

Name of Faculty Dr. M.SUBHADRA

Designation Assistant Professor

Nature of Job/Appointment Regular

Date of Joining 12 - 09 – 2012

E-mail msubhadra_physics@cbit.ac.in



Education Qualifications

	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Materials Science)	Awarded
PG	M.Sc P h y s i c s (Solid State Physics)	Distinction
UG	B. Sc (M.P.C)	Distinction

Work Experience

Teaching	21Years
Research	15 years
Industry	--
Others	--

Area of Specialization Material's Science

- Professional Memberships
- Lifetime Membership – International Journal for Research under Literal Access(IRJULA)
 - Life Member Indian Association of Physics Teachers No: 13976 L8959
 - Lifetime Membership, The Indian Science Congress Association, L43074

- Responsibilities held at Institution Level
1. Member, Maintenance committee
 2. Member, Women's Development Cell

- Responsibilities held at Department Level
1. Member BOS
 2. Member IQAC
 3. NAAC- Coordinator
 4. NBA- Coordinator
 5. ISO- Coordinator
 6. Department Library- Incharge
 7. Course coordinator
 8. In charge-Physics Lab
 9. Class in charge during sem1 & sem2

Research Guidance --

Awards Received UGC RFSMS Research Fellow ship
Research Ratna Award for the year 2019 by IRJULA

Courses Handled at Under Graduate / Post Graduate Level.

Engineering Physics, Applied Physics
Introduction to Mechanics and Electromagnetic Theory,
Optics and Semiconductor Physics,
History of Science and Technology,
Mechanics and Material's science

No. of Papers Published National Journals – International Journals – 10

Projects Carried out	--
Patents	--
Technology Transfer	--
Invited Speaker	--

No. of Books/Chapter Published with details	M.Subhadra, K.RajGopal, Y.Srinivasa Reddy and P.Kistaiah (2020), "Physical and dc Electrical Properties of Vanadium doped Mixed Alkali Bismuth Borate Glasses", e-book of full paper Proceedings of International e-Conference on Materials Processing & Characterization ICMP&C-2020,. ISBN: 978-81-946476-9-0, Page 68. Sep 18-19.
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Workshops/Seminars/Conferences/STTPS/FDPs Organized

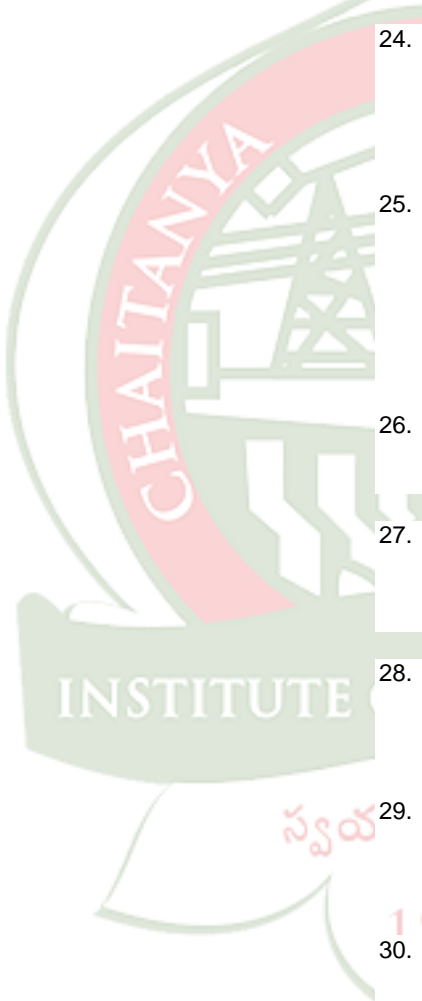
Details of Short-Term Training Programs / Faculty Development	1. Organizing member , Two day "2 nd International conference on Biotechnology and Interdisciplinary Technologies (i CBIT-2024)" organized by Departments of Biotechnology, Physics and Chemistry, CBIT, Hyderabad, Telangana during 13-12-2024 to 14-12-2024.
	2. Co-Coordinator , Guest lecture on "Our Nation's Challenges and what we Should do" Speaker Prof L.S.Ganesh Vice Chancellor, ICFAI Foundation for Higher education, Hyderabad, on 23-10-2024.
	3. Co-Cordinator , One Week Virtual International Level Faculty Development Programme on FUNDAMENTALS and ADVANCES in MAGNETIC MATERIALS (FAMM)", organized by Department of Physics, CBIT, Gandipet, Hyderabad, Telangana during 20-5-24 to 24-05-24.
	4. Co-Cordinator , National Level One Week Faculty Development Programme (Hybrid) on "National Education Policy 2020 - Challenges in implementation in Higher Education" organized by Department of EEE, IT, Physics, CBIT, Gandipet, Hyderabad, Telangana during 18-03-24 to 23-03-24.
	5. Coordinator , Two day "International-e-Conference on Materials Processing & Characterization (ICMP&C-2020)" organized by Department of Physics, CBIT, Gandipet, Hyderabad, Telangana during 18-09-2020 and 19-09-2020.
	6. Coordinator , One week on line FDP on "Student Induction & Universal Human Values" organized by Department of Physics, CBIT during 26-08-2020 to 30-08-2020.
	7. Co-Cordinator , of One week FDP on "Engineering Physics and Materials Science: organized by Department of Physics, CBIT, Gandipet, Hyderabad during 03-08-2020 to 07-08-2020.
	8. Member , Organizing Committee of Seven Day refresher course on "Bharatheeya Chaitanyam" organized by Gheervana Bharathi of Chaitanya Samskruti, CBIT, Gandipet, Hyderabad., during 29 th June 2020 to 5 th July 2020.
	9. Co-coordinator , One day workshop on "Recent Trends in Materials and Its Applications in Engineering"

"Organised by Department of Physics, at N Block Seminar Hall, CBIT, Gandipet, Hyderabad on 20th November 2019.

10. **Co-ordinator**, One day Seminar on "Physics and its applications in Engineering" at CBIT, Gandipet, Hyderabad on 13th March 2019.
11. **Member, Organising Committee**, One day Workshop on "Role of Physics in Engineering Curriculum, at CBIT, Gandipet, Hyderabad on 30th June 2017.


Workshops/Seminars/Conferences/STTPS/FDPs Attended

12. Participated and completed Two-day National Faculty Training Workshop on "Reviving Indian Knowledge Systems for Sustainable Development (IKSSD)", organized by the Centre for Indian Knowledge Systems, CBIT, Hyderabad, India sponsored by Indian Council of Social Science Research, Southern Regional Centre, Hyderabad during 12-04-2025 to 13-04-2025.
13. Participated in One Day In-House Workshop on NEW NBA EVALUATION GUIDELINES FOR UG(B.E/B.TECH) PROGRAMS IN ENGINEERING / TECHNOLOGY organized Internal Quality Assurance Cell (IQAC), CBIT, Hyderabad held on 22-02-2025.
14. Participated and completed one week online ATAL FDP on "Strategic Leadership in Manufacturing & Industry 4.0" organized by Department of SMS and CSE, CBIT(A) Gandipet, Hyderabad during 10-02-2025 to 15-02-2025.
15. Participated in One week online FDP on "Robotics and Industrial Automation" organized by Department of Mechanical Engineering, CBIT(A) Gandipet, Hyderabad, during 04-11-2024 to 09-11-2024
16. Participate in one day National level "All India Women Academicians Conference Envisioning New Bharat" organized by Akhil Bharatiya Rashtriya Shaikshik Mahasangh (ABRSM) in collaboration with Indian Council of Social Science Research (ICSSR) on 21-09-2024.
17. Participated in 1 week FDP on "Advances in Material Characterization and Data Processing (AMCDP-2024)" organized by Department of Physics, Anurag University, Hyderabad, Telangana, India during 15-07-24 to 20-07-24.
18. Participated in 8 week on "NPTEL- FDP on "Enhancing Soft Skills and Personality" organized by NPTEL FDP funded by MoE, Govt. of India, during 19-02-24 to 19-04-24.
19. Participated in National Level One Week Faculty Development Programme (Hybrid) on "National Education Policy 2020 - Challenges in implementation in Higher Education" organized by Department of EEE, IT, Physics, CBIT, Gandipet, Hyderabad, Telangana during 18-03-24 to 23-03-24.
20. Participated in Online National One Week FDP on "Current Science and Developments in Nanobiotechnology" organized by department of BioTechnology, CBIT(A), Gandipet, Hyderabad, during 29-01-2024 to 02-02-2024.

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21. Participated in One-week online FDP on "Quality Education through OBE" organized by Chaitanya Bharathi Institute of Technology (Autonomous), Gandipet, Hyderabad-500 075, Telangana India., in association with IEEE Education Society Student Branch Chapter, during 22-01-2024 to 27-01-2024.
22. Participated in one week FDP on "2D nano materials: Potential and Applications through ICT", organized by the department of Applied Science, NTTTR, Chandigarh at remote centre CBIT ,Hyderabad during 17-10-22 to 21-10-22.
23. Completed, "17 week course in Classical Mechanics-2" organized by Center for continuing Education, IIT, Kanpur from 15-08-2022 to 25-12-2022.
24. Participated in one week FDP on "Smart Material Processing and Applications", organized by the department of Applied Science, NTTTR, Chandigarh at remote centre CBIT ,Hyderabad during 25-07-22 to 29-07-22.
25. Completed, Five day International online FDP on "Emerging Trends in Nano Technology (ETNT-21)" organized by the department of basic science, Vishnu Institute of Technology, Bhimavaram, Andhra Pradesh in association with Physical Research Institute,Ahmedabad, Gujarat from 9-11-2021 to 13-11-2021.
26. Completed, One week Online workshop on "AICTE Incorporating Universal Human Values in Education (An AICTE Initiative)" from 27-09-2021 to 01-10-2021.
27. Completed, Three day online workshop on "Universal Human Values-II Understanding Harmony", Organized at CBIT, Gandipet, Hyderabad from 20-09-2021 to 22-09-2021.
28. Completed, one week National level online FDP on "Materials for Photonic Applications' organized by Dept. of Physics and Chemistry, MGIT, Gandipet, Hyderabad from 09-08-2021 to 13-08-2021.
29. Completed , one week online FDP on "Nano Sensors and Devices: organized by Department of Applied Science, NITTTR Chandigarh from 02-08-2021 to 06-08-2021.
30. Completed, two day online FDP on "Development of Students' Skills in Learning", Jointly Organized by Department of History & Faculty of Physical Science, Govt. Degree College, Dharmanagar , North Tripura in Collaboration with Department of Physics, Sao Chang College, Tuensang, Nagaland from 31-07-2021 to 01-08-2021.
31. Completed, one week online FDP on "Chemistry for Societal Advancements" organized by Department of Chemistry in association with AP Academy of Sciences Amaravathi, AP from 26-07-2021 to 31-07-2021.
32. Completed, "4 week course on The Story of Photoelectric effect", organized by Center for continuing Education, IIT Kanpur from 15-07-2021 to 17-08-2021.

33. Completed, "16 week course in Classical Mechanics-1" organized by Center for continuing Education, IIT, Kanpur from 26-01-2021 to 25-04-2021.
34. One week online FDP on "Recent Trends in Advanced Materials Science and Engineering Technology(RTAMSET-21)" organized by department of chemistry, CBIT(A) , Gandipet, Hyderabad from 08-03-2021 to 12-03-2021.
35. Completed, "16 week course in Classical Electromagnetism-1(Electrostatics) " organized by Center for continuing Education, IIT, Kanpur from 15-08-2020 to 13-12-2020.
36. One week online FDP on "Recent Trends in Advanced Materials Science and Engineering Technology(RTAMSET-21)" organized by department of chemistry, CBIT(A) , Gandipet, Hyderabad from 08-03-2021 to 12-03-2021.
37. Completed, "Two week Refresher Course in Engineering Physics" organized by Department of Applied Science, NITTTR, Chandigarh from 12-10-2020 to 23-10-2020.
38. One day Webinar on "Environmenal Issues and Challenges"organized by Department of Civil Engineering and Department of Sciences and Humanitites , Matrusri Engineering College on 15-09-2020.
39. National level one day awareness workshop on "Outcome based education and Accreditation – for Engineering Colleges", organized by G H Raisoni Instittue of Engineering &Technology,Nagapur on 11-09-2020.
40. Three day FDP on "Virtual Physics Labs" sponsored by TEQIP-III (NPIU-MHRD, Govt. of India) and organized by JNTUA college of Engineering(A) Ananthapuramu, A.P. in association with University college of Engineering & Technology, Bikaner Technical University, Bikaner(Raj.) during 07-09-2020 to 09-09-2020.
41. One day National level webinar in Physics on "Innovative Practices if Teaching & Learning in Sciences" organized by Department of Physics(Humanities &Sciences)Balaji Institute of Technology & Science Narsampet, Warangal on 21-08-2020.
42. One day National webinar on "A New Look at Energy and Sustainability" organized by Atma Ram Sanatan Dharma College, Dhaulakuan, New Delhi on 18-08-2020.
43. Completed,One week Online AICTE Recognised FDP on "Nano Electronics Devices& Circuits "Organized by Department of Electronics and Communication Engineering NITTTR, Chandigarh, Ministry of HRD, Govt. of India during 17-08-2020 to 21-08-2020.
44. One Week On line FDP on "The Role of Materials Science in Engineering: Applications Perspective" organized by Department of Physics and Chemistry, MGIT, Gandipet during 03-08-2020 to 07-08-2020.



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45. Participated in One Day National Webinar on “Applications of Fluid Mechanics in Engineering and Technology” organized by Department of Maths, CBIT , Gandipet, Hyderabad on 27.07.2020.
 46. Participated in One day workshop on "Materials processing and Technology" organized by Department of Physics & Chemistry, MGIT, Gandipet, Hyderabad on 27.06.2020.
 47. Participated in Three Day Online FDP on “Perovskite Solar Cells –An Emerging Photovoltaic Technology”, there are 3 sessions during the programme, Session I: Perovskite solar cells –Introduction held on 26th June 2020, Session 2: Device Architecture and Fabrication Techniques held on 27th June 2020 and Session3: Presentation on recent publications held on 28th June 2020, organized by Sreenivasa Institute of Technology and Management Studies, Chittoor. (26.06.2020 to 28.06.2020).
 48. Attended, One Week Webinar on “NAAC Online teaching Learning” organized by Inpods India Pvt. Limited. during 16th June 2020 to 20th June.2020.
 49. Attended, One day Online workshop on Intellectual Property rights” organized by Pandit Deendayal Petroleum, Gujarat. on 11th April 2020.
 50. Participated in one day Webinar on “Advanced Materials Processings” organized by Narasaraopeta Engineering College(NEC) , Dept . of Mechanical Engg., Narasaraopeta,AP. on 4th June 2020.
 51. Participated in One Week Online FDP on “Materials: Recent trends and Engineering Application” organized by GRIET, Kukatpally, from 2nd June 2020 to 7th June 2020.
 52. Participated in One Week Online FDP on “ Outcome Based Education and NBA Accreditation Process- (UG)” organized by CBIT, Gandipet, Hyderabad during 28th May.2020 to 1st June 2020.
 53. Participated in, One Week Online FDP on “Outcome Based Education” organized by Govt. College of Engineering Karad , Maharastra, (AICTE sponsored) during 11th May 2020 to 15th May 2020.
 54. Participated in One Week Online FDP on “Material Sciences: Synthesis and Characterization” organized by Dept. of Physics, Institute of Science, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Ujjain Road, Indore., during 11th May 2020 to 15th May 2020.
 55. Participated in Three day Online workshop on “Effective and Efficient teaching in the age of Corona –A Hands on Workshop” organized by Teaching Learning Centre (ICT) ,IIT Bombay. Funded by PMMMNMTT,MHRD. Interaction on 24th May 2020.
 56. **Completed**, Six Weeks online course on “Physics of Silicon Solar Cells” conducted by École Polytechnique through **Coursera** w.e.f 27th April 2020.
 57. **Completed**, Seven Week online course on “Programming For Everybody (Getting started with Python) conducted by University of Michigan through **Coursera** w.e.f 14th April 2020.

58. **Completed**, Eight Week online course on “Learning Physics Through Simple Experiments” organized by IIT Kanpur, during 2nd April 2020 to 10th June 2020.
59. **Completed**, Two Week online course on “Digital Transformation In Teaching Learning Process” sponsored by MHRD, TEQUIP 3, IIT Bombay during 6th April 2020 to 22nd April 2020.
60. Participated in One day National Seminar on “Intellectual properties Rights in Academic Research” organized by Intellectual Property Rights Cell , RBVRR Women’s College, Narayanguda, Hyderabad on 15th February 2020.
61. Completed, 12 weeks NPTEL online course on “NATE-NBA Accreditation” from 27th January 2020 to 26th April 2020.
62. Attended Guest lecture on “Light emitting diodes” organized by the department of physics ,CBIT Hyderabad-75 on 20th February 2020.
63. Completed, Three Weeks “Orientation Programme”, organized by UGC- HRDC, OU, Hyderabad during 4th July 2019 to 25th July 2019.
64. Participated in One week STTP on “NBA Accreditation “at CBIT in collaboration with NITTTR, Kolkata through ICT mode during 22nd April 2019 to 26th April 2019.
65. Attended, Two day National workshop on “Alternative Liquid Fuels in IC Engines(ALFICE-17) organized by the Department of Mechanical Engineering, CBIT and TEQUIP- held at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad during 17th February.2017 to 18th February 2017.

Details of Journal Publications/
Conferences (National and
International)
International Journal from the year 2010

1. Gowrinaidu Babbadi, Sateesh Pinninti, Akhilesh Kumar Patel, Ramesh Gandikota, Subhadra Maringanti, S.Shanmukha Rao Samatam, Shravan Kumar Reddy Somireddy, P.D.Babu and Suresh Gopinathwarrier Krishnawarrier (2025),” Phase Coexistence,Dual Transitions, Itinerant Magnetism,and Universal Critical Behavior of Ni-Substituted Mn(Co-Fe)Ge “, The Journal of Physical Chemistry C, Volume 129, issue 12, 20th March 2025.
<https://pubs.acs.org/action/showCitFormats?doi=10.1021/acs.jpcc.4c08331&ref=pdf>
2. Y.S.Reddy, M.Subhadra, C. Obula Reddy and K.RajGopal (2021),“The Challenges in Online Education at School Level”, International Journal for Innovative Research in Multidisciplinary Field,Volume 7, issue 4, April 2021 , ISSN: 2455-0620.
3. M.Subhadra, K.RajGopal, Y.Srinivasa Reddy and P.Kistaiah (2020), “ Physical and dc Electrical Properties of Vanadium doped Mixed Alkali Bismuth Borate Glasses”, e-book of full paper Proceedings of International e-Conference on Materials Processing & Characterization ICMP&C-2020,. ISBN: 978-81-946476-9-0, Page 68. Sep 18-19.
4. Chitpepu Obula Reddy,Yanala Srinivasa Reddy,Maringanti Subhadra &Kurapati Rajagopal ,(2020), “Effect of long-term storage on the fatty-acid profile of biodiesel and its impact on key ultrasonic

properties of biodiesels and blends", " , Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, DOI:10.1080/15567036.2020.1817193

5. Yanala Srinivasa Reddy , Chittepu Obula Reddy , Maringanti Subhadra & Kurapati Rajagopal, (2020), "Long – term storage effect on molecular interactions of biodiesels and blends", Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, DOI:10.1080/15567036.2020.1776798, June 16
6. .M.Subhadra, S. Sulochana and P.Kistaiah (2018), "Effect of V₂O₅ content on physical and optical properties of Lithium Bismuth Borate Glasses"., Materials Today: Proceedings, Volume 5, Issue 13, pp. 26417-26423.
7. M.Subhadra and P.Kistaiah (2012), "Infrared and Raman Spectroscopic Studies of Mixed Alkali Bismuth Borate glasses with Vanadium ions", Journal of Vibrational Spectroscopy, Volume 62, pp. 23-27.
8. M.Subhadra and P.Kistaiah (2011), "Electron paramagnetic resonance and thermal behavior of Vanadyl-doped mixed alkali bismuth borate glasses.", Journal of Non-Crystalline Solids, Volume 357, pp. 3442-3446.
9. M.Subhadra and P.Kistaiah (2011), "Effect of Bi₂O₃ Addition on Electron Paramagnetic Resonance, Optical Absorption, and Conductivity in Vanadyl-Doped Li₂O-K₂O-Bi₂O₃-B₂O₃ glasses", Journal of Physical Chemistry A, Volume 115, pp 1009 – 1017.
10. M. Subhadra and P. Kistaiah (2011), "Effect of Bi₂O₃ content on physical and optical properties of 15Li₂O – 15K₂O – xBi₂O₃ – (65-x) B₂O₃: 5V₂O₅ glass system", Physica B, Volume 406, pp. 1501 – 1505.
11. M. Subhadra and P. Kistaiah (2010) "Characterization and Optical absorption studies of VO²⁺: Li₂O - K₂O - Bi₂O₃ - B₂O₃ glass system", Journal of Alloys and Compounds, Volume 505, pp. 634 - 639.

International /National Conferences from the year 2017

12. M.Subhadra and Y.Aparna, (2024), "Role of Women in Envisioning New Bharath", All India Women Academicians Conference Envisioning New Bharat, organized by 1ABRSM in collaboration with Indian Council of Social Science Research held at Tagore Auditorium, O.U on 21st September 2024.
13. M.Subhadra, P.Kistaiah and M.Narasimha Chary, (2021), "EPR AND PHYSICAL PROPERTIES OF VANADYL IONS IN MIXED ALKALI BISMUTH BORATE GLASSES." Online International Conference on APPLIED PHYSICS AND MATERIALS SCIENCE (APMS-2021) 17th -19th December 2021, Department of Physics, VASAVI COLLEGE OF ENGINEERING (Autonomous), Hyderabad-31, Telangana, India.
14. M.Subhadra, K.RajGopal, Y.Srinivasa Reddy and P.Kistaiah (2020), " Physical and dc Electrical Properties of Vanadium doped Mixed Alkali Bismuth Borate Glasses", International e-Conference on Materials Processing & Characterization, held at Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad, Telangana, India, during 18th-19th September.
15. M.Subhadra and K.RajGopal (2020), "The behavior of Ultrasonic waves in long-term stored biodiesels and blends", International Conference on Advanced Materials Science and Applications (online) (ICASMA-2020), held at M.S.Ramaiah Institute of Technology, Bangalore, Karnataka, during 3-4th September.
16. M.Subhadra and P.Kistaiah, (2018), " Influence of V₂O₅ on Physical, Optical and Electrical Properties of Mixed Alkali Bismuth Borate Glasses." , 5th National conference on Applied Physics and Materials Science (APMS-2018), held at Vasavi College of Engineering (A), Imbrahimbagh, Hyderabad, during 7-8th September.
17. M.Subhadra , S. Sulochana and P.Kistaiah (2017), "Effect of V₂O₅ content on physical and optical properties of Lithium Bismuth Borate Glasses.", National seminar on Physics and Chemistry of Non-crystalline materials held at Kakani Venkata Ratnam College, Nandigama, A.P., India during 1st and 2nd December.