

J. V. Shanmukha Kumar

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EDUCATION

Ph.D., Analytical Chemistry, August 2012

Acharya Nagarjuna University - Guntur

Research Advisor : Dr.D.Ramachandran

Thesis Title : Application of Analytical Methodologies for the
ASSAY of selected drugs in Pure and
Pharmaceutical dosage forms

M.Phil. Analytical Chemistry, September 2007

Acharya Nagarjuna University -Guntur

Research Advisor: Dr.D.Ramachandran

Dissertation Title: Analytical Assay of Anti Malarial Drugs
pyrimethamine and Chloroquine

M.Sc., Industrial Chemistry, April 1997

Vikram University- Ujjain

UNIVERSITY TEACHING EXPERIENCE

Associate Professor, K .L. University - Present

Course coordinator, Chief Superintendent of Examinations.

1. Responsible in designing and delivering the syllabus for all chemistry courses in the university.
2. Responsible for the complete life cycle of the course starting from the admission to the grading.
3. Teach Engineering Chemistry, Analytical Chemistry Lab for 3 sections of size 85 undergraduate Engineering students every semester.
4. Acted as Chief Superintendent of Examinations, owned the responsibility of planning various aspects like internal squad/invigilator, facility engineering of the complete university for the seamless execution of End-semester examinations.
5. Guiding and supervising the progress of 2 PhD Students.
6. Conducted several brownbag sessions to explain the bigger picture of the subject with various SMEs and students.
7. Have initiated multiple one on one session with slow-learning students to help them understand the concepts of chemistry.

Assistant Professor, K. L. University (2002 – 2012)
Engineering Chemistry, MATLAB, Principles of Chemical Engineering, Industrial Chemistry, Organic and Physical chemistry.

1. Taught 3 sections of approximately 85 undergraduate Engineering students for 20 consecutive academic semesters
2. Delivered lectures, graded papers, and met individually with students.

Lecturer, S.K.Degree College (1998 – 2002)
Physical Chemistry, Organic Chemistry, chemistry labs.

- Taught large lecture sections as needed, graded papers, planned and organized the development of the chemistry Lab.

RESEARCH EXPERIENCE

Research Scholar, Acharya Nagarjuna University

1. Development and validation of new visible spectrophotometric methods for the assay of selected drugs.
2. Development and validation of new HPLC methods for the assay of Pharmaceutical Samples.
3. To monitor the drinking water quality standards in the towns and villages of Guntur Dist – Proposed
4. To develop Low Cost methods for the removal/reduction of unwanted toxic impurities from surface and underground water-Proposed.
5. Synthesized and characterized metal oxide glass in collaboration with department of physics.

PUBLICATIONS

1. Spectrophotometric determination of a Leucotriene receptor antagonist in Pharmaceutical dosage forms, Rasayan Journal of Chemistry, Vol.3, No.1, 166-171, 2010- **J.V.Shanmukh Kumar**, D.Ramachandran, V.S.Settaluri, C.Shechinah Felice
2. Validation of novel spectrophotometric methods for estimation of propyl gallic acid, Rasayan Journal of Chemistry, Vol.3, No.4,751-754, **2010**- M.Ratna Mounica, T.Anusri, T.Ravali, S.Vijaya Saradhi and **J.V.Shanmukha Kumar**
3. Validation of analytical procedures for determination of rizatriptan benzoate , The Pharma Research (T. Ph. Res.), (**2010**), 4; 28-37-**Shanmukha kumar.J.V.** , Ramachandran.D, Settaluri.V.S., Lakshmi Lavanya. A and Shechinah Felice.C
4. Spectroscopic and optical properties of Nd³⁺ doped fluorine containing alkali and alkaline earth zinc-aluminophosphate optical glasses, Physica B: Physics

- of condensed Matter, Volume 404, Issue 20, p. 3717-3721, **2009**
Srinivasa Rao, A.; Prasad, M. V. V. K. S. **Shanmukha Kumar, J. V.**;
5. RP-HPLC Method for the Estimation of Montelukast Sodium in Pharmaceutical Dosage Forms, current trends in biotechnology and pharmacy, vol.4, no.4, **2010- J.V.Shanmukh Kumar, D.Ramachandran, V.S.Settaluri**
 6. Visible spectrophotometric methods for estimation of Montelukast sodium in bulk dosage forms and formulations, An interational journal of pure and applied chemistry, Volume No. 026 Issue No.: 01, **2010- J.V. Shanmukha Kumar, D. Ramachandran, K. Sushma and S. Vijay**
 7. Validation of a novel Spectrophotometric methods for estimation of Deferasirox, International Journal on Pharmaceutical and Biomedical Research (IJPBR) Vol. 2(1), **2011, 1-3. Lalitha Manasa.P, Shanmukh Kumar J.V., Vijaya Saradhi.S and Rajesh.V;**
 8. Development and validation of spectrophotometric methods for determination of maxalt® (rizatriptan benzoate) in pure and pharmaceutical formulation, IJPI'S Journal of analytical chemistry, accepted **2011-Shanmukha Kumar.J.V. , Prasad. K. R. S., Ramachandran.D, Settaluri.V.S;**
 9. Microwave assisted synthesis of 2-(7-(3-hydroxydiphenylamino)-9,9-diethyl-2-fluorenyl) benzothiazole and 2-(7-(3-hydroxydiphenylamino)-9,9-diethyl-2-fluorenyl) benzoxazoles- Der pharma Chemica, Apr, 12, Vol 4(2), Pp 690-693 K.R.S.Prasd, **J.V.Shamukha Kumar**
 10. Spectrophotometric determination of montelukast sodium in bulk and pharmaceutical formulations- Der Pharma chemical, Apr, 12 Vol 4(2) Pp 720-724 - **J V Shanmukha Kumar , Geeta Swarupa P**
 11. Application of Potassium Permanganate to the spectrophotometric Determination of Oseltamivir Phosphate in Bulk and Capsules , Asian Journal of Pharamaceutical and Clinical Research , Apr, 12, Vol 5(2) Pp18-22 - J.V.Shamukha Kumar, S.Prasanthi
 12. Spectrophotometric Estimation of Hydralazine Hydrochloride in Pharmaceutical Formulation, Journal of Pharmaceutical Biology, Mar, 12, Vol2(1) Pp 16-19- **J V Shanmukha Kumar**
 13. Physicochemical analysis of watersamples of Nujendla area in Guntur District, Andhra Pradesh, India, International Journal of ChemTech Research, June,12, Vol 4(2) Pp 691-699- K.R.S.Prasad, **J.V.Shanmukha Kumar, S.Prasanthi**

14. Microwave assisted synthesis of 3-(4Ethylbenzyl)-1-(4-methoxybenzyl)- 6-(methylthio)-1,3,5-triazine-2,4 (1H, 3H)-dione derivatives Under solvent free condition with high yields, Research Journal of Recent Sciences, Jan, 2012- Vol.1 Pp105-109 - K.R.S.Prasad, **J.V. Shanmukha Kumar**
15. Simple and sensitive extractive spectrophotometric method for the assay of Ambien in pure and pharmaceutical formulations, International Journal of Research in Pharmaceutical Sciences, Jan, 2012, Vol 3(1) Pp62-66-A.L.Lavanya, **V. Shanmukha Kumar**, K.R.S.Prasad
16. Synthesis and characterization of new mesogenic 4-n-alkoxy benzaldehyde semicarbazones, Research Journal of Chemical Sciences, Oct, 2011, Vol.1(7) Pp.89-91- K.R.S.Prasad , **J.V. Shanmukha Kumar**
17. SPECTROPHOTOMETRIC DETERMINATION OF PRASUGREL IN BULK, DOSAGE AND BIOLOGICAL FLUIDS, A LAKSHMI LAVANYA, **J V SHANMUKHA KUMAR**, P GEETA SWARUPA AND K R S PRASAD, Int J Pharm Pharm Sci, 2012, Vol 4, Suppl 5, 280-281.
18. Development and Validation of RP-HPLC Method for the Estimation of Raloxifene in Marketed Formulations, S. Pulla Reddy , S.V.M. Vardhan , D. Ravi Kumar , **J.V. Shanmukha Kumar** & C. Rambabu Analytical Chemistry Letters, 2012, 2:6, 358-362.
19. Novel Spectrophotometric Methods for the Assay of Tenofovir Disoproxil Fumarate in Bulk and Dosage Forms, M.Srinivasa Rao, D.Ravi Kumar, **J. Shanmukh Kumar**, D.Ramachandran, Int. J. Pharm. Sci. Rev. Res., 18(1), Jan – Feb 2013; n° 04, 18-20.
20. Spectroscopic Method for Determination of Butylated Hydroxyanisole (BHA) S.Vijaya Saradhi, Md Jumaddin Hawari, M.V.V.K. Srinivas Prasad, and **J.V. Shanmukha Kumar**, J. Pharm. Sci. & Res. Vol.5(2), 2013, 35 – 37
21. Development and validation of liquid chromatographic method for the Simultaneous estimation of ciprofloxacin and tinidazole in combined Dosage form, Ravi Varma.A, **Dr.J.V Shanmukha Kumar**, Dr.S.Mutth Reddy, Int. Res J Pharm. App Sci., 2013; 3(5):161-167.
22. Induced smectic-B and smectic-G phases in hydrogenbonded complexes (nOBA:PFOA): thermal and phase behaviour studies, M. Rambabu a , V.G.K.M. Pisipati b , **J.V. Shanmukha Kumar** a & K.R.S. Prasad b, Liquid Crystals Today, 2013
<http://dx.doi.org/10.1080/1358314X.2013.815384>

Conference Presentations

1. National seminar on recent trends in Analytical techniques in monitoring the environment- Oct 2005; Sponsored by UGC, Dept Of Chemistry, DAR College, Nuzvid- 521201.
2. National Conference on Luminescence and it's applications. NCLA- Feb 2009, Organized by Luminescence society of India, CGCRI, Indian Association for Cultivation of Science, Kolkata.
3. International seminar on Science and Technology of Glass materials ISSTGM- March 2009. Sponsored by UGC, DAE-BRNS, DST, CSIR, APCOST; Organized by the Dept.Of Physics; Acharya Nagarjuna University, A.P, India.
4. National Seminar on Chemistry-Our Life, Our Future CLF-2011; Organized by Krishna University, A.P, India

Workshops Participated

1. English language workshop, Nov-Dec 2009; Organized by KLEF University.
2. Effective Teaching Course , Organized by Indo-US Engineering Faculty Leadership Institution -2010
3. All India seminar on Green Power Revolution; Organized by Energy Conservation Machine, The Institute of Engineers India, Hyderabad-2010

Awards

- Won the Best Teacher Award for last 5 years consecutively(2008-2012)
- Appreciated with the star Performer Award for the outstanding contribution to the Organization

University Contribution

Assistant Director-International Relations (2005-Till Date)

While Acting as SPOC, I have travelled to various countries like Nepal, Tanzania, Bhutan etc and worked on increasing the awareness of the university educational programs. There by, Stood as the most successful foreign students Coordinator. This has resulted in 410 Admissions from various countries to K L University.

In charge-Industrial Visit (2004-2011)

In the midst of fast paced time like this, it is a must to have the industrial and real world experience to the students. Understanding the same, I am involved in preparing the planning and the execution of the industrial Visits to various

industries to understand the industry best practices and application of the student's conceptual knowledge for under graduate engineering students.

Prof-in charge, Discipline (2006-Till Date)

As Vice-chairman, involved in designing and implementing various cultural, professional etiquettes to make sure the student is competitive enough to work in multi cultured, multi language teams across multiple regions.

Research Group Head (Present)

Understanding the importance of innovation and organized team work, we have developed a group of aspirant researchers which does the following

- Paper Publications with High Impact Factor
- Motivating to apply for funded projects

As part of the above assignment, I head Analytical Chemistry Department.

REFERENCES

Dr.K.RamaKrishna, Dean Academics, K,L. University, Greenfields, Vaddeswaram,Guntur dist, Andhra Pradesh, India. drkrk@kluniversity.in

Dr. S. Vijaya Saradhi, Department of BioTechnology, Greenfields, Vaddeswaram,Guntur dist, Andhra Pradesh, India. svs@kluniversity.in

Dr. K. R. S. Prasad, HoD, Department of Chemistry, Greenfields, Vaddeswaram,Guntur dist, Andhra Pradesh, India. krsprasad_fed@kluniversity.in

Dr.D. Ramachandran, Associate Professor, Department of Chemistry, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur(dist),A. P, India +91 9866965335

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