

# JASMIN BANU A



## PROFESSIONAL SUMMARY

Extremely motivated to constantly develop my skills and grow professionally. Steadily Progressing Assistant Professor with 10 years of experience in teaching undergraduate and postgraduate courses in Physics. I am a passionate learner and conscientious in imparting the knowledge to the students with diverse backgrounds. Strongly believes in teaching and shaping the students with positive education.

## CORE STRENGTHS

- ◆ Goal oriented and maintains high performance standards
- ◆ Possesses the ability to grace under pressure
- ◆ Adheres to the lesson plan and application oriented teaching
- ◆ Explains complex concepts in simple ways using analogies or real time examples
- ◆ Keep students engaged with positive attitude
- ◆ Shows concern on the individual (student) performance and overall well-being
- ◆ Maintains a good rapport with colleagues and appreciates their positive progress

## PROFESSIONAL EXPERIENCE

### Assistant Professor

16<sup>th</sup> June 2014 - till date

Holy Cross College (Autonomous), Trichy

### Assistant Professor

9<sup>th</sup> Nov. 2011 – 14<sup>th</sup> June 2014

Trichy Engineering College, Konalai, Trichy

### Physics Faculty (Part-Time)

10<sup>th</sup> Oct. 2010 – 30<sup>th</sup> May 2013

T.I.M.E., Trichy

## PROFESSIONAL QUALIFICATION

**Qualified SET 2018**

**2<sup>nd</sup> July 2018**

(State Eligibility Test for Assistant Professor)

## EDUCATIONAL QUALIFICATION

**M. Phil. Physics**

St. Joseph's College (Autonomous), Trichy

**M. Sc. Physics**

Cauvery College for Women, Affiliated to Bharathidasan University, Trichy

**B. Sc. Physics**

Cauvery College for Women, Affiliated to Bharathidasan University, Trichy

**CATe [Certified Automation Test Engineer]**

STC Technologies, Trichy

\*Pursuing a part-time Ph. D. (Physics) at Bishop Heber College (Autonomous), Trichy - 620 017

## PROJECT PROFILE

**M. Phil. Physics**

“Recrystallization behaviour of phosphorus added 15Cr-15Ni-0.25Ti (wt. %) austenitic stainless steel”, Physical Metallurgy Group, **Indira Gandhi Centre for Atomic Research (IGCAR)**, Kalpakkam

**M. Sc. Physics**

“Embedded system using Microcontroller”, ATMELL, Research & Development, Trichy

## TECHNICAL COGNIZANCE

- ◆ Adept in MS office tools
  - ◆ Knowledge of 'C' Programming and automated test tools like Win Runner, Rational Robot & QTP
  - ◆ Efficient in using the following teaching aids, assessment tools and platforms for online teaching: Google Classroom, Google Slides, Whiteboard, Jamboard, Google Forms, Mentimeter, Socrative, Kahoot, Slido, Google Meet, Zoom, Canvas and Loom
  - ◆ Has also prepared E-Content videos
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## NOTABLE AWARDS

- ◆ Young Achiever award, Lions Club International, Thiruvaroor, 2006
  - ◆ Best Outgoing Student, Department of Physics, Cauvery College for Women, Trichy, 2006
  - ◆ Best Outgoing Student, Department of Physics, Cauvery College for Women, Trichy, 2008
  - ◆ Best Student Award, Cauvery College for Women, Trichy, 2008
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## ACHIEVEMENTS

- ◆ Served as a student Vice-President and Treasurer in college
  - ◆ Has been as a student coordinator for the college cultural theatre team
  - ◆ Actively participated in many Inter-collegiate, Inter-University & National level competitions and have won many Championships & Prizes
  - ◆ Extended mentoring support to the Potential Student Innovators/Entrepreneurs of IIC- Institutes who have participated in the IIC Innovation Contest 2020 of IIC-MHRD's Innovation Cell, AICTE and as well as for the IIC students of Holy Cross College (Autonomous), Trichy
  - ◆ **INITIATED** the Physics departmental yearly magazine entitled '**MAGPHY**' during my tenure as the Physics Association President for the academic year 2020 – 2021
  - ◆ Organized many activities related to Institution's Innovation Council at the Physics department level from the year 2018 – 2023
  - ◆ Bagged **TOPPER** in the NPTEL-AICTE Swayam Online Course cum Faculty Development Programme on Solar Photovoltaics Fundamentals, Technology and Applications conducted by Indian Institute of
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Technology (IIT), Roorkee, funded by the MoE, Govt. of India

- ◆ Received **COPYRIGHT** for **SENSEIoT** (Sensors and IoT based data analysis of behavioural changes due to digital addiction) on 12<sup>th</sup> July 2023 from Intellectual Property India, Government of India
  - ◆ Awarded “**BEST INNOVATION AMBASSADOR**” of HCIICT during the year 2023 – 2024 by Holy Cross College (Autonomous), Trichy
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## RESOURCE PERSON

- ◆ Delivered a lecture on Entrepreneurship Development for the Institution’s Innovation Council students within the college on 29<sup>th</sup> June 2020 and for the students from other colleges on 30<sup>th</sup> July 2020
  - ◆ Served as a Judge for the Innovation Idea Submission Contest held at Holy Cross College (Autonomous), Trichy, on 5<sup>th</sup> March 2020
  - ◆ Delivered a lecture on Prototype Development at the boot camp for the Faculty of HCC at Holy Cross College (Autonomous), Trichy, on 1<sup>st</sup> September 2021
  - ◆ Delivered a lecture on “Empathy Mapping in Design Thinking” in the webinar organized by Holy Cross Innovation and Incubation Council and UGC STRIDE Component 1, Transdisciplinary Research & Startup Initiatives, Holy Cross College (Autonomous), Trichy, on 8<sup>th</sup> January 2022
  - ◆ Delivered a lecture on “The Innovation Imperative” in the Webinar at Holy Cross College (Autonomous), Trichy, on 26<sup>th</sup> February 2022
  - ◆ Resource person for the workshop on “Entrepreneurship and Innovation” as Career Opportunity at Holy Cross College (Autonomous), Trichy, on 28<sup>th</sup> October 2022
  - ◆ Resource person for the workshop on “Problem Solving and Ideation” organized by PG and Research Department of Physics and HCIICT on 30<sup>th</sup> November 2022
  - ◆ Served as a Judge for the ADZAP Intercollegiate Competition on the theme “Empowerment of YOUTH on INNOVATIVE Renewable Energy Sources” at Holy Cross College (Autonomous), Trichy, on 11<sup>th</sup> January 2023
  - ◆ Been as a Guest of Honour at the workshop on “Design Thinking” organized by Watson and Crick Club of PG and Research Department of Biotechnology and Bioinformatics in collaboration with Holy Cross Innovation and Incubation Council, Trichy, on 10<sup>th</sup> February 2023
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- ◆ Resource person for the Intra-Departmental Competition on “Innovative Science Experiments” conducted in commemoration of National Science Day organized by PG Department of Biochemistry and Holy Cross Innovation and Incubation Council, Trichy, on 9<sup>th</sup> March 2023
  - ◆ Delivered a lecture on “Ignite the Entrepreneur in you” on 8<sup>th</sup> August 2023 organized by PG and Research Department of Physics and Holy Cross Innovation & Incubation Council (HCIIC), Trichy
  - ◆ Served as a judge for the “Intra-Institutional Business Plan” competition organized by Holy Cross Innovation and Incubation Council (HCIIC), Trichy, on 9<sup>th</sup> August 2023
  - ◆ Delivered a lecture on “Startup to Proficorn” organized by the Department of Psychology and HCIICT on 11<sup>th</sup> August 2023
  - ◆ Been as a Judge for the Intra-Departmental competition on “Innovative Ideas for Go Green City” organized by PG & Research Department of Physics and HCIICT on 14<sup>th</sup> August 2023
  - ◆ Served as a judge for the speech competition on the topic “Current Technological Advancements: Advantages and Disadvantages,” organized by the PG and Research Department of Physics, Chemistry, and Mathematics and HCIICT to commemorate National Technology Day, held on 14<sup>th</sup> August 2023
  - ◆ Resource person for the workshop on “Innovative Entrepreneurship” organized by the Department of Computer Science and HCIICT on 22<sup>nd</sup> September 2023
  - ◆ Gave an Awareness programme on “Innovation and its Importance” to the school students of Government Higher Secondary School, Thiruvallar Solai, organized by Rural Enrichment through Students Community Action and Participation for Environmental Sustainability (RESCAPES) and HCIICT on 14<sup>th</sup> November 2023
  - ◆ Handled Internship cum Workshop 30 hours sessions on “Sensor Technology” from 5<sup>th</sup> February 2024 to 14<sup>th</sup> February 2024 at Holy Cross Innovation & Incubation Council (HCIIC), Trichy
  - ◆ Mentored the students and faculty of Dhanalakshmi Srinivasan College of Arts & Science for Women (Autonomous), Perambalur on “Early Stage Entrepreneurs” at the Mentor Mentee event organized by Holy Cross Innovation & Incubation Council, Trichy on 5<sup>th</sup> July 2024
  - ◆ Delivered a lecture on “How to plan for startup and legal and ethical steps” organized by PG Department of Library and Information Science and HCIICT on 15<sup>th</sup> July 2024
  - ◆ Delivered a talk on “Entrepreneurship” organized by Holy Cross Innovation & Incubation Council, Trichy, on 18<sup>th</sup> July 2024
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- ◆ Handled Internship cum Workshop 30 hours sessions on “Sensor Technology” from 10<sup>th</sup> July 2024 to 30<sup>th</sup> July 2024 at Holy Cross Innovation & Incubation Council (HCIIC), Trichy
- ◆ Delivered a lecture on “A guide to becoming an Innovativepreneur (Innovative Entrepreneur)” organized by School of Physical Sciences, PG & Research Department of Chemistry and HCIICT on 30<sup>th</sup> July 2024
- ◆ Delivered a talk on “Entrepreneurial Journey: Stories of Perseverance and Triumph” organized by School of Mathematical Computation Sciences, PG Department of Data Science and HCIICT on 30<sup>th</sup> August 2024
- ◆ Served as a judge for “Pitch Spark” idea competition organized by School of Mathematical Computation Sciences, Department of B. Voc. Software Development and HCIICT on 13<sup>th</sup> September 2024
- ◆ Handled Internship cum Workshop 30 hours sessions on “Sensor Technology” from 23<sup>rd</sup> September 2024 to 5<sup>th</sup> October 2024 at Holy Cross Innovation & Incubation Council (HCIIC), Trichy
- ◆ Delivered a lecture on “Startup: Idea to Business” organized by PG and Research Department of Physics and HCIICT on 17<sup>th</sup> October 2024

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## **CONFERENCE / SEMINAR / WEBINAR / WORKSHOP / FACULTY DEVELOPMENT / TRAINING PROGRAMMES ATTENDED**

- ◆ INDO-US Workshop on Nanosonics & Ultrasonics (IUWONU – 2011) & International Conference on Nanotechnology & Ultrasound (ICNU – 2011) at St. Joseph’s College (Autonomous), Trichy, from 12<sup>th</sup> to 14<sup>th</sup>, January 2011
  - ◆ National Seminar on “Current Trends in Material Science & Nanostructured Materials” at Cauvery College for Women, Trichy on 23<sup>rd</sup> & 24<sup>th</sup> January 2013
  - ◆ Faculty Development Program on “Physics for Emerging Technologies” at National Institute of Technology, Trichy, from 15<sup>th</sup> to 19<sup>th</sup>, July 2013
  - ◆ NPTEL Workshop on “Special/select topics in classical mechanics, atomic physics & theory of atomic collisions & spectroscopy” at Indian Institute of Technology, Madras, on 27<sup>th</sup> April 2015
  - ◆ One-week short term course on “Advanced Materials and Characterization” at National Institute of Technology, Kurukshetra, Haryana, from 8<sup>th</sup> to 12<sup>th</sup>, June 2015
  - ◆ Workshop on “National Robotics Championship” at Department of Physics, Holy Cross College (Autonomous), Trichy, on 25<sup>th</sup> & 26<sup>th</sup> November 2015
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- ◆ Workshop on “Advanced Physics Experiments for College Teachers” at St. Joseph’s College (Autonomous), Trichy, on 18<sup>th</sup> & 19<sup>th</sup> December 2015
  - ◆ National Conference on “Advanced Functional Materials” at SSN College of Engineering, Chennai, on 28<sup>th</sup> & 29<sup>th</sup> December 2015
  - ◆ Workshop on “Computer based Science Experiments” organized by IUAC, New Delhi & TNSCST at National College (Autonomous), Trichy, on 30<sup>th</sup> June 2018
  - ◆ Hands on training in “Advanced Research Instrumentation” at Bishop Heber College, Trichy, on 31<sup>st</sup> August 2018 and 1<sup>st</sup> September 2018
  - ◆ Workshop on “Research Methodology, Scientific Writing and Statistical Data Analysis” at A.V.V.M. Sri Pushpam College (Autonomous), Poondi, Thanjavur on 5<sup>th</sup> and 6<sup>th</sup> October, 2018
  - ◆ INDIA-UK Joint Second International Conference on “Advanced Nanomaterials for Energy, Environment and Healthcare Applications” (ANEH-2019) at Bishop Heber College, Trichy, on 4<sup>th</sup> & 6<sup>th</sup> February 2019
  - ◆ Hands on training in “Advanced Research Instrumentation” at Bishop Heber College, Trichy, on 11<sup>th</sup> September 2019
  - ◆ IIC Innovation Ambassador Training on “Entrepreneurship Development” organized by IIC - MHRD’s Innovation Cell hosted by R.M.K. Engineering College, Tiruvallur, on 8<sup>th</sup> & 9<sup>th</sup> January 2020
  - ◆ “National Conference on Advanced Functional Materials 2020” (NCAFM-2020) at National College (Autonomous), Trichy, on 13<sup>th</sup> February 2020
  - ◆ Online Sessions on Innovation, IPR, Entrepreneurship, and Start-ups conducted by IIC-MIC, MHRD’s Innovation Cell, New Delhi, from 28<sup>th</sup> April 2020 to 22<sup>nd</sup> May 2020
  - ◆ Webinar on “Everything Started with Nothing – Make a Start” organized by Crescent Innovation & Incubation Council (CIIC), Chennai, on 13<sup>th</sup> May 2020
  - ◆ Webinar on “Reimaging Research in the Era of Disruptions and Uncertainties” organized by Holy Cross College (Autonomous), Trichy, on 21<sup>st</sup> May 2020
  - ◆ Webinar on “Art of writing Scientific Articles and Project Proposals” organized by PG and Research Department of Physics, Holy Cross College (Autonomous), Trichy, on 22<sup>nd</sup> May 2020
  - ◆ Faculty Development Webinar series on “Remote Classrooms-Digital Technology in Teaching Learning” organized by Holy Cross College (Autonomous), Trichy on 30<sup>th</sup> May 2020
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- ◆ Webinar on “Design and fabrication of Supercapacitor as the next generation energy storage device for electric vehicles” organized by SRM Institute of Science and Technology, Chennai, on 1<sup>st</sup> June 2020
  - ◆ Two days Faculty Development Program on “Online Teaching and E-Content” organized by Indian Institute of Digital Education (IIDE), Mumbai, Maharashtra, on 3<sup>rd</sup> & 4<sup>th</sup> June 2020
  - ◆ Three days National level E-Workshop on “Physics Experiments through Virtual Lab” organized by Department of Physics, Dr. M.G.R. Educational & Research Institute, Chennai from 08<sup>th</sup> to 10<sup>th</sup> June 2020
  - ◆ Webinar on "Terahertz spectroscopy: Forbidden gap transforming into an Advanced application" organized by PG & Research Department of Physics, Holy Cross College (Autonomous), Trichy, on 9<sup>th</sup> June 2020
  - ◆ Webinar on “Local probe techniques: A microscopic look at physical properties in matter” organized by PG & Research Department of Physics, National College (Autonomous), Trichy, on 10<sup>th</sup> June 2020
  - ◆ Faculty Development Program on “Active Learning & Advanced Scientific Computing Methods” organized online by the Department of Physics, Loyola College (Autonomous), Chennai, from 15<sup>th</sup> to 19<sup>th</sup> June, 2020
  - ◆ Three days Faculty Development Program-Online workshop on “Virtual Teaching- A Paradigm Shift from Offline to Online Teaching” from 15<sup>th</sup>, 17<sup>th</sup> and 19<sup>th</sup> June 2020 organized by Department of Biotechnology & Bioinformatics, Holy Cross College (Autonomous), Trichy
  - ◆ One week online International Faculty Development Program (FDP) on “Artificial Intelligence and IoT- Heuristic Transdisciplinary perspectives” organized by CICRSD, Holy Cross College (Autonomous) held during 4<sup>th</sup> to 10<sup>th</sup> July 2020
  - ◆ International Virtual Conference on “Advances in Nanomaterials and Its Recent Applications (ANMRA – 2020)”, organized by Department of Science and Humanities – Physics at Dr. N.G. P. Institute of Technology, Coimbatore, India from 15<sup>th</sup> to 17<sup>th</sup> July, 2020
  - ◆ International webinar on “Multifunctional Nanostructured Materials” organized by Post Graduate Department of Physics, M.V. Muthiah Govt. Arts College for Women, Dindigul, on 22<sup>nd</sup> July 2020
  - ◆ Online International Webinar on “Nanotech Applications” organized by St. Joseph’s College of Engineering on 24<sup>th</sup> & 25<sup>th</sup> July, 2020
  - ◆ Webinar on “Preparation Methods and Deposition Techniques of Nanostructures” organized by PG & Research Department of Physics on 25<sup>th</sup> July 2020
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- ◆ Webinar on “The Implications of the NEP 2020 for Higher Education and Role of Teachers” organized by IQAC, Holy Cross College (Autonomous), Trichy, on 25<sup>th</sup> August 2020
- ◆ “International Webinar on Advanced Functional Materials (IWAFM) 2021” organized by PG & Research Department of Physics, Holy Cross College (Autonomous), Trichy, on 15<sup>th</sup> February 2021
- ◆ NPTEL-AICTE Online Faculty Development Programme on “Solar Photovoltaic Fundamentals, Technology and Applications” organized by IIT, Roorkee, from July to September 2022 (8 Weeks)
- ◆ Online One Week Faculty Development Programme on “Open Source Tools for Teaching and Research” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, from 22<sup>nd</sup> May to 28<sup>th</sup> May, 2023
- ◆ 10 days online workshop cum certificate course on “Open Source and AI-Based Tools for Research” organized by Sanatan Dharma College, Ambala Cantt, Haryana from 11<sup>th</sup> to 20<sup>th</sup> July 2023
- ◆ Short Term Certificate Course Cum Hands on Training on Cyclic Voltametry, Spin Coating and Dip Coating organized by Entrepreneurship Development Cell & Institution Innovation Council, Cauvery College For Women (Autonomous), Tiruchirappalli, from 24<sup>th</sup> to 28<sup>th</sup> July 2023
- ◆ Online Two-Weeks Interdisciplinary Refresher Course in Advanced Research Methodology 2023 organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Government of India from 22<sup>nd</sup> August to 5<sup>th</sup> September 2023
- ◆ Online One-Week Faculty Development Programme on Academic Research Writing organized by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Government of India from 16<sup>th</sup> to 22<sup>nd</sup> November 2023
- ◆ International Conference on Recent Advances in Physical Sciences (ICRAPS 2024) organized by School of Physical Sciences in collaboration with Mullai Academia International Pvt. Ltd., at Holy Cross College (Autonomous), Tiruchirappalli, held on 19<sup>th</sup> & 20<sup>th</sup> January 2024
- ◆ Online One Month Internship in Research Training from 13<sup>th</sup> May to 13<sup>th</sup> June, 2024 organized by MSME-Technology Development Centre (PPDC), Government of India Society, Agra.

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## DECLARATION

I hereby declare that the particulars furnished above are true to the best of my knowledge.

Yours truly,



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