

NAMRATA ABHISHEK SINGH



PROFESSIONAL SUMMARY

Driven PhD holder with 10 years of teaching expertise in undergraduate Physics Programs. Proven ability to develop and deliver engaging lectures, design experiments and mentor students. Skilled in creative interactive learning environments that foster critical thinking, problem solving and a deep understanding of complex physics concepts.

WORK HISTORY

SP DNYANASADHANA COLLEGE- ASSISTANT PROFESSOR

Thane, Mumbai

Jan 2016- Jul 2021

- Educated B.Sc. Physics students at the undergraduate level
- Worked as Laboratory expert for T.Y.BSc. Sem V & Sem VI University Major Practical examination.
- Worked as Laboratory expert for T.Y.BSc. Sem V & Sem VI University Electronic Instrumentation Practical examination.
- Worked as a member of organizing committee for district level round of Avishkar Research Convention 2016-17 held on 14th December 2016 at Satish Pradhan Dnyanasadhana College, Thane.
- Participated in organizing committee for cultural program Utopia.
- Participated in professional development workshops, continuously improving teaching skills.

ISMAIL YUSUF COLLEGE- LECTURER

Jogeshwari ,Mumbai

Sep 2015- Feb 2016

- Educated B.Sc. Physics students at the undergraduate level
- Worked as Laboratory expert for T.Y.BSc. Sem VI University Electronic Instrumentation Practical examination.

N.E.S RATNAM COLLEGE- LECTURER

Bhandup, Mumbai

Sep 2011- Apr 2015

- Facilitated Practical Sessions and provided guidance to postgraduate students for project work.
- Educated B.Sc. Physics students at the undergraduate level
- Worked as Laboratory expert for T.Y.BSc. Sem V & Sem VI University Major Practical examination.

CONTACT

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EDUCATION

Doctor of Philosophy
(Ph.D.) : Physics
Shri JTT University,
Rajasthan,
Oct 2022

Master of Science
(M.Sc.) : Physics
NES Ratnam College
of Arts, Science
and Commerce, Mumbai
Aug 2011

Bachelor of Science
(B.Sc.) : Physics
NES Ratnam College
of Arts, Science
and Commerce, Mumbai
June 2009

- Worked as a Second Examiner in the subject of Physics for assessing answer books of T.Y.B.Sc Paper V (Electronic.Instrumentation), Sem V on 29th October 2013 at KJ Somaiya College of Science and Commerce, Vidyavihar.
- Worked as an External Examiner for the dual checking of Theory paper in the subject of Physics III (Sem IV) on 7th April 2014 at KJ Somaiya College of Science and Commerce, Vidyavihar.

COMPUTER PROFICIENCY

- Programming languages :
Microprocessor
C++
Microcontroller
Python
PC interfacing
- Microsoft Office

PRESENTATIONS AND CONFERENCES:

- Presented a paper titled “**Structural and Morphological Study of Polyaniline Thin Films**” in the International Conference on “ Languages, Innovation, Culture and Education held on October 23rd & 24th 2021 organized by Institute of Languages, Shri JTT University, Rajasthan.
- 'Recent Trends in Mathematical Sciences during October 29-30,2021 , Phulsing Naik Mahavidyalaya and S.P.M Science and Gilani Arts Commerce College , Dist.Yavatmal (M.S.)
- Futuristic Directions in Applied Sciences, Education and Research held on July 31, 2021, Institute of Science and Shri JTT University, Rajasthan.
- “Digital Transformation during Pandemic“ held on 30th December,2020 , Western India Regional Council of the institute of Chartered Accountants of India , Mumbai
- “Opportunities and challenges of the exciting trends of virtual education “ held during November 27-29, 2020, Shri JTT University, Rajasthan.
- “Ethical and Methodological issues in Research” on 10th October, 2020 , Shri JTT University, Rajasthan.
- “Proficiency improvement on polymer processing and advanced characterization techniques” ,centre of excellence in polymer science and engineering, PCE in association units polymer processing academy (PPA) held during 1st to 3rd July , 2020 ,Mahatma education society Panvel College Mumbai.

LANGUAGES

English
Hindi
Marathi

CERTIFICATIONS

- Real life applications of Neural network: 3D Audio, R.D. & S.H. National college, 7/6/2020 (80%)
- Research Methodology , Shri Chhatrapati Shivaji Raje college, Pune, 20/5/2020 to 25/5/2020 (94%)
- Library and information science Quiz crack it, L.D. Sonawane college, May 2020 (85%)
- Awareness program on intellectual property rights, 18/5/2020 (75%)

WORKSHOP/TRAINING

- Avishkar Research Convention: 2020-21, Department of Students Development, University of Mumbai, 24/03/2021.
- “Computational Physics”, Karmaveer Bhaurao Patil College, February 5-6, 2021.
- " Multifunctional Nanostructured Materials", M.V. Muthiah Government Arts college for women, Tamil Nadu, 22nd July, 2020.
- " Measurements and Errors in Physics Experiments " , 16th June 2020 , MES college of Arts, Commerce and Science.
- " The Universe: Big and small" ,9th June 2020, SMT. Chandibai Himathmal Mansukhai College, Ulhasnagar, Maharashtra.
- “Nanomaterials for smart and sustainable energy solutions”, Rayat Shikshsan Sanstha's Mahatma Phule Arts, Science and commerce college, Panvel, June 8, 2020.
- “Guidance for Entrance Exams after B.Sc. Physics", R.K. Talreja college of Arts, Science and commerce, Ulhasnagar, Mumbai, 4/06/2020.

- Functional Nanomaterials, concepts, structure- property relationships, knowledge based design, translational materials Research B.K Birla College, Kalyan, 27th May 2020.
- Ultimate 2020 Tax planning guide, Saket College of Art, Science and Commerce, Kalyan, 25th May 2020.
- " Atmanirbhar Shikshsan Pranali", smt .Mithibai Motiram Kundnani College of Commerce and Economics, 22nd May,2020
- “Research Writing and Enhancing Visibility “21st May,2020, Ramnarain Ruia Autonomous College , Mumbai
- “Supercapacitors,Solar Cell Devices and Solar Thermal Technology” Solar Energy Research Center (SERC), RCOEM, Nagpur, May 11-14, 2020.
- Digital Teaching and Learning Environment” 11 May, 2020 -13 May, 2020. Mahatma education society Panvel College Mumbai
- 8051 Microcontroller Programming and Interfacing and Introduction to Python,17th and 18th February, 2020, Karmaveer Bhaurao Patil College , Vashi , Navi Mumbai
- “Shaping The Future with Nanoscience And Technology January 8, 2020, Karmaveer Bhaurao Patil College , Vashi, Navi Mumbai.
- Research Methodology, 8th September,2018, Shrinivas Bagarka College , Andheri (E), Mumbai.
- Photovoltaics, IIT Bombay, May 25, 2018.
- Nanofabrication Technologies, IIT Bombay, May 23 - 25, 2018.
- Geo-physics”, 21st February 2018, G.N. Khalsa College, Mumbai.
- Nonlinear Dynamics-Chaos, 9th February 2018, Ramniranjan Jhunjhunwala College, Ghatkopar (W), Mumbai.
- Revised syllabus of Physics for S.Y.BSc. 10th October 2017, Guru Nanak College, G.T.B Nagar, Mumbai.
- “Bio-physics” 22nd September 2017, D.G. Ruparel College, Mumbai.
- Revised S.Y.BSc. Syllabus in the subject of Physics paper III (Elective) , (SemIII) 7th July 2017, JAI HIND college, Churchgate.
- Revised Syllabus of S.Y.BSc. in the subject of Physics 21st June 2017, S.I.W.S. college, Wadala (W), Mumbai.
- Revised Syllabus of F.Y.B.Sc. (I.T.), Semester –I , “ Digital Electronics” , 26th August, 2016, Usha pravin Gandhi college, Mumbai.
- “ARM7 – 32 bit Processor”,6th and 7th September 2013, Guru Nanak Khalsa college, Mumbai.

- Research Competency Test ,16/5/2020
- International faculty develop programme on Digital teaching and learning environment , 11/5/2020 to 13/5/2020.

