

## 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



### EDUCATION

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

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

B.Sc in PCM (1987-1990) Mangalore University ( St.Alyosius College Mangaluru)

**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>43</b>	Number of Ph.D. Students working:	<b>06</b>
Number of B.Tech Projects:	<b>03</b>		

### RESEARCH PUBLICATIONS

International/National Journals: **165**

Books Published: **02**

Book Chapters: **07**

*h*- Index: **33**, *i10*- Index: **83**, Citation: **3500**

Invited talks: **36**

**Patents: Granted: 06, Published: 04**

### 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, Water purification, 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.

## **Dr. Badekai Ramachandra Bhat, Prof (HAG), Department of Chemistry, NITK, Surathkal**

Dr. Badekai Ramachandra Bhat has obtained both M.Sc. and Ph.D. degrees from Mangalore University. After working for six years as Lecturer in Vivekananda College, Puttur he moved to National Institute of Technology Karnataka (NITK), Surathkal in the year 1998. Presently working as Professor (HAG) in the Department of Chemistry, NITK. He was a Visiting scientist at Korea Institute of Energy Research, Republic of South Korea during 2003 to 2005 under Brain Pool Fellowship. He was a Commonwealth Academic Fellow in 2015 at Northumbria University, New Castle Upon Tyne, United Kingdom. Prof. Bhat is a Visiting Professor in SMaRT center, University of New South Wales, Sydney, Australia.

Prof. Bhat's research interest are Carbon Nanostructures and its composites for hydrogen storage materials, Catalysts, super-capacitors, biosensors etc. Metal oxides and composite materials as gas sensors. Coordination Compounds and Organometallic Compounds as NLO materials and Homogenous/Heterogeneous Catalysis for organic transformations.

Prof. Bhat has published more than 160 scientific articles in reputed International journals. He has about 130 conference presentations too. He has 06 patent granted and 04 published. He has guided 20 Ph.D. students and 06 students are presently working. Prof. Bhat has guided 38 students for M.Sc. projects. He has delivered more than 40 invited talks. He has published two books and 4 book chapters. He has research collaborations with Korea Institute of Energy Research, Republic of South Korea, Northumbria University and University of East London, United Kingdom, University of New South Wales, Australia, Philippines, Brunei, IIT-Mumbai, IIT Madras and NIT Trichy and other Indian Universities. Prof. Bhat is a reviewer for many international journals in the field of catalysis, NLO materials, Nano materials for energy storage and sensing devices. He has obtained research grant from DRDO, DST, SERB, MHRD and TEQIP.

Prof. Bhat has the following awards to his credit,

1. Brain Pool Fellowship from Republic of South Korea in the year 2003-2005
2. Commonwealth Academic Fellowship from United Kingdom in the year 2015
3. Prof. S. T. Nandibewoor Award-2019 from Indian Council of Chemists.

He has visited more than 20 foreign countries for research interaction and paper presentation.

Prof. Bhat's h-index is 33, and citation is 3500. Prof. Bhat is working as a visiting member of NCTE, NAAC and subject expert for UPSC.

Prof. B. Ramachandra Bhat served as head of the department, Member of Board of Governors, NITK, Member of finance Committee, Chairman, Institute Grievance Committee, NITK, President of Faculty Association of NITK and many other administrative capacities. He was Associate NCC officer in NITK for ten years.

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