

**Dr. K M Balakrishna**

**M.Sc. Ph.D.**

**Designation: Professor of Physics**



**email: [kmbkrishna@gmail.com](mailto:kmbkrishna@gmail.com); [kmb@mangaloreuniversity.ac.in](mailto:kmb@mangaloreuniversity.ac.in)**

Research areas are X-ray Fluorescence, Compton Profile, Atmospheric Science, Weather monitoring, Thin film studies. Guided 7 Ph.D. students and 1 M.Phil student. More than 35 research papers have been published in the journals of repute. Completed / ongoing research projects are funded by DST and DAE-BRNS.

1. **Qualification** : M Sc, Ph D
2. **Date of Birth** : 22-07-1957
3. **Permanent address** : Kagalagodu, Narve Post - 577 126  
Koppa Taluk, Chickmagalur.

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4. **Educational Qualifications:** SSLC – 1974 (70.8%)  
B Sc (Mysore Univ.) – 1979 (65.6%)  
M Sc (Mysore Univ.) – 1981 (58.5%)  
Ph D (Mangalore Univ.) – 1989

Thesis: **K fluorescence studies in the region of rare earth and heavy elements.**

5. **Research / Teaching experience** : 1981 Dec – 1988 Aug. Research Fellow  
: 1988 Sep – 1995 Mar. Lecturer

: 1995 Apr - 2003 Mar. Reader  
: 2003 Apr. onwards Professor

**6. Research field**

- : i. Nuclear Physics
  - a. X-ray fluorescence
  - b. Compton Profile
- ii. Atmospheric Science
  - a. Weather monitoring & Modelling

Other areas of interest : Instrumentation, Computers: hardware and software, Automobile, Gardening, Snake catching and Bee keeping.

**7. No. of research paper published :**

In International Journals	21
In National Journals	20
Presented in Seminars/Conferences	79
Books Published	2

**8. Research Projects handled: Completed: 08**

**9. Research Guidance:**

	Guiding	Awarded
Ph D	6	7 +1 (to be awarded)
M Phil	-	1

10. **Fellowships if any:** Nil

11. **Awards if any:** Nil

12. **Foreign visits if any:** Nil

13. **Membership of Professional bodies:** Life member ISRP, Life member IPA

14. **Was a Member BOA of:** Karnatak University, Dharwad; Bangalore University, Bangalore; Kuvempu University, Shivamogga; Tumkur University, Tumkur; Calicut University, Calicut; Mangalore University, Mangalore
15. **Member BOS and BOE of:** Karnatak University, Bangalore University, Kuvempu University, Mysore University, Manipal University, Davangere University, Gulbarga University, Vijayanagara Sri Krishnadevaraya University, Mangalore University, Mangalore
16. Member IQAC of Dental Sciences, Nitte University
17. Member Centre for Gandhian Studies, Ambigara Choudaiah Peeta, Mangalore University
18. Other:
- One day workshop on Industrial Corrosion, Awareness and Prevention” held at Mangalore University, Feb 25, 2006
  - Discussion Meeting on R&D Using Microtron Facility, held at Mangalore University, Feb 17, 2006
  - One day workshop on “Recent Trends in Electronic Instrumentation” held at Kuvempu University, April 25, 2006
  - Meteorological measurements of Mangalore region for ARMEX programme. National Workshop on Arabian Sea Monsoon Experiment (ARMEX) Data Analysis and Modelling, held at NIO, Goa, April 19-21, 2006.
  - Participated in “BARC Golden Jubilee DAE-BRNS National Workshop on Nuclear Databases and Applications” held at Mangalore University, Nov. 8-11, 2006.
  - Involved in the organization and participated in a Regional Seminar on "Application of Radioisotopes and Radiation Technology" held at Mangalore University during Nov. 29-30, 2006.
  - Involved in the organization of "Special Lecture Series in Physics" held at Mangalore University during Mar. 15-17, 2007.
  - Participated in International Conference on Recent Advances in Industrial Electrochemical Science and Technology (ICRAIEST-2009) held at Mangalore University, November 5-7, 2009
  - Talk on “Nuclear Radiations and Detection”. Refresher course BGS Pre-University College, Sringeri. 30.11.2010
  - Talk on “Nuclear Radiations and Detectors”. Refresher course Central College, Bangalore University, Bangalore. 01.01.2011
  - Talk on “Energy saving electrical and electronics devices”. INSPIRE program held at Nirmala College, Muvathupuza, Kerala.
  - Talk on “Energy options and energy saving”. INSPIRE program held at Mahaveera College, Moodabidri, Karnataka.
  - Talk on “Nuclear Radiation, Detection and Energy Perspectives”. INSPIRE program held at Manipal University, Manipal, Karnataka.

- Resource Person for the Regional Children's Science Congress 2013 of Hyderabad Region, conducted at NITK Suratkal from 15 to 20<sup>th</sup> November 2013.

**PROJECTS Completed**

<b>Sl. No.</b>	<b>Title of the Project</b>	<b>Sanctioning agency</b>	<b>Amount sanctioned</b>
1	Baseline radiation background studies in the environment of coastal Karnataka Kaiga, and Goa (Co-PI)	BRNS, DAE 1988-91	Rs. 4,26,680/-
2	Distribution of natural and artificial Radioactivity components in the environs of Kaiga, coastal Karnataka and Goa (Co-PI)	BRNS, DAE 1991-94	Rs. 12,45,800/-
3	Studies on radioactivity in aquatic and atmospheric environs of coastal Karnataka, Kaiga and Goa (Co-PI)	BRNS, DAE 1995-2000	Rs. 15,52,400/-
4	Establishment of Centre for excellence in radiation physics and radiological science(Co-PI)	BRNS, DAE 1996-2002	Rs. 65,00,000/-
5	Meteorological Measurements of Mangalore Region for ARMEX Programme: Observations and Data analysis (PI)	DST 2002-2004	Rs. 3,25,000/-
6	Advanced Meteorological Modelling of Mangalore Region: Observations and Data Analysis (PI)	DST 1998-2004	Rs. 17,32,470/-
7	R&D using Microtron: Establishment of National Facility (PI)	DST 1998-2005	Rs. 95,00,000/-
8	Studies on effects of electron and bremsstrahlung on MOS devices and Cadmium Telluride (CdTe) based thin film solar cell using Microtron facility of Mangalore University (Co-PI)	BRNS 2006-2009	Rs. 13,41,500/-