

Name of Faculty Dr. Ch. Indira Priyadarsini
 Designation Assistant Professor
 Nature of Job/Appointment Regular
 Date of Joining 28 – 08 - 2006
 E-mail priyadarshini_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Mechanical)	Awarded
PG	M. Tech. (Mechanical)	Distinction
UG	B. Tech. (Mechanical)	Second

Work Experience

Teaching 18 Years in CBIT & 3 years outside
 Research 3 years
 Industry 1 year
 Others --

Area of Specialization Mechanical: CFD, FEA, Renewable energy, Power plants, Automobile engg.

Professional Memberships SAE-7180410780, ASME-000103797825, ISTE-LM137433

Responsibilities held at Institution Level

- Faculty Coordinator SAE-CBIT: Our team participated in
 - Formula Imperial ,THub -2023
 - FORMULA BHARATH 2021
 - FSEV 2020,
 - SUPRA SAEINDIA 2019
 - FSAE UK-2017
 - FSAE ITALY-2015
 - Best Collegiate Club Award-2012.
 - SAE SUPRA
- Faculty Coordinator ASME-CBIT
- Nominated department faculty for the Activities related to UGC Quality Mandate
- Nominated department faculty for CBIT- IMRC, for inter disciplinary research activities
- Member in Energy audit committee

Responsibilities held at Department Level

- Member, PAQIC(PG-Thermal)
- In charge, CFD Lab
- In charge Department news letter
- Course Co-coordinator for ME(Thermal Engineering)

Research Guidance Guided UG/PG projects

Awards Received Best Teacher award-2018 by CBIT, Bharat Samman Nidhi Puraskar-2024

Courses Handled at Under Graduate / Post Graduate Level. Renewable energy sources, Power plant engineering, RM&IPR, Computational fluid dynamics, Finite element techniques, Machine drawing, Labs: Autocad, CAD/CAM, CAPD(Solid works), CAE(Ansys APDL), CFD(Fluent).

No. of Papers Published National Journals – International Journals – 53
 National Conference – 2 International Conference – 17

Projects Carried out --

Patents 1. Granted-1(202141044968), Published-2

Technology Transfer

- AICTE SPONSORED FDP ON SEISMIC AND WIND LOADS AND APPLICATIONS OF ETABS AND ANSYS FLUENT, 14-26 Dec, 2020, CIVIL, CBIT
- “History of Women in Science and Technology “SRRS Government Polytechnic, Siricilla, 08/03/2023

Invited Speaker

No. of Books/Chapter Published with details

1. R. Navaneetha, , Ch. Indira Priyadarsini, and T. Ratna Reddy, Research Developments in Science and Technology Vol. 5, Chapter 5, DOI: 10.9734/bpi/rdst/v5/6135F, B P International, May 2022, Print ISBN: 978-93-5547-670-8, eBook ISBN: 978-93-5547-671-5
2. M. V. S. Murali Krishna, N. Janardhan , S. Narasimha Kumar , K. Kishor1 , Ch. Indira Priyadarsini and Y. Nagini, Advanced Aspects of Engineering Research Vol. 9, DOI: 10.9734/bpi/aaer/v9/2004F, ISBN: 978-93-90888-74-0, eBook ISBN: 978-93-90888-79-5, 2021.
3. Finite Element Applications in Mechanical & Civil Engineering , ISBN: 978-93-85518-11-9, 2017
4. Alternative Liquid Fuels in IC engines ISBN: 978-93-85518-03-4, 2017

Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops/Other Trainings (Attended and/or Organized).

1. Attended FDP on NBA Accreditation and teaching learning, Jan-April, 2020, by Swayam NPTEL, MHRD.
2. Attended 7day webinar Series, 22-29 April,2020 by SAEINDIA and RIT in association with SAENIS Efficycle-2020.
3. Attended Design, Simulation and Development of Unmanned Aerial Vehicles (Drones) and Applications in Various Engineering Sectors”, 30April- 4 May 2020, by NAFEMS in association with Rajarambapu Institute of Technology, Islampur, Maharashtra and Ramachandra College of Engineering, Eluru, Andhra Pradesh.
4. Attended 3D Printing for Design and Advanced Development - Applications for Automotive Sector, Medical Devices, Missiles, Customized Gifts, Drones and Robots” 6-9 May, 2020 organized by NAFEMS in association with Rajarambapu Institute of Technology, Islampur, Maharashtra and Siddaganga Institute of Technology, Tumkuru, Karnataka from 6 to 9 May, 2020.
5. Attended Global online Proficiency Improvement Programme (oPIP) on “Vehicle Dynamics & Control with MATLAB”, 12-17 May 2020, jointly organized by ARAI, Pune in collaboration with Mathworks, AKA R International Pte. Ltd, Singapore & RIT, Sangli.
6. Attended FDP on Artificial Intelligence, 22-26 May 2020 by the Department of Information Technology, CMR Engineering College, Hyderabad, in collaboration with NYCI & Brainovision Solutions India Pvt.Ltd Supported by AICTE, IIC,ISTE and Institute of Engineers.
7. Attended CAE Driven product design, 23-27 May, 2020, organized by Altair Pvt. Ltd., SAENIS Efficycle, Automobile Engineering Dept., Rajarambapu Institute of Technology, KITS College, Maharashtra.
8. Attended FDP On Outcome based education and NBA Accreditation process (UG), 28 May to 1 June, by Chaitanya Bharathi Institute of Technology.
9. Attended A National level FDP on SCILAB Open source substitute for MATLAB, 25-30 May, 2020, by JNTUH Sultanpur, Spoken Tutorial Project- an initiative National Mission on Education through ICT, MHRD, Government of India, IIT Bombay, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching-Government of India.
10. Attended National Level One Week Online Short Time Training Program on " MATLAB for ALL " 4-8 June, 2020 organized by the Department of Electrical and Electronics Engineering , SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, Bangalore.
11. Attended One Week STTP on, Implementation of Advanced Optimization Techniques using MATLAB, 1-6 June, 2020, Organized Under RIT-Center for Teaching and Learning (RIT-CTL).

Details of Journal Publications/ Conferences (National and International)

International/ National Journals from the Year 2017

1. T.Ratna Reddy, Ch.Indira Priyadarsini, “Intake Manifold Flow Study using Numerical Method with all Runners Opened”, International Journal of Scientific Research in Science and Technology, Print:2395-6011 | Online: 2395-602X, <https://doi.org/10.32628/IJSRST229358>, Vol.9,No.3, pp.232-238 May-22.
2. Ch.Indira Priyadarsini, Dr.T.Ratna Reddy, Kiran Kumar Ammireddy, “Numerical analysis of interchangeable battery container”, International journal of research and analytical reviews E-ISSN 2348-1269, P- ISSN 2349-5138, <http://doi.one/10.1729/Journal.30123>, Vol.9,No.2pp.173-180,May-22.

3. P.AnjaniDeviCh. Indira priyadarsini, Chandu Avvari, "Design of folded wing mechanism for Unmanned Aerial Vehicle (UAV)", <https://doi.org/10.1016/j.matpr.2022.04.660>, 2214-7853 Vol.62, part 6, Elsevier pp.4117-4125, Apr-22
4. Ch.Indira Priyadarsini, Dr.T.Ratna Reddy, P.Anjani Devi, "Design and Performance Analysis of Automotive Radiator using Computational Fluid Dynamics", International Journal of Mechanical Engineering, Published By: Kalahari Journals, scopus, ISSN:0974-5823 Cite Score:5.2, Impact Factor : 2.1, Vol.7, No.3, pp. 522-527, Mar-22
5. T.Ratna Reddy, Ch.Indira Priyadarsini, "Effect of nanofluid volume fraction on heat transfer rate in a pipe flow", GIS SCIENCE JOURNAL, ISSN NO : 1869-9391, DOI:20.18001.GSJ.2022.V9I3.22.3925, Vol.9, No.3, pp. 1589-1595, March-22
6. T.Ratna Reddy, Ch.Indira Priyadarsini, N.Chandra Sekhar, "Slosh and squish effect of fluid level in a tank with baffles", NOVIY MIR Research Journal, ISSN No: 0130-7673, DOI:16.10098.NMRJ.2022.V7I2.256342.2019 Vol.7, No.2, pp. 51-58, Feb-22.
7. Ch.Indira Priyadarsini, Dr.T.Ratna Reddy, Dr.G.Laxmaiah, M.SubhaPradha, "Study of heat transfer in solar collector with water-nano fluid mix", NOVIY MIR Research Journal, Publisher: IZD STVO IZVESTIYA, ISSN No: 0130-7673, DOI:16.10098.NMRJ.2021.V6I6.256342.1872 Vol.6, No.6, pp.73-79, June 21.
8. Ch.Indira Priyadarsini, T.RATNA REDDY and K. Bhavana, "Optimisation of desiccant wheel with control volume method" NOVIY MIR Research Journal, IF 6.1, Publisher: IZD STVO IZVESTIYA ISSN No: 0130-7673, DOI:16.10098.NMRJ.2021.V6I5.256342.1853 Vol.6, No.5, pp.83-89, May-21
9. Ch.Indira Priyadarsini, T.Ratna Reddy, Rajesh chitimireddy, Strut flame holder performance for supersonic combustion using computational fluid dynamics, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P-ISSN 2349-5138, Volume.7, Issue 3, Page No pp.631-635, DOI (Digital Object Identifier) - <http://doi.one/10.1729/Journal.23995>, IF:5.75, UGC: Thomson Reuters, Elsevier:Mendeley, July 2020.
10. T.Ratna Reddy, Ch. Indira Priyadarsini, Effect of Fin Cross Section on Shell and Tube Heat Exchanger using CFD, International Journal of New Innovations in Engineering and Technology, ISSN: 2319-6319, Volume 14 Issue 1 June 2020. Thomson Reuters, Web of Science: RID: G-4542-2016, UGC-47645, IF:4.012.2020.
11. Ch.Indira Priyadarsini, Sambaraju Abhiram, Rajesh chitimireddy, Ankur Shukla, Angle of Attack effect on NACA4404 used in remote-control fixed wing planes, IJAR2004258, (E-ISSN 2348-1269, P-ISSN 2349-5138), Volume 7, Issue 2, DOI (Digital Object Identifier) - <http://doi.one/10.1729/Journal.23502>, IF:5.75, UGC: Thomson Reuters, Elsevier:Mendeley, April 2020.
12. Indira Priyadarsini, M.Shubhapradha, Design of Mini Tractor Cage Wheel For Wet Land Ploughing, International Journal of New Innovations in Engineering and Technology, ISSN: 2319-6319, Volume 13 Issue 1 February 2020. Thomson Reuters, Web of Science: RID: G-4542-2016, UGC-47645, IF:4.012.2020.

International /National Conferences from the Year 2017

1. R. P. Chowdary; Ch. Indira Priyadarsini; V. Jaipal Reddy; P. Anjani Devi; A. Chandrakanth; T. N. Aditya, Solar Powered Sensors for Efficient Routing without Power Constraints, DOI: 10.1109/ICIPTM57143.2023.10118005, IEEE Xplore: ISBN:979-8-3503-3624-5, 2023
2. Dr.T.Ratna Reddy, Ch.Indira Priyadarsini, R.Navaneetha, Design and Analysis of Impeller using Corrosion Resistant Materials Vol.2317, No1 <https://doi.org/10.1063/5.0036476>, AIP Conference Proceedings 2317, 040003, MLRIT, Feb 2021.
3. Effect of Cone Angle on Performance of Catalytic Converter, ISBN 978-81-948668-1-7, 5th International Multidisciplinary Research Conference (IMRC-2020), OU.
4. Ch.Indira Priyadarsini, Rajesh Chitimireddy, Sambaraju Abhiram, Angle of attack effect on ornithopter airfoil S1020, ISBN 978-93-5406-579-8, 2 nd International Conference on Recent Trends in Engineering Technology and Management, Sreyas Institute of Engineering and Technology, in association with IEEE Organization, Hyd, June 2022.
5. Ch Indira Priyadarsini, A Akhil, V Srilaxmi Shilpa, Non-premixed Combustion Analysis on Micro-Gas Turbine Combustor Using LPG and Natural Gas, Recent Trends in mechanical Engineering, Springer, Singapore, First Online 12 January 2020, DOI https://doi.org/10.1007/978-981-15-1124-0_6, Publisher Name Springer, Singapore, Print ISBN 978-981-15-1123-3, Online ISBN 978-981-15-1124-0.