

Dr. Pardhu Yella

Assistant Professor



Education Qualifications: Doctor of Philosophy
Specialization: Materials Engineering

ADDRESS:

- A – Block -Room No. A106

JNTUH ID:

8772-180703-154939

EMAIL:

pardhuyella_phy@mgit.ac.in

DATE OF JOINING:

01-08-2018

EXPERIENCE - 11 Years

- Teaching - 4
- Research - 7

SUMMARY:

- Publications – 5
- Conferences - 4
- Honors/Awards - 1

EVENTS:

- Organized - 1
- Attended - 19

LET'S MEET ON SOCIAL:

- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- https://twitter.com/MGIT_hyderabad

Membership of Professional Bodies:

1. Life member of Electron Microscopy society of India (LM 2016).

Responsibilities Held at Institution Level:

1. Group Member of Consortium for academic and research ethics (CARE)
– For publication of research papers

Responsibilities Held at Department Level:

1. Web & Branding committee member
2. Class In charge

Honors/Awards Received:

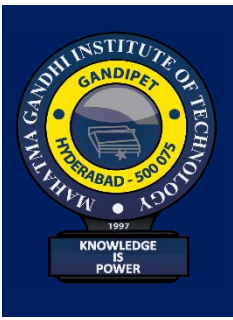
1. Best research paper achieved for the work on “Strain Hardening Behavior of Friction Welded Beta Titanium Alloy Titan 1023 used for Aeronautical Applications” Panjab University, Chandigarh, India March 2022.

Courses Handled at Under Graduate Level:

1. Applied Physics
2. Applied physics laboratory
3. Engineering Physics
4. Engineering physics laboratory

Publications:

1. Pardhu, Y. Angle and polarization-dependent optical switching in porous silicon-based coupled photonic microcavities. Bull Mater Sci 44, 239 (2021). <https://doi.org/10.1007/s12034-021-02523-1>
2. Pardhu Yella, K. V. Rajulapati, G. V. Prasad Reddy, R. Sandhya, P. Prem Kiran, Ramesh K. Buddu, K. Bhanu Sankara Rao Effect of laser shock peening on high cycle fatigue characteristics of 316LN stainless steel International Journal of Pressure Vessels and Piping Volume 176, September (2019), 103972 <https://doi.org/10.1016/j.ijpvp.2019.103972>
3. Pardhu Yella, J. Varghese, P. Prem Kiran, R. K. Buddu, K. Bhanu Sankara Rao & Koteswararao V. Rajulapati Mechanical Properties of Laser Shock-Peened Regions of SS316LN and SS304 Studied by Nanoindentation INAE Letters volume 4, pages215–225 (2019), <https://doi.org/10.1007/s41403-019-00080-y>
4. P. Yella, P. Venkateswarlu, R.K. Buddu, N. Ravi, K. Bhanu Sankara Rao, P. Prem Kiran, Koteswararao V. Rajulapati Role of sacrificial layers on surface characteristics of laser shock peened SS304 plates Optics and Laser Technology Volume 107, November 2018, Pages 142-149 <https://doi.org/10.1016/j.optlastec.2018.05.018>
5. Pardhu Yella, P. Venkateswarlu, Ramesh K. Buddu, D. V. Vidyasagar, K. Bhanu Sankara Rao, P. Prem Kiran, Koteswararao V. Rajulapati, Laser shock peening studies on SS316LN plate with various sacrificial layers Applied Surface Science Volume 435, 30 March 2018, Pages 271-280 <https://doi.org/10.1016/j.apsusc.2017.11.088>

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Conferences:

1. Vijaya L. Manugula, V. Lavanya, Y. Pardhu, “Microstructural characterization and hardness of an electron beam” Materials Today: Proceedings 2023 <https://doi.org/10.1016/j.matpr.2023.03.642> welded low carbon Ni-Cr-Mo low alloy steel
2. D. B. Anant Sagar, Pardhu Yella, M. S. K. Rao, N. Narasaiah, “Strain Hardening Behavior of Friction Welded Beta Titanium Alloy Titan 1023 used for Aeronautical Applications” Materials Today: Proceedings Volume 57, Issue P2, Third International Conference on Aspects of Materials Science and Engineering Pg Nos: 687-692, March 2022.
3. V. S. Vendamani, Yella Pardhu, D. Kanjilal, and S. Venugopal Rao, Fabrication of silver honey comb nano template, AIP Conference Proceedings 2265, 030139 (2020); <https://doi.org/10.1063/5.0016690>
4. PardhuYella VenkateswarluPinnoju Koteswararao V.Rajulapati P. PremKiran Ramesh KumarBuddu P.M.Raole K. Bhanu SankaraRao Structural Details of Laser Treated SS 304 and SS 316L(N) Plates Procedia Engineering Volume 86, 2014, Pages 27-33 <https://doi.org/10.1016/j.proeng.2014.11.007>
5. P.Venkateswarlu, Pardhu Yella, Ramesh Kumar Buddu, K. Bhanu SankaraRao, Raole P.M., Koteswararao V. Rajulapati, P. Prem Kiran Structural Modification of Stainless Steel Surface Using Pulsed Lasers Technology Letters, Vol.1, No.10 (2014) 5-8

Research & Consultancy:

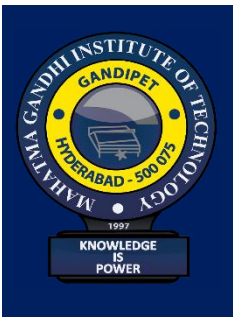
1. As a part of Research and Development consultancy activity with Bharath Forge taught a course on “Optics and Optical system fundamentals” during the academic year 2020-21

Events Organized:**FDPs:**

1. National Level online Faculty Development Programme “Materials for Photonics” during 9-13 August 2021. (Member of organizing committee)

Events Attended**FDPs/STTPs:**

1. Participated in the Online Training Programme on "Optical Fibre Communication" Conducted by NITTTR Institute from 26.07.2021 to 30.07.2021
2. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Additive Manufacturing" from 2020-9-21 to 2020-9-25 at Vasireddy Venkatadri Institute of Technology, Guntur AP.
3. Participated in one-week AICTE sponsored short term training programme on “synthesis characterization and its applications of nanomaterials” during 24th to 29th August 2020.
4. Participated in online FDP on the role of materials science in engineering: applications perspective conducted on August 3rd – 7th 2020 organized by Department of Physics and Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad.
5. Participated in online FDP on the Swachhta Action Plan – the role of higher educational institutions organized by NSS unit & UBA cell, MGIT, Hyderabad during 8th -10th October 2020.



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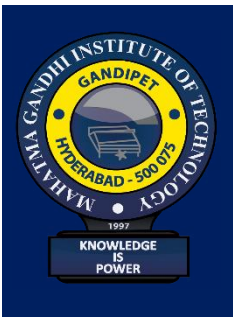
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6. Participated in One Week Online FDP on “Engineering Physics and Materials Science”, organized by Department of Physics from 03-08-2020 to 07-08-2020
7. Successfully completed one week online international FDP on Research and development on materials behavior, processing and characterization techniques from 9th -14th June 2020. Organized by Department of mechanical engineering, GLA university, Mathura in association with Indian institute of metals
8. Successfully completed 2nd One Week International Faculty Development Program – ONLINE on "Role of Materials and Processing in Additive Manufacturing: 3D Printing to Industry-2020",
9. from 19th - 24th July 2020 organized by Department of Mechanical Engineering, GLA University, Mathura in association with Indian Institute of Metals (IIM)
10. Participated & completed successfully AICTE Training and Learning (ATAL) Academy Online FDP on "Data Sciences" from 2020-9-7 to 2020-9-11 at University of Hyderabad

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

1. Participated in Two-week Online Refresher Course on "Contemporary Development Trends in Materials Science and Engineering" held from 09/08/2021 to 24/08/2021 and successfully completed with A+ Grade conducted by UGC -HRDC JNTUH.
2. Successfully completed the online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” during 24-28 August, 2020 as organized by All India Council for Technical Education (AICTE)
3. Participated in the National Level Five Day faculty development program on “Scilab” in Association With IIT-Bombay (Remote Learning Through Spoken Tutorial)," from 15th - 19th, June 2020 organized by the Department of Science & Humanities. St. Peters Engineering College (Autonomous)
4. Participated in a Two-day National Level Virtual Workshop on “The Role of Chemistry in Modern Healthcare” organized by Department of Physics and Chemistry, Mahatma Gandhi Institute of Technology, Hyderabad on 3rd and 4th of July 2020
5. Participated in the “Online National Level Faculty Development Programme on Radiation & Environmental Radioactivity” organized by the Department of Physics, CSI College of Engineering, Ketti during 3rd - 5th June 2020
6. Participated in a Webinar on Piezoelectric Based Energy Harvesting Techniques, organized by Department of Electrical and Electronics Engineering, MSAJCE, Chennai on 03-06-2020.
7. Actively participated in international webinar Synergetic effect of academicians and industrials in combating covid19 using luminescence held on 2nd June 2020. Organized by Department of Physics, St. Pious X Degree and PG college for women in association with luminescence science of India.
8. Attended Two-day International Virtual FDP on Innovative Techniques for Effective Teaching Online and Offline 12-13 June, 2020 Faculty of English (Department of M&H) MGIT.
9. Attended the National Level workshop on Recent Trends and Opportunities in Physics (Online) on 10th and 17th April 2021, Organized by the Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh



Online Certifications:

1. Successfully completed the course on “Experimental Physics -II” through NPTEL during Jan- Apr 2021.
2. Successfully completed the course on “Electronic theory of solids” through NPTEL during Jan- Apr 2020.
3. Successfully completed the course on “Optical sensors” through NPTEL during Jan- Apr 2020.
4. Successfully completed the course on “Physics of Materials” through NPTEL during Sep - Dec 2020.
5. Successfully completed the course on “X-ray Crystallography and Diffraction” through NPTEL during Sep - Dec 2020.
6. Successfully completed the course on “Waves and Oscillations” through NPTEL during Jul-Oct 2019.
7. Completed an online non-credit course “Python Data Structures” authorized by University of Michigan and offered through Coursera on May 25 2020
8. An online non-credit course “Programming for Everybody (Getting Started with Python)” authorized by University of Michigan and offered through Coursera on May 24 2020
9. An online non-credit course “Computers, Waves, Simulations: A Practical Introduction to Numerical Methods using Python” authorized by Ludwig-Maximilian’s-Universität München (LMU) and offered through Coursera on October 6 2020.
10. An online non-credit course “Materials Data Sciences and Informatics” authorized by Georgia Institute of Technology and offered through Coursera on September 28 2020.
11. An online non-credit course “Using Python to Access Web Data” authorized by University of Michigan and offered through Coursera on August 1 2020.
12. An online non-credit course “Nanotechnology and Nano sensors, Part1” authorized by Technion - Israel Institute of Technology and offered through Coursera on June 22 2020.
13. An online non-credit course “Python Programming: A Concise Introduction” authorized by Wesleyan University and offered through Coursera on May 24 2020

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