

RESUME

Avesahemad Sayyadnaimutulla Husainy.

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Current Position- Assistant Professor in Mechanical Engineering Department and Member Secretary of Research and Development at Sharad Institute of Technology College of Engineering Yadrav-Ichalkaranji-Maharashtra-India

Professional Summery-

As an Assistant Professor and Member Secretary of Research and Development cell with over 9 Years of successful experience in Mechanical Engineering Department at Sharad Institute of Technology College of Engineering, Yadrav. Recognized consistently for performance excellence and contributions to success in Education and Research in the field of Refrigeration and Air-Conditioning, Renewable Energy, Thermal Engineering Food Cold Chain, etc.

Work History-

- Contributed to planning appropriate and engaging lessons for both classroom and distance learning applications.
- Supported weekly Research lab sessions, contributing to student engagement through lectures, comprehension and learning objectives.
- Established research agenda in Mechanical field to publish in peer-reviewed journals.

- Facilitated academic and community collaborations to increase number of community-engaged research proposal submissions to extramural funders. Also Collaborated with colleagues on curriculum revision, evaluation of course syllabi and lesson plans for Mechanical Engineering curriculum.

Skill-

- Student Mentoring
- Student Evaluation
- Student Program Coordination
- Student Counseling
- Student Resource promotion
- Student Development
- Guiding Students
- Student Advisory
- Student Research guidance
- Motivating Students
- Student Empowerment

Experience-

Industry Experience		
Job Title	Name of Company	Period
Service Engineer	Fyico Engineering Works, Hatkanangle	04/09/2008 - 15/9/2009
Trainee Engineer	Ghatge Patil Industry Kolhapur	12/09/2011 - 10/06/2012

Teaching Experience		
Job Title	Name of Organization	Period
Assistant Professor (Dept. of Mechanical Engineering)	Sharad Institute of Technology College of Engineering, Yadrav	12/06/2012 - Till Date

Qualification Details-

Sr. No	Degree	University	Performance	Year of completion
1	Ph.D Research Scholar	Shivaji Univerity, Kolhapur	Pursuing	
2	Master of Engineering in Heat and Power Engineering	Shivaji Univerity, Kolhapur	First Class with Distinction with 70.89%	2015
3	Bachelor of Engineering	Shivaji Univerity, Kolhapur	First Class with Distinction with 69.35%	2012
4	Diploma in Mechanical Engineering	M.S.B.T.E.	First Class with Distinction with 79.37%	2009

Professional Membership-

1. Member of ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers)
2. Member of ASHRAE (American Society of Heating, Refrigerating and Air Conditioning Engineers)
3. Member of International Association of Engineers.

Book Publications-

1. Solar Drying Technology for Turmeric (Curcuma longa).

ISBN: 978-613-9-85078-5

Editor:bdragoi

Europe

2. Fundamentals of Nanofluids.

ISBN: 978-620-2-78819-9

Editor:bdragoi

Europe

3. Performance Improvement of V.C.R. By Electro Hydrodynamic Effect.

ISBN: 978-3-659-41459-6

Editor:bdragoi

Europe

Subject Taught-

1. Basic Mechanical Engineering
2. Basic Thermodynamics
3. Applied Thermodynamics-I
4. Applied Thermodynamics-II
5. Fluid and Turbo Machinery
6. Refrigeration and Air-Condition
7. Renewable Energy Source
8. Testing and Measurement

Glance of Award/Achievement-

1. Best paper award in 4th International Conference on Emerging Technologies Micro to Nano ETMN-2019, Organized by Savitribai Phule Pune University (SPPU), Pune & Manipal University, and Jaipur during 17 Dec 2019 on title, Reducing Temperature Fluctuation of Refrigeration System by Incorporating Nano-Phase Change Materials.
2. Best paper award in National conference on recent trends in Engineering and Technology, At SITCOE, Yadrav on title Design and experimentation on mixed mode natural convection solar dehydrator for Ocimum Sanctum during 24th March 2018.
3. Best Teacher Award 2019-20 for excellent contribution to the academic achievement at Sharad Institute of Technology College of Engineering, Yadrav.
4. My Guided Project won First Prize in Dipex-2019 (Maharashtra and Goa State) in Refrigeration Category on Title, " Designing the Wheelchair to mitigate the bed sores for human comfort by the application of heat pipe".
5. My Guided Project won First Prize in Dipex-2020 (Maharashtra and Goa State) in Refrigeration Category on Title, "Develop IOT based Deep freezer to reduce temperature fluctuation by incorporating Graphene Nano particle mixed with PCM".

6. My Guided Project won First Prize in Dipex-2020 (Maharashtra and Goa State) in Agricultural Category on Title," Development of PV assisted solar dryer with desiccant storage for dry fruits application".
 7. Received ISHRAE Project Grant on Title, "Designing of Wheelchair to mitigate the bed sores by using heat pipe application" having amount 37,500/Rs. in the year 2018-19.
 8. Received ISHRAE Project Grant on Title, "Performance improvement of Vapour Compression Refrigeration by electro hydrodynamic effect" having amount 42,500/Rs. in the year 2019-20.
 9. My Guided project represented AICTE Vishwakarma Award-2019 regional conventional at Oriental University, Bhopal on Title,"Multicrop Solar Dryer for betterment of rural life through improving Income"
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National and International Publications and Conference:

1. Mixed mode forced convection sun dryer for chili and turmeric drying in International Research Journal of Modernization in Engineering Technology and Science, Volume 2, Issue 5, 2020.
2. Evaluation of Bio-Fouling Effect in Cooling Tower by Chemical Treatment in International Journal of Recent Technology and Engineering (IJRTE), Volume 8, Issue 3, 2019.
3. Performance Study of Ducted Air-Conditioning System with Different Mass Fraction of Al₂O₃ Nanofluids, Asian Review of Mechanical Engineering, Volume 8, Issue 1, 2019.
4. Performance Improvement of Ducted Air-Conditioning System with Different Mass Fraction of CuO Nanoparticles Mixed in POE Oil, Asian Review of Mechanical Engineering, Volume 4, Issue 4, 2019.
5. Development of Reflector Integrated Solar Cooker and their Waste Heat Recovery for Drying Application, International Research Journal of Engineering and Technology, Volume 6, Issue 1, 2019.
6. A Glance on Solar Cooking Technology in India, International Journal for Scientific Research & Development, Volume 6, Issue 12, 2019.

7. Design, Analysis and Fabrication of Hydraulic Scrap Baling Machine, Asian Review of Mechanical Engineering, Volume 8, Issue 1, 2019.
8. A Glance on Preparation, Stability, Properties and Applications of Nanofluids, Asian Review of Mechanical Engineering, Volume 7, Issue 2, 2018.
9. Experimental Investigation of Mixed Mode Forced Convection Solar Dryer for Turmeric (*Curcuma Longa*), Asian Review of Mechanical Engineering, Volume 7, Issue 1, 2018.
10. Review of Waste Heat Recovery from Household Refrigerator, Journal for Research, Volume 3, Issue 8, 2017.
11. Review Paper on Phase Change Material for Lower Temperature Application used in Domestic Refrigerator, Volume 3, Issue 8, 2017.
12. Development on Mixed Mode Solar Dryer for Ginger, International Journal of Engineering Research in Mechanical and Civil Engineering, Volume 2, Issue 2, 2017.
13. Thermal Energy Storage in Solar Water Heating System by Using Paraffin Wax P- 60, International Journal of Engineering Research in Mechanical and Civil Engineering, Volume 2, Issue 2, 2017.
14. Review on Direct, Indirect and Mixed Mode Solar Dryer, International Journal of Engineering Research in Mechanical and Civil Engineering, Volume 2, Issue 2, 2017.
15. Experimental Study of Double Slope Solar Distillation with and without Effect of Latent Thermal Energy Storage, Asian Review of Mechanical Engineering, Volume 6, Issue 2, 2017.
16. Design Development and Performance Evaluation of Indirect Forced Convection Solar Dryer for Grapes, International Journal for Scientific Research & Development, Volume 3, Issue 3, 2015.
17. Performance analysis of a solar grape dryer with thermal energy storage by PCM, IRJET, Volume 2, Issue 7, 2015.
18. Cooling of Solar Photovoltaic Panel by Implementing Fins and Phase Change Material on Back Surface, Journal of Advanced Research in Mechanical Engineering and Technology, Volume 7, Issue 3, 2020.
19. Development of Low-Cost Natural Cooling Chamber for Preservation of Vegetables and Fruits in Rural Area, Journal of Advanced Research in Mechanical Engineering and Technology, Volume 7, Issue 3, 2020.

20. Opportunities in Latent Thermal Energy Storage by Phase Change Material for Lower Temperature Applications: A Review, Journal of Advanced Research in Mechanical Engineering and Technology, Volume 7, Issue 3, 2020.
 21. A Review on Properties and Scope of Nano-Phase Change Material for Lower Temperature Applications, Journal of Advanced Research in Manufacturing, Material Science & Metallurgical Engineering, Volume 7, Issue 1, 2020.
 22. Development of Low-Cost Natural Cooling Chamber for Preservation of Vegetables and Fruits in Rural Area, Journal of Advanced Research in Mechanical Engineering and Technology, Volume 7, Issue 3, 2020.
 23. Development of IoT Primarily Predicated Observance System for Home Quarantine Person throughout COVID-19, Journal of Engineering Design and Analysis. Volume 3, Issue 2, 2020.
 24. Opportunities to Improve Income of Rural Areas by Solar Drying Technology: Review, Journal of Alternative and Renewable Energy Sources, Volume-6, Issue-2, 2020.
 25. A Glance on Solar Drying Technology for Dry Fruit Potential, Journal of Alternative and Renewable Energy Sources, Volume-6, Issue-2, 2020.
 26. Latent Energy Storage for Water Heating Prototype for Domestic Application, Journal of Modern Thermodynamics in Mechanical System, Volume-6, Issue-2, 2020.
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Departmental Responsibility-

- Faculty Co-ordinator of MESA.
- Faculty Co-ordinator of ISHRAE Student Chapter SIT COE.
- Editor of Departmental Technical Magazine "NOESIS".
- Editor of Departmental Newsletter "APEX".
- Member of college News and Advertising Committee.
- Member of College Cultural program Committee.

NAAC AND NBA Responsibility-

- Handling Departmental file of Professional Society.
- Handling Departmental file of Student Performance.
- Handling Departmental file of Activity Conducted and Participated

- Handling file of student's co-curricular and extracurricular activities.
- Handling Departmental Criteria 4 as a (Head), Criteria 4 is relevant with Student Performance.

Autonomous Work-

Preparation of Syllabus of Subjects, Basic Thermodynamics, Applied Thermodynamics, Fluid and Turbomachinery, Applied thermodynamics Lab, Fluid and Turbomachinery Lab, HVAC

STTP Work-

1. Co-cordinator of AICTE Sponsored, DBatu organized one week faculty development program on Micromachining Technology for Future products arranged on 11 to 15th Jan 2020.
 2. Co-cordinator of ISTE sponsored one week faculty development program on Modelling and Optimization Technique arranged on 1 to 5th June 2020.
 3. Co-cordinator of DBatu Sponsored one week faculty development program on Net Zero Energy Building arranged on 10 to 14th August 2020.
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Additional Responsibility-

1. Worked as K-12 Activity Chair of ISHRAE Kolhapur-Sangli Sub Chapter in year 2015-2017.
 2. Working as a Student Chair of ISHRAE Kolhapur-Sangli Sub Chapter in year 2018-2020.
 3. YEA Chair in ISHRAE Kolhapur-Sangli Sub Chapter in year 2016-2017.
 4. Working as a SPOC of Smart India Hackathon, AICTE, New Delhi of SITCOE, Yadrav.
 5. Working as Member Secretary of Research and Development at SITCOE, Yadrav.
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Area of Specialization-

1. Thermal Engineering
 2. Solar Energy
 3. Refrigeration and Air-Conditioning
 4. HVAC
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Research Project Guided for U.G. Level-

1. Design and development of indirect mode Forced convection Solar Dryer for Grapes.
2. Thermal Energy Storage in solar water heater by phase change material using Paraffin Wax.
3. Performance Evolution of Biofouling effect in Cooling Tower by chemical treatment.
4. Performance Analysis of Mixed mode Forced Convection Solar Dryer for Turmeric with Turbulators.
5. Performance Improvement in Temperature Fluctuation on Domestic Refrigerator during Power Cut off By Phase Change Material.
6. Design and Development of VCR waste heat recovery unit for food Reheating/Drying.
7. Performance Investigation of Ducted Air-Conditioning System with Different Mass Fraction of CuO Nanoparticles Mixed in POE Oil.
8. Performance Study of Ducted Air-Conditioning System with Different Mass Fraction of Al₂O₃ Nanoparticle.
9. Designing the Wheelchair to mitigate the bed sores for human comfort by the application of heat pipe
10. Develop IOT based Deep freezer to reduce temperature fluctuation by incorporating Graphene Nano particle mixed with PCM.
11. Development of PV assisted solar dryer with desiccant storage for dry fruits application.
12. Performance improvement of Vapour Compression Refrigeration by electro hydrodynamic effect.

Visiting Institute for Expert Talk-

1. Visited as expert lecturer for Applied Thermodynamics at Sanjeevan engineering and technology institute, Pannala.
 2. Visited as expert lecturer for Heat and Mass Transfer at D. Y. Patil Technical Campus, Talsande.
 3. Visited as expert lecturer for Thermodynamics at DKTE Polytechnic Campus, Ichalkaranji.
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Glimpses of Workshop/Training

1. Attended one day workshop on Recent Alternative Refrigeration by Mr. S. Bhattacharya (Country Manager) SRF LTD, New Delhi.
2. Attended Expert Lecture on Energy Labeling, by Mr. Rahul Pathak (Emerson Climate Technology, Pune)
3. Completed training on Energy Labeling and Star Rating by Emerson Climate Technology, Pune.
4. Giving Training to all Showrooms (Refrigerator, Air-Conditioner) in Kolhapur and Sangli by our ISHRAE team.
5. Attending ACREX-2016 in BIEC, Mumbai.
6. Attended ACREX-2019 in BIEC, Greater Noida, Delhi
7. Attending workshop of Best Practice in Operation System for Cold Storage and Dairy Plants under ASHRAE Pune Chapter.
8. Attended Two week ISTE workshop conducted by IITB on Fluid Mechanics organized by SITCOE, Yadrav.
9. Attended Two week ISTE workshop conducted by IITB on Environmental Studies organized by SITCOE, Yadrav.
10. Attended Two week ISTE workshop conducted by IITB on Thermodynamics organized by SITCOE, Yadrav.
11. Attended One day workshop on Teaching Methodology for Basic Mechanical Engineering at KIT, Kolhapur.
12. Attended One day workshop on Teaching Methodology for Applied Thermodynamics at SITCOE, Yadrav.
13. Attended One week faculty development program on Research Opportunities at SITCOE, Yadrav.
14. Attended One week faculty development program on Technical Pedagogy at SITCOE, Yadrav.
15. Completed One Day Personality Development at Sangli organized by Mirror Foundation.
16. Attended One day Conference on Cold Chain Management at Sayaji, Kolhapur organized by ISHRAE Pune and ISHRAE KSSC Chapter.
17. Attended Two Day STTP on Recent Trends in HVAC & R at TKIET, Warnanagar.
18. Attended One Week STTP on Outcome Based Education, organized by SITCOE, Yadrav.
19. Completed National online Training on Intellectual Property Rights and Patent Facilitation

organized by MIT-ADT University, Pune on 18 to 20th May 2020.

20. Completed One week online faculty Development program on Experiences in Solar Energy: Challenges and Opportunities organized by PCCOE, Pune between 8 to 13th June 2020.
 21. Attended One Week STTP on Outcome Based Education, organized by Gov. College of Engineering, Karad between 11 to 15th May 2020.
 22. Attended One Week AICTE Sponsored, DBatu organized faculty development program on Micromachining Technology for Future products arranged on 11 to 15th Jan 2020.
 23. Attended One Week ISTE sponsored one week faculty development program on Modelling and Optimization Technique arranged on 1 to 5th June 2020.
 24. Attended One Week DBatu Sponsored one week faculty development program on Net Zero Energy Building arranged on 10 to 14th August 2020.
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DECLARATION

I hereby declare and confirm that the above mentioned information is true to the best of my knowledge and belief.



Place: Miraj

Mr.Avesahemad S.N. Husainy