


BIO-DATA

Name of Faculty:		Dr. G. K. NARASIMHA MURTHY		
				
Academic Performance:				
Qualifications	Board / IIT University	Institute and place where studied	Year of passing	Class / % marks
M.Sc.	Bangalore	Jnanabharathi	1989	FC
M.Phil.	Annamalai	Annamalai university	2005	SC
Ph.D.	V T U	MSRIT	2018 completed	
FCD- First Class Distinction, FC- First Class, SC- Second Class				
Number of promotions since date of joining :		3 [Senior grade lecturer, Assistant Prof, and Associate Prof.]		
Designation:		ASSOCIATE PROFESSOR		
Email ID:		gknmurthy64@gmail.com		
Date of Birth:		01/01/1964		
Gender:		MALE		
Address with Pin Code:		AMR-24, DEEPALAYA, SFHS, BEHIND APMC QTS NANDINI LAYOUT BENGALURU-560096		
Address for Communication:		ASSOCITE PROFESSOR DEPT OF PHYSICS BIT K R ROAD V V PURAM BENGALURU-560004		
Faculty in which Ph.D. was awarded:		Physics (Applied Sciences)		

Date of registration for Ph.D.	09-05-2009
PhD specialization area:	LIQUID CRYSTAL DIMERS
Title of PhD thesis:	OPTICAL AND THERMO DYNAMICAL STUDIES ON SOME LIQUID CRYSTALLINE DIMERS
A brief write up on your Ph.D. work	<p>In my Ph.D. work, I have studied the optical and thermo dynamical properties of liquid crystal compounds having spacer length n=5, 7, 8 & 10 as given below.</p> <p>α (4-cyanobiphenyl -4 pentyloxy)-ϕ 4-n-alkylanilinebenzylidene-4oxy)decane SC-453 (DL-5), α-(4-cyanobiphenyl -4 heptyloxy)-ϕ 4-n-alkyl anilinebenzylidene-4oxy) decane SC-422 (DL-7), α-(4-cyanobiphenyl -4 octyloxy)-ϕ 4-n-alkylanilinebenzylidene-4oxy)decane SC-438 (DL-8) and α-(4-cyanobiphenyl -4 decyloxy)-ϕ 4-n-alkylanilinebenzylidene-4oxy)decane SC-423 (DL-10). I have adopted theoretical models modified Lippincott –Delta function and molecular vibrational method. This theoretical method is verified using two experiemntal methods namely Vulks and Naugaur method. The results are in good agreement with the experiemntal values. By using these calcuations we can conclude that the lateral and linear proeprties of these elements can be used in the LCD display.</p>
Name of the university from which PhD was awarded:	V T U BELAGAVI
Year of award of Ph.D:	2018
Your PhD degree is considered with effect from:	27/11/2017
Number of Bodies with professional Membership/Association: Give details	1. Member of Indian Society for Technical Society, Member ship number: LM22010 since 1996.
Number of projects guided for UG and PG students and their details:	Guided two M. Phil., students Dr. U P Raghavendra Asst prof BIT. Sri. DVB Jagadeeswar rao Director career edge institute Bengaluru.

- **Are you a recognized Research Supervisor in other Universities? If Yes, Give details.**

Sl No.	Name of the University	Degree awarded (Ph.D. / M.Phil)	Number of candidates
1	Vinayaka Mission University	M. Phil	2
2	V T U Belagavi	Nil	Nil

- **Research Papers published:**

Sl No.	Authors	Journal details	Volume	Pages	Year
1	G. K. Narasimha Murthy, C. M. Subhan, Seema Agarwal, S.Rangappa, C. V. Yalamaggad and K. Fakruddin.	Molecular Crystals and Liquid Crystals	Vol. 641, pp 25-36, 2016	pp 25-36,	2016
2	G. K. Narasimha Murthy, Seema Agarwal, S. Rangappa, C. V. Yalamaggad and K. Fakruddin.	IJDR (ISSN: 2230-9926),	Vol. 5, No. 2,	pp 3400-3407,	Feb-2015
3	G. K. Narasimha Murthy, Vijaya Kumar P. C., Seema Agarwal, S. Rangappa and K. Fakruddin	JIRAS (ISSN: 2320-1932),	Vol. 1, No. 1,	pp 109-116,	June-2013
4	Vijaya Kumar P. C, G. K. Narasimha Murthy, Jeevan Kumar R, S. Rangappa and K. Fakruddin.	, JIRAS (ISSN: 2320-1932),	Vol. 1, No. 1,	pp 117-122	June-2013

Details of Paper presented in Conferences:

Sl No.	Name of Conference	Organised by	Date	Place
1	National Conference Synergy-2012	JyotiNivas College, Bengaluru	2 nd & 3 rd Feb-2012	Bengaluru
2	National Seminar on Emerging Trends in Soft Materials	S. K. University, Ananthpur	1 st & 2 nd , Nov-2012	Ananthpur
3	National Seminar on Emerging Trends in Soft Materials	S. K. University, Ananthpur	1 st & 2 nd , Nov-2012	Ananthpur
4	International Conference ICIRS-2013	Bharath University, Chennai	6 th April-2013	Chennai

5	International Conference ICIRS-2013	Bharath University, Chennai	6 th April-2013	Chennai
6	5th International Conference on Luminescence and its Applications (ICLA-2015)	PES University, Bengaluru	9 th to 12 th , Feb-2015	Bengaluru

• **Details of Workshops / Seminars / FDP's attended:**

Sl No.	Name of workshop / Seminar / FDP	Organised by	Date	Place
1	Recent Advances in Material Science" (RAMS-11)	MSRIT, Mattikere B'lore-54.	12 th to 14 th December 2011	Mattikere B'lore-54.
2	DIPA-2012" (Digital imaging processing & applications)	BIT, vvpuram, Blore-4.	1 st 2 nd & 3 rd March 2012	vvpuram, B'lore-4
3	Innovations in Nanoscience and Nanotechnology [INST-2012]	RNSIT, Bangalore	on 18 th August, 2012.	RNSIT, Bangalore
4	Frontiers of Science	Vivekananda Degree College, B'lore	3 rd & 4 th sept 2012	B'lore
5	Emerging Trends in Soft Materials	SK University Ananthpur, Andrapradesh.	1 st & 2 nd November 2012	Ananthpur, Andrapradesh.
6	Non-linear and Applied optics	MSRIT Mattikere B'lore-54.	2 nd & 3 rd August 2013.	Mattikere B'lore-54.
7	Author workshop program	VTU Belgaum Springer	13 th February 2014	Central college b'luru
8	Luminescence and its application (ICLA-2015)	PESIT Bengaluru on 9-12 February 2015	9-12 February 2015.	Bengaluru
9	Research methodologies [RM-2015]	Karnataka Science & Technology Academy [KSTA] & KSCST, DST. Government of Karnataka	4 th March 2015.	BIT, vvpuram, B'lore-4
10	Science and Technology for Gen Next Urban	KSTA & BIT	5 th & 6 th November, 2015.	BIT, vvpuram, B'lore-4
11	Recent development and challenges in materials and manufacturing process [RDCMMP-2018]	Mechanical Engineering department of BIT	1/1/2018 to 13/1/2018 [15 days]	BIT, vvpuram, B'lore-4
12	Synthesis characterization & applications of nano technology [SCAN-2018]	Dr. AIT Bengaluru	3 rd to 5 th April 2018.	Bengaluru

- **Details of Conferences / Workshops / Seminars / FDP's organized, with you as a member of organizing committee:**

Sl No.	Name of Conference/ Workshop / Seminar / FDP	Organised by	Date	Place
1	100 th Year celebration of Einstein's work	Dept of physics	23 April 2016	BIT B'lore-4
2	Shock waves in Science, Engineering and Medicine	Dept of physics	24 th and 25 th March 2017	BIT B'lore-4

If you are not involved in research at present, what are your plans for contribution and commitment towards research in future days? Prepare a small write up and give declaration.

I hereby declare that I will register myself as a guide under VTU and take students for Ph.D. I am planning to carry out experiments to enhance the electro optical properties of the liquid crystals I have used by dispersion of nanoparticles into them. I also plan to enhance the photoluminescence of liquid crystals by doping appropriate amount of silver nanoparticles into liquid crystals.

Signature of Faculty

Signature of HOD

Date: 08-02-2019