

CURRICULUM VITAE

Dr R.K. SANGEETHA

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Career Objective

To gain employment with an institution that offers me a consistently positive atmosphere to learn new technologies and implement them for the betterment of the society.

Personality Traits

- Leadership
- Team Work
- Extensive participation on committees and extra-curricular activities.
- Excellent knowledge of subject and also have great practical knowledge.
- Proficient in giving conceptual knowledge.

Educational Background

DEGREE	AREA OF SPECIALIZATION	UNIVERSITY/ INSTITUTION	YEAR OF PASSING	GRADE/ CLASS
Ph. D	Molecular Quantum physics	Anna University- Chennai	2022	Highly commended
M. Phil (PT)	Thin Films	PRIST University	2009	First
M.Sc	Physics	Bharathiar University	2008	First
B.Sc	Physics with Computer Application	Bharathiar University	2006	First with distinction (University Rank holder)

Career Summary

An innovative and knowledgeable professional having 12.5 years' experience in teaching.

Professional Experience

- Working as **Assistant Professor (Senior grade)** (Physics) at SRI ESHWAR COLLEGE OF ENGINEERING –COIMBATORE from 02.08.2010 to till date.
- Worked as **Lecturer** in Physics at JAYSRIRAM COLLEGE OF ENGINEERING CBE from 02.06.2009 to 13.07.2010
- Worked as Higher Secondary **Physics Teacher/ Hindi tutor** at SUBBIAH Mat.Hr. Secondary School from 01.05.2008 to 31.05.2009

Achievements

- University rank holder in undergraduate course
- Honored for consistently producing 100% results in university examinations.
- Best feedback appreciation
- Organized Swachh Bharat Club in the campus.
- Best faculty in preparing course plan.
- Best tutor award.
- Awarded for best hospitality team at college.
- Proficiency in Hindi in U.G.level
- Innovation Ambassador –IIC
- Evaluator – TOYCATHON 2021 (Govt of India)
- Mentor in Smart India Hackathon -2022

Publications

- Engineering Physics-I (Revised Edition-2017) affiliated to Anna University syllabus- Chennai
- Engineering Physics-II (Revised Edition-2018) affiliated to Anna University syllabus - Chennai
- Engineering Physics Laboratory Manual I&II (Revised Edition 2014-2018) affiliated to Anna University syllabus –Chennai

Responsibilities and in charge in the department currently taking care:

Class advisor / mentor

Innovation Head – S& H

Student Project coordinator / first year

Course Coordinator / Physics

Innovation Ambassador –IIC

IQAC coordinator / S&H

Governing Council department faculty in charge. Trimble goal setting faculty mentor / first year

NAAC department coordinator

Membership

- Life time Member in Indian Society for Technical Education-Delhi

Paper presented and Workshop attended

- One day workshop on “Solar energy and its utilization” at L.R.G College – Coimbatore.
- National Seminar on “ Agilent technologies Nano world” at P.S.G. college of Technology.
- National seminar on “recent trends in smart materials for advanced engineering” at P.A. College -Pollachi
- One week Hands on training “Computational Physics” at Government College of technology.
- Presented a paper on “ Renewable energy resource and uses” at Chikkana Govt ars college.
- Received BEST PRESENTATION AWARD – International Conference held at Govt Arts College – CBE
- Received Best POSTER PRESENTATION AWARD – Pachiyappa college Chennai
- Participated in TEQIP-II sponsored on “one day workshop on training and demonstration on surface area analyzer”, 21st January 2016, held at Government College of technology.
- Participated in FDP program on Energy storage devices held at GCT , CBE.
- Participated in two days CSIR sponsored national seminar on Energy storage device and biomedical applications held at P.A college of Technology.
- Participated in one day national level workshop on Crystal growth for optoelectronics and piezoelectric applications sponsored by CSIR at Kongunadu College ,Nammakkal.

Papers Published In International Journals

- “Theoretical investigation of Molecular structure, Homo-Lumo, hyperpolarizability, NBO analysis and Density of states calculation of butenafine” **R.K.SANGEETHA**^a, S. Ayyappan^{a*}, A.Gokila^a, R.Nithya^b, Department of Physics, Sri Eshwar College of Engineering, Coimbatore, India.^{a*,b}Department of Physics, Government College of Technology, Coimbatore, India.
- Molecular Structure, Nbo And Homo-Lumo Analysis Of Quercetin On Single Layer Graphene By Density Functional Theory
M. SARANYA^a, S. AYYAPPAN^{a*}, R. NITHYA^a, **R. K.SANGEETHA**^b, A.GOKILA^b
^aDepartment of Physics, Government college of Technology, Coimbatore, 641013, India.
^bDepartment of Physics, Sri Eshwar College of Engineering, Coimbatore, 608002, India.
- Complexion of antibacterial agent Trimethoprim with Cytochrome P450 enzymes: A combined docking and QTAIM approach
R.K.Sangeetha^a, S. Ayyappan^{b*},
^aDepartment of Physics, Sri Eshwar College of Engineering, Coimbatore, India.
^{b*}Department of Physics, Government College of Technology, Coimbatore, India.
- **Sangeetha. R.K** and Ayyappan. S, “Structural, Spectral, Thermodynamic and HOMO, LUMO Analysis of 2,6 Dithenobenzene-3-enyl 3,5 Dimethyl Piperdine-4-one: A Quantum Chemical Analysis “Orient J Chem 2021;37(6). doi : <http://dx.doi.org/10.13005/ojc/370618>
- **R.K.SANGEETHA**, Solar Cells , “ Novel Materials for Emerging Applications” a book chapter, 2021 pp (339-349) SHANLAX PUBLICATIONS
- Maheshna, N., Roopa, D., Karthick, R., Anandaram, H., Antony, J. P., **Sangeetha, R. K.**, & Anusuya, M. (2022). Green synthesis of titanium dioxide nanoparticles and their multifaceted applications. *International Journal of Health Sciences*, 6(S3), 5665–5680. <https://doi.org/10.53730/ijhs.v6nS3.7210>

Patent publications

- **Title:** SEM,AFM,&Optical absorbance and transmittance analysis of PbPc thin films on glass and KCl substrate.
- **Title:** Advances in gene transfer with the association of nanoparticles for therapeutic treatment.

Personal Details

Date of Birth : 25.02.1985

Religion : Hindu (Nair)

Marital Status : Married

Languages Known : , English, Malayalam, Hindi, Tamil

Referencess

- Dr S.Ayyappan -Professor – Government College of Technology-CBE
- Prof R. Suresh -HOD / Science & Humanities - Sri Eshwar College Of Engineering –CBE

Declaration

I hereby declare that the above statements furnished by me are true and correct to the best of my knowledge and belief.

Yours sincerely

R.K.SANGEETHA