Curriculum – Vitae

Dr Ramakant Shrivastava
Professor, Mechanical Engineering
Government College of Engineering, Karad
(An Autonomous Institute of Government of Maharashtra)
Cell: +919420760298,
E-mail: ramakant.shrivastava@gmail.com

1. Present Responsibility : Professor , Dean Quality Assurance

3. Date of birth : February 21, 1967

4. Academic qualifications

Ph D (Mech Engg) Indian institute of Technology Roorkee, 2009 A Grade, A+ Course work	M Tech(Mech Engg) Indian institute of Technology Madras,1988 9.7 CGPA	B E (Mech Engg) Shri G S Inst of Tech and science, Indore (M P),1987 76.0%

GATE 1987 score: 99.9 percentile

5. Details of Experience (in Reversed Chronological order)

Designation	**Name of the institution/organization**	**Period of service**	**Nature of duties**
professor	Government College of Engineering, Aurangabad Under Directorate of Technical Education , Maharashtra state, Selected by state Public service Commission as Professor	June 1, 2023 - cont	As Professor Administration and Development work of the institute , Dean Quality assurance AICTE, DTE work, Teaching
professor	Government College of Engineering, Karad Under Directorate of Technical Education , Maharashtra state, Selected by state Public service Commission as Professor	Aug 2017 to May 31, 2023	Department Administration and Development, AICTE, DTE work, Teaching
Associate Professor	Government College of Engineering, Aurangabad Directorate of Technical Education , Maharashtra	June 2011 – July 2017	NBA AICTE work, Implementation of academic autonomy, TEQIP – II, Steering

			department for development as Head.
Associate Professor	Government College of Engineering, Jalgaon Directorate of Technical Education , Maharashtra	August 2008 to June 2011	Head of Department Mechanical Engineering Implementation of TEQIP - I
Lecturer	Government College of Engineering, Aurangabad Directorate of Technical Education , Maharashtra	March 1996 to July 2008	Teaching, Lab Establishment, Curriculum Development
Assistant Executive Engineer	BRDB, Under Ministry of Surface Transport, GOI Indian allied services	Feb 1991 to Feb 1996	Administrative and technical duties of Road Construction work.
Lecturer	Shri G S Institute of tech and Sc, 23 Park Road, Indore M P	April 1989 to Jan 1991	Teaching, Lab Establishment, Curriculum Development

6. Nature of work:

More than 28+ years of teaching, research and administrative, that includes -

- Institutional development and administration, Policy framing and implementation , quality assurance, accreditation through NBA, NAAC, ISO and other agencies
- Curriculum design, modifications as per CBCS and OBE of autonomous college.
- Design, implementation and administration of training programs to the Engineering students, according to industry demand.
- Design, implementation and administration of laboratories
- Worked as member,/chairman in AICTE/ DTE/ university committees for inspection, intake variation of colleges, research recognition committee
- Guided more than 300+ under graduates and postgraduate dissertations
- Empanelled on MPSC, AICTE, DTE Maharashtra for various assignment
- Chairman of BOS, DRC at GEC Aurangabad / Karad

7. **Award**: Mentor for Chatra Vishwakarma Award (National Level) 2020, confirmed by Hon. Minister of Education Dharmendra Ji on 5 September 2021 at AICTE, New Delhi.

Project Title: *Air conditioned PPE Kit*" first prize under category Working condition: ensuring Occupational health and safety issues, Project students are Charudatt Jagtap, Nikhil Bhise, Akshay Gawade, other mentor: Dr S P Deshmukh. Clinical trials conducted at Krishna Medical University, Karad.

8. Membership of professional bodies:

- American society of heating refrigeration and air conditioning engineers (ASHRAE)

- Indian society of heating refrigeration and air conditioning engineers (ISHRAE);
- Life member - Indian society of technical education (ISTE),
- Rest Society for Research International (RSRI),
- Fire and Security Association of India (FSAI)
- Indian society of Heat Transfer

8. Major area of research : Two- phase heat transfer, Heat exchanger, Refrigeration systems, flow measurement, Corrosion

9. Publications

International Journals:32* International conference: 45
National journals : 01 National Conference : 10
* Only Peer Reviewed, referred Journals

10. Scholarships

Residential school GOI1977 National merits : 1982
M Tech 1987 Ph D (QIP) : 2004

11. Doctoral research Guided (Ph D):

Awarded: 05, presently registered: 03

12. Subject taught

Post graduate Research methodology, Engineering experimental techniques, Numerical methods, Robotics, Microprocessor applications, Enhanced heat transfer, Advanced heat transfer, Advanced refrigeration, Cryogenics, Boiling and condensation, Corrosion Engineering, Refrigeration and Cryogenics, Nuclear Engineering, Robotics and automation

Under graduate Heat Transfer, Refrigeration and air conditioning, Cryogenics Fluid mechanics, applied thermodynamics

13. Laboratory Development: under AICTE MODROBOS
    - Heat Transfer – Rs 5 lac 1989;
    - Refrigeration and Air Conditioning – Rs 8 Lac 2002;
    - Boiling Condensation – Rs 10 Lac 2014
14. Co- PI : UGC Major project on UASB reactor design operation 1997-98 at Government College of Engineering, Aurangabad (Grant 2.81 lakes)
15. Principal Investigator: AICTE grant under RPS on "Enhancement of heat transfer in horizontal tube during boiling of refrigerants using turbulent promoters" sanction year 2018-2019 Amount INR 8, 50,000 (received May 2020)
16. Consultancy work of Refrigeration, Boiler leakage, energy conservation, ISHRAE certified clean room professional
17. **Some selected Thesis/ Dissertation/ Projects**

Ph. D. Thesis

1. Jagdeep Mandanrao Kshirsagar, "Enhancement of Critical Heat Flux In Pool Boiling Using Nanofluids" Doctor of Philosophy In Mechanical Engineering 2017, Dr Baba Saheb Ambedkar Marathwada University, Aurangabad

2. Atual Suresh Bachal, " Improvising Flow Measurement – Vortex Flow Meter ",Doctor of Philosophy In Mechanical Engineering 2017, Dr Baba Saheb Ambedkar Marathwada University, Aurangabad
3. Manojkumar Deorao Hambarde, " Enhancement of Heat Transfer in Refrigerant During Flow Boiling Using Turbulent Promoters", Doctor of Philosophy In Mechanical Engineering 2018, Dr Baba Saheb Ambedkar Marathwada University, Aurangabad

Master of engineering Dissertation

1. Shinde Rohit Ravsaheb (ME13F011F016), " Failure mode Effect Analysis-Case Study For Bush Manufacturing Process"# Dissertation M E Production Full Time 2014 -15
2. Rupesh Bhagwan Morey (ME13F11F009), "Design and Manufacturung of Double End Facing SPM for Lock Collar# Dissertation M E Production Full Time 2014 -15
3. Rajhans Ramesh Manwatkar (ME14F11F009), "Optimization of Grinding Parameters of Surface Grinding Process for AISI 1018 Mild Steel by using AL2O3 Grinding Too"# Dissertation M E Production Full Time 2015 -16
4. Kulkarni Paresh Vijay (ME11F11F009), "Failure Mode Effect Analysis Process Capability Enhancement – A Case Study "# Dissertation M E Production Full Time 2012 -13
5. Bankar Ganesh Shivajirao (ME11F11F001), "Study And Experimental Analysis Of Engine Mounting Bracket of Three Wheller"# Dissertation M E Production Full Time 2016 -17
6. Nandkishore warbhe , "mechanical properties of kelvar/jute reinforced epoxy composite"# Dissertation M E Production Full Time 2015 -16
7. Kailash R Hiwarde, flexibility in manufacturing through integration & layout optimization"# Dissertation M E Production Full Time 2012 -13
8. Hemant shankarrao yadav,investigation of process parameters on surface roughness & MRR in cylindrical grinding"# Dissertation M E Production Full Time 2014 -15
9. D S Golegaonkar, "overall increase in productivity using genetic algorithm based optimization technique in end milling process"# Dissertation M E Production Full Time 2012 -13
10. Madhavi S Harne," Failure Mode Effect Analysis of Gear Box", Dissertation M E Design, Dr BAMU, Aurangabad 2003
11. Shashikumar P Harne, "Failure Mode Effect Analysis of transmission system of four wheeler", Dissertation M E Design, Dr BAMU, Aurangabad 1999
12. Hanumant Rao Dharmadhikari," Multi Creterion, Multi- attribute decision making for robotic gripper using TOPSIS Technique", Dissertation M E Production, Dr BAMU, Aurangabad 1998

13. Snehal Vijay Chambhare (ME 19241102)," Optimization of wire curt EDM process parameters of NIMONIC 90 alloy by using Taguchy and Grey relation analysis", Dissertation M Tech Production, Government College of Engineering Karad , 2021
14. Jayesh Mahadeo Suryawanshi (ME 17231208), "Numerical analysis of corium cool ability in pressurized heavy water reactor (RAPS/MAPS) during severe accident." Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2019
15. Rohit Murlidhar Gaikwad(ME 17231206) ," Suppression of thermal stratification in large water pool by using seven shrouds arrangement", Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2019
16. Sagar Ravikant Patil (ME 17231211)," CFD simulation of flow boiling in heated pipe and sub-channel of nuclear reactor" Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2019
17. Sumit Madhukar Lade (ME 17231218), "Enhancement of heat transfer during boiling of refrigerant in horizontal tube using turbulent promoters", Dissertation M Tech Mechanical -Heat Power Engineering, Government College of Engineering Karad , 2019
18. Swarup Sunil Deshmukh (ME17241208)," Parametric Study of Wire Electric Discharge Machining With/Without Powder Mix For AISI 4140 and Optimization Using Grey Relation Analysis", Dissertation M Tech Production, Government College of Engineering Karad , 2019.
19. Trupti Jadhav (ME17231123)," Numerical and Experimental Investigation of Heat Transfer Enhancement in Parallel Pattern Micro-channel Using Nano-fluid", Dissertation M Tech Mechanical -Heat Power Engineering, Government College of Engineering Karad , 2019
20. Mahesh M. Antad (ME18231219)," "Stability Behavior of Natural Circulation Studies for Unusual Orientation in a Rectangular Loop by Using RELAP5/MOD 3.2.", Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2020
21. Manoj Ashok Yelpale(ME18231206)," Enhancement of heat transfer in two phase using turbulent promoters", Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2020.
22. Suraj Mahesh Mane (ME18231203)," "Design, Development and Performance testing of Flooded Evaporator", Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2020
23. Swati Sadik Jadhav (ME18231727) "Enhancement of Heat Transfer during Flow Boiling of Refrigerant R404a in Two Phase Flow Using Twisted and Perforated Twisted Tape", Dissertation M Tech Mechanical - Heat Power Engineering, Government College of Engineering Karad , 2020.

24. Snehal Chambhare (ME19241102) “Optimization of Process Parameters in Wire-cut Electric Discharge Machining of Nimonic Alloy using Taguchi Method and Grey Relational Analysis”, Dissertation M Tech Mechanical – Production, Government College of Engineering, Karad.

Project (B.E)

1. Rohit B. Sonawane (BE80F02F021), Vaijinath V. Darade (BE08F02F022), Pritam R . Toshniwal (BE08F02F027), Maheshkumar S. Ghare (BE08F02F053) Dipak S. Bodkhe (Be08f02f062), “Fabrication And Experimentation Of All Weather Air Condition System Employing R22 As Refrigerant”# Bachelor Of Engineering (B.E) Full Time 2011-2012
2. Mahesh K. Pere Sandeep G. Dhawale , Praneet P. Jawale, Sooraj U. Jagdale, “Modified Desert Cooler” #Bachelor Of Engineering (B.E) Full Time 2013-2014
3. V.R . Borsarkar (BE10S02P006), M.M Choudhary (BE10S02P007), S.U. Wadgaonkar (BE10S02P032), “Determination Of Critical Heat Flux In Pool Boiling Using Nanofluids ”# Bachelor Of Engineering (B.E) Part Time 2014-2015
4. Pegkam Kengland Lungchang (BE06F02F065), Parag Deshattiwar (BE10F02F068), Kahani Menjo (BE11F02F064), Toshif Ruikar (BE11F02F046), “Thermal Analysis Of Brake Disc”# Bachelor Of Engineering (B.E) Full Time 2014-2015
5. Rashmi Kamble (BE11F02F024), Kavita Mathe (BE11F02F028), Kruti Meshram (BE11F02F029), “Determination Of Critical Heat Flux In Pool Boiling Using Nanofluids”# Bachelor Of Engineering (B.E) Full Time 2014-2015
6. Vikas Bijaysing Bamnath (BE12F02F004), Shivaji Sbahaji Bhandwalkar (BE12F02F010), Sujitkumar Purushottam Gaikwad (BE12F02F022), Gaurav Ankush Rodge (BE12F02F046), Hrishikesh Ghansham Somani (BE12F02F0540, Kunal Pradeep Somani (BE12F02F055), “Evaporative Water Cooler For Hot And Humid Climate”# Bachelor Of Engineering (B.E) Full Time 2015-2016
7. Yudhishthir Shiwarkar (BE08F02F002), Anup Sinare (BE08F02F005), Sagar Malwadkar (BE08F02F006), Abhijeet Mhaske (BE08F002F008), “Critical Heat Flux Enhancement”# Bachelor Of Engineering (B.E) Full Time 2011-2012
8. M.R. Bender, R.S Gangwe, O.S. Kewat, “Enhancement Of Quality Of Shot Peening Machine”# Bachelor Of Engineering (B.E) Full Time 2010-2011
9. Ashutosh Deshmukh (BE09F02F005) Snehal Bhalerao (BE09F02F037), Tejas Mulay (BE09F02F058), Chinmay Kodape (BE09F02F059), Bhushan Patil (BE09F06F032), “Design And Fabrication Of Automatic Capsule Bottle Filling Machine”# Bachelor Of Engineering (B.E) Full Time 2010-2011
10. Kiran Gautam Ahire (BE13F02F002), Akshay Anil Awashank (BE13F02F003), Shivamkar Ganesh Bhalerao (BE13F02F005), Rishabh Surendra Gosavi

(BE13F02F022), Nikhil Narayan Badave (BE13F02F063), "Design Of Brake Biasing System And Analysis Of Brake System Components For All-Terrain Vehicle"# Bachelor Of Engineering (B.E) Full Time 2016-2017

11. Nitin M. Bawaskar (BE09S02P004), Prashant P. Nangre (BE10S02P020), "Swirl Improvement In Naturally Aspirated Di Diesel Engine"# Bachelor Of Engineering (B.E) Part Time 2016-2017
12. Dighe Ravi Sanjay (BE13F02F019), Kulkarni Akash Sunil (BE13F02F032), Kulkarni Shubham Sunil (BE13F02F033), Mahamunu Sankalp Ugrasain (BE13F02F039), Potdar Sumit Sanjay (BE13F02F045), "5 Axis Cylindrical Robotic Manipulator With Drilling Operation"# Bachelor Of Engineering (B.E) Part Time 2016-2017

Publications till June 2024

1. **Ramakant Shrivastava**, Anil Kumar, Ravi Kumar, Bikash Mohanty,"Prediction of Condensation Heat Transfer Coefficient Inside A Plain Horizontal Tube", International Journal of Heat exchanger, vol VIII, pp 139-150, August 2007

2. **Ramakant Shrivastava**, Ravi Kumar and Akhilesh Gupta, S Lal," Heat Transfer Augmentation by Inserts During Condensation of Refrigerants Inside a Horizontal Tube", Proceedings International Refrigeration and air conditioning conference Purdue University USA, R035, July 17-20, 2006
3. Agrawal K N, Ravi Kumar, **Ramakant Shrivastava,"** Buildings for Survival: A Suggested Design for Protective Shelters", Proceedings 8th International conference on Steel Space and Composite Structures, Kuala Lumpur Malesia, May 15 – 17, 2006

4. Valunjkar SS, **Shrivastava R K**," Surge Analysis: Column Separation And Effect of Trapped Air Using Transient Pressure Theory", Proc. $th International Conference on Mechanical Engineering, ICME 2001, Page 24-32, BUET, Dhaka (Bangladesh)

5. **Shrivastava R K**, "Achieving Competencies in Mechatronics", National conference on " Intelligent Manufacturing Systems – A Technology Watch", Proc. C. I. T. Coimbatore, Feb 6 – 7, 1998.

6. **Shrivastava R K**, Jain K C," De-linking of jobs from degrees – the only way Human Resources Planning', presented at National seminar on Education technology, MACT Bhopal, Nov 1998.

7. **Shrivastava R K**, Jain K C," Robot Selection: A Fuzzy Multiple

Criteria Decision Making Algorithm", Proc. International Conference on Industrial Automation, Shri G S Institute of Science & Technology, Indore (India), E – 22-1 to E -22 -6, Dec 14-15, 1995

8. **Shrivastava R K** , Jain K C, " Futuristic Ethics and Organizational Management", Proc. National seminar on" Quality assurance in technical education- challenges of the new economic policies "SATI, Vidisha, March 28-29, 1995

9. Krishnamurthy A G, **Shrivastava R K**, "Technical Education Policy: Fitting Concept with Reality", Proc. National seminar on" Quality assurance in technical education- challenges of the new economic policies"SATI, Vidisha, March 28-29, 1995

10. **Shrivastava R K**, Jain K C," Stochastic Multi-criterion Multi-attribute Decision Making: Robotisation of an activity in Hazardous Environment", Presented at International Conference on stochastic models, Computer Application, P S G college of Technology, Coimbatore (India)Dec14 – 15, 1994.

11. **Shrivastava R K**, Jain K C," Robot selection: A Fuzzy Multi-attribute Multi-criteria Decision Making Algorithm, Proc. 4th National Symposium on Intelligent System, Center For Artificial Intelligence and Robotics, Bangalore Nov. 21 – 22, 1994.

12. **Shrivastava R K,** Jain K C, Robot Time Motion Performance Evaluation", Proc. 2nd national conference on CAD /CAM, P. S. G. College of Technology, Coimbatore, Aug 19- 20, 1994

13. Yogesh S Kokate, Ramakant Shrivastava," Management of Tools in flexible Manufacturing System (FMS)', proceedings international conference on science, engineering and spirituality, SES College of Engineering, Navalnagar, M S (India),pp. 3-6, April, 1-2, 2010

14. Autee A T, S Srinivasa rao, Ravi Kumar Puli, **Ramakant Shrivastava**," Experimental Study on Two-phase Pressure Drop of Air-water in Small Diameter Tubes at Horizontal Orientation". International Journal of thermal science Vol18, no 2, pp 521-532, 2014

15. Autee A T, S Srinivasa rao, Ravi Kumar Puli, **Ramakant Shrivastava**," Two-phase Pressure Drop Calculations in Small Diameter Inclined Tubes". International Journal of Engineering, Science Publication Corporation, Vol 1, issue 3, pp. 168-181, year 2012

16. Autee A T, S Srinivasa rao, Ravi Kumar Puli, **Ramakant Shrivastava**," An Experimental Study on Two-phase pressure drop in Small Diameter Horizontal, Downward Inclined and Vertical Tubes'. Thermal Science International Journal, DOI REFERENCE: 10.2298 /TSCI130118081A, June 2013

17. Paresh Kulkarni, Ramakant Shrivastava," Failure Mode Effect Analysis: Process Capability Enhancement-A CaseStudy', International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Vol. 2 Issue 4, April – 2013.

18. Ashok Badhe, Ramakant Shrivastava," Optimization of process parameters for surface finish in wire electric discharge machine", International Journal of Advances in Management, Technology & engineering Sciences, Vol 1, issue 8 (1), pp. 28-32, May 2012

19. Golegaonkar D S, Ramakant Shrivastava," Overall Increase in Productivity Using Genetic Algorithm Based Optimization Technique in milling process", International Journal of Advanced in Management, technology &Engineering Science, Vol.1,Issue9(II),June2012

20. Waghole D.R, R. M. Warkhedkar, Dr V. S .Kulkarni, **Ramakant Shrivastava**, " Experimental Investigations on heat transfer and friction factor of Silver Nanofluid in absorber/ receiver of Parabolic Trough collector with Twisted tape Inserts ", International Journal of Energy Procedia, Vol 44, ELSEVIER, 2014
21. Hemant S. Yadav, **Ramakant Shrivastava**," Effect of Process Parameters on Surface Roughness and MRR in Cylindrical Grinding using Response Surface Method" International Journal of Engineering Research & Technology (IJERT), Vol. 3 Issue 3, March – 2014

22. Jagdeep M Kshirsagar, Ramakant Shrivastava," Review of the influence of nanoparticles on thermal Conductivity, nucleate pool boiling and critical heat flux" , International Journal of Heat and Mass Transfer, Springer publication, DOI: 10.1007/s00231-014-1412-3 (2014) (T & R 0.849), published Vol 51, No 3, 2015
23. Rohit Ravasaheb Shinde, **Ramakant Shrivastava**, Rupesh B Morey, " Failure Mode effect Analysis – Case Study for Bush Manufacturing process." International journal of scientific Engineering and applied science (IJSEAS), Vol 1, Issue – 4, July 2015 , UGC approved
24. Kailash R Hiwarade, **Ramakant Shrivastava**, " A Review on Flexibility in Manufacturing Through Integration and Layout optimization." International

Journal of science and Research (IJSR), ISSN online : 2319-7064, Index Copernicus 2015 : 6.391 **UGC Approved**

25. Jagdeep M Kshirsagar, **Ramakant Shrivastava**, Prakash S Advani" Preparation and Characterization of Copper oxide Nanoparticles and Determination of Enhancement in Critical Heat Flux Under Turbulent Flow " , International Journal of Heat and Mass Transfer, Springer publication,Vol. 21, no 1A, pp. 233-242 , 2017
26. Jagdeep M Kshirsagar, Ramakant Shrivastava, Prakash S Advani" Characterization and Investigation of Heat Transfer Enhancement in Pool Boiling with Water ZnONanofluid" , International Journal of thermal science ,Vol. 21, no 5, 2017
27. Manojkumar D Hambarde, **Ramakant Shrivastava**, " Experimental investigation on evaporation of R407C in a single horizontal smooth tube", Proceedings of the International Conference on Science and Engineering for sustainable development (2017) pp 266-278 and International Journal of Technology & Engineering ISSN 2455-4480.
28. Atual Bachal, **Ramakant Shrivastava**," Experimental Investigations of Strouhal's Number Linearity for Dual Trapezoidal Bluff Body for Vortex Flowmeter", International Journal of Research Publications in Engineering and Technology, Vol 3, Issue 8, August 2017
29. Atual Bachal, **Ramakant Shrivastava**," Influence of After Body Shape Angle of Trapezoidal Bluff Body on Measured Signal Parameters", International Journal of Research Publications in Engineering and Technology, Vol 3, Issue 8, August 2017
30. Krishna Shinde, Prof Dr **R K Shrivastava**, Dr R D Angal, Dr Ajay Radke "Review on Cathodic Protection of Embedded Steel Bars in Concrete By Sacrificial Anodes" , International Research Journal of Engineering and Technology (IRJET) , vol4, Issue 12, pp. 1138-1145 Dec 2017 (e-ISSN 2395:0056) UGC Approved Impact Factor 6.171
31. Krishna Shinde, Prof Dr **R K Shrivastava** , Dr R. D. Angal," Suggested Standard Test Method For Laboratory Evaluation of Zinc Sacrificial Anode Test Specimens", International Research Journal of Engineering and Technology (IRJET) , vol4, Issue 12, pp 1244-1249, Dec 2017 (e-ISSN 2395:0056) UGC Approved Impact Factor 6.171

32. Jagdeep M Kshirsagar, Ramakant Shrivastava, "Experimental Investigation of Nucleate Pool Boiling characteristics of high concentrated Alumina/Water Nano fluids," International Journal of Heat And Mass Transfer, Vol 54, issue 12, pp 1-12, Jan 2018

33. M D Hambarde, **Ramakant Shrivastava**," Comparative Study of Heat Transfer Performance of Twisted Tape Inserts in Evaporation of R407C",

International Journal For Research in Applied Science and Engineering Technology(IJRASET), vol. 6, issue 1, pp. 2809 – 2817, Jan 2018

34. . Krishna Shinde, **R K Shrivastava**, R D Angal, "Effect of Sacrificial Zinc Anodes on Current Density For Effective Cathodic Protection of RCC", ARPN (Asian Research Publishing Network) Journal of Engineering and Applied Science, Vol 13, No 13, pp. 4069 -4073, July 2018. Scopus Index, UGC approved
35. Swarup S Deshmukh, Shaikh Zubair A, Vijay S Jadhav, **Ramakant Shrivastava**," Optimization Process Parameters of Wire Electric Discharge Machining on AISI 4140 Using Taguchi Method and Grey Relation Analysis '. Proceedings Materials Today 00 (2018) 0000- 0000 available online ELSEVIER publication on Science Direct. 2214-7853 @ 2018 Elsevier Ltd. Proceedings 9th International conference of Materials Processing and Characterization, MARCH 8, ICMPC- 2019, pp 4261-4270
36. Swarup S Deshmukh, Vijay S Jadhav, **Ramakant Shrivastava**,"Review on Single and Multi-objective Optimization Process Parameters of EDM Using Taguchi Method and Grey Relational Analysis". Proceedings Materials Today 00 (2018) 0000- 0000 available online ELSEVIER publication on Science Direct. 2214-7853 @ 2018 Elsevier Ltd. Proceedings 9th International conference of Materials Processing and Characterization, MARCH 8, ICMPC-2019
37. Hambarde Manojkumar D, **Shrivastava Ramakant**," Experimental Investigation on Heat Transfer Enhancement against Pumping Power in R407C Evaporator using Twisted Tapes", accepted *Proceedings 3rd international conference ISHMT- ASTFE Heat and Mass Transfer Conference – (IHMTC- 2019), Indian Institute of Technology, Roorkee, Dec 28-31, 2019.*
38. Sagar R Patil, Mukesh Kumar, **Ramakant Shrivastava**," Comparative study of CFD simulation of flow boiling in heated pipe and sub channel of Nuclear reactor", accepted at International conference on Materials and Energy, July 26-27, 2019 , Warangal
(Scopus Index Sent), Proceedings ISBN
39. Jayesh M Suryawanshi, Pradeep Pandey, **Ramakant Shrivastava**," Assessment of cool ability of corium in PHWR RAPS and MAPS during severe accident "accepted at International conference on Materials and Energy, July 26-27, 2019 Warangal. (Scopus Index Sent), Proceedings ISBN
40. Trupti Jadhav, Ramakant Shrivastava, S P Pandey, ´**Numerical and Experimental investigation of Heat transfer Enhancement in Micro-channel using Nanofluid** accepted *Proceedings 3rd international conference ISHMT- ASTFE Heat and Mass Transfer Conference – (IHMTC- 2019), Indian Institute of Technology, Roorkee, Dec 28-31, 2019.*

41. Shantanu Charthankar, ArunAutee, **Ramakant Shrivastava** and Srinivasa Rao," Experimental investigations on two-phase pressure drop in small diameter at horizontal orientation", accepted *Proceedings 3rd international conference ISHMT- ASTFE Heat and Mass Transfer Conference – (IHMTC-2019), Indian Institute of Technology, Roorkee, Dec 28-31, 2019.*
42. . *Krishna Shinde, **Ramakant Shrivastava**, R D Angal, "Effect of Sacrificial Zinc Anodes on OCP For Effective Cathodic Protection of RCC", under review Journal of the institution of engineers India: Series C. Springer, SCI Index, Scopus Index, UGC Approved*
43. M D Hambarde, **Ramakant Shrivastava**, "Heat Transfer enhancement against void faction in flow boiling of R407C using twisted tapes ", International Journal of Research Technology & Engineering (IJRTE), ISSN-2277-3878, vol. 8, issue 1, pp. 1858 – 1866, May 2019
44. Gaikwad, R., Shrivastava, R., Verma, P.K," Experimental investigation on suppression of thermal stratification in large water pool using seven shroud arrangement", AIP Conference Proceedings 2020

45. Swati sadik Jadhav, Manoj Yelpale, **Ramakant Shrivastava** , " A Review On Heat Transfer Enhancement and Associated Pressure Drop During Flow Boiling of Refrigerant Using Twisted Tape As Turbulent Promoter , ELK Asia Pacific Journal of mechanical engineering and research , ISSN- 2349-9368 online EAPJMER/ ISSN/ 2454-2962/2016; Vol 6, Issue 1 , 2020.
46. Swati Jadhav, Manojkumar Hambarde, **Ramakant Shrivastava**, Gopal Nandan," Pressure Drop Prediction in Flow Boiling of R-407C in Two Phase Flow using Twisted Tape Insert in Horizontal Tube", Proceedings National conference on Advances in Mechanical engineering, NIT Jamshedpur , August 29- 30, 2020. Paper No -241, Scopus Indexed Proceeding Materials Today. -
47. Rishabh Kumar, Gopal Nandan, Gaurav Dwivedi , Anup Kumar Shukla, **Ramakant Shrivastava** , " Modeling of Triangular Perforated Twisted Tape With V – Cuts in Double Pipe heat Exchanger , contents lists available at Materials Today Proceedings, online Oct 17, 2020. https://doi.org/10.1016/j.matpr.2020.09.038
48. Manoj Yelpale, Ramakant Shrivastava, Gopal Nandan," Heat Transfer Enhancement and Pressure Drop In Two Phase Flow Boiling Using Coiled Wire Inserts :A Review", Proceedings National conference on Adavances in Mechanical engineering, NIT Jamshedpur , August 29- 30, 2020. Paper No - 243, Scopus Indexed Proceeding Materials Today. -
49. Mohammed Zaki Hayat, Gopal Nandan, Arun Kumar Tiwari, Sanjeev Kumar Sharma,, **Ramakant Shrivastava**, Ashok Kumar Singh," Numerical study on heat transfer enhancement using twisted tape with trapezoidal ribs

in an internal flow", Materials today proceedings online https://doi.org/10.1016/j.matpr.2020.09.061 2214-7853/ 2020 Elsevier Ltd. All rights reserved.

50. Ammed Zaki Hayat , Gopal Nandan1, Sanjeev Kumar Sharma , Arun Kumar Tiwari , Ramakant Shrivastava , Ashok Kumar Singh, "NUMERICAL STUDY ON HEAT TRANSFER ENHANCEMENT USING TWISTED TAPE WITH TRAPEZOIDAL RIBS IN AN INTERNAL FLOW", Today: Proceedings, Elsevier, October, 2020
51. Snehal Chambhare, **Ramakant Shrivastava**, Vijay S Jadhav, Gopal Nandan," "Optimization of Process Parameters of Powder Mixed Wire-cut Electric Discharge Machining on NIMONIC 90 Using Taguchi Method and Grey Relational Analysis", 3rd International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2021) to be held at D.Y. Patil College of Engineering and Technology, Kolhapur, Maharashtra, India, November 25 - 26, 2021. paper ID EMTP 3026 Materials Today Proceedings.

Reference Chapter written:

1. Deshmukh, S.S., Jadhav, V.S., **Shrivastava, R**.," Review on single and multi-objective optimization process parameters of EDM using Taguchi method and grey relational analysis," Materials Today: Proceedings 18, pp. 3856-3866, 2019.
2. Patil, S.B., Deshmukh, S.S., Jadhav, V.S., **Shrivastava, R**.," Modeling and Parametric Optimization of Process Parameters of Wire Electric Discharge Machining on EN-31 by Response Surface Methodology", Lecture Notes in Mechanical Engineering, pp. 51-65, 2021C Springer Nature Singapore Pte. Lt. 2021
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Patent:

Granted : August 2023.

1. A portable air conditioning apparatus is designed and fabricated to provide cooling for the PPE kit. This invention is based upon the Peltier effect. Outside air is filtered through HEPA filter and passed on cooling module of thermo- electric cooling. Cooled air is supplied inside PPE kit to ensure safer and cooler conditions inside PPE kit during COVID environment. Application is filled for Indian Patent on Oct 08, 2020
   Application No: 202021034156

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Published:

1. DIFFERENTIAL TEMPERATURE SENSOR ARRAY FOR EFFICIENCY MEASUREMENT OF MULTI-PHASE FLOW HEAT EXCHANGER
   Application no 202321053547, publication date 10/08/2023

2. *DEVELOPMENT OF SMART HYDROGEN FUEL CELL DRONE* ,
   Application no 202441016136, publication date 22/03/2024

(Dr R K Shrivastava)

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