

## CURRICULUM VITE

### Dr. BADEKAI RAMACHANDRA BHAT

Professor (HAG)

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**Residence** : “Poornachandra” 15-22-1169/3, 3<sup>rd</sup> Cross, Lower Bendoor, Kankanady,  
Mangaluru-575002, DK, Karnataka, India



### CURRENT POSITION

November 2012: Professor

### EDUCATION

Ph.D. in Chemistry ( 1994-1998) Mangalore Univesity

M.Sc. in Chemistry (1990-1992) Mangalore University

B.Sc in PCM (1987-1990) Mangalore University

**Ph.D. Thesis** : *Studies on oxygen, nitrogen and sulfur donor ligands as complexing agents, masking and gravimetric reagents. Supervisor: Prof. B. Narayana.*

### WORK EXPERIENCE

|   |   |
|---|---|
| Professor (HAG) (21.11.2024- till date)   | Department of Chemistry, NITK Surathkal |
| Professor (November 2012-20.11.2024)      | Department of Chemistry, NITK Surathkal |
| Associate Professor (November 2008-2012)  | Department of Chemistry, NITK Surathkal |
| Assistant Professor (November 2005-2008)  | Department of Chemistry, NITK Surathkal |
| Sr. Scale Lecturer (November 2002-2005)   | Department of Chemistry, NITK Surathkal |
| Lecturer (November 1998-2002)             | Department of Chemistry, NITK Surathkal |
| Assistant Lecturer (Sept. 29-Nov.15,1998) | KREC Surathkal                          |
| Guest Lecturer (September,1998)           | Mangalore University                    |
| Lecturer (July 2, 1992-August 30, 1998)   | Vivekananda College, Puttur.            |

### RESEARCH GUIDANCE

|                            |           |                                   |           |
|----------------------------|-----------|-----------------------------------|-----------|
| Number of Ph.D. Awarded:   | <b>20</b> | Number of M.Phil. Awarded:        | <b>01</b> |
| Number of PG Projects:     | <b>35</b> | Number of Ph.D. Students working: | <b>04</b> |
| Number of B.Tech Projects: | <b>03</b> |                                   |           |

### RESEARCH PUBLICATIONS

International/National Journals: **154**

Books Published: **02**

Book Chapters: **04**

*h*- Index: **30**, *i10*- Index: **73**, Citation: **2980**

Invited talks: **35**

**Patents: Granted: 06, Published: 02**

### AWARDS/FELLOWSHIP

**Commonwealth Academic Fellowship**: Northumbria University, New Castle Upon tyne, United Kingdom from January to April, 2015.

**Visiting Scientist under Brain Pool Program**, South Korea - 2003 to 2005

**Prof. S.T. Nandibewoor Award-2019** from Indian Council of Chemists held its 38<sup>th</sup> Annual

Conference at Jaipur National University, Jaipur 26-28<sup>th</sup> December, 2019

### RESEARCH INTEREST

Carbon Nanostructures and its composites for hydrogen storage materials, Catalysis, Supercapacitors, Biosensors, NLO materials etc.

Graphene Quantum Dots for Biosensors and Solar Cell Applications.

Homogeneous/ Heterogeneous Catalysis

Coordination Compounds, Organometallic Compounds as NLO Materials

### SPONSORED PROJECTS

Design and Development of Non-Enzymatic Biosensors for Dengue Virus (DENV)

(AISTDF) SERB, DST (PI), (Co-PI from Philippines & Brunei Darussalam) **48.29** Lakhs (2020-2023).

Carbon nanotubes by catalytic pyrolysis and its hydrogen storage properties – DRDO (PI) **21.9** Lakhs (2009-2013).

Green conversion of alcohols to carbonyl compounds in ionic liquids using nickel catalysts containing PPh<sub>3</sub> and *N*-(2-pyridyl)-*N'*-(salicylidene) hydrazine ligands. TEQIP (PI) **6.0** lakhs (2007-2009).

Synthesis, Characterization Studies on Nonlinear Optical Properties of some Organometallic Compounds. TEQIP, (PI), **6.0** Lakhs (2008-2009).

Synthesis Characterization and NLO studies of Ni(II), Co(II) complexes containing 1,10-phenanthroline Derivatives. TEQIP (PI), **3.0** Lakhs (2008-2009).

**Consultancy Work: 27.80 Lakhs**

### RESEARCH COLLABORATION

Dr. T.H. KIM, Korea Institute of Energy Research, Republic of South Korea

Dr. Fawad Inam, Northumbria University, United Kingdom

Prof. Veena Shajawalla, SMaRT Center, University of New South Wales, Sydney, Australia

### ADMINISTRATIVE EXPERIENCE

CHAIRPERSON, Institute Grievance Redressal Committee (IGRC) June, 2024 to till date.

MEMBER, BOG, NITK- OCT. 2014 to Oct. 2016

MEMBER, FINACE COMMITTEE, NITK –OCT.2014 to Oct. 2016

HEAD OF THE DEPARTMENT – 11<sup>th</sup> August, 2014 to 10<sup>th</sup> August, 2016

Member, Quarters Allotment Committee, 2014-2016

Member, GPF Trust Board, 2015-17

BOS/BOE Member of various Universities.

Faculty Association of NITK- President -2014-16

Faculty Association of NITK- Secretary-2013-14

Co-coordinator- Ring Presentation-2013

FANITK- Executive member-2012

Convener, Prize committee, Incident-2012.

Convener/Co-convener, Dress committee, Convocation, 2023,2024/ 2011, 2012, 2013.

Associate NCC officer (ANO) -2001-2007, 2 Kar.Eng.Coy. Mangalore Group.

### REVIEWER

Reviewer for many International Journals in the field of catalysis, NLO materials, Nano materials for energy storage and devices.

Ph.D. Thesis evaluation of NITs, Indian Universities and Foreign Universities.

### COMMITTEE MEMBER

Member of NAAC visiting Committee

Member of NCTE visiting Committee

Chemistry Subject expert for UPSC, JEE, NTA etc.

### ABROAD VISITS

USA, Republic of South Korea, Germany, France, Australia, Singapore, Malaysia, Thailand, UAE, Philippines, Brunei, Japan, Netherlands, Switzerland, Belgium, Italy.