



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.aliel.ac.in :: Ph : 0866 - 2476161

FACULTY PROFILE

Name of the Faculty	Dr. K. Pandurangarao		
Designation	Assistant Professor in Physics	Date of birth 11/05/1983	
Department	Science & Humanities		
Date of Joining the Institution	02-01-2012	Native place : Suddapalli	
Qualification with Class/Grade	M. Sc (Condensed Matter Physics) with distinction from Acharya Nagarjuna University in 2005 M.Phil (Vacuum Science and Thin film Physics) with A grade from Acharya Nagarjuna University in 2011. Ph.D (Vacuum Science and Thin film Physics) from Acharya Nagarjuna University in 2022.		
Employee ID	ALIET-12-01		
E-mail	pandurangaraokankanala@gmail.com		
Total Experience in Years	Teaching: 17 years	Industry: 0 years	Research:8 years
Papers Published	Journals: 04	Articles in Books:Nil	
Papers presented in Conferences	National: 17	International: / Workshops: 05	
PhD Guide? Give field & University	Field:----	University: --	
PhDs / Projects Guided	00		
Books Published/IPRs/Patents	Nil		
Professional Memberships	Nil		
Foreign Projects	Nil		

National Project	Nil
Awards	Ph.D degree from Acharya Nagarjuna University
Grants fetched	Nil
Whether Ratified by University (Yes/No)	YES
Any Other Achievements:	APSET-2019 Qualified.
Subjects handled for Post Graduate Students: (M.Sc Physics) ie. from 2005 - 2008	• Mathematical Physics • Condensed Matter Physics • Atomic and molecular Physics • Resonance spectroscopy • Quantum Mechanics
Subjects handled for Under Graduate Students i.e. from 2005 - 2009	• Mechanics and Waves and oscillations • Thermodynamic and Optics • Electricity and Magnetism • Modern Physics and Electronic
Subjects handled for B. Tech 1 st year Students: CSE, ECE, Mech, IT, EEE, Civil 2012 to present	• Engineering Physics I and II • Engineering Physics • Applied Physics • Engineering/ Applied Physics lab and Virtual Lab
JNTU Kakinada Regulations	• R-10, R-13, R-16, R-19, R-20
Conferences/ Seminars / Workshops / FDP Organised @ ALIET	Three Day International Webinar on "FUNCTIONAL MATERIALS AND THEIR APPLICATIONS (FMA-2021) held from 25 th to 27 th March 2021
Other Responsibilities	ISO incharge from Physics Dept. and as well attendance incharge
<u>List of Conferences/Seminars attended and presented papers</u> 1. One day National workshop on “ Advanced Materials Characterization Techniques” conducted by Department of Physics, Sri Venkateswara University, Tirupati, AP 23rd March 2013. 2. Workshop on “ Advances in Electron Microscopy” AEM-2013, Sponsored by TEQUIP-II, 9-13 th December 2013, NITW, AP. 3. National Conference on “Engineering trends of Advanced Functional Materials” NCFAM-2015, Organised by Department of Physics, KLU, Vaddeswaram, Guntur, AP, 3-4th September 2015 4. A UGC Sponsored two-day National Conference on “ Need and Role of Nano sciences in the Present Era” (NRNSPE), Organised by Department of Physics (P.G), PBSCAS in association with Krishna university Machilipatnam, 7-8th October 2015, Vijayawada, AP. 5. National Seminar on Advances in Material Science, NSAMS-2015, 25-26 th November 2105, organised by Department of Electronics & Instrumentation Technology, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, AP.	

6. Centre for Nano science and Nano Technology, Training Programme on Synthesis and Characterization Techniques, 15-16th December 2017, Satya Bhama University, Jeppiar Nagar, Chennai, Tamilnadu.
7. A Two day National Seminar on “ Need and Role of Non Conventional Energy sources for sustainable future” 23-24th January 2018, organised by Department of Physics, ANR College ,Gudivada, Krishna Dt, AP.
8. National Conference on current developments in Functional materials and their applications (NCDFMA-2017), 22-23rd December 2017, organised by Department of Physics, KLU, Vaddeswaram, Guntur, AP.
9. UGC Sponsored one day national seminar on “Advanced Materials and Characterization” (AMC-2018), 26th October 2018, organised by Department of Physics, PBSCAS, Vijayawada, AP.
10. National Workshop on Advanced Materials and Applications (NWAMA-2018), 1-2nd December 2018, organised by Department of Semiconductor Research Laboratory, Department of Physics, Siksha O Anusandan (SOA) University, Bhubaneswar, Odisha, India.
11. National Seminar on Optical Characterization Techniques, organised by Department of Physics, Andhraloyola College, Vijayawada in collaboration with Indian Association of Physics Teachers (IAPT), 28th March 2019.
12. One day National Workshop on “Materials Characterization Techniques”, 18th April 2019, organised by Department of Physics, KLU, Vaddeswaram, Guntur, AP.
13. National Conference on Functionality of Advanced Materials (NCFAM-2019), 24-25th June 2019, organised by Division of Physics, S&H Department, Vignan Foundation for Science, Technology and Research, Vadlamudi, Guntur, AP, Co-Sponsored by Board of Research in Nuclear Sciences, Department of Atomic Energy and Atomic Regulatory Board.
14. UGC sponsored National Seminar on RECENT TRENDS IN NANOSCIENCE AND NANOTECHNOLOGY organized by the Department of Nanotechnology, Acharya Nagarjuna University, held during 30th and 31st January 2020.
15. UGC sponsored National seminar on BASIC RESEARCH AND ANALYSIS IN NANOSCIENCE (BRAIN-2021), organized by Department Of Nanotechnology, University College of Sciences, Acharya Nagarjuna University, Nagarjuna University, Nagarjuna Nagar- 522510, A.P., India,, held during 18th and 19th March 2021.
16. National seminar on Characterization Techniques of Materials (NSCTM 2021), organized by Department Of Physics, University College of

Sciences, Acharya Nagarjuna University, Nagarjuna Nagar- 522510, A.P., India, held during 26th and 27th March 2021.

17. International Conference on “Renewable Energy Research Education” (RERE-2018), 8-10th February 2018, Govt. Autonomous College, Rajamahendravaram, AP.
18. 2nd International Conference on Nano science and Engineering Applications (ICONSEA-2018), 4-6th October 2018, (Under TEQUIP-III), organised by Centre for Nano science and Technology, Institute of S&T, JNTU, Hyderabad, Kukatapally, 500085, Telangana, India.
19. One day International seminar on “Nano Technology for the Future Energy Challenges” (NTFEC-2018), 18th December 2018, organized by Andhrapradesh Academy of Sciences (APAS), Amravati & Department of Physics, PBSCAS, Vijayawada, AP.
20. International Conference on Innovations in Physics, Electronics and Chemistry- Andhra Loyola 2019 (ALCPS), 21-22nd October 2019, in Collaboration with IMRF institute of Higher education & Research, Vijayawada, India.
21. ACCMS-INTERNATIONAL CONFERENCE ON MATERIALS GENOME (ACCMS-ICMG-2020) organized by SRM university AP, India during 5-7th February 2020 in association with Asian Consortium on Computational Material Science, Institute of Mathematical Sciences, Chennai and Jawaharlal Nehru centre for Advanced Scientific Research, Bengaluru.

Faculty Development Programmes attended: 2020

Attended **Faculty Development Programme on Mathematical and Statistical Modelling** conducted by Godavari Institute of Engineering and Technology, Dept of Science and Humanities, on 26 May & 30th May 2020.

Attended **Faculty Development Programme on Advanced Material Characterization Techniques** conducted by Lendi Institute of Engineering and Technology, Dept. of Mechanical Engineering 28th May to 30th May 2020.

Attended **Faculty Development Programme on Scilab** organized by St. Peter's Engineering College (Autonomous) in Association with IIT Bombay, Dept. of Science and Humanities on 15-19th June 2020

Attended **Faculty Development Programme on Cyber security** conducted by Sinivasa Ramanujan Institute of Technology (A), Dept. Of ECE 23rd May to 27th May 2020

5. Attended **Faculty Development Programme**, Conducted by Dept. Of IT **Andhra Loyola Institute of Engineering and Technology** of Vijayawada, 18th June -June 20th 2020.
6. Attended **Faculty Development Programme on Modern research trends in communication, signal processing and VLSI/ MEMS**, Dept. of ECE, Andhra Loyola institute of Engineering And Technology, Vijayawada 19th -23rd May 2020.
7. Attended **Faculty Development Programme on Covid-19 as Global Crisis** :Application and appreciation of language and literature, Andhra Loyola Institute of Engineering and Technology, Vijayawada, from 12th May to 14th May 2020
8. Attended **Faculty Development Programme on Sustainable development with green technology: Precovid, covid and Postcovid** organized by Dept. of Chemistry, Anurag University, Hyderabad, and 11th - 13th June 2020.
9. Attended **Faculty Development Programme on Srujan-The way a head** based on the effective techniques conducted by Saraswati Institute of Technology, Navi Mumbai, - 1st-5th June 2020.
10. Attended **Faculty Development Programme on cutting-edge technologies for Electrical Engineering** conducted by Dept. of EEE, Andhra Loyola Institute of Engineering and Technology, Vijayawada, 18-22nd May 2020.

Online Webinars/Conferences/Seminars Attended in 2020-2022	100
Online Quiz Programme attended: 2020	65
Post-Doctoral Publication / Seminars/Workshops/Guest Lectures:	02

LIST OF PUBLICATIONS- International-04

- 1) Physical investigations on pulsed laser deposited nanocrystalline ZnO thin films
K. Srinivasarao · B. Rajinikanth · K. Pandurangarao · P.K. Mukhopadhyay, Appl Phys A (2012) 108:247–254
- 2) Studies on Magnetron sputtered deposited nanocrystalline tungsten oxide films useful for electrochromic devices, **K. Pandurangarao**, N. Purnachand, V. Ravi Kumar *Optical Materials* 101(2020) 109791.
- 3) Characterization and coloration efficiency studies using cyclicvoltammetry and chronoamperometric methods on TiO₂ doped WO₃ thin films, **K. Pandurangarao**, V. Chitti Babu, V. Ravi Kumar, N. Veeraiah, *Optik- International Journal for Light and Electron Optics*. 249 (2022) 168282
- 4) Preparation and characterization of nanocrystalline tungsten oxide thin films for electrochromic devices: Effect of deposition parameters, **K. Pandurangarao**, V. Ravi Kumar, *Materials Today: Proceedings* 19 (2019) 2596-2603.