

# Dr. G. Srinivas Reddy

## Assistant Professor



Education Qualifications: M.Sc., M.Phil., M. Tech., Ph. D., D.Sc.(hc).  
Specialization: Environmental Nuclear Radioactivity

### ADDRESS:

- A – Block -Room No. A 001

### JNTUH ID:

**11150404180803**

### EMAIL:

gsrinivasreddy\_phy@mgit.ac.in

### DATE OF JOINING:

06-12-2010

### EXPERIENCE - 17 Years

- Teaching - 11
- Research - 6

### SUMMARY:

- Publications - 8
- Conferences - 10
- Patents – 2
- Books – 1
- Honors/Awards - 4

### EVENTS:

- Organized - 2
- Attended - 21

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### Membership of Professional Bodies:

1. **FIETE.** (F-502665): Fellow Member IETE.
2. **MIIEE.** (97981346): Member, IEEE.
3. **C. Eng.** (AM1993885): Chartered Engineer; Institution of Engineers (India).
4. **AMIE.** (AM1993885): Associate Member IET.
5. **AMTIE.** (AT4000353): Associate Member Technologist; Institution of Engineers (India).

### Responsibilities Held at Institution Level:

1. Member Convener - Career Guidance Cell (CGC) from 2020 to till date.
2. Coordinator, UGC Quality Initiative (NEP-2020): Social and Industry Connect-Fostering Social Responsibility and Community Engagement in HEIs in India from 19.02.2022 onwards.

### Responsibilities Held at Department Level:

1. Department Coordinator (P&C) for NSS activities from 2017 to till date.

### Honors/Awards Received:

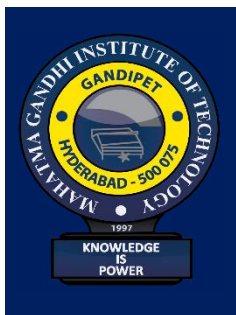
1. Qualified **TS-AP SET (Physical Sciences)** in 2015 conducted by Ts Govt & Osmania University
2. Doctor of Science (Honoris Causa) **D.Sc (hc)** received from University of Central America, Bolovia.
3. Young Scientist Award 2020, on Radiation Research from RSP Research HUB (A scientific research organization).
4. Best Researcher Award by SHEN 2021 Awards by Ministry of Corporate Affairs (MCA), Govt. of India.
5. Best Oral Presentation Award in the National Conference NCB4EBT-2021 held at NITW, Warangal during 29-30 January, 2021.
6. Best Oral Presentation Award in National Conference on Recent advances in Physics for Interdisciplinary Development (RAPID – 2K21) held at Harihara, Karnataka during 29-30, September, 2021.

### Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** Solid State Physics-I, Applied Physics, Engineering Physics, Applied Physics laboratory, Engineering Physics Laboratory and Artificial Neural Networks.

### Publications:

1. K. Vinay Kumar Reddy, **G. Srinivas Reddy**, P. Muralikrishna, S. Shruvan Kumar Reddy, B. Sreenivasa Reddy., 2023. Natural background outdoor gamma radiation levels and mapping of associated risk in Siddipet district of Telanagana State, India. *Nucl. Part. Phys. Proc. Elsevier (Scopus Indexed:IF: 0.4)*.



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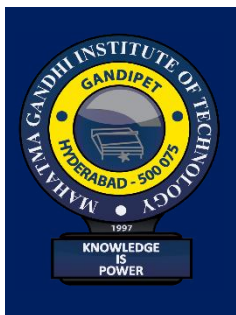
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2. Ch. Achi Reddy; **G. Srinivas Reddy**; J. Suresh Goud; N. Amarnath., 2023. Casson fluid with over a nonlinear stretching sheet with stagnation point flow, heat and mass transfer. *AIP Conf. Proc.* (Scopus; **IF:0.4**).
3. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Linga Reddy, B., Sreenath Reddy, M., Gopal Reddy, Ch., Yadagiri Reddy, P., 2021. Mapping of ambient gamma radiation levels and risk assessment in some parts of Eastern Deccan Plateau, India. *Int. J. Environ. Anal. Chem.* 1-13. **Taylor & Francis** (SCI; **IF: 2.3**).
4. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Linga Reddy, B., Sreenath Reddy, M., Gopal Reddy, Ch., Yadagiri Reddy, P., 2021. Assessment of indoor radon activity concentration levels in four northern districts of Telangana state, India. *J. Radioanal. Nucl. Chem.* 330, 1417-1423. **Springer** (SCI; **IF:1.3**).
5. Linga Reddy, B., Srinivas Reddy, G., Reddy, K., Reddy, B. S., 2021. Inhalation dose due to residential radon and thoron exposure in rural areas: a case study at Erravalli and Narasannapet model villages of Telangana state, India. *Radiat. Environ. Biophys.* 60, 437-445. **Springer** (SCI; **IF:1.9**).
6. Srinivas Reddy, G., Vinay Kumar Reddy, K., B., Linga Reddy., Sreenivasa Reddy., 2019. Natural Background Gamma Radiation Levels in the Environs of Proposed Petro-chemical Industry Near Jadcherla, Telangana State, India. *Nat. Environ. Pollut. Technol.* 18, 1333-1338. (Scopus).
7. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Linga Reddy, B., Sreenath Reddy, M., Gopal Reddy, Ch., Yadagiri Reddy, P., 2021. August). Thoron studies in dwellings of certain northern districts of Telangana state, India. *AIP Conf. Proc.* 2352, 050008. (Scopus; **IF:0.4**).
8. Linga Reddy, B., Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B. 2020. Computational challenges in statistical outcome of teaching learning practice: A Scientific Review. *J. Adv. Res. Dyn. Cont. Sys.* 12, 2603-2606. (Scopus).
9. Khalandar Basha, D., A Pulla Reddy, Rollakanti Raju, G Srinivas Reddy. 2018. Gated body-biased full adder. *Mater. Today: Proc.* 5, 673-679. **Elsevier** (Scopus; **IF:1.24**).
10. Srihari, K., G Srinivas Reddy. 2014. Effects of Radiation and solet in the presence of heat source/sink on unsteady MHD flow past a semi-infinite vertical plate. *Br. J. Math. Comp. Sc.* 4, 2536.

#### Conferences:

1. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Sreenath Reddy, M., 2021. "Radon and Thoron equilibrium factors for the dwellings in and around Sircilla Town of Telangana State, India" National Conference on Recent advances in Physics for Interdisciplinary Development (RAPID – 2K21) held at Harihara, Karnataka during 29-30, September, 2021.
2. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Sreenath Reddy, M., 2021. Statistical Distribution of Natural Radioactivity levels in Rajanna Sircilla District, Telangana State, India. Two-Day Online National Conference on Biological, Biochemical, Biomedical, Bioenergy, and Environmental Biotechnology, held at NITW, Warangal during 29-30, January, 2021. Published in AIJR Abstracts, 38.
3. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Sreenath Reddy, M., 2021. Natural Background Gamma Radiation Levels in few dwellings of Rajanna Sircilla district, Telangana State, India. Proceedings of ICMST-2021. First International Conference on Management, Science and Technology during 29-30 May 2021.
4. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Linga Reddy M., Sreenath Reddy., Gopal Reddy, Ch., Yadagiri Reddy, P., Natural Background Radioactivity Levels in The Environs of Jammikunta Town, Telangana. 21st National Conference on Solid State Nuclear Track

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Detectors and Their Applications (SSNTDs-21) held at New Delhi during 29-31 January, 2021.

5. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Sreenath Reddy, M., 2021., Natural Background Gamma Radiation Levels in few dwellings of Rajanna Sircilla district, Telangana State, India. International e-conference on Materials Processing & Characterization held at Hyderabad during 18-19 September, 2020.
6. Linga Reddy, B., Vinay Kumar Reddy, K., Srinivas Reddy, G., Sreenivasa Reddy, B., Radon levels in different mining environs of Telangana state, India: A review. Proc. First International Conference on Advances in Science Hub (online) during 27-28 June, 2020,
7. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B. 2017. Thoron levels in a few dwellings of Peddapalli district, Telangana. 20th National Conference on Solid State Nuclear Track detectors and their applications (SSNTDs-20) held at Mysore during 26-28 October, 2017.
8. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., 2017. Thoron levels in a few dwellings of Karimnagar city of Telangana State, India. International Conference on Environmental Impact of Advanced Materials and Energy Technologies held at Hyderabad during 19-21, January 2017.
9. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., 2016. Studies on Radon Concentration in few dwellings of Karimnagar district, Telangana State, India. International Conference on Trend Setting Innovations in Chemical Science and Technologies held at JNTUH, Hyderabad during 4-6, October, 2016.
10. Srinivas Reddy, G., Vinay Kumar Reddy, K., Sreenivasa Reddy, B., Ch. Gopal Reddy., Yadagiri Reddy., Rama Reddy. K., 2015. Preliminary studies on natural background radiation levels along along the Karimnagar Granulite Terrain in Karimnagar district of Telangana State. National Conference on Engineering Materials, Energy and Environment held at Hyderabad, 24-25 April, 2015.

**Patents:**

1. Patent on “Nanomaterial Based Optical Sensor” was published on 01-02-2022, No: 202241005506.
2. Patent on “Cost Effective Solar Panels With Photovoltaic Cells Coated With Nanoparticles” was published on 29/04/2022, No: 2202221013684.

**Research & Consultancy:**

1. Research Project from **TSCOST (State Govt.) (DST)** on “Assessment of Naturally Occurring Radioactive Materials (NORM) and Radon Exhalation Studies in Soils of Siddipet District of Telangana State” for one year 2022-2023 (ongoing). (Lr.No.03/TSCOST/DST-PRG/2021-22, Dated: 21.03.2022)

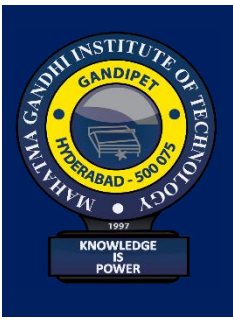
**No. of Books/Chapter Published with details:**

1. Published One Chapter on “Comparative Analysis of Body Biasing Techniques for Digital Integrated Circuits” in the book titled “Soft Computing and Signal Processing” by **Springer publications**, 1<sup>st</sup>, January 2022.

**Events Organized****FDPs/STTPs:**

1. Faculty Development Programme on The Role of Materials Science in Engineering: Applications Perspective from 03-08-2020 to 07-08-2020. Member of organizing committee
2. National Level Online Faculty Development Programme Materials for Photonics during 9-13 August 2021 Member of organizing committee.

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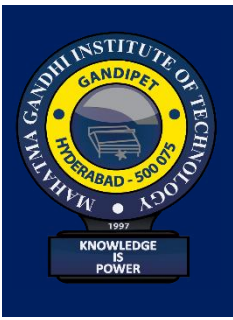
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1. Two Week All India Faculty Development Program (AIFDP) on “Emerging Trends in Online Education” conducted by UGC-HRDC, Bhagath Phool Singh Mahila Viswavidhyalaya, Haryana during July 1-4, 2021.
2. Online Faculty Induction Programme for Faculty in University/College/Higher Educational Institutes conducted by UGC-HRDC, Osmania University during 9<sup>th</sup> – 24<sup>th</sup> August, 2021.
3. One Week online FDP on “Outcome based Education and Accreditation” conducted by ISTE Telangana Section in collaboration with JNTUH college of Engineering, Jagtial, during 5<sup>th</sup> – 9<sup>th</sup> October, 2020.
4. Online Faculty Induction Program (FIP) conducted by UGC-HRDC, Osmania University during 31<sup>st</sup> August – 29<sup>th</sup> September, 2020.
5. 4-Week Induction/Orientation Programme for Faculty in University/College/Higher Educational Institutes conducted University of Delhi in collaboration with MHRD-PMMNMTT during 04.06.2020 to 01.07.2020.
6. One Week FDP on “NAAC Assessment and Accreditation” conducted by ShriShivaji College, Parbhani, Maharashtra (UGC Paramarsh scheme) during 21.05.2020 - 26.05.2020.
7. One Week FDP on SCILAB-An Open-Source substitute for MATLAB (Through Recorded Video Lectures) conducted by JNTUH Sultanpur in collaboration with IIT-B, PMMNMTT.
8. Two weeks FDP on MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0, (Through Recorded Video Lectures) conducted by University of Delhi in collaboration with MHRD-PMMNMTT

**Refresher Courses/ Workshops/ Webinars/ Seminars/Guest Lecture:**

1. Two-Week online Refresher Course on "Contemporary Development Trends in Materials Science and Engineering" UGC HRDC, JNTUH during 8<sup>th</sup> August – 24<sup>th</sup> August, 2021.
2. Online workshop on Universal Human Value theme “Inculcating Universal Values in Technical Education” organized by AICTE during 24-28, August, 2020.
3. Online Refresher Course (RC) on “Research Methodology: Tools and Techniques” conducted by UGC-HRDC, Mizoram University during 7<sup>th</sup> July – 20<sup>th</sup> July, 2020.
4. 30<sup>th</sup> Orientation Course (Online) conducted by UGC-HRDC, Mizoram University during 28<sup>th</sup> July – 17<sup>th</sup> August, 2020.
5. Refresher Course (RC) on Advanced Material Science conducted by UGC-HRDC, JNTUH during 15.07.2019 to 27.07.2019.
6. Attended webinar or “Enhance Research visibility to improve ranking” on 17.04.2020
7. Actively participated in webinar entitled “Integrating SCOPUS work flows into everyday workflow” on 21.04.2020.
8. Attended a webinar on “Case study: Howa research stays and competitive with Scopus” on 24.04.2020
9. Appeared for the webinar on “Employability Skills in Curriculum design” on 26.04.2020.
10. Attended a webinar on “4 steps to approach effective self-service implementation” on 26.04.2020.
11. Attended a webinar on “Scopus: Research tips to your research more effective” on 27.04.2020.
12. Attended a webinar on “Research metrics and your career” on 28.04.2020.



13. Attended a webinar on “Introduction to writing research articles” on 29.04.2020.

#### **Online Certifications:**

1. Coursera: Photovoltaic Solar Energy **3 weeks**
2. Coursera: Quantum Mechanics **3 weeks**
3. Coursera: Solar Energy Basics **5 weeks**
4. Coursera: Learning how to learn for Youth **3 weeks**
5. Coursera: Introduction to Psychology **6 weeks**
6. Coursera: Positive Psychology **6 weeks**

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