmukh, AP Tiwari, VM Khot, SB Patil, DM Pore, GS Rashinkar, Research on Chemical Intermediates, 1-21, 2023
- Reductive Ullmann-Type Homocoupling of Aryl Halides Catalysed by Mixed Metal Oxide Nanocomposite (Pd/MnFc2O4) Under Aqueous Condition  
DJ Sutar, SN Zende, PM Mhaldar, DM Pore, AS Tapase, GS Gokavi, Catalysis Letters, 1-10, 2023
- An expedient heterogeneous catalyst for one-pot tandem synthesis of 1-aryl-1, 2, 3-triazoles through Huisgen 1, 3-cycloaddition, PS Pharande, GS Rashinkar, SK Ghotekar, DM Pore, Research on Chemical Intermediates, 1-21, 2023

- Silica-grafted DBU-supported NiCl<sub>2</sub>: a sustainable heterogeneous catalyst for A<sup>3</sup> coupling, PS Pharande, GS Rashinkar, DM Pore, *Research on Chemical Intermediates*, 1-24, 2023
- Remarkable anti-breast cancer activity and molecular docking studies of ferrocene tethered pyrimidobenzothiazoles and pyrimidobenzimidazoles, P Bansode, D Pore, S Tayade, S Patil, P Choudhari, G Rashinkar, *Results in Chemistry* 5, 100758, 2023
- Recent Advances in Synthesis of CeVO<sub>4</sub> Nanoparticles and Their Potential Scaffold for Photocatalytic Applications, S Ghotekar, S Pansambal, KYA Lin, D Pore, R Oza, *Topics in Catalysis* 66 (1-4), 89-103
- Novel palladium tagged ferrite nanoparticle supported ionic liquid phase catalyst for the efficient copper-free Sonogashira coupling, S.A. Sonawane, P.M. Mhaldar, T.N. Chhowala, D.M. Pore, *J. Mol. Struct.*, 2022, 1269, 133729
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- ChemoselectiveDithioacetalization of Aldehydes Over Ketones Using Silica Sulfuric Acid as a Reusable Catalyst U.V. Desai, D.M. Pore, R.B. Mane and P. P.Wadgaonkar, *Indian Journal of Chem. Sec. B*. **2006**, 45, 1291.
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## 12. List of Conference/Workshop/Seminar attended:

- One Pot Synthesis of Monoalkylated and Mixed, Dialkylated Meldrum's Acid "National Symposium on Frontier in Organic Chemistry" organized by Shivaji University, Kolhapur.
- Campaign on University Research And training Court-2003. organized by Shivaji University, Kolhapur.
- "Recent Developments In Environmental Science" organized by KarmaveerBhauraoPatilMahavidyalaya, Pandharpur.
- Oxidative coupling of thiols to Disulphides using Oxone-KBr in Aqueous Acetonitrile medium National Seminar on "Recent Trends In Polymer and Organic Synthesis" organized by Himachal Pradesh University, Shimla.
- A work shop on " Green Chemistry" organized by M. S. University, Baroda, India
- Trichloroisocyanuric acid Mediated One pot synthesis of Unsymmetrical 2,5-Disubstituted 1,3,4-Oxadiazoles at Ambient Temperature National Seminar on "Synthesis of New Materials For Industrial Applications" held on 1st -2nd Feb. 2008 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- Envirocat EPZ-10: A Solid Acid Catalyst for the Synthesis of 1,8-Dioxo-octahydro xanthenes in Aqueous Medium National Conference on "Recent Advances in Chemical Sciences" held on 3-5th Oct. 2008 at Bikaner, Rajasthan organized by Dept. of Chemistry, Govt. Dungar College, Bikaner.
- International Conference on Nanomaterials and Applications(ICNAMA-2008) held on 9-11th Dec. 2008 Dept. of Chemistry Shivaji University, Kolhapur.
- One-pot Multi-component synthesis of polyhydroquinolines at ambient temperature National Seminar on "Advanced Synthetic Methodologies and Functional Materials" [ASMFM] held on 23rd -24th Dec.2009 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- Potassium phosphate catalyzed highly efficient synthesis of sulphides at ambient temperature National Seminar on "Advanced Synthetic Methodologies and Functional Materials" [ASMFM] held on 23rd -24th Dec. 2009 organized by Dept. of Chemistry Shivaji University, Kolhapur.

- Potassium phosphate catalysed an Efficient Synthesis of 3- carboxycoumarins UGC-SAP National Symposium on "Advances in Synthetic Methodologies and New Materials" held on 21st and 22nd Jan. 2011 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- An Efficient Multi-Compound Synthesis of (2-Amino-3-cyano-4H-Chromen-4yl) Phosphonic Acid Diethyl Ester National Seminar on "Recent Trends in organic synthesis" held on 24-26th Feb. 2011 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- Envirocat EPZ-10: An Efficient Catalyst for synthesis of 3-Acetoacetyl coumarins National Seminar on "Recent Advances in Synthetic Chemistry and Nanomaterials" [RASCN] held on 21st and 22nd Jan. 2012 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- Synthesis of novel Ionic liquid and its application for synthesis of triazolidinethones in aqueous medium National Seminar on "Current Trends in Chemical and Nano Sciences" 17th ,18th Jan. 2014 organized by Dept. of Chemistry Shivaji University, Kolhapur.
- Synthesis of indoloquinoxalines at ambient temp. National conference on Frontiers in chemical sciences organized by School of chemical science on 30<sup>th</sup> June 2014, Solapur university
- Synthesis of indoloquinoxalines at ambient temp. National seminar on Frontiers in chemical sciences 25<sup>th</sup>-26<sup>th</sup> Sept. 2015 organized by Bharati vidyapith, Kolhapur
- National Conference on Recent Trends In Chemistry & Materials Science (RTCMS 2019) at Department of Chemistry, Shivaji University, Kolhapur.
- International Conference on Chemistry, Environment & Energy (ICCEE-2019) at YCIS, Satara.
- International Conference on "Emerging Trends in Catalysis", (ETC-2020) VIT Institute, Vellore, Tamilnadu.
- National Conference on Emerging Trends in Chemical and Material Sciences" (ETCMS-2020), Department of Chemistry, Shivaji University, Kolhapur.

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### **PERSONAL INFORMATION**

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Born on 6<sup>th</sup> August 1982 in Kalamanji, Sagar; Male, Indian, Married.

Permanent Address: Girish, K.G.,  
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'GIRIDHAMA', Kalamanji  
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Sagar (T), Shivamogga (Dist),  
Karnataka, INDIA.

### **EDUCATION**

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- 2011 Ph.D., Doctoral Degree, Kuvempu University, Amphibian Population & Habitat Ecology.  
Research Supervisor: Dr. S.V.Krishnamurthy, Professor and Chairman, Dept. of Environmental Science, Kuvempu University.  
Doctoral Thesis Title: 'Influence of Habitat Characters on Population of an Endemic Frog *Nyctibatrachus major* (Boulenger, 1882) (Ranidae: Anura) in Central Western Ghats'.
- 2005 M.Sc., Master's Degree, Environmental Science, 72.00 %, First Class; Kuvempu University  
Master's Dissertation Title: 'A Preliminary Investigation on the Air Quality Status of Bhadravathi Town'.
- 2003 B.Sc., Bachelor's Science Degree, Sahyadri Science College, Shimoga, 64%, First Class, Kuvempu University.

## **GENERAL TEACHING AND RESEARCH INTERESTS**

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Animal Ecology and conservation, Biological Diversity, Wildlife Ecology, Bio Statistics, Environmental Education, Amphibian Ecology, Habitat and Population Ecology of Amphibians, Amphibian Taxonomy, Ecotoxicology.

## **PREVIOUS PROFESSIONAL AND RESEARCH EXPERIENCE**

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- 2010- Lecturer, Department of Environmental Studies, IGGFGW College, Sagar, Shivamogga - 577 401 Karnataka INDIA
- 2010-2022 Lecturer, Department of Environmental Studies, LB and SBS College of Arts, Science and Commerce (Autonomous), Tarapur Campus, Sagar, Shivamogga -577 401 Karnataka INDIA
- 2005-2010 Guest Lecturer, Department of P.G. Studies and Research in Environmental Science, Kuvempu University, Jnana Sahyadri, Shankaraghatta, Shivamogga-577 451 INDIA
- 2005-2010 Doctoral Fellow, Amphibian Research Laboratory, Department of P.G. Studies and Research in Environmental Science, Kuvempu University, Jnana Sahyadri, Shankaraghatta, Karnataka, INDIA.
- 2003-2005 Master's Fellow, Dept. of Environmental Science, Kuvempu University.

## **AWARDS AND HONORS**

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- 2024 **DH Changemaker 2024 Award** by Deccan Herald for outstanding contribution in Environmental Conservation
- 2023 Key role as Researcher in **KAPPE RAAGA**, a wildlife musical documentary which won many awards under Musical Video category  
1. **Jackson Wild Media Award (Green Oscar)**, USA;  
2. **Independent Shorts Award**, Los Angeles;  
3. **Mysuru International Film Festival Award** (Judge's choice), Mysuru  
4. **Dada Saheb Film Festival Award**, Delhi;  
5. **Bollywood International film Festival Award**, Mumbai
- 2017 Jury Member, 25<sup>th</sup> All Karnataka Children's Science Congress -2017, 29<sup>th</sup>, 30<sup>th</sup> of November and 1<sup>st</sup> December 2017, organized by Karnataka Rajya Vijnana Parishat, Bengaluru in Manasa Gangothri, Mysore University, Mysuru

- 2014 Jury Member, 22<sup>nd</sup> National Children's Science Congress-2014, December 27<sup>th</sup> -31<sup>st</sup> ,2014, organized by NCSTC, DST, Govt. of India, held in SJBIT, Kengeri, Bengaluru
- 2004 Runner award in Classical Instrumental (Percussion) Solo, Sahyadri Utsav, Kuvempu University.
- 2003 Winner award in Classical Instrumental (Percussion) Solo, Sahyadri Utsav, Kuvempu University.
- 2002 Certificate of Appreciation for Active Participation in long project of Environmental Concern 'Preserve Planet Earth, Say No to Plastic- Save Environment', Rotary Club Mid Town, Shivamogga.
- 2002 Special Concern Award, National Service Scheme, Sahyadri Science College, Shivamogga.

## **TEACHING EXPERIENCE**

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### **14 and Half year of UG teaching experience from July 2010 to till today**

Department of Environmental Studies, LB and SBS College of Arts, Science and Commerce (Autonomous), Tarapur Campus, Sagar, Shimoga - 577 401 Karnataka INDIA (2010 to 2022)

Department of Environmental Studies, IGGFG Women's College, Sagar, Shimoga - 577 401 Karnataka INDIA (2010 to till today)

### **5 years of Post Graduate teaching experience from July 2005 to June 2010**

#### **Guest Lecturer**

Department of P.G. Studies and Research in Environmental science, Kuvempu University, Jnana Sahyadri, Shankaraghatta, Shimoga-577 451 INDIA

Ecological Theory and Applications (2006-2008)  
Habitat Ecology, Population Ecology (2006-2008)  
Environmental Statistics (2008-2010),  
Computer applications (2005-2009)  
Global Environmental Changes and Natural Hazards (2007-2008)  
Environmental Biotechnology (2007-2009)  
Biodiversity of Western Ghats (2009)

#### **Laboratory Instructor**

Department of P.G. Studies and Research in Environmental science, Kuvempu University

Computer applications (2005-2010)

Habitat Ecology, Population Ecology (2006-2007, 2009-2010)  
Ecological Theory and Applications (2006-2008)  
Environmental Statistics (2008-2010)

## **POST GRADUATE ADVISING**

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- 2010            Master's Dissertation (Supervised) at P.G. Dept of Environmental Science, Kuvempu University.
- 2006            Master's Dissertation (Supervised) at P.G. Dept of Environmental Science, Kuvempu University.

## **MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS**

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1. Founder Director, Panchavati Research Academy for Nature (PRANA), Sagar, Karnataka, India
2. Member, Amphibian Specialist Group (ASG-SA), IUCN-Species Survival Commission, USA.
3. Member, Amphibian Network of South Asia (ANSA), Zoo Outreach organization (ZOO), Coimbatore, Tamil Nadu, India.
4. Member, South Asian Network for International Zoo Educators (SANIZE).

## **CONSERVATION ACTIVITIES**

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One of the key members in designing and implementing KYASADAVI method of forest regeneration.

Partner in Western Ghats Network of Protected Areas for Threatened Amphibians (WNPATA) supported by the Critical Ecosystem Partnership Fund (CEPF), Conservation International, USA. ( [www.wnpata.org](http://www.wnpata.org) )

Co-ordinator, Preparation of People Biodiversity Register (PBR), Sagar Taluk, Shivamogga District. Karnataka Biodiversity Board, Bengaluru.

Assessor, IUCN Red List Assessment for Amphibians of Western Ghats, 2021

Research Team member, 'Wild Karnataka' Documentary Film

Research Team member, 'The Last Hope' Documentary Film



## **COMMUNITY SERVICES AND ACTIVITIES**

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- 2024 Chinnara Vana Darshana , Shivamogga Wildlife Division, Kargal Wildlife Range, Sharavathi LTM wildlife Sanctuary, Muppene Nature Camp, 11th July 2024. Presentration Title: 'Wildlife of of Western Ghats with special reference to Frogs'.
- 2024 Special Lecture on "Western Ghats-a treasure of Biological Wealth", Dept.of Environmental Science, Gulbarga University , Kalaburagi, 01.07.2024.
- 2023 Interactive Talk on 'Animal Diversity of Western Ghats' in GHPS, Beleyoor in Hakki Habba organized by Hakki Pukka Bird Conservation Network; 26.11.2023
- 2023 Resource Person, Environmental Education Programme, Vijnan PU College, Sagar, organized by Environmental Management and Policy Research Institute (EMPRI), Bengaluru, Karnataka. 3<sup>rd</sup> and 4<sup>th</sup> February 2023
- 2023 Resource Person, awareness programme on Swamps, Bellene, Sagar, organized by Karnataka Forest Department, Sagar Range. 3.01.2023
- 2023 Resource Person, awareness programme on Swamps, Maluru, Sagar, organized by Karnataka Forest Department, Kargal Range. 2.01.2023
- 2022 Resource Person, Workshop on Nature Conservation for School Children, Sri Chamarajendra Zoological Garden, Mysuru, 23.04.2022
- 2022 Resource Person, Annual Village Camp, National Service Scheme (NSS), Kumadvathi First Grade College, Shikaripura; Lecture on Resource Utilization, Vittalanagar, Shikaripur. 08-03-2022
- 2021 Chief Guest, Parisarotsava, Hongirana School of Excellence, Amatekoppa, Sagar, 30.06.2021
- 2021 Chief Guest, Online World Environmental Day Celebration, District Scouts and Guides, Shimoga, 05-06-2021
- 2019 Resource Person, two-day Workshop on 'Ecosystem and its Services', Post Graduate Dept. Of Environmental Science, Gulbarga University, Kalaburagi
- 2018 Chief Guest, World Environmental Day, Lecture on 'Plastic and Environmental Impacts', IGGFG Women's College, Sagar. 05-06-2018.

- 2018 Resource Person, Annual Village Camp, National Service Scheme (NSS), LB and SBS College,Sagar; Lecture on 'NSS and Environment', Shiravanthe, Sagar.
- 2015 Chief Guest, Eco Club Inauguration Program, Lecture on 'Wildlife and Environmental Conservation', Govt. Pre-University College, Ulavi, Soraba on 28-01-2015.
- 2014 Special lecture to students on Environmental Studies organized by Kumadvathi First Grade College, Shikaripura on 27-09-2014
- 2014 Resource Person, Annual Village Camp,National Service Scheme (NSS), Roopashree Pre University College, Heggodu; Lecture on 'Environment and Youths', Chitratte, Sagar.
- 2014 Chief Guest, World Environmental Day, Lecture on Current Environmental Issues to school childrens, Govt, High School, Kargal, Sagar. 05-06-2014
- 2013 Resource Person, Nature Camp for High School students in Gudavi Bird Sanctuary, Sorab, Shivamogga organized by Karnataka Forest Department, Kargal Wildlife Division, Sagar.
- 2013 Resource Person, National Service Scheme (NSS), Lecture on Environmental Consciousness and Youths, Shedthikere, Sagar.
- 2013 Judge, Science Model Exhibition for Students, organized by Junior Chamber(JC), Hosanagar, Shivamogga.
- 2012 Resource Person, Vanamahotsava and Awareness Program for High School students in Muppene Nature Camp organized by Karnataka Forest Department, Kargal Wildlife Division, Sagar.29.06.2012.
- 2012 Resource Person, National Service Scheme (NSS), Lecture on Current Environmental Issues and Youths, Nada Kalasi, Sagar, 03.03.2012.
- 2010 Resource Person, Environmental Awareness to school children, GHPS, Haniya, Hosanagara. 15-08.2010.
- 2009 Resource Person, Awareness on Peoples Biodiversity Register for High school students, Environmental study center, KIDS, Santhekadur, Shimoga.
- 2008 Resource Person, Training Program for formers on Organic Farming, Nature Conservation through Organic Farming Practices,

- Grama Bharathi Trust, Karanagiri, Hosanagara.
- 2003-2005 Volunteer, Plastic Free Campus Campaign, Kuvempu University
- 2000-2003 Volunteer, National Service scheme, Sahyadri Science College, Shimoga.
- 2000-2003 Volunteer, Campus Diversity Initiative (A Ford Foundation Project), Sahyadri Science College, Shimoga.
- 2002 Volunteer Blood Donor, Red Cross Society, Shimoga.
- 2001-2002 Volunteer survey leader for 45 days long project of Environmental concern Preserve Planet Earth, Say No to Plastic Save Environment Rotary MidTown, Shimoga.

### **RESEARCH ARTICLES IN PEER-REVIEWED JOURNALS**

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- Savinaya, S.M., J.Narayana, V.Krishna and **K.G. Girish** . 2022. A new Distribution record of *Memecylon clarkeanum* Cong.(Melastomataceae) to Karnataka from Shasravathi river basin, central Western Ghats, India. *Journal of Threatened Taxa*. 14(3): 20792-20797.
- K.G. Girish** and S.V.Krishnamurthy. 2009. Distribution of tadpoles of large wrinkled frog *Nyctibatrachus major* in central Western Ghats: Influence of habitat variables. *Acta Herpetologica*. 4(2): 153-160.
- A.M. Patel, P.A. Kulkarni, **K.G. Girish**, H.P. Gurushankara and S. V. Krishnamurthy. 2008. Morphology: Cricket Frogs, *Herpetological Review*. 31(9): 77.
- Kiran, B.R., **Girish, K.G.**, Ravikumar, M. and E.T.Puttaiah, 2006. Diversity of Aquatic Insects in Mudugod tank. *Insect Environment*. 12(3): 102-103.

### **BOOK ARTICLES**

- Parashurama, T.R., Deep, J., **Girish, K.G.**, Prakash Kariyajjanavar, P.K., 2021, Pteridophytic Composition of Koppa Taluk, Western Ghats, *Frontiers in Life Sciences*.

### **POPULAR ARTICLES**

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- Dr. Girish Janney** 2018. Bharatha - Jeevarashigala Bhandara, *Vishwa Vaani*.  
Dated 20-05-2018, Special supplement on world Biodiversity Day

### **RESEARCH ARTICLES IN PREPERATION**

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**Girish, K.G.** and S.V.Krishnamurthy. Microhabitat association and Distribution of Endemic anuran *Nyctibatrachus major* in central Western Ghats, India.

**Girish, K.G.** and S.V.Krishnamurthy. Population Size Estimate of Large Wrinkled Frog in central Western Ghats from Mark-recapture Technique.

**Girish, K.G.** and S.V.Krishnamurthy. Declining Population of *Nyctibatrachus major* in Altered Habitats of central Western Ghats, India.

## **RESEARCH ABSTRACTS**

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**Girish, K.G.** and S.V.Krishnamurthy. 2010. Habitat use and requirement of Large Wrinkled Frog *Nyctibatrachus major* in central Western Ghats. National conference on Zoology, Life process and Nanotechnology, 8<sup>th</sup> -10<sup>th</sup> February 2010. Department of Zoology, Goa University, Taleigao Plateau, Gao 403 206. Conference Abstract, pp 101.

**Girish, K.G.** and S.V.Krishnamurthy. 2008. Distribution of tadpoles of Large Wrinkled Frog *Nyctibatrachus major* in central Western Ghats: Influence of habitat variables. National conference on Animal Ethics and Welfare, 28<sup>th</sup> -30<sup>th</sup> March 2008. Department of Zoology, Annamalai University, Chidambaram, Tamil Nadu Conference Abstract, pp 68.

**Girish, K.G.** and S.V.Krishnamurthy. 2008. Habitats of Large Wrinkled Frog in Western Ghats and its Conservation. 4<sup>th</sup> Kannada Science Conference, Karnataka Science Congress, SVAK in collaboration with VTU, Belgaum, 15<sup>th</sup> -17<sup>th</sup> September 2008. Conference Abstract, pp 86.

**Girish, K.G.,** V.S. Pravitha, S.J. Veeresh, Hina Kousar and M. Horaginamani Sirajuddin. 2007. A Priliminary Investigation on Air Pollution in Bhadravathi Town Karnataka, India. International Conference on Biotechnological Approaches in Bioresource Management, Bharathidasan University, Tiruchirappalli, Tamil Nadu. 23<sup>rd</sup> -26<sup>th</sup> January 2007, Conference Abstracts, pp 155.

## **PRESENTATIONS IN SEMINARS, CONFERENCES and WORKSHOPS**

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2024 Three day Outreach Residency Program 'Ink and Ecology' II Edition, SARA Centre, Dombekoppa, Hosanagar, 3rd July 2024, Presentation Title: 'Environment and Living World'.

2024 Two Day Workshop on 'Wildlife Conservation', Department of Zoology, Sri Sharanabasveswara College of Science, Kalaburagi, 29<sup>th</sup> and 30<sup>th</sup> June 2024. Presentation Title: 'Wildlife of India and Karnataka'.

- 2023 National Reptile Awareness Day , Shivamogga Wildlife Division, Kargal Wildlife Range, Sharavathi LTM Sanctuary, Muppene Nature Camp, 23rd October 2023. Presentation Title: 'Draco: A unique Flying lizard of Western Ghats'.
- 2023 Two Day Workshop 'Mystical Agumbe' , Agumbe Rainforest Research Station (ARRS), Agumbe, 14<sup>th</sup> and 15<sup>th</sup> October 2023. Presentation Title: 'Amphibian Ecology with special reference to frogs of Western Ghats'.
- 2023 Research And Wildlife- Training Programme(RAW-TP), 12<sup>th</sup> and 13<sup>th</sup> August 2023, SPECIES, Presentation Title: 'Amphibians of Western Ghats'.
- 2022 Two Day State Level Workshop on Macrofungi and Pteridophytes, 26<sup>th</sup> and 27<sup>th</sup> August 2022. Department of Botany, Kumadvathi First Grade College, Shikaripura and Department of Botany, Faculty of Sciences, Khaja Bandanawaz University, Kalaburagi. Presentation title: Conservation Strategies for Ferns and Macrofungi.
- 2022 State Level Conference Natural Heritage of Kodagu District, 11<sup>th</sup> March 2022. Department of Archaeology, Museums and Heritage, Madikeri and Department of History, Field Marshal K.M Kariyappa College, Madikeri, Mangalore University. Presentation title: 'Natural Heritage of Kodagu.
- 2022 State Level Conference Natural Heritage of Kodagu District, 5th March 2022. Department of Archaeology, Museums and Heritage, Hasan and Department of History, IDSG Government College, Chikmagalur. Presentation title: Natural Heritage of Chikkamangaluru.
- 2020 One day State Level Conference on Natural Heritage of Shivamogga District, 29<sup>th</sup> February 2020. Department of Archaeology, Museums and Heritage, Shivamogga and Department of History, Indira Gandhi Government College for Women, Sagar. Presentation title: Mountains and Water Falls.
- 2010 National conference on Zoology, Life process and Nanotechnology, 8<sup>th</sup> - 10<sup>th</sup> February 2010. Department of Zoology, Goa University, Taleigao Plateau, Gao - 403 206. Presentation title: 'Habitat use and requirement of Large Wrinkled Frog *Nyctibatrachus major* in central Western Ghats'.
- 2008 National conference on Animal Ethics and Welfare, 28<sup>th</sup> -30<sup>th</sup> March 2008. Department of Zoology, Annamalai University, Chidambaram, Tamil Nadu. Presentation title: 'Distribution of tadpoles of Large Wrinkled Frog *Nyctibatrachus major* in central Western Ghats: Influence of habitat variables"

- 2008 4<sup>th</sup> Kannada Science Conference, Karnataka Science Congress, SVAK, Bangalore in collaboration with Vishveshwaraya Technical University Belgaum, Karnataka. Presentation title: 'Habitats of Large Wrinkled Frog in Western Ghats and its Conservation'.

### **WORKSHOPS AND TRAINING PROGRAMMES**

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- 2022 Two Day Workshop on Malabar Tree Toad Programme organized by Meta String Foundation in collaboration with India Biodiversity Portal, The Habitat Trust and SMIADT, Bengaluru on 16<sup>th</sup> and 17<sup>th</sup> April 2022
- 2017 UGC sponsored One Day Workshop on 'Effective Teaching' under Faculty Development Programme organized by LBS & SBSC College, Sagar on 27<sup>th</sup> September 2017
- 2014 One Day Workshop on People Biodiversity Register organized by Karnataka Biodiversity Board and Karnataka Forest Department, Shimoga Division, Shivamogga held on 19-08-2014
- 2011 State level Workshop on 'Environmental Journalism', Gramantara Vijnana Samudaya Kendra and Western Ghats task Force. Varadapura, Sagar, Shimoga.
- 2010 State level Workshop on 'Medicinal Plants Conservation', Western Ghats task Force and Forest Department, Shimoga division. Kargal, Sagar, Shimoga.
- 2007 National Workshop on 'Biodiversity Assessment', Dept. of Applied Zoology, Mangalore University, Mangalore.
- 2007 Workshop on 'Research Methodologies for Ph.D. and M.Phil students', Ambedkar Study Centre, Kuvempu University
- 2006 Kuvempu Nature Festival, Karnataka State Biodiversity Board and Kuvempu Trust, Kuppali, Thirthahalli, Shimoga.
- 2004 Workshop on 'Water - The Elixir of Life', Dept. of Environmental Science, Kuvempu University in collaboration with KRVP, Bangalore.
- 2001 Workshop on 'Human Resources Development', Campus Diversity Initiative, Sahyadri Science College, Shivamogga. 7<sup>th</sup> -10<sup>th</sup> December.

### **REFRESHER COURSE ATTENDED**

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- 2013 National level Science Academies Refresher course on 'Traditional and Modern Approaches in Animal Taxonomy', University of Agricultural Sciences, Bangalore, 15 - 29<sup>th</sup> April 2013.

### **CONFERENCES, SEMINARS AND SYMPOSIUMS ATTENDED**

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- 2022 One Day State Level Students Conference on Reviews and Research in Life sciences, 28<sup>th</sup> December 2022. Department of Botany, Kumadvathi First Grade College, Shikaripura and Department of Botany, Faculty of Sciences, Khaja Bandanawaz University, Kalaburagi.
- 2012 National conference on Biodiversity and sustainability: Present problems and future prospects, 5<sup>th</sup> and 6<sup>th</sup> March 2012. Department of Applied Botany, Kuvempu University, Shankaraghatta.
- 2010 National conference on Zoology, Life process and Nanotechnology, 8<sup>th</sup> - 10<sup>th</sup> February 2010. Department of Zoology, Goa University, Taleigao Plateau, Gao - 403 206.
- 2008 National conference on Animal Ethics and Welfare, Department of Zoology, Annamalai University, Chidambaram, Tamil Nadu.
- 2008 National Symposium on 'Plant Resources of India: Linking Conservation, Livelihood & Culture', Sri JCBM College, Sringeri in Collaboration with FRLHT, Bangalore and National Biodiversity Authority, Chennai.
- 2008 National Symposium on 'Biotechnology - Current Trends and Future Scenario', Dept of Biotechnology and Bioinformatics, Kuvempu University, Shankaraghatta
- 2008 4<sup>th</sup> Kannada Science Conference, Karnataka Science Congress, SVAK, Bangalore in collaboration with Vishveshwaraya Technical University Belgaum, Karnataka
- 2007 National Conference on Emerging Areas in Chemical and Biological Sciences, Depts. Of Chemistry and Industrial Chemistry, Kuvempu University, Shankaraghatta.
- 2007 3<sup>rd</sup> Kannada Science Conference, Karnataka Science Congress, SVAK, Bangalore in collaboration with Kuvempu University, Shankaraghatta.
- 2006 National Seminar on 'Plant Resources of Western Ghats - Ecology, Economics and Conservation', Karnataka Biodiversity Board, Bangalore in Collaboration with National Biodiversity Authority, Chennai.

### **PROFESSIONAL AND RESEARCH REFERENCES**

- Dr. S.V. Krishnamurthy      Professor and Chairman,  
Dept. of Environmental Science, Kuvempu University  
Jnana Sahyadri, Shankaraghatta,  
Shivamogga 577 451  
[svkrishnamurthy@gmail.com](mailto:svkrishnamurthy@gmail.com)  
Ph: +91 9448790039(Cell), 08182 248011(Res)
- Dr. Ashok D Revankar      Principal  
Smt. Indira Gandhi Govt. First Grade Womens College  
Sagar, Shivamogga District  
Ph: +919480280428(Cell), 08183 227078 (Office)
- Dr. M.B. Shivanna      Professor and Chairman,  
Dept. of Applied Botany, Kuvempu University  
Jnana Sahyadri, Shankaraghatta,  
Shivamogga 577 451  
[mbshivanna@yahoo.co.uk](mailto:mbshivanna@yahoo.co.uk)  
Ph: +91 9448836859(Cell), 08282 256254(Office)



### **3) Mohammad Hussain K. Rabinal**

**MOHAMMAD HUSSAIN, K. RABINAL**



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#### **I. Address for Correspondence**

Dr. M.K. Rabinal  
Solid State Physics  
Department of Physics  
Karnatak University  
Dharwad-580 003  
Karnataka State, INDIA

#### **Permanent Address**

Dr. M.K. Rabinal  
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Nauraspur  
Bagalkot Road,  
Bijapur -586101  
Karnataka State, INDIA

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#### **2. Personal**

Sex and Marital Status:	Male, Married with three children
Age and Date of Birth:	58 Years, 1 <sup>st</sup> June 1963
Nationality:	Indian
Religion:	Muslim

#### **3. Academic Records**

**B.Sc.:** Physics major, Chemistry and Mathematics minors, 1986, 1<sup>st</sup> class, **Karnatak University, Dharwad, INDIA**

**M.Sc.:** Solid State Physics as a specialization, 1988, 1<sup>st</sup> class with Distinction, **Karnatak University, Dharwad, INDIA**.

**Ph.D.:** Dept. of Physics, **Indian Institute of Science, Bangalore, INDIA**, June 1994, under the guidance of **Prof. E.S.R. Gopal**.

**Research Associate:** Dept. of Physics, **Indian Institute of Science, Bangalore, INDIA** from Nov. 1993-May 1995, with **Prof. E.S.R. Gopal**.

**Postdoc:** Dept. of Materials and Interfaces, **Weizmann Institute of Science, Rehovot, Israel**, from May 1995-December 1996, with **Prof. David Cahen**.

**Lecturer:** SECAB's AIRS Degree College, Bijapur, Karnataka. From December 1996-June 1997.

**Postdoc:** Solid State Electronics, **Tata Institute of Fundamental Research, Mumbai, INDIA**, from July 1997-March 1999, with **Prof. K.L. Narasimhan**.

- Lecturer:** Solid State Physics, Department of Physics, *Karnatak University, Dharwad, Karnataka State, INDIA*, from March 1999 onwards.
- Postdoc:** *Center for Molecular and Nanoscale Electronics, School of Engineering, University of Durham, UK, Commonwealth Fellowship* 2002-2003, with *Prof. Mike Petty*.
- Reader:** Solid State Physics, Department of Physics, *Karnatak University, Dharwad, Karnataka State, INDIA*, on 2008.
- Associate Professor:** Condensed Matter Physics, Department of Physics, *Karnatak University, Dharwad, Karnataka State, INDIA*, from 2011.
- Professor:** Condensed Matter Physics, Department of Physics, *Karnatak University, Dharwad, Karnataka State, INDIA*, from 2014.

#### **4. Awards/Fellowships/Recognition**

- i). Total *Citation Index (as on today)*: 1011
- ii). Research Associate, Dept. of Physics, Indian Institute of Science, Bangalore: 1994-95.
- iii). Postdoctoral Fellow, Dept. of Materials & Interfaces, The Weizmann Institute of Science, Rhovot, Israel: 1995-97.
- iv). Postdoctoral Fellow, Dept. of Condensed Matter Physics & Materials Science, Tata Institute of Fundamental Research, Mumbai: 1997-99.
- v). Commonwealth Scholarship, UK, at the Center for Molecular and Nanoscale Electronics, University of Durham, UK: 2002-2003.
- vi). The best research publication of the year 2010 award for the publication titled "Ambient synthesis and characterization of high quality CdSe quantum dots by an aqueous route" (Langmuir 25 (21), 12729 (2009)) from the Vision Group of Science and Technology, Government of Karnataka.
- vii). Sir C.V. Raman State Government Young Scientist Award in Physical Science, awarded in the Year 2013 (Karnataka State Council for Science and Technology) for significant contribution in physical science.
- viii). The research work in the field of bioconjugated CdS nanoparticles synthesis has been highlighted by the prestigious publishing house "Nature".

#### **5. Title of Ph.D. Thesis:**

*Investigations on the p-to n-type Conduction Reversal in Chalcogenide Ge-Se-X (X=Bi, Pb, In) Glasses*

## 6. References

### Prof. K.L. Narasimhan

Solid State Electronics  
Tata Institute of Fundamental Research  
Colaba, Mumbai, INDIA  
e-mail: [kln@tifr.res.in](mailto:kln@tifr.res.in)  
Fax: +91-22-215 2110/2181

### Prof. Mike Petty

Co-Director  
Center for Molecular & Nanoscale  
Electronics, School of Engineering,  
University of Durham, Durham, UK  
e-mail: [m.e.petty@durham.ac.uk](mailto:m.e.petty@durham.ac.uk)  
Fax: 0911-374-2389

## 7. Brief Summary of Ph.D. Work:

Intrinsic disorder in amorphous semiconductors does not permit the chemical doping to alter the charge carriers, as a result the use of these materials in device applications becomes quite limited. The observation of p- to n-type conduction change in Ge-Se-Bi (Pb) glassy semiconductors created a special interest. Results of detailed investigations on these materials led to propose that microscopic inhomogeneity is the origin for conduction change in these materials. We aimed to study phase separation in Ge-Se-X (X=Bi,Pb,In) compositions by thermal and X-ray structural investigations. Our results clearly show that these materials are microscopically inhomogeneous and the above phenomenon of conduction change can be explained in the framework of chemical and mechanical thresholds.

## 8. Post Doctoral Work:

### *1. At the Weizmann Institute of Science, Israel*

#### **i). Transition Ion Drift Measurements:**

The existence of Space Charge Region at the interface of p-n/Schottky junction can be explored to measure the diffusion coefficient of mobile ionic impurities by probing transient capacitance. We applied this method to measure diffusion coefficient of Cu in CuInSe<sub>2</sub>, Li and Ag in CdTe and HgCdTe single crystals, which are important photovoltaic materials. Our measured results are in close agreement with reported ones. Hence, the technique is simple, reliable and non-destructive to characterize ionic mobility in semiconductors.

#### **ii). Ohmic Contacts to p-CdTe and p-CuInSe<sub>2</sub>:**

Forming a good ohmic contact to these semiconductors remained a major challenge. The low-level p-type doping and complex defect chemistry of these materials never permitted to form better ohmic contacts. We propose a simple room

temperature electrochemical technique to form stable, low resistance and high current density ohmic contacts to p-CdTe and p-CuInSe<sub>2</sub> single crystals by electro-diffusion of Hg ions prior to metal contact.

## **2. At the Tata Institute of Fundamental Research, Bombay, India**

### **Meyer-Neldel Rule in Amorphous Silicon:**

Meyer-Neldel (MN) rule relates dc conductivity pre-factor to activation energy. Different mechanisms have been proposed to explain the origin of MN-rule in semiconductors, of these structural inhomogeneities, temperature dependence Fermi-level shift are prominent ones. Earlier studies on MN-rule were invariably affected the Density of States (DOS) in amorphous silicon. We studied MN-rule in (n<sup>+</sup>-i-n<sup>+</sup>) amorphous Si without affecting DOS by low intensity photoconductivity measurements to show that the statistical shift of Fermi-level is the cause of MN-rule in amorphous silicon.

## **3. At Centre for Molecular and Nanoscale Electronics, University of Durham, UK**

### **Organic Light Emitting Diodes:**

The work involves the design and development of semiconducting organic molecules to have a balanced charge transport so that efficient organic light emitting diodes could be realized. In this respect organic molecule like tri-phenylamine -oxadiazole-fluorene triad was synthesized and all solution based multilayer light emitting diodes were fabricated by spin coating and systematically studied for their electroluminescent properties. To support the results DFT calculations were performed to estimate HOMO-LUMO levels and other parameters. The external quantum efficiency (EQE) close to 0.36% has been observed. The emitted light from these devices varied from light blue through to green by the systematic chemical modification of the molecular subunits.

## **4. Current Research Areas at Karnatak University, Dharwad**

- a) **Molecular Electronics:** In recent time, the molecular electronics, that involves binding of organic molecules between two electrodes for charge transport measurements, has become an important field to push miniaturization of electronics down to nano-regime. Presently we have been studying the class of organic molecules on silicon surface to constitute metal-molecules-silicon junction to understand the charge transport through such junctions in order to understand the role of dipole-moment, conjugation and length of molecules. Such

- b) **Bio/Biologically Conjugated Structures for Electronic Devices:** The deoxyribonucleic acid (DNA) is a highly functional, versatile and genetically coded bio-molecule. It may provide a unique platform to constitute the new generation electronic devices with unexplored physics and chemistry. In the present work, we have been trying to constitute electronic junctions using DNA, its functionalized molecules and also its interfaces with certain active nanomaterials, such as PbS, PbSe and PbTe, to understand the charge transport mechanism so that a new generation electronics can be realized.
- c) **Quantum Dots for Photovoltaic Devices:** Different semiconductor nanoparticles have been prepared to implement them for low-cost solar cells. Zinc oxide infused with certain visible active dyes by simple electrochemical route that is anodic dissolution of zinc is prepared. These composites are highly stable and those will be implemented to develop electrochemical photovoltaic cells.
- d) **Chemical Bath Deposition of Quantum Dots:** The chemical bath deposition is the simplest and oldest method of direct deposition of semiconductor films. We have successfully deposited various materials such as CdS, CdS-dye composites, Ag<sub>2</sub>S and Cu<sub>2</sub>S etc. as low cost photovoltaic materials. We are in the process to put these materials to make heterojunction solar cells.
- e) **Carbon and Metal Based Materials for Supercapacitors:** Different films of graphene and metals (particularly copper and aluminum) are prepared as porous and flexible materials by simple routes, like self-assembly and electrochemical, to implement them to constitute symmetric and asymmetric supercapacitors. The electrochemical characterization of these with different electrolytes exhibit high specific capacitance that is evident from our recent research.
- f) **Graphene-Metal Nanocomposites for Memory Devices:** Various metal nanoparticles are loaded with reduced graphene that is prepared by solution route chemistry. Then they are subjected to memory-resistor (memristor) applications by sandwiching between two suitable electrodes. Attempts are being made to design both mono and bistable junctions by proper control of compositions of these composites.
- g) **Nanoparticle Composites of Low Band Gap Semiconductor for Thermoelectric Applications:** Low band gap semiconductors like Cu<sub>2</sub>S, Bi<sub>2</sub>S<sub>3</sub>, BiTe, PbTe etc. are active thermoelectric materials for energy conversions. Presently we are synthesizing nanoparticles of these semiconductors to design thermoelectric junctions. The nano-phase of these materials can provide

*“electron-lattice and phonon-glass”* phases that is an essential requirement for high thermoelectric efficiency. Our work aims to implement these materials for solar-to-thermal-to-electric energy conversion.

#### **h) Metal Air Batteries**

There is a continuous struggle develop the cheaper, denser, lighter and more powerful batteries due to various issues. The present electronics gadget batteries, particularly Li-ion batteries, demands inert atmosphere for their fabrication and application due to a high reactivity of its components. Recently there is paradigm shift towards metal air batteries which overcome the above difficulties. Particularly the Aluminum and Zinc air batteries are gaining more importance; still the research on these is in its infancy state. The inclusion of nanomaterials for the development of these batteries has brought a lot of hopes to see them as a potential contender for Li-ion and other existing batteries. Here the proposed work will be focused to eliminate the Zn metal dendritic growth that happens during the charging/ discharging cycles of these devices. This has been approached through the molecular grafting Zn electrodes by certain organic molecule and then deposition of Zn nanoparticles as active materials for metal air-batteries.

### **9. Research Projects:**

- i. The Coordinator:** UGC-SAP-Centre of Advanced Studies Phase-II, Amount Rs 2.65, 00,000/- grant, Dept. of Physics, KUD.
- ii. “Development of nanoscale biosensors based on semiconductor quantum dots”,** Board of Research in Nuclear Sciences (BRNS), Govt. of India, as Co-Investigator, Amount Rs. 30,00,000/-
- iii. “Center with Potential for Excellence in Particular Area (CPEPA)”,** University Grants Commission (UGC), Govt. of India, as a Research member of the Team, Amount Rs. 6,85,00,000/-.
- iv. “Studies of Influence of Organic Molecules on Semiconductor Surfaces and their Devices”:** Supported by *Department of Science and Technology, Govt. of India*, Just Completed. Amount 22,00,000/-.

### **10. Research Guidance:**

#### **1. Research Guidance**

**PG: M.Sc. Project Work: 99**

**Ph.D.:** Presently Seven students are working for their Ph.D. degree.

**Ph.D. Awarded: 10**

**List with Titles:**

- i. *"Studies on the Influence of Organic Molecules on Semiconductor Surfaces and their Devices"*, Ms. Roopa. K. Hiremath (2007).
- ii. *"Preparation and Charge Transport Measurements of Thin Films of Molecularly Capped CdS (Se) Nanocrystalline Semiconductors"*, Mr. M.N. Kalasad (2008).
- iii. *"Molecular Grafting of Silicon Surfaces and their Effect on Silicon-Metal Junctions"*, Mr. I. Mohamad Ikram (2011).
- iv. *"Optoelectronic Properties of Photovoltaic Active Semiconductors and their Devices"* by Mrs. Nerle Uma Devi V (2014).
- v. *"Synthesis and Optoelectronic Properties of Nano-structured Materials"* by Mrs. Rajeshree M. Hudlur (2015).
- vi. *"Nanostructured Materials and their Composites for Energy Storage Device Applications"* by Mr. Shridhar P. Mundinamani (2015).
- vii. *"Design and Fabrication of Hybrid Nanostructures and their Physical Properties"* by Mrs. Bindu Sharma (2015).
- viii. *"Development of Nanostructure Based Thermoelectric Materials for Energy Conversion"* by Rafiq Mulla (2018).
- ix. *"Design and Development of Molecular Memristor Junctions"* by Bahubali. K. Murgunde (2018).
- x. *"Optical and Photocatalytic Properties of Graphene Based Nanomaterials"* by Mr. Raghu.M. Gunnagol (2021).

#### 11. Courses Taught and Experience at Post Graduate Studies:

1. *Condensed Matter Physics*
2. *Quantum Mechanics*
3. *Statistical Mechanics*
4. *Electronics*
5. *Nanomaterials*
6. *Practical Courses*

#### Teaching/Research Experience:

**21 Years of Teaching Experience and 30 years of Research**

#### 12. Invited Talk

1. **"Nanoscience: Fundamental to Applied"**, invited talk at National Seminar on Recent Trends in Nanotechnology", Nehru Arts, Science & Commerce College, Hubli, **8 February, 2020**
2. **"Research: A Critical Review"**, invited talk at UGC-HRDC, Karnatak University, Dharwad, "Research Methodology", **13 December, 2019**.

3. **“Relook of Raman Effect”**, invited talk at UGC-HRDC, Karnatak University, Dharwad, “Science, Society and Indigenous Research”, **16 March, 2019**.
4. **“Molecule- Semiconductor Coupling: Interesting Interfaces”**, Invited talk at **“National Seminar on Recent Advances in Condensed Matter Physics”**, Gulbarga University, Kallaburagi, **27 March, 2019**.
5. **“Recent Developments in Supercapacitors”**, Invited talk at **“National Seminar on Recent Advances in Condensed Matter Physics”**, Gulbarga University, Kallaburagi, **27 March, 2019**.
6. **“Confluence of Raman Effect and Nanoscience”**, Invited talk at “Current Topics in Condensed Matter Physics”, G. Hallikeri Degree College, Haveri, **28 February, 2019**.
7. **“Biomolecules: A Journey Towards Smart Electronic”**, invited talk at **“International Conference ---”, Mangalore University, Mangalore, 20 September 2019**.
8. **“Fundamental Aspects of Nanoscience”**, invited talk at “National Seminar”, S.B. Arts & KCP Science College, Vijayapur, **21 February 2019**.
9. **“Nanoscience for Self Cleaning Cloths”**”, invited talk at “National Seminar”, S.B. Arts & KCP Science College, Vijayapur, **21 February 2019**.
10. **“Electrically Conducting Polymer Composites as Highly Pressure Sensitive Materials”**, invited talk at “International Conference on Direct Digital Manufacturing and Applications”, Karnatak University, Dharwad, **23 February 2019**.
11. **“Recent Developments on Supercapacitors”** invited talk at All India SEV, SDM College of Engineering and Technology, Dharwad, **2 March, 2019**.
12. **“Research: An Essential Curricular in Higher Education”** , invited talk at UGC Orientation Programme on “Research Methodology”, Basaveshwar Science College, Bagalkot, **7 & 8 Sept. 2018**.
13. **“Nanomaterials for Environmental Remedies”**, invited talk at UGC 69<sup>th</sup> Orientation Programme on “Research Methodology”, Basaveshwar Science College, Bagalkot, **7 & 8 Sept. 2018**.
14. **“Molecular Interfaces: Materials for Modern Electronics”**, invited talk Basaveshwar Science College, **Bagalkot, 7 Sept. 2018**.
15. **“Down the Drain: Water Contamination and Possible Solutions”**, invited talk UGC 68<sup>th</sup> Orientation Program, Human Resource Development Centre, Karnatak University, Dharwad, Karnataka, **9 August 2018**.
16. **“Modern Perspective of Raman Spectroscopy”** invited talk Christ University, Bangalore, Karnataka, **2 June 2018**.
17. **“Modern Perspective of Raman Spectroscopy”**, invited talk, Gulbarga University, Gulbarga, Karnataka, **22 May/2018**.



18. **“Modern Perspective of Raman Effect”**, invited talk, “Two Days Special Lecture Series on Physics” Sponsored by KSCST, Bangalore, Akkamahadevi Women’s University, Vijayapur, **25 March 2018**.
19. **“Fundamental Aspects of Nanoscience”**, invited talk “Two Days Special Lecture Series on Physics” Sponsored by KSCST, Bangalore, Akkamahadevi Women’s University, Vijayapur, **25 March 2018**.
20. **“Plasmonics: Light and Matter Interaction”**, Karnatak University Dharwad, **22 March, 2018**.
21. **“Unification of Raman Effect and Nanomaterials”**, invited talk S.D.M. Engineering College, Dharwad, Karnataka, **28 February 2018**.
22. **“Nanoscience with Emerging Applications”**, invited talk Mahantaswamy First Degree College, Hounsabhavi, Karnataka, **22 February 2018**.
23. **“Writing Research Proposal”**, invited talk at UGC 66<sup>th</sup> Orientation Programme , Human Resource Development Centre, Karnatak University, Dharwad, Karnataka, **30 January 2018**.
24. **“World’s Energy: Powering from the Sun”**, invited talk at UGC 66<sup>th</sup> Orientation Program, Human Resource Development Centre, Karnatak University, Dharwad, Karnataka, **30 January 2018**.
25. **“A Glimpse of Nanoscience with Emerging Applications”**, invited talk KCP Science College, Bijapur, **25 September 2017**.
26. **“Nanoparticles and Nanocomposites”**, invited talk National Conference on Particle Accelerators in Interdisciplinary Research, Dept. of Physics, Mangalore University, Mangalore, **11 April 2017**.
27. **“Fundamental Aspects of Nanoscience and Nanotechnology”**, invited talk Faculty Development Programme, P.C. Jabin Science College, Hubballi, Karnataka, **13 March 2017**.
28. **“Molecules on Semiconductor Surfaces: Interfaces for Nanoscale Electronics”**, invited talk Faculty Development Program titled “Recent Advances in Engineering Physics”, RV College of Engineering, Bangalore, **4 March 2017**.
29. **“Introduction to Nanoscience and Nanotechnology”**, invited talk UGC 66<sup>th</sup> Orientation Program, Human Resource Development Centre, Karnatak University, Dharwad, Karnataka, **3 March 2017**.
30. **29. “Bioelectronics: DNA for Smart Electronics”** invited talk Advanced Nanomaterials/Nanocomposites for Engineering Applications BVB College of Engineering, Hubballi, Karnataka, **1 March 2017**.
31. **“A Glimpse of Nanoscience with Some Applications”**, invited talk KLE GIB College, Nippani, Karnataka, **28 February 2017**.
32. **“Basic Concepts of Solar-Thermoelectric Energy Generator”**, invited talk P.C. Jabin Science College, Hubballi, Karnataka, **18 July 2016**.

33. **“Basic Concept of Solar Thermoelectric Generator”**, invited talk Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **30 April 2016**.
34. **“Nanomaterials for Thermoelectric Applications”** invited talk Dept. of Physics, Mangalore University, Mangalore, Karnataka, **13 October 2015**.
35. **“Competency Based Curriculum in Physics: How to implement it?”**, invited talk Workshop on Curriculum Design, Christ University, Bangalore, Karnataka, **7 October 2015**.
36. **“Prospects of Nano-Assemblies for Solar Energy Conversions”**, invited talk Dept. of Physics, Christ University, Bangalore, Karnataka, **30 June 2015**.
37. **“Fundamentals of Nanomaterials: Energy Applications”**, UGC Sponsored State Level Seminar, Dept. of Physics, Vijayanagar College, Hospet, Karnataka, **17 March 2015**.
38. **“Seminar on the Research Project Proposals”**, invited talk Refresher Course on ICT, Academic Staff College, Karnatak University, Dharwad, Karnataka, **29 December 2014**.
39. **“Energy: A Critical Issue of Modern World”** invited talk Basaveshwar Arts & Science Degree College, Bagalkot, Karnataka, **26 July 2014**.
40. **“Nanomaterials for Environmental Issues”**, invited talk UGC 63<sup>rd</sup> Orientation programme, Academic Staff College, Karnatak University, Dharwad, Karnataka, **10 July 2014**.
41. **“Environmental Sustainability by Nanomaterials”** invited talk Special Summer School Programme, Academic Staff College, Karnatak University, Dharwad, Karnataka, **19 June 2014**.
42. **“Solar Thermoelectric Generators”**, invited talk 100 KUMSBS Scholarship Training Programme, Karnatak University Dharwad, Karnataka, **29 May 2014**.
43. **“Thermoelectric Generators”**, invited talk Dept. of Physics, Karnataka State Women’s University, Bijapur, Karnataka, **20 May 2014**.
44. **“Nanomaterials: A Possible Solution for Energy and Electronics”**, invited talk Workshop on Advance in Composite and Nano-Materials, B.V. Bhoomaraddi College of Engineering & Technology, Hubli, Karnataka, **10 May 2014**.
45. **“Nanomaterials for Modern Science”** invited talk Dept. of Botany, Karnataka University, Dharwad, **28 March 2014**.
46. **“Can Nanomaterials Help in Converting Solar Energy?”**, invited talk UGC’s Sponsored Two Days Seminar on Trends in Condensed Matter Physics, Dept. of Physics, Karnatak University, Dharwad, Karnataka, **8 March 2014**.
47. **“Powering Planet by Nanomaterials”**, invited talk UGC 62<sup>nd</sup> Orientation Programme, Academic Staff College, Karnatak University, Dharwad, Karnataka, **4 February 2014**.
48. **“Nano Assemblies for Energy Generation”**, invited talk Lecture Workshop on Physics, KCP Science College, Bijapur, Karnataka, **22 January 2014**.

49. **"Basics of Nanoscience"**, invited talk Lecture Workshop on Physics, KCP Science College, Bijapur, Karnataka, **21 January 2014**.
50. **"Energy Generation from Nano-Assemblies"**, invited talk Workshop on Recent Advances in Thin Film Technology, Dept. of Physics, Basaveshwar Engineering College, Bagalkot, Karnataka, **19 December 2013**.
51. **"Nanotechnology: A Possible Solution for Modern Energy Crisis"**, invited talk Dept. of Physics, Karnatak Science College, Dharwad, Karnataka, **8 October 2013**.
52. **"Nanomaterials: A Possible Solution for Energy and Electronics"**, invited talk Dept. of Electronics & Communication KLE Institute of Technology, Hubli, Karnataka, **10 September 2013**.
53. **"Nanostructures and Molecular Assemblies for Modern Electronics"**, invited talk Workshop on "Quality Enhancement of Teaching for Excellence in Mathematics, Physics and Chemistry", Vision Group of Science and Technology, Govt. of Karnataka and Rani Channamma University, Belagavi, Karnataka, **10 July 2013**.
54. **"Prospects of Nanostructures and Molecular Assemblies in Modern Electronics"**, invited talk UGC Sponsored National Seminar on "Development in Thin Films Processing and Characterization Technology" Bharati Vidyapeeth, Deemed University, Pune, **8 October 2012**.
55. **"Prospects of Nanostructures and Molecular Assemblies in Modern Electronics"**, invited talk Physics Association Club, Dept. of Physics, Mangalore University, Mangalore, Karnataka, **28 November 2012**.
56. **"Design and Development of Self-Assembled Organic-Inorganic Structures for Low -Cost Photovoltaic Devices"**, invited talk National Workshop on Polymer Solar Cells, Indian Institute of Science Education and Research (IISER), Pune, **21 April 2012**.
57. **"Ceramics Materials"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **29 March 2011**.
58. **"Introduction to Glasses-I"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **29 March 2011**.
59. **"Introduction to Glasses-II"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **30 March 2011**.
60. **"Introduction to General Polymers"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **30 March 2011**.
61. **"Functional Polymers and their Applications"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **31 March 2011**.
62. **"Crystal Growth: Structure and Phase Diagrams"**, invited talk UGC-SAP Lecture Series, Dept. of Physics, Gulbarga University, Gulbarga, Karnataka, **31 March 2011**.

### 13. List of Publications:

#### Papers Published in International Journals

No	Publication Details	IF
1	"Significance of Electrode Contact Area on Memristive Parameters of Silver Iodide", Smita Gajanan Naik and Mohammad Hussain K.Rabinal, Materials Science in Semiconductor Processing, 10.1016/j.mssp.2021.106309. (2022).	3.927
2	"Dopamine Assisted Coral Films of Cobalt as Bi-functional Electrodes for Overall Water Splitting", Jyothi S. Doddamani, M. K. Rabinal, Energy Technology, 2100264 (2021).	3.6
3	"Melamine assisted large-scale and rapid synthesis of porous copper oxide nanostructures", Jyothi S. Doddamani, Rajashree M. Hodlur and M. K. Rabinal, Emergent Materials, Doi: 10.1007/s42247-021-00250-1 (2021).	0.64
4	"Rationally Designed Zn-Anode and Co <sub>3</sub> O <sub>2</sub> -Cathode Nanoelectrocatalysts for an Efficient Zn-Air Battery", Khaleel Ahmed Dilshad, M. K. Rabinal, ACS Energy & Fuels, 35, 12588-12598, (2021).	3.605
5	"CuO/Cu <sub>2</sub> S Composites Fabrication and Their Optoelectronic Properties", Rafiq Mulla, M.K.Rabinal, Mater. Renewable and Sustainable Energy, 1-7 (2021)	1.50
6	"Compositional Tuning of Negative Differential Resistance in Bulk Silver Iodide", Smita G. Naik and M.K. Rabinal, New Journal of Chemistry (RSC), DOI: 10.1039/D0NJ05427E (2021)	3.288
7	"A Low-Cost Apparatus to Measure the Seebeck Coefficient", Rafiq Mulla and M.K. Rabinal, Phys. Education, 56(1), doi.org/10.1088/1361-6552/abbac4 (2020).	---
8	"A Rapid Synthesis of Silver Nanoparticle Foam by Ultrasonication", B.K. Murgunde, Rafiq Mulla and M.K. Rabinal, J. Porous Materials, doi.org/10.1007/s10934-020-00951-8 (2020).	2.183
9	"Rapid Ambient Growth of Copper Sulfide Microstructures: Binder Free Electrodes for Supercapacitor", Sajeeda Shaikh and M.K. Rabinal, J. Energy Storage, 28, 101288 (2020).	3.517
10	<i>Invited Review:</i> "Molybdenum Disulphide Hetero-interfaces as Potential Materials for Solar Cells, Energy Storage and Hydrogen Evolution", Smita G. Naik and M.K. Rabinal, Energy Technology, doi.org/10.1002/ente.201901299 (2020).	3.163
11	"Tuning DNA Electrical Conductivity by Silver Photo-Doping", B.K. Murgunde and M.K. Rabinal, Biomedical Physics and Engineering Express, DOI 10.1088/2057-1976/abs5e04 (2019)	1.10
12	"A Tweezer as a Thermoelectric Tester", Rafiq Mulla and M.K. Rabinal, Phys. Education, 54055032 (2019).	---

13	"TiO <sub>2</sub> /rGO/CuS Nanocomposites for Efficient Photocatalytic Degradation of Rhodamine-B Dye", Raghu.M Gunnagol, Mohammad Hussain K Rabinal, <i>Chemistry Select</i> , 4, 61 (2019).	1.716
14	"Experiment with Schottky Junction: Estimation of Metal-Semiconductor Interface Parameters", Khaleel Dilshad and M.K. Rabinal, <i>European Journal of Physics</i> , 40, (2019).	0.861
15	"Foliar Application of Green Synthesized Zinc Sulphide and Zinc Oxide Nano Particles Enhances Growth, Root Attributes, Yield and Oil Quality of Sunflower ( <i>Helianthus Annuus L.</i> )" Sham S. Patel, B. N. Aravinda Kumar, Meera Dharam Singh, S. C. Alagundagi, V. P. Savalgi & M. K. Rabinal, <i>Global J. Sci. Front. Res.: Agriculture and Veterinary</i> , 19(4), 2249 (2019).	---
16	"TiO <sub>2</sub> -Graphene Nanocomposites for Effective Photocatalytic Degradation of Rhodamine-B Dye" Raghu.M Gunnagol, Mohammad Hussain K Rabinal, <i>Chemistry Select</i> , 3, (2018) 578-2585.	1.716
17	<i>Invited Review:</i> "Copper Sulfides: Earth Abundant and Low Cost Thermoelectric Materials", Rafiq Mulla and M.K. Rabinal, <i>Energy Technology</i> , 2018, <a href="https://doi.org/10.1002/ente.201800850">doi.org/10.1002/ente.201800850</a> .	3.163
18	"Defect Controlled Copper Iodide: A Promising and Eco-friendly Thermoelectric Material", Rafiq Mulla and M.K. Rabinal, <i>Energy Technology</i> , (2017).	3.163
19	"Biologically Active Nanocomposite of DNA-PbS Nanoparticles: A new Material for Non-Volatile Memory Devices", B.K. Murgunde, M.K. Rabinal and M.N. Kalasad, <i>Appl. Surf. Sci.</i> , 427, (2017) 344-353.	5.155
20	"Solution Processed Bilayer Junction of Silk Fibroin and Semiconductor Quantum Dots as Multilevel Memristor Devices", B.K. Murgunde, M.K. Rabinal, <i>Organic Electronics</i> , 48, (2017) 276-284.	3.495
21	"Large Scale Synthesis of Copper Sulphide by Using Elemental Source Via Simple Chemical Route", Rafiq. Mulla and M.K. Rabinal, <i>Ultra. Sonochem.</i> 39, (2017) 528.	7.279
22	"Ambient Growth of Highly Oriented Cu <sub>2</sub> S Dendrites with Superior Thermoelectric Behaviour", Rafiq. Mulla and M.K. Rabinal, <i>Appl. Surf. Sci.</i> 232, (2017) 181.	5.155
23	<i>Invited Review:</i> "Recent Developments in the Green Syntheses of Chalcogenide Based Semiconductor Nanoparticles", M.K. Rabinal, Raghu M. Gunnagol and Rajashree M. Hodlur, <i>Current Nanomaterials (Bentham Publication)</i> (2016), 1, 12-60.	---
24	"A Simple Dip-Coat Patterning of Aluminum Oxide to Constitute Bistable Memristor", Bindu Sharma and M.K. Rabinal, <i>Materials Research Express (IOP)</i> 3, (2016) 126302.	1.449

25	"Plasmon Based Metal-Graphene Nanocomposites for Effective Solar Vaporization", Bindu Sharma and M.K. Rabinal, <i>J. Alloys and Compounds</i> 690, (2016) 57.	4.175
26	"Organic Molecules on Silicon Surface: A Way to Tune Metal Dependent Schottky Barrier", M.K. Rabinal, <i>Appl. Surf. Sci.</i> 41, (2016) 382.	5.155
27	"A Simple Setup for Thermopower Measurements", Rafiq Mulla and M.K. Rabinal, <i>ACS Combinatorial Science</i> , 18, (2016) 177.	3.20
28	"Flexible Contact Stamp for Electrical Conductivity Measurements of a Soft Matter", R.M. Gunnagol, Bindu Sharma and M.K. Rabinal, <i>Measurements</i> , 92, (2016) 224.	2.791
29	"Electrochemical Properties of Highly Degenerate and Low Cost Cadmium Oxide Thin Films", S.P. Mundinamani and M.K. Rabinal, <i>Materials Research Express (IOP)</i> 2, (2015) 116401	1.449
30	"Biologically Active L-Cysteine as a reducing/capping Agent for Controlled Tuning of Gold Nanoparticles", Bindu Sharma and M.K. Rabinal, <i>J. Alloys and Compounds</i> 11, (2015) 649.	4.175
31	"Influence of pH of Spray Solution on Optoelectronic Properties of Cadmium Oxide Thin Films", R.M. Hodlur and M.K. Rabinal, <i>Journal of Semiconductors</i> 36, (2015) 033003.	---
32	"Short Chain Molecular Junctions: Charge Transport versus Dipole Moment". I. Mohamed Ikram and M.K. Rabinal, <i>Appl. Surf. Sci.</i> 232, (2015) 181.	5.155
33	"FRET From Core and Core-Shell Quantum Dots to Laser Dye: A Comparative Investigation", K.S. Adarsh, M.K. Singh, M.A. Shivkumar, M.K. Rabinal, B.N. Jagatap, B.G. Mulimani, M.I. Savadatti and S.R. Inamdar, <i>J. Lumen.</i> 160, (2015) 216.	2.961
34	"Molecular Modification of Highly Degenerate Semiconductors as an Active Electrode to Enhance the Performance of Supercapacitors", S.P. Mundinamani and M.K. Rabinal, <i>Materials Research Express</i> 1, (2014) 045508.	1.449
35	"Influence of Dipole Moment on the Optoelectronic Properties of Thiol Stabilized ZnO Nanoparticles", R.M. Hodlur and M.K. Rabinal, <i>J. Lumen.</i> 149, (2014) 317.	2.961
36	"A New Selenium Precursor for Aqueous Synthesis of Luminescent CdSe Quantum Dots" R.M. Hodlur M.K.Rabinal, <i>Chem. Eng. Journal</i> 244, (2014) 82.	8.355
37	"Cyclic Voltametric Studies on the Role of Electrode, Electrode Surface Modification and Electrolyte Solution of an Electrochemical Cell", S.P. Mundinamani and M.K. Rabinal, <i>IOSR Journal of Applied Chemistry</i> 7(II), (2014) 45-52.	0.13
38	"Size Tunable Near Infrared High Quality PbS Quantum Dots", M.N. Kalasad, M.K.Rabinal B.G. Mulimani and N.C. Greenham, <i>Applied Mechanics and Materials</i>	0.16

	490-91, (2014) 319.	
39	"Influence of Dipole Moment on the Optoelectronic Properties of Thiol Stabilized ZnO Nanoparticles" R. M. Hodlur and M.K.Rabinal, <i>J. Lumen</i> . 149, (2014) 317.	2.961
40	"A Sharp and Visible Range Plasmonic in Heavily Doped Metal Oxide Films" Uma Nerle, R. M. Hodlur and M. K. Rabinal, <i>Materials Research Express</i> , 1, (2014) 015910.	1.449
41	"Chitosan Capped Silver Nanoparticles Used as Pressure Sensor", K. Praveenkumar M.K. Rabinal, M.N. Kalasad, T. Sankarappa and Mahesh. D. Bedre, <i>IOSR J. Appl. Phys.</i> 5(5), (2014) 2278.	3.150
42	"Self Assembled Graphene Layers on Polyurethane Foam as a Highly Pressure Sensitive Conducting Composite", R M Hodlur and M K Rabinal, <i>Composite Science and Technology</i> 90, (2014) 160.	6.309
43	"Solution based cation-exchange process to control optoelectronic properties of cadmium sulphide thin films", Uma Nerle and M.K. Rabinal, <i>Amer. Chem. Sci. J.</i> 4(2), (2014) 151.	---
44	"Thermal oxidation of copper for favorable formation of cupric oxide (CuO) semiconductor" Uma Nerle and M.K.Rabinal, <i>IOSR J. Appl. Phys.</i> 4(6), (2013) 49.	3.150
45	"Electrochemical Synthesis and Optical Properties of Organically Capped Silver Nanoparticles" M.K. Rabinal, M.N. Kalasad, K. Praveenkumar, V.R. Bharadi and A.M. Bhikshavartimath, <i>J. Alloys and Compounds</i> 562, (2013) 43.	4.175
46	"Ambient Synthesis and Optoelectronic Properties Copper Iodide Semiconductor Nanoparticles" Bindu Sharma and M.K. Rabinal <i>J. Alloys and Compounds</i> 562, (2013) 43.	4.175
47	"An Optical Tweezer-Based Study of Antimicrobial Activity of Silver Nanoparticles" Yogesh, S. Bhattacharya, M.K. Rabinal and S. Ananthamurthy, <i>Bull. Mater. Sci.</i> 35 (4), (2012) 529.	1.264
48	"FRET from CdSe/ZnS Core-Shell Quantum Dots to Fluorescein 27 Dye" M.A. Shivkumar, L.S. Inamdar, M.K. Rabinal, B.G. Mulimani, G.M. Advi Rao and S.R. Inamdar, <i>Open J. Phys. Chemistry</i> 3, (2013) 40.	1.390
49	"Synthesis and Optoelectronic Properties of Symmetrical Thiophene Based 2,5-disubstituted 1,3,4-Oxadiazoles: Highly Fluorescent Materials for OLED Applications" S.I. Panchamukhi, N. Belavagi, M.K. Rabinal and I.M Khazi, <i>J. Fluoresc.</i> , 21, (2011) 1515.	1.913
50	"Facile Synthesis of Fluorescent CdS Quantum Dots of Tunable Light Emission", M.N. Kalasad, M.K. Rabinal, B.G. Mulimani, <i>J. Phys. D: Applied Physics</i> , 43, (2010) 305301.	2.829
51	"Effect of Work-Function of Contacting Metal on Metal-Molecules-Silicon	2.781

	<b>Junctions</b> , R.K. Hiremath, <b>M.K. Rabinal</b> and B.G. Mulimani, <i>Physics and Chemistry of Materials</i> , 12, (2010) 2564.	
52	<b>"Dipole Tuning of Charge Transport in Molecular Junctions"</b> R.K. Hiremath, <b>M.K. Rabinal</b> and B.G. Mulimani, <i>Physical Chemistry and Chemical Physics</i> 12, (2010) 2564.	3.567
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## Books/Chapters

### 1. Book Title: "Quantum Dot Optoelectronic Properties"

Springer Series in Materials Science

Editor: Zhiming Wang, Institute of Fundamental and Frontier Sciences  
University of Electronic Science & Technology of China

Chapter Contributed: "Quantum Dot Interfaces for Memristors"

Authors: Sajeeda Shaikh, Rafiq Mulla, M.N. Kalasad & **M.K. Rabinal**  
Chapter-9, 1-60 (2020).

2. Book Title: "Schottky Barriers: An Overview"  
Nova Science Publishers, Inc.  
Contributed Chapter on: "Molecular Modification of Schottky Barriers"  
Authors: Khaleel Dilshad, I. Mohammed Ikram and M.K. Rabinal  
Year: 2020.

#### 14. Conference Papers:

1. R. M. Gunnagol, M. K. Rabinal, "One-pot Synthesis of TiO<sub>2</sub>-CdS for Photocatalytic Degradation of Rhodamine B" at International Conference on "Sustainable Environment and Energy", 6-7 April 2017, Hindustan University, Chennai.
2. R. M. Gunnagol, M. K. Rabinal, "Photovoltaic and Photocatalytic Properties of CdS Thin Films" at International Conference on FEAST'17, 31<sup>st</sup> March 2017, NIT Tiruchipalli.
3. B. K. Murgunde, M. K. Rabinal, "Biologically Active Composites for Memory Switching Applications" at Interdisciplinary Symposium on Materials Chemistry (ICMS-2016), 6-10 December 2016, BARC, Mumbai.
4. B. K. Murgunde, M. K. Rabinal, "DNA Based Nanocomposites for Electrical Memory Applications" at International Conference on Frontiers in Nanoscience & Nanotechnology" (ICFNN-2016) conference, 26-28 February 2016, SASTRA University, Thanjavur (Tamilnadu)
5. Rafiq Mulla, M. K. Rabinal, "Simple Chemical Route to Synthesize Copper Sulfide of High Thermoelectric Performance" at International Conference on Frontiers in Nanoscience & Nanotechnology" (ICFNN-2016) conference, 26-28 February 2016, SASTRA University, Thanjavur (Tamilnadu).
6. S. P. Mundinamani and M. K. Rabinal, "Silver-polyurethane composites for supercapacitor applications", *International Conference on Direct Digital Manufacturing and Polymers, Karnatak University Dharwad, India, 28-30 October 2015.*
7. S. P. Mundinamani and M. K. Rabinal, "Supercapacitors based on CdO thin films", *The 5<sup>th</sup> Interdisciplinary Symposium on Materials Chemistry (ISMC), Bhabha Atomic Research Center, Mumbai, December 2014.*
8. M. N. Kalasad, M. K. Rabinal, B. G. Mulimani, and N. C. Greenham, "Size controlled near-infrared high-quality PbSe quantum dots", *59th DAE Solid State Physics Symposium, VIT Vellore, Tamilnadu, India, December 2014.*
9. R. M. Hodlur, Raghu M. Gunnagol, and M. K. Rabinal, "Effect of pH of spray solution on the electrical properties of cadmium oxide thin films", *59th DAE Solid State Physics Symposium, VIT Vellore, Tamilnadu, India, December 2014.*
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35)	poornima Bulaji	Basaveshwar Science College Bagalkot	9108588064		100/-	
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65	Girija	"			100/-	Girija
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74	Shreekanth S. Ganigal	B.V.V.S science college	844952169	ganigalshreekanth83@gmail.com	100/-	S.S. Ganigal

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58	Aishwarya S. Yadav	B.V.V.S. Aikamatadani Women's Arts, Science and Commerce college, Bagalkote	831021447	aishwaryadav@gmail.com	200/-	A.S.
59	Sul.V.M. Fakhari	B.V.V.S "	9098145813	sulv.m.fakhari@gmail.com	200/-	S.V.M.
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61	Mrs. Neelima T. Kulkarni	"	8795972174	neelimakulkarni78@gmail.com	200/-	N.T.
62	Amr. P.R. Chougale	"	771000535	amr.p.r.chougale@gmail.com	200/-	A.P.R.
63	Shr. A.R. Badiger	"	877139167		200/-	A.R.
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67	Rafull Dudge	St. Joseph's College, Bellary	88294034	rafull.dudge@gmail.com	100/-	R.D.
68	Surya Reddy	St. Joseph's College, Bellary	801116607	suryareddy@gmail.com	100/-	S.R.
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70	Shubra Shidyal	"	708520009	shubra.shidyal@gmail.com	100/-	Shubra
71	Pooja Kulkarni	Akshayakumar Women's college Bagalkot			200/-	P.K.
72	Vidya. Patil	"			200/-	V.P.
73	Dr. Gurish S. Lant	SECAB ARCI Women's Degree college Vijayapur			200/-	G.S.L.

Sl no	Name of Participant	College Name	Roll number	E-mail ID	Amount	Signature
74	Dr. Dipam Sathesh All prof. Society	Int. A.S.M. College for women Ballari			200/-	✓
75	Dr. Syeda Khatkhatan Tariqees Fatima All prof. Society	Int. A.S.M. College for women Ballari			200/-	✓
76	Shri. G.S. Kuyapur 1 (Kuma Sahas)	Basarshwar, Arts Science & commerce college Vidhyarthi			100/-	✓
77	Prof. Mahima Deshpande Dept of Physic	Basarshwar Science college BAGALKOT	240225218	mahimashinde@gmail.com	200/-	✓
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Dr. Shivaji A. Kulkarni  
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Dr. H. N. Kirasur  
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Prof. M. S. Bahinad  
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