




ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)

Accredited by NAAC & An ISO 9001:2015 Certified Institution

ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : www.aliet.ac.in :: Ph : 0866 - 2476161

FACULTY PROFILE

Name of the Faculty	Dr. Y. SUDHAKAR		
Designation	Assistant Professor of Physics & HOD		
Department	Science & Humanities	Date of Birth 7/31/1982	
Date of Joining the Institution	19-11-2011	Native place Vijayawada- Andhra Pradesh, India	
Academic Qualification with Class/Grade	<ul style="list-style-type: none"> • Ph.D from Acharya Nagarjuna University, Guntur. with 'A' Grade, 2022. • M.Phil., (Glass Science) from Acharya Nagarjuna University, Guntur, with 'A' Grade, 2010. • M. Sc., Physics from Acharya Nagarjuna University PG Centre, Nuzvid, with Distinction, 2004. • B.Sc.(MPE)., from Sarada College, Vijayawada with Distinction, 2002. 		
Professional Qualification			
Literary Distinctions			
Employee ID	ALIET-11-09		
E-mail / Mobile	sudhakar.yalamarthy@gmail.com 9052742647		
Total Experience in Years	Teaching: 18 years	Print Media: 1 years	Research: 2

Papers Published in Journals -	UGC:- A Peer Reviewed:-	Articles in Books:-
Faculty Development Programmes attended:	13	Guest Lectures Delivered:-
Papers presented in Conferences/ attended	National: 05	International: 01 / Workshops: 03
PhD Guide? Give field & University	Field: Glass Science Guide: Dr.G. Sahaya Baskaran	University: Acharya Nagarjuna University
PhDs / Projects Guided		
Books Published/IPRs/Patents		
Professional Memberships		
Editorial Board Membership		
Board of Studies Member		
Foreign Projects		
National Projects		
Grants fetched		
Awards		
Subjects handled for M.Sc. Physics. i.e., from 2005 to present	<ul style="list-style-type: none"> • Solid State Physics-I, II • Nuclear Physics, Molecular and Resonance spectroscopy • Electromagnetic Theory and Modern Optics • Quantum Mechanics • Mathematical Methods in Physics • Classical Mechanics & Statistical Mechanics • General Physics lab • Solid State Physics Lab • Electronics Lab • 	
Subjects handled for B.Sc. Physics. i.e., from 2005 to 2009.	<ul style="list-style-type: none"> • Mechanics, Waves & Oscillations • Thermodynamics and Optics • Electricity, Magnetism and Electronics • Modern Physics • All labs in degree Physics. 	
Subjects handled for B. Tech 1 st year Students: All Branches 2009 to present	<ul style="list-style-type: none"> • Engg. Physics • Applied Physics • Environmental Studies • Professional Ethics & Human Values • Applied/Engg. Physics Lab 	
Conferences/ Seminars / Workshops / FDP Organised @ ALIET	01	
Any Other Achievements	Certificate of Appreciation form 47 th SCRET, Amaravathi & Department of School education, Andhra Pradesh.	
Other Responsibilities	<ul style="list-style-type: none"> • NBA coordinator (Criteria-8). • BS&H Head of the Department. • Antir 	

Whether Ratified by University (Yes/No)	YES
Faculty Development Programmes attended	
<ol style="list-style-type: none"> <li data-bbox="172 331 1474 472">1. Attended Faculty Development Programme on “Online College Management & Online Content Creation Tools” conducted by North Storm Academy in collaboration with University of Mumbai on 30th April, 1st May & 2nd May 2020. <li data-bbox="172 495 1474 636">2. Attended National Level Faculty Development Programme on "Physics of Materials" organized by Department of Physics, Kalasalingam Academy of Research and Education from 08-14 June 2020. <li data-bbox="172 658 1474 799">3. Attended Three Day Online Faculty Development Program on “Physics of Materials” organized by Department of Physics, Faculty of Engineering & Technology, JAIN (Deemed-to-be university), from 28th to 30th May 2020. <li data-bbox="172 822 1474 963">4. Attended National Level Faculty Development Program on “Tools for online classroom post covid-19” organized by P.B. Siddhartha College of Arts & Science and Computer society of India- Vijayawada from 18th to 20th May 2020. <li data-bbox="172 985 1474 1240">5. Attended one-week Online Faculty Development Programme “The Use of Virtual Physics Labs Creating Next Generation Teachers” organized by Department of Freshman Engineering, Geethanjali College of Engineering and Technology in association with Indian Society for Technical Education (ISTE), from 20th to 24th May 2020. <li data-bbox="172 1263 1474 1458">6. Attended A National Level 3 Day Virtual Faculty Development Program on “MOVING TO MASTER SCIENCE IN TECHNOLOGY (MMST: 2020)” organized by Organized by Freshmen Engineering Department, PSCMR College of Engg & Technology, Vijayawada-1, from 18th -20th June 2020. <li data-bbox="172 1480 1474 1675">7. Attended One Week Faculty Development Program on “Advanced NDT Techniques & Applications in Industry” organized by Indian Society for Non Destructive Testing, Hyderabad Chapter in association with Department of Mechanical Engineering, QISCET, Ongole, from 25th to 29th May,2020. <li data-bbox="172 1697 1474 1839">8. Attended A One Week Online FDP on “Tools for Scientific Communication and Effective Teaching”, organized by Electrical and Electronics Engineering Department, Vaagdevi college of Engineering. from 2nd June – 6th June 2020. <li data-bbox="172 1861 1474 2002">9. Attended One-week online Faculty Development Program on “Materials: Recent Trends & Engineering Applications”, organized by GOKARAJU RANGARAJU Institute of Engineering and Technology (Autonomous), from 2nd June – 7th June 2020. 	

10. Attended One-week online Faculty Development Program on **“Nano Hybrid Composite Materials Characterization & Applications”**, organized by Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Engg & Technology, Hyderabad, on 24th to 28th August 2020.
11. Attended One-week online **FDP on “Engineering Physics and Materials Science”**, organized by Department of Physics, Chaitanyas Bharathi Institute of Technology(A), Hyderabad from 03-08-2020 to 07-08-2020.
12. Attended one-week online Faculty Development Program on **“EMERGING TECHNOLOGIES AND CHANGING SCENARIO ON MATERIAL RESEARCH”** organized by DEPARTMENT OF BASIC SCIENCES, SANTHIRAM ENGINEERING COLLEGE, NANDYAL, from 27th July to 01st August 2020.
13. Attended one-week online training on **‘Bridge Course to Excel in Teaching Physics’** organised by the IQAC wing and Dept of Physics, ALC during July 14-22, 2020

Online Webinars Attended: 2020

1. Participated in a **“Interdisciplinary International Symposium on the theme COVID-19 Socio-Economic and Traumatic Challenges Impacting Migrant Workers”**, organized by Andhra Loyola Institute of Engineering & Technology, Vijayawada-8, on 9th June, 2020.
2. Participated in a **“Modern Methods for Teaching – Learning Practices”**, organized by Krishna University, Machilipatnam, on 12th & 13th May, 2020.
3. Participated in a **“e-Workshop on Virtual Labs”**, organized by Bhavan’s Vivekananda college, on 14th May, 2020.
4. Participated in a **“Creative writing of research proposals & Articles”**, organized by Department of Physics, Adikavi Nannaya University, Rajamahendravaram, on 4th June, 2020.
5. Participated in a **“National webinar on Recent Advances in Physics”**, organized by Department of Physics and IQAC, Government College for men, Kurnool on 10th June, 2020.
6. Participated in a **“National webinar on Recent Advances in Physics”**, organized by Department of Physics and IQAC, Government College for men, Kurnool on 10th June, 2020.
7. Participated in a **“National webinar on Recent Advances in Physics”**, organized by Department of Physics and IQAC, Government College for men, Kurnool on 10th June, 2020.
8. Participated in a Webinar on **“Research and Ethics”** conducted by Chebrolu Hanumaiah

Institute of Pharmaceutical Sciences, Guntur in Association with Indian Pharmaceutical Association, Education Division.

9. Participated in a Two Day National Level Webinar on **“Post covid-19 Pedagogy: Incorporating Digital Resources for an Enhanced Student Engagement and participation”** organized by Andhra Loyola College (Autonomous) Vijayawada-8, on 29th & 30th May, 2020.
10. Participated in a Virtual Summit on **“Covid-19: Impact on Education, Technology, Environment & Mankind”** organized by Andhra Loyola Institute of Engineering & Technology, Vijayawada-8, on 30th May, 2020.
11. Participated in an International webinar on **“How to Write a Research Paper”** organized by KLE Society science and commerce college, Maharashtra, on 14th May, 2020.
12. Participated in an International E-Conference on **“Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World”** organized by Government Vidarbha Institute of Science & Humanities, Amravati, India on 15th - 17th May, 2020.
13. Participated in a Webinar on **“Shock waves – a potential tool for tailoring material’s property”** organized by Dept. of Physics(S&H) Kumaraguru college of technology, Coimbatore, on 22nd May, 2020.
14. Participated in a National Webinar on **“Societal Applications of ionizing and Non ionizing Radiation”** organized by Dept. of Science and Humanities (Physics) of St.Joseph college of Engineering, Sriperumbudur, Chennai, on 13th June, 2020.
15. Participated in a Webinar on **“Emerging Trends in Nano-Materials for Microwave, Integrated electronics and cancer applications”** organized by Dept. of Basic Science and Humanities, GMR Institute of Technology, Rajam, on 04th June, 2020.
16. Participated in a Webinar on **“Three-day National level webinar on "Recent Trends in Materials Science (RTMS-2020)"** organized by Department of Physics, Science & Humanities held on August 19th to 21st Aug 2020.
17. Participated in a INTERNATIONAL WEB CONFERENCE ON **“RECENT ADVANCES IN SCIENCE (IWCRAS 2020)”** organized by Department of Physics, Dondosco college, held on 30th and 31st of July, 2020.
18. Participated in a webinar on **“Dielectric materials and their characterization studies in the microwave frequency region”** conducted on 14-08-2020, organised by Department of Basic Sciences & Humanities, Vignan's Institute of Management & Technology for Women, Hyderabad.
19. Participated in an International conference on **“Advanced Materials”** P.C. Jabin Science College, Hubballi, Karnataka, on 20th July 2020.

20. Participated in a National Webinar on **“Dating Geo- Archaeological Materials using luminescence”** organized by the Department of Physics, A.P.C. Mahalaxmi College for Women, Thoothukudi, on 17th July, 2020.
21. Participated in a **“Advanced Methods & Approaches of Teaching English, some strategies of effective learning”** organized by Department of Applied Science & Humanities (English) of Tirumala Engineering College, Narsaraopet, on August 02nd July 2020.
22. Participated in a National Webinar on **“Renewable Energy: Opportunities and Challenges Post Covid – 19”** Organized by Department of Physics, P.C. JABIN SCIENCE COLLEGE, HUBBALLI(A), on 25th June 2020.
23. Participated in an International Webinar on **“Communicative English Skills for Engineering students and faculty”** organized by MBITS in association with ASAP & TCS, on 28th to 30th June, 2020.
24. Participated in a **“Role of Spectroscopy in Material science for Engineering applications”** organized by dept. of Physics and chemistry under IQAC, SVCR Govt. Degree college, Palamaner, Chittor, under IQAC on 17th June 2020.
25. Participated in an International Webinar on **“Nanomaterials and Robotics”** organized by IQAC, Department of Physics & Electronics, Raja Lakhamagouda Science Institute(A) Belagavi, on 16th June 2020.

Online Quiz Programme attended: 2020

1. Online quiz on “General Science”, Mahatma Gandhi Institute of Technology, with score of 100%.
2. Online quiz on “PHYSIZ National Level online quiz” SOURASHTRA COLLEGE (AUTONOMOUS), on 6/11/2020 - 60%.
3. Online quiz on “ECET –EEE” organized by Department of Electrical and Electronics Engineering, VIVEKANANDA INSTITUTE OF TECHNOLOGY and science on 6/9/20 with score of 100%.
4. Online National Level online quiz on Engineering Physics held on 13-6-2020 organized by Department of Physics, JB Institute of Engineering and Technology, Hyderabad-75.

5. Online National quiz program on “Basic Principles of Physics” organized from 06-06-2020 to 12-06-2020.
6. online National Level Quiz on “Research Methodology” Organized by Computer Science & Computer Application Department of MIT Arts, Commerce and Science College, Alandi(D.), Pune on 26-5-2020.
7. Online quiz “COVID19 Online Awareness Quiz” Conducted from 11.06.2020 to 13.06.2020 by the Department of Science and Humanities, Dr.N.G.P Institute of Technology, Coimbatore-641048, Tamilnadu.
8. Online Quiz Competition on “World Environment Day 2020” organised by Maulana Azad Students’ Welfare Association on 5-6-2020,and scored 84%.
9. National Level Online Quiz on “Test your skills of Internet of Things(IoT)” organized by Department of Computer Application, MIT Arts, Commerce and Science College, Alandi(D.), Pune on 22-5-2020.
10. “Faculty Awareness Programme on NBA to keep in touch with NBA Accreditation” organised by Internal Quality Assurance Cell(IQAC), PACE Institute of Technology and Sciences, Ongole on 5/22/2020.
11. E-QUIZ ON HIGHER EDUCATION SYSTEM” organized by PG Department of Commerce (SF), Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020 from 18-05-2020 to 25-05-2020. We appreciate his/her valuable participation in enriching the events with 64%.
12. Participated in International day of light quiz competition organized by faculty of electrical and electronics engineering and institution’s innovation council of Noorul islam centre for higher education, Kumaracoil.
13. National level e-quiz on “Applied Chemistry” organised by Department of Chemistry (S&H), Usha Rama College of Engineering and Technology held on 14-7-2020 and secured 100%.
14. e-Quiz competition on “General Physics” organized by PG & Research Department of Physics, Muthurangam Govt.Arts college, Vellore-632 002, scored 100%.
15. National level e-quiz on “Application of Physics” organised by Department of Physics (S&H), Usha Rama College of Engineering and Technology held on 24-6-2020 and secured 100%.

Post-Doctoral Publication / Seminars/Workshops/Guest Lectures:

NIL

List of Publications in Journals

NIL

List of Publications (A Peer-Reviewed Journal)

NIL

Articles published in Book:

NIL

National Seminars

1. Participated in a National Seminar on **“Optical Characterization Techniques”**, organized by Department of Physics, Andhra Loyola College (Autonomous) Vijayawada-8, on 28th March. 2019.
2. Participated in a National Seminar and presented a paper in **“A review on gas sensing Applications”** organized by Department of Physics, Maris Stella College (Autonomous) Vijayawada-8, on 7th – 9th Nov 2019.
3. Participated in a National Seminar and presented a paper in **“Role of Er³⁺ ions on the spectroscopic properties of PbO-P₂O₅-As₂O₃-MO (III A Group Oxides) ”** organized by Department of Physics, Maris Stella College (Autonomous) Vijayawada-8, on 7th – 9th Nov 2019.
4. Participated in a National Seminar and presented a paper in **“Review on Thermoluminescence studies on some glasses for dosimetry applications”** organized by Department of Physics, Maris Stella College (Autonomous) Vijayawada-8, on 7th – 9th Nov 2019.
5. Participated in a National Seminar on **“Emerging Trends and Advances in Multi Functional Materials”** and presented a poster, organized by Department of Physics, Acharya Nagarjuna University, Guntur on 10th – 11th Dec 2019.
6. Participated in a **“5th AP Science Congress-2012”** and presented a paper in **“Influence of modifier oxides on the spectroscopic features of Nd³⁺ and Sm³⁺ in third session**, organized Acharya Nagarjuna University, Guntur on 14th – 16th Nov 2012.
7. Participated in an International Seminar on **“Science and Technology of Glass Materials”**, organized by Department of Physics, Acharya Nagarjuna University & P.G. Centre, Nuzvid, on 16th – 19th March 2009.
8. Participated in a National Symposium on **“Molecular Engineering of New Materials”**, organized by Department of Physics, Andhra Loyola College (Autonomous) Vijayawada-8, on 05th – 07th March. 2009.
9. Participated in a National Seminar on **“Physics of Non-crystalline Materials”**, organized by Department of Physics, Acharya Nagarjuna University & P.G. Centre, Nuzvid, on 29th – 31st

Dec 2004.

International Seminars

1. Participated in an International Conference and presented a paper in “**International conference on Innovations in Physics, Electronics & Chemistry**” with paper titled Influence of vanadium ions on dielectric properties of lead-calcium-borate glasses, organized by Andhra Loyola College (Autonomous) Vijayawada-8, on 21-22 Oct. 2019.

Workshops

1. Participated in a Five-day “**Workshop cum Hands-On-Training Programme in Gaussian and AIM software**”, organized by Centre for continuous Learning & Research (CCLR) of Andhra Loyola college in collaboration with DST-FIST, on 16th to 20th Sep 2019.
2. Attended A National Level Three Day Online Workshop on “**The Role of Industry and Academia in Building Institutions and Innovations**”, organized by Industry Institute Interaction Cell, Anurag University, Hyderabad. from 28th-30th May 2020.
3. Participated in a National Workshop on “**Material Characterization Techniques**”, organized by Department of Physics, KL (Deemed-to-be university), on 18th April. 2019.
4. Participated in a National Workshop on “**Nano Science and Technology for Device Applications**”, organized by Centre for Nano science and technology, KL (Deemed-to-be university), on 31st Oct. 2011.

Guest Lectures

Prizes

Social Activities

Articles in Newspaper

Events Organized