

Dr. S Chand Rakesh Roshan

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[in LinkedIn-profile](#) | [ORCID](#) | [Official webpage](#) | [Google Scholar](#)

Basar, Telangana - India

EXPERIENCE

- **Rajiv Gandhi University of Knowledge Technologies, Basar**  Oct 2010 - Till date
Assistant Professor in Physics Basar, India

EDUCATION

- **National Institute of Technology Warangal** Feb 2024
Ph.D. Warangal, India
 - GPA: -
- **University of Hyderabad** Aug 2010
M.Tech in Computational Techniques Hyderabad, India
 - GPA: 8.88/10.0
- **Sri Satya Sai Institute of Higher Learning** July 2008
M.Sc Physics Prasanthi Nilayam, India
 - GPA: 4.80/5.0
- **Sri Satya Sai Institute of Higher Learning** July 2006
B.Sc (Hons.) Physics Prasanthi Nilayam, India
 - GPA: 4.57/5.0
- **GATE - AIR 244 :: JEST 97.7 Percentile :: CSIR - NET for LS**

PROFESSIONAL ROLES

- **SWAYAM - NPTEL Coordinator** July 2017 - Till date
Coordinated the SWAYAM NPTEL activities at the university end including credit transfer and certifications
- **NITTTR Remote Centre Coordinator** July 2022 - Till date
Initiated and coordinated 05 AICTE STTP's and 1 Refresher Program at RGUKT Basar with NITTTR Chandigarh
- **HEAD, Department of Physics** Dec 2011 - July 2022
Headed the department of Physics
- **HEAD, University Training and Placements** July 2017 - July 2022
Led the entire gamut of Placement activities including skill enhancement program linkages
- **Program Advisor, MSLE** 2022 - 2023
Through this collaboration, RGUKT Basar students earned Microsoft certifications free of cost (100's of dollars elsewhere)
- **Convenor, Guest faculty Recruitment, Physics** Feb 2022
Convened the Guest faculty interviews for Physics dept.
- **Convenor, University committee** 2018 - 2019
Convenor, University committee to prepare guidelines, duties and tenure to Administrative posts and HoD's at RGUKT Basar
- **Convenor, Training and Placements Core Committee** July 2017 - July 2022
Training and Placements Core Committee, RGUKT Basar
- **Convenor, Recruitment Board Panels (multiple)** 2018
Convenor for Recruitment of Guest Faculty in the Dept. of Chemistry, Maths, Telugu, Physics and English, RGUKT Basar
- **Co-Convenor, Board of Studies** 2018
Co-Convened the Board of Studies (BoS) for Physics dept.
- **Coordinator, 1st AICTE Induction Program** 2018
Coordinator and overall execution, First (1st) AICTE Induction Program for E1 students at RGUKT Basar
- **Incharge, Associate Dean, Academics** July 2018
Acted as incharge associate dean, academics at RGUKT Basar

PROFESSIONAL ROLES

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|---|------------------|
| • SPOC and Initiator | 2019 - 2022 |
| <i>SPOC and Initiator from scratch - TCS TAAP and YEP Training Programs under CSR of TCS, RGUKT Basar</i> | |
| • SPOC and Initiator | 2020 - 2022 |
| <i>SPOC and Initiator from scratch - Life Skills Training Program by Rubicon under CSR of BARCLAYS</i> | |
| • SPOC and Initiator | 2021 - 2022 |
| <i>SPOC and Initiator from scratch - NASSCOM-DXC Training Program (6 months) RGUKT Basar</i> | |
| • SPOC | 2021 |
| <i>SPOC - Online Program Local Chapter (OPLC) , IIT Madras - RGUKT Basar</i> | |
| • Research Lab Incharge | 2018 - Till date |
| <i>Established Computational Physics Research Lab, Department of Physics at RGUKT Basar</i> | |
| • Board of Studies member | 2015 - 2016 |
| <i>Board of Studies Member, Department of Physics, RGUKT Basar</i> | |
| • Rector Nominee | 2013 - 2014 |
| <i>Rector Nominee for the University Sports and games, RGUKT Basar</i> | |
| • Associate Editor | 2013 |
| <i>Associate Editor for University Newsletter (all 3 campuses) VIVEKAM, RGUKT</i> | |
| • Coordinator | 2013 |
| <i>Subject coordinator for the Soft Skills Program offered in Sum-3</i> | |

JOURNAL PUBLICATIONS

- * Rakesh Roshan, S. C., Yedukondalu, N., Rajaboina, R. K., Huang, H.-T., Ehm, L., Parise, J. B. (2024). **Highly Anisotropic to Isotropic Nature and Ultralow Out-of-Plane Lattice Thermal Conductivity of Layered PbClF-Type Materials.** *Inorganic Chemistry*, 63(8), 3781–3794. <https://doi.org/10.1021/acs.inorgchem.3c03951>
- * Rakesh Roshan, S. C., Yedukondalu, N., Pandey, T., Kunduru, L., Muthaiah, R., Rajaboina, R. K., Ehm, L., Parise, J. B. (2023). **Effect of Atomic Mass Contrast on Lattice Thermal Conductivity: A Case Study for Alkali Halides and Alkaline-Earth Chalcogenides.** *ACS Applied Electronic Materials*, 5(11), 5852–5863. <https://doi.org/10.1021/acsaem.3c00759>
- * Yedukondalu, N., Pandey, T., Rakesh Roshan, S. C. (2023). **Effect of Hydrostatic Pressure on Lone Pair Activity and Phonon Transport in Bi2O2S.** *ACS Applied Energy Materials*, 6(4), 2401–2411. <https://doi.org/10.1021/acsaem.2c03725>
- * Kunduru, L., Sripada, S., Sainath, M., Yedukondalu, N., Rakesh Roshan, S. C. (2023). **Pressure induced structural phase transitions in calcium halofluorides.** *Materials Today: Proceedings*. <https://doi.org/10.1016/j.matpr.2023.06.378>
- * Yedukondalu, N., Shafique, A., Rakesh Roshan, S. C., Barhoumi, M., Muthaiah, R., Ehm, L., Parise, J. B., Schwingenschlög, U. (2022). **Lattice Instability and Ultralow Lattice Thermal Conductivity of Layered PbIF.** *ACS Applied Materials and Interfaces*, 14(36), 40738–40748. <https://doi.org/10.1021/acsaem.2c01135>
- * Lavanya, K., Yedukondalu, N., Rakesh Roshan, S. C., Dabhi, S. D., Sripada, S., Sainath, M., Ehm, L., Parise, J. B. (2022). **Lattice instability, anharmonicity and Raman spectra of BaO under high pressure: A first principles study.** *Journal of Physics and Chemistry of Solids*, 170, 110967. <https://doi.org/10.1016/j.jpcs.2022.110967>
- * Kunduru, L., Yedukondalu, N., Rakesh Roshan, S. C., Sripada, S., Sainath, M. (2022). **Structural phase transition and electronic structure of binary CaO and SrO under high pressure.** *Materials Today: Proceedings*, 62, 2744–2747. <https://doi.org/10.1016/j.matpr.2021.12.237>
- * Rakesh Roshan, S. C., Yedukondalu, N., Muthaiah, R., Lavanya, K., Anees, P., Kumar, R. R., Rao, T. V., Ehm, L., Parise, J. B. (2021). **Anomalous Lattice Thermal Conductivity in Rocksalt IIA–VIA Compounds.** *ACS Applied Energy Materials*, 5(1), 882–896. <https://doi.org/10.1021/acsaem.1c03310>
- * S Chand Rakesh Roshan, Yedukondalu, T Venkatappa Rao, R Rakesh Kumar. (2021). **Effective of Tensile Strain on Thermal Transport of BaTe.** *SGS - Engineering Sciences*, 1(01). <https://spast.org/techrep/article/view/2582>
- * Kunduru, L., Yedukondalu, N., Roshan, S. C. R., Sripada, S., Sainath, M., Ehm, L., Parise, J. B. (2021). **Pressure-Induced Martensitic Phase Transition and Low Lattice Thermal Conductivity of SrClF.** *The Journal of Physical Chemistry C*, 125(31), 17261–17270. <https://doi.org/10.1021/acs.jpcc.1c00800>
- * Kunduru, L., Sripada, S., Roshan, S. C. R., Yedukondalu, N., Sainath, M. (2020). **Pressure induced semimetallic B2 phase of alkaline earth tellurides.** *Journal of Physics: Conference Series*, 1495(1), 012041. <https://doi.org/10.1088/1742-6596/1495/1/012041>

- * Kunduru, L., Roshan, S. C. R., Yedukondalu, N., Sainath, M. (2018). **Pressure driven topological semi metallic phase in SrTe**. *AIP Conference Proceedings* (Vol. 1964, p. 020029). <https://doi.org/10.1063/1.5038708>
- * Yedukondalu, N., Kunduru, L., Roshan, S. C. R., Sainath, M. (2018). **Assessment of band gaps for alkaline-earth chalcogenides using improved Tran Blaha-modified Becke Johnson potential**. *AIP Conference Proceedings* (Vol. 1942, p. 090030). <https://doi.org/10.1063/1.5028945>
- * Rakesh Roshan, S. C., Kunduru, L., Yedukondalu, N., Sainath, M. (2018). **Structure and Lattice Dynamics of Calcium Chalcogenides under High Pressure**. *Materials Today: Proceedings*, 5(9), 18874–18878. <https://doi.org/10.1016/j.matpr.2018.06.235>
- * Kunduru, L., Rakesh Roshan, S. C. (2018). **High Pressure Study on Structural, Electronic and Elastic properties of Calcium Chalcogenides, CaX (X = S,Se) by first principles calculations**. *Materials Today: Proceedings*, 5(8), 16849–16854. <https://doi.org/10.1016/j.matpr.2018.05.130>
- * Roshan, S. C. R., Kunduru, L., M.Sainath, (2017). **Low Lying two-quasiparticle structures in odd-odd 182Re107**. *DAE Symp.Nucl.Phys* 62 (2017) pp.3-1211. <http://www.sympnp.org/proceedings/62/A133.pdf>.
- * Kunduru, L., Roshan, S. C. R., Latha, B. K., Murthy, K. P. N., Sastry (2011). **Polymer Network Induced Ordering in Biaxial Nematic Liquid Crystals: A Monte Carlo Study**. *AIP Conference Proceedings* (pp. 182–183). <https://doi.org/10.1063/1.3605796>
- * Roshan, S. C. R., Kunduru, L., Jose, R., Murthy, K. P. N., Sastry, V. S. Sastry, (2011). **Azimuthal Bistability in Patterned Nematic Liquid Crystal Films: A Monte Carlo Study**. *AIP Conference Proceedings* (pp. 178–179). <https://doi.org/10.1063/1.3605794>

INTERNATIONAL, NATIONAL AND STATE LEVEL ACCOLADES

- Editorial Board Member, Nature Portfolio - Scientific Reports Journal
- Young S&T Leader (under 45 years) as part of ESTIC 2025 by DST, Govt. of India
- Microsoft Innovative Educator Expert MIEE 2025-26, selected by Microsoft
- ATAL Mentor of Change, ATAL Innovation Mission, 2025.
- Perplexity AI Business Fellow 2025
- LinkedIn Top Voice 2025
- Microsoft Innovative Educator Expert MIEE 2024-25, selected by Microsoft
- Featured in the "Leading Professors Academicians 2025 Magazine - Edition 06" by Business Talkz Magazine
- Jury Member - 52nd District Level Balvaigyanik Pradarshini (DLBVP), Telangana Govt., Dec 2024
- Jury member - State Level Inspire Awards - MANAK Scheme - Nirmal Dist, Telangana Govt., Jan 2023
- Vice Chancellor Appreciation Award for Academic Excellence, Telangana Education Day, Telangana Dasahabdi Utsavalu, June 2023
- Appreciation Certificate from MHRD for Exceptional contribution as a 'Evaluator' in Hackathon 2022, Ministry of Education, MSME, MIE Govt.of India
- 'Judge' in Toycathon 2021, Ministry of Education, MSME, MIE Govt.of India.
- Certificate of Appreciation for Leadership in Lifeskills Program by Rubicon (Barclays CSR), Nov 2022.
- Certificate of Appreciation at National level for successful execution as SWAYAM NPTEL Coordinator of NPTEL, (2017 - 2024) and award of RGUKT as one of "Top 100/200 Local Chapters" in Country.
- Microsoft Innovative Educator Master Trainer (2020-21).
- International NASA - AMES Space Settlement Contest : Guide/Supervisor : Personally Guided/Supervised students of RGUKT Basar consistently to the top places (1st/2nd/3rd/Honorable mention) Worldwide in the international NASA AMES Space Settlement Contest from 2013 till 2018
- 'Adarsha Acharya Puraskar'(A National Award) under the aegis of Telangana IT association (TITA), Information Technology companies association of Andhra Pradesh (ITAP) , Lions Club international, Impact Foundation and Indian Servers as a part of Bharat Nava Nirmaan National Awards Ceremony, 2019
- 'Young Leader in Science Award' on 06th Jan 2018 at Higher Education Leadership Awards (HELA 2018) held at Chennai. The award carries a Bronze medal, Memento and a Certificate.
- ' Bharat Excellence Award – 2018 ' for the year 2018 awarded by Lt. Gen. K.M.Seth, Hon. Former Governor of Tripura and Chhattisgarh on 25th Sept.2018 at New Delhi
- NASA AMES Teacher Award 2012.

INVITED TALKS AND AS A RESOURCE PERSON

- Invited Expert Lecture on "Advancing Science through Simulation - Computational Methods in Materials Science and Physics " during " Refresher Course in Engineering Physics" by NITTTR Chandigarh from 19 Nov - 02 Dec 2024.
- Invited Expert Lecture on 'The Alchemy of Nanomaterials: Advancing Multifunctional Nanomaterials for Multifaceted Applications - Insights from First Principles Calculations' at AICTE Approved FDP on Nanomaterials, Characterizations and Applications by NITTTR,Chandigarh, July 2024.
- Contributed Talk at International Conference on Vienna Abinitio Simulation package, Feb 2024, Portugal
- Invited Expert Lecture on 'The Future Illuminated: Exotic Energy Materials Engineered through First Principle Calculations' at AICTE Approved FDP on Energy Storage Materials and Technology by NITTTR,Chandigarh, May 2024.
- Keynote Speaker - International Conference, 19-20 July 2024, , 'From Bits to Breakthroughs: Computational simulations in Materials Science', NEC, Narasaraopet, AP
- Invited speaker at the Second International Conference on "Recent Trends on Materials Science Devices", Dec 2023, Haryana.
- Contributed Talk at International Workshop on Vienna Abinitio Simulation package eco-system, Feb 2023, Portugal.
- Invited speaker at the International Conference on "Recent Trends on Materials Science Devices 2023 (ICRTMD-2023)", July 2023, Haryana.
- Invited Expert Lecture on Layered Materials - Properties and prospects for potential applications at AICTE Approved FDP on 2D Nanomaterials, October 2022, NITTTR Chandigarh.
- Invited Expert Lecture on Design Strategies for Low Thermal Conductivity Materials at AICTE Approved FDP on Energy Harvesting Storage Materials, September 2022, NITTTR Chandigarh.
- Invited Presentation at National Conference on Physics and Chemistry of Functional Materials 2019, GITAM University, Hyderabad.
- Resource Person and speaker at Two Day FDP on Effective Mentoring under Equity Action Plan, TEQIP-III, JNTU Hyderabad, 2019.
- Invited member for Panel Discussion at IEEE Conference on Technology for Education (T4E2018), IIT Madras, Dec 2018.
- Resource Person and Invited Talk at Two Week FDP, AICTE Sponsored Faculty Development Programme cum workshop on "New Frontiers on Multiscale Modelling of Advanced Functional Materials", NEC Narasaraopeta, November 2017
- Invited Speaker on the occasion of National Metallurgists Day 2016, Dept of MME, RGUKT-Basar.

INVITED TALKS AND AS A RESOURCE PERSON (ICT)

- Invited Resource person for the MOOCs Workshop on " NPTEL - Courses and Certifications" organized by IQAC and Career Guidance Placement Cell at Girraj Govt. Degree College, Nizamabad on 10th July 2025.
- Invited Resource person for the Faculty Development Program on " AI Tools in Teaching and Learning Process" organized by RBVRR Women's College of Pharmacy, Hyderabad - April 28th to 3rd May 2025.
- Invited Sole Resource person for the FDP "Integrating Technology in Education" by Dept. of CS and IS, Presidency University, Bangalore, March 2024.
- Resource Person for Industry-sponsored FDP on "Strategies for Professional and Personal Development of a Teacher" by RVBRR Hyderabad in association with APTI, Telangana, April 2023.
- Resource Person for "National Seminar on Quality Initiatives in Higher Education" by SD College, Ambala Cantt., March 2022.
- Invited Speaker for "AICTE-ISTE sponsored Induction/Refresher Programme on Pedagogical Tools Techniques for Technical Education in the New Normal," Chennai, Jan 2022.
- Invited speaker for 'Unleashing the Power of Online Assessments' held for staff of 'University for Technology and Applied Sciences – UTAS – IBRA', Oman, March 2021.
- Resource Person for the ' NPTEL Awareness Online workshops ' held online from Jan 4th till Jan 19th 2021 across different states of the country by NPTEL-MHRD India.
- Keynote Speaker at National Level AICTE workshop on "Digital Transformation and Pedagogies" from 10th Aug to 14th Aug 2020 organized by Walchand college of Engg., Sangli and Govt. Engg College, Karad, Maharashtra under AICTE Margadarshan.
- Sole Resource Person for the "Two day Professional Development program for teachers in the New Normal of application of ICT In Teaching" organized by Barrackpore Rastraguru Surendranath College (Autonomous),Kolkata (29,30 July 2020).
- Sole Resource Person for the Five day National FDP on Tools for "Online Teaching Learning and Evaluation" (20.7.2020 to 24.07.2020) organized by RBVRR women's college (Autonomous), Hyderabad.
- Sole Resource Person for the Five day National FDP on Tools for "Online Teaching Learning and Evaluation" (20.7.2020 to 24.07.2020) organized by RBVRR women's college (Autonomous), Hyderabad.

- Resource Person for the Four Day FDP on the topic "ICT Tools in Education for Teaching" faculty organized by Rathinam group of institutions, Coimbatore on 31st July 2020.
- Resource person for "The New Normal in Teaching V2.0" for Faculty, as a part of Free Microsoft Education Training program to educate teachers in ICT Tools on 12 July, 2020.

CONFERENCE PRESENTATIONS

- Presentation at PCCP Symposium on Physics for Sustainability: Health, Energy, and Environment, SPHERE, held on October 16-18, 2025, at Indian Institute of Science (IISc Bangalore).
- Oral Presentation at National Conference on Frontier Research in Sciences (FrontSci-2025), held on February 27-28, 2025, at Maulana Azad National Institute of Technology Bhopal (MANIT or NIT Bhopal).
- Oral Presentation at International Conference on Energy and Environmental Materials (E2M-2024) 11-13 July 2024, IIT Indore in association with IIT Kanpur Guwahati university.
- Oral Presentation at International conference on Emerging Multifunctional Materials and Devices for Sustainable Technologies (IEMDST-2024), July 4-5, 2024, NIT Warangal in association with NIT Goa.
- Presentation at 2023 Virtual School on Many-Body Calculations using EPW and BerkeleyGW on June 7, 2023, organized by Center for Computational Study of Excited-State Phenomena in Energy Materials (C2SEPEM) at Lawrence Berkeley National Laboratory, and by the Oden Institute for Computational Engineering and Sciences, The University of Texas at Austin, USA.
- Oral Presentation at International Interdisciplinary Conference on Energy, Nano Technology and IoT, Feb 2-4, 2023, at NIT Pondicherry.
- Presentation at International Conference on Energy Conversion and Storage (ICES-2023), IIT Madras, Jan 18-20, 2023.
- Best Paper award at 3rd International Conference on Science Engineering and Technology (ICSET 2022), SVCT, Chennai, Tamil Nadu, May 26-27, 2022.
- Oral Presentation at ACS Sponsored First International Conference on Technologies for Smart Green Connected Society, Nov 29-30, 2021.
- Oral Presentation at Two-Day National Conference on Advances in Nano and Functional Materials (NCANFM-2019), Osmania University, Hyderabad, Jan 30-31, 2019.
- Oral Presentation at ICMPC 2018, International Conference on Materials Processing and Characterization, GRIET, Hyderabad, Mar 16-18, 2018.
- Poster Presentation in DAE-Solid State Physics Symposium, BARC, Mumbai, Dec 2017.
- Poster Presentation in National Conference on Recent Advances in Materials Science and Technologies, Telangana University, Sep 15-16, 2017.
- Oral Presentation in 20th International Conference of International Academy of Physical Sciences (CONIAPSXX) on Recent Advances in Physical Sciences and Future Challenges, Osmania University, Hyderabad, July 14-16, 2017.
- Oral Presentation in International Conference on Advanced Materials (SCICON-2016), Amrita University, Coimbatore, Dec 2016.
- Poster Presentation in Two-Day National Symposium, Recent Advances in Chemistry and Material Sciences (RACMS), RGUKT, Aug 2016.
- Oral Presentation in National Conference on Condensed Matter Physics and Applications (CMPA-2016), Manipal University, June 2016.
- Poster Presentation in DAE-Solid State Physics Symposium, Manipal University, Dec 2010.

FDP'S/STTPs/EVENTS ORGANISED

- Organizing Committee member, one-day workshop on "Empowering innovation and intellectual property rights" on 25th July, 2025, RGUKT Basar in association with TSCOST, Telangana.
- Coordinator, Two Week AICTE-STTC 'Refresher Course in Engineering Physics', November 2024 under MHRD, India by NITTTR, Chandigarh MHRD at RGUKT Basar.
- Coordinator, One Week AICTE-STTC/FDP on 'Nanomaterials, Characterizations and Applications', July 2024 under MHRD, India by NITTTR, Chandigarh MHRD at RGUKT Basar.
- Coordinator, One Week AICTE-STTC Short Term Course on 'Energy Storage Materials and Technology', May 2024 under MHRD, India by NITTTR, Chandigarh MHRD at RGUKT Basar.
- Organizing Member of a one-day workshop on "Preparation of Research Project Proposals and Writing Papers" by RD Committee on 1st July 2023 at RGUKT Basar.
- Coordinator for NPTEL Awareness E-Workshop (National) in Association with Rajiv Gandhi University of Knowledge Technologies, Basar, Telangana, July 12, 2022.
- Core Organizing Team member, INNOVATE@RGUKT Basar, Aug 2022.
- Coordinated and Organised InReach Program by Physics Department, RGUKT Basar for TSWRDC-W Nizamabad Degree 2nd year students, 13th April 2022.

- Remote Centre Coordinator, One Week AICTE approved STC/FDP on "2D Nanomaterials: Potential and Applications," October 17–21, 2022, NITTTR Chandigarh MHRD at RGUKT Basar.
- Remote Centre Coordinator, One Week AICTE approved STC/FDP on "Energy Harvesting Storage Devices Materials," September 12–16, 2022, NITTTR Chandigarh MHRD at RGUKT Basar.
- Coordinator, One Week AICTE approved STC/FDP on "Smart Materials Processing and Applications," July 25–29, 2022, NITTTR Chandigarh MHRD at RGUKT Basar.
- Co-Convener/Organizing Secretary of National Science Day Celebrations conducted at RGUKT Basar (2016, 2017, 2018, 2019, 2020).
- Organised Astro Space Camp for RGUKT Basar students in collaboration with Society for Space Education Research Development (SSERD) at SAC, RGUKT Basar, Sept 2017 and Jan 2020.
- Coordinated Inreach Program for Mandal School teachers (Mudhole) by Physics Department, RGUKT Basar, December 12th, 2019.
- Coordinator of "One Day National Workshop on NPTEL" jointly organized by NPTEL, IIT Madras and RGUKT Basar at RGUKT Basar, Telangana, July 29, 2017.
- Organizing Secretary for International Conference on Advanced Functional Materials, ICAFM 2017, December 18–20, 2017, RGUKT Basar.
- Coordinated and organized Outreach Programs by Physics Department, RGUKT Basar in local ZPHS Schools for Science Education, December 2016.
- Organizing Committee Member of First University Fest, Science and Technology Fair, 2013, RGUKT,Basar..

BOOKS PUBLISHED

- Computational Simulations - A Primer , ISBN-978-9334283235 , April 2025, Dr S Chand Rakesh Roshan and Dr Lavanya Kunduru , <https://www.amazon.com/Computational-Simulations-Chand-Rakesh-Roshan/dp/9334283238>.
- Physics in Daily Life, ISBN-979-8319103819 , April 2025, Dr Lavanya Kunduru and Dr S Chand Rakesh Roshan, <https://www.amazon.com/Physics-Daily-Life-Lavanya-Kunduru/dp/B0F4PYBX22/>.
- Physics Labs Insights (College Level), ISBN-978-1980833321, April 2018, Rakesh Roshan S C and Lavanya Kunduru, <https://www.amazon.com/Physics-Labs-Insights-College-Level/dp/198083332X>.
- A Montecarlo Study On Azimuthal Bistability Of Nematic Liquid Crystals,S C Rakesh Roshan and Lavanya Kunduru, LAP LAMBERT Academic Publishing, ISBN-13 :978-333032092, June 2017, <https://www.amazon.com/Montecarlo-Azimuthal-Bistability-Nematic-Crystals/dp/3330320923>.

MEMBER - UNIVERSITY LEVEL COMMITTEES

- Grievance Redressal Committee (Teaching and nonteaching), Dec. 2024 .
- Constitution of R and D, Innovation, Industry Interface and MOU's Committee, RGUKT Basar , August 2022.
- Guest faculty recruitment, Physics, RGUKT Basar, Aug 9th 2024 .
- Guest faculty and lab staff recruitment, Dept. of Physics August 2023.
- Convocation, RGUKT Basar (2017,2018,2019) .
- University Tech Fest - Central committee - RGUKT Basar (2014,2017,2018) .
- To Study and Propose the Changes in Academic Curriculum at RGUKT Basar, 2018.
- Rules and Regulations Framing for Administrative Positions in RGUKT, 2018.
- Establishment of Digital Library, September 2018 .
- Requirement of Sign Boards, Design Directions, RGUKT Basar, March 2018.
- Digital Initiatives Committee, RGUKT Basar, July 2017 .
- Detailed guidelines for allotment of quarters, eligibility criterion, other terms and conditions for future allotments, September 2017.
- Scrutiny of applications against the post of Lecturer on contract basis, Physics RGUKT Basar, 2016.

TECHNICAL REVIEWER

- Journal of the American Chemical Society.
- ACS Applied Materials & Interfaces.
- Phase Transitions by Taylor & Francis.
- Physica Scripta - IOP.
- Langmuir Journal by ACS Publications.
- Advances in materials and processing technologies by Taylor Francis.
- International Journal on Interactive Design and Manufacturing (IJIDeM) by Springer Nature.
- International Journal of Power Electronics and Drive Systems (IJPEDS).
- Materials Today Proceedings by Elsevier.
- IEEE Conferences - ABV-IIIT Gwalior (IATMSI), KIIT and ICMPC.

UNIVERSITY REPRESENTATIVE

- Raj Bhavan - Viksit Bharat@2047, Dec 2023, Hyderabad
- Edu Summit - University Representative at JNTU Hyderabad - 16 Dec 2022.
- University Representative (For Training and Placements) at Innovation Summit Telangana, Dec 18th 2020, Hyderabad.
- University Representative at Global RD Summit 2019, 21-22 February 2019, Marriott, Hyderabad.
- University Representative at MoU Signing of MCRHRD, Govt of Telangana with RedBerri corporation, USA, held at Dr.MCRHRD Institute, Feb 28th, 2017.

VOLUNTEERING EXPERIENCE

- General Secretary for the Shree Shree Akshara Educational Society, Reg No. 620 of 2018, Based on which the RGUKT Campus School is Registered with Govt. of Telangana and currently 50+ staff kids are pursuing studies (2018 - till date).
- Faculty Advisor, Hope House, an organization by the students to help out fellow students at RGUKT Basar (health/financial issues) aimed to create a hope that each one stands for the other. (2015 - till date).
- Executive Member, AAP (Association of Assistant Professors, RGUKT Basar (2021 - 2025).
- Educator, Microsoft Learn for Educators (MSLE) Program - RGUKT Basar-Microsoft, 2022-23.
- Initiated TechSaksham Program under CSR of Microsoft and SAP for female students at RGUKT Basar, August 2022.
- External Examiner for Exams/Projects at couple of Universities and autonomous institutions.
- Created an original resource for Comprehensive ICT PDF Setup for Teachers in Education. 20 plus of these Free ICT Tools (so far) in greater detail have been discussed on YouTube Channel (<https://www.youtube.com/c/HelpEverICTToolsinEducation>) which are highly beneficial to all the teaching fraternity. 2020
- Advisor and resource person, Department of Physics, SRR Govt. Arts and Science College, NAAC 'A' accredited, Karimnagar, Telangana, May 2022.
- Executive Member of Teaching Employees Association Muster (TEAM), RGUKT Basar, March 2017 – March 2019.
- Served as Executive Member of University Employees Association (AUEB) from 2015-17.
- One of Key responsible staff members in establishment and maintenance of IIIT Kindergarten Play school inside the Premises of the University (2013-17). .
- Faculty Volunteer for Placement activities of Campus Placements, RGUKT Basar, 2016.
- Coordinator for Cricket during 2014 when University Team won EENADU Cricket Tournament.
- M.Tech Batch Placement Coordinator, University of Hyderabad, 2010.

PROFESSIONAL MEMBERSHIPS

- | | |
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| ◦ Life Member, Society for Atomistic and Continuum Modeling (SACM), ID:SACM2500158 | Oct 2025 - Present |
| ◦ Life Member, Systems Society of India (SSI), Membership ID: LM 33425 | Jan 2024 - Present |
| ◦ Life Member, Materials Research Society of India (MRSI), Membership ID: LMB3592 | Dec 2022 - Present |
| ◦ Life Member, The Indian Society for Technical Education (ISTE), Membership ID: 136011 | Nov 2022 - Present |
| ◦ International Association of Engineers (IAENG), Membership ID: 307363. | Mar 2022 - Present |
| ◦ ACS Community Associate, Membership ID: 32766185. | Feb 2022 - Present |
| ◦ Member, Asian Consortium on Computational Materials Science (ACCMS), | 2022 - Present |
| ◦ Life Member, Indian Physics Association (IPA), Membership ID: LM-2021-HYD-13587 | 2021 - Present |
| ◦ Life Member, Indian Science Congress Association (ISCA), Membership ID: L32492 | May 2017 - Present |

CERTIFICATIONS

- **Prezi Certified Educator Trainer.**
- **Kahoot Gold Certified Teacher of Awesome.**
- **Microsoft Innovative Educator Trainer.**
- **Adobe Creative Educator.**
- **TCS iON Certified Digital Teacher.**

ADDITIONAL INFORMATION

Languages: English, Hindi, Telugu

Interests: Badminton, Cricket, Music