BIO-DATA

1. **Name** : Dr. NAKKA V V SIVA SUDHEER

2. **Father's Name** : N . PATTAIAH

3. **Date of Birth** : 15.07.1969

4. **Address for Communication** :

2 - 14 – 96/1 / A,
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5. **Educational Qualifications** :

Degree/ examination	Year	College/University	Division	Subjects
B.Tech	1992	Bapatla Engineering College, Bapatla, Nagarjuna University, A.P	First class	Mechanical
Post graduate Diploma in Quality Management	1997	School Of Quality Management, Bharathi Dhasan University, Trichy, Tamil Nadu	First class	SQC,TQM, Quality systems, Materials Management ,HRM, Design of experiments.
M.Tech	2004	J.N.T.U. College Of Engineering, Anatapur, Jawaharlal Nehru Technological University, Hyderabad .	First class with Distinction	Heat Power Engineering (Refrigeration and Air conditioning)
Ph.D	2013	Osmania University, A.P	Mechanical with thesis title of "Investigation on Influence of Compressed Refrigerated Air and High Heat Transfer Rate MQL in Turning of Aluminium Silicon Carbide Metal Matrix Composite".	

6. **Area of Interest** : Thermal systems applications in manufacturing, Heat Transfer and IC Engines.

7. Teaching Experience :

S. No.	Name of the Organisation	Designation	Period
1.	Bapatla engineering college, Bapatla, Nagarjuna University, Andhra Pradesh.	Teaching Assistant in the Department of Mechanical Engineering.	1995 - 96
2	Bapatla engineering college, Bapatla, Nagarjuna University, Andhra Pradesh	Teaching Assistant in the Department of Mechanical Engineering.	1997 - 98
3	R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh.	Lecturer in the Department of Industrial and Production Enginneering	26th June 1998 to June 2006
4	R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh.	Senior Lecturer in the Department Of Industrial and Production Enginneering	1st July 2006 to December 2008
5	R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh.	Associate professor inthe Department of Mechanical Engineering	1st January 2009 To 31st January 2020
6	R.V.R & J.C. College of Engineering, Guntur, Nagarjuna University, Andhra Pradesh.	Professor inthe Department of Mechanical Engineering	1st February to till date.

Subjects Taught :

- Basic Thermodynamics.
- Applied Thermodynamics.
- Advanced Thermal engineering
- Thermal engineering- I
- I.C.Engines and Gas Turbines
- Heat Transfer
- Fluid mechanics.
- Refrigeration and Air conditioning
- Professional Ethics and Human values
- Operations research.
- Industrial management.
- Production and Operations management.
- Engineering Drawing.
- Engineering Mechanics.
- Machine Drawing.
- Energy Resources Utilization

Administrative activities :

- In-charge of Industrial Engineering Lab.
- Involved in the National Board ofAccreditation activities.
- Handling Thermal engineering Labs.
- Member of Sports committee.
- Member of Time-Table Committee.
- Member of Training and placement.
- Member of Anti Ragging committee
- In- charge **Air conditioning** and **Refrigeration** systems

Other Information :

- Presently **5 Ph.D students are working under my guidance** in Nagarjuna University.
- Attended Number of short term courses on various topics at National level.
- Actively involved for securing highest grade of NBA for four times.
- Life member of Indian Society for Technical Education (ISTE)
- Member of International Association of Engineers(IAENG)
- Acted as Deputy Chief Superintendent for conducting AIEEE, EAMCET Exams.
- Acted as a Judge for Technical Paper presentations.
- Guided Number of B.Tech Student projects.
- Faculty Advisor for SAE Collegiate Club.

8. Ph.Ds Awarded under my guidance:

- PayyalaAnusha "Experimental Investigation of Optimum Insulation in VCR system with Chlorodiflouromethane and Mixture of Diflouromethane and Pentaflouroethane, January-2021, AcharyaNagarjuna University.
- Suresh Babukoppula "Effect of an Ancient Biological Noble Material as Nano Additive in IC Engine Lubricating Oil"March-2021, Acharya Nagarjuna University.
- N. SanthiSree "Experimental Analysis of the closed loop pulsating heat pipe with different working fluids at different fell ratios and Orientations" April -2021 Acharya NagarjunaUnivesity.

9. Projects handled for National level competitions :

- Acted as a Faculty Advisor and Supervisor for Design and Fabrication of All Terrain Vehicle (ATV) for Delta shootout-2014 competition conducted at NIT-Jamshedpur. In this competition our vehicle got second place in Acceleration Event, Third place in Maneuverability, Third place in Hill climbing and Fourth place in Endurance.
- Acted as a Faculty advisor and supervisor for Design and fabrication of All Terrain Vehicle (ATV) for BAJA Student India-2015 competition conducted at NIT-Jamshedpur. In this competition our vehicle got 7^{th} rank in design,14^{th} rank in cost, 11^{th}

rank in sale, 18th rank in hill climb,9th rank in maneuverability, 10th rank in endurance and overall rank of 25th in all over India.

- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehiclefor eBAJA- 2015 competition organized by SAE India at Indore. In this competition, our vehicle secured first position in the Initiative category in all over India and it is appreciated by Dr, Abdul Kallam former president of India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle for eBAJA- 2016 competition organized by SAE India at Indore. In this competition, our vehicle secured second position in the overall statics and cost in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Hybrid Vehicle for Hybrid vehicle challenge-2016 competition organized by Imperial Society of Innovative Engineer at Bhopal. In this competition our vehicle secured second position in the Skid padevent in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle for eBAJA- 2017 competition organized by SAE India at Indore. In this competition our vehicle secured cash prize of Rs. 1,50,000-00
- Acted as a Faculty advisor and supervisor for design and fabrication of Hybrid Vehicle for Hybrid vehicle challenge-2017 competition organized by Imperial Society of Innovative Engineer at Noida, New Delhi. In this competition our vehicle secured Third position in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication of GO Kart vehicle and participated in the event Student kart design challenge organized by Society of Automotive and Mechanical Engineers (SAME) on 6th to 8th January 2018 in Hyderabad. They secured first place in the final racing and stood third place in all over India.
- Acted as a Faculty advisor and supervisor for design and fabrication Hybrid vehicle and participated in the event Hybrid Vehicle challenge organized by ISIE on 17th to 21st January 2018 at Noida, New Delhi. The team stood in third place in overall championship.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle and participated in the EBAJA-18 event organized by Society of Automotive Engineers at Pithampur, Indore, Madya Pradesh. Team secured third place in the event. In this event three students of the team selected in reputed organizations like M/s General Motors, ARAI and Varag with very good pay, the maximum pay is Rs. 13.8 Lakhs.
- Acted as a Faculty advisor and supervisor for design and fabrication of GO Kart vehicle and participated in the event Go-kart design challenge organized by ISNEE on 12th to 16th February 2018, at Coimbatore. Team stood in third place.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle and participated in the EBAJA-19 event organized by Society of Automotive Engineers at Pithampur, Indore, Madya Pradesh. Team secured third place in the event. In this event one student of the team selected in reputed organizations like M/s ARAI with very good pay, the pay is Rs. 13.8 Lakhs per annum.

- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle and participated in the EBAJA-20 event organized by Society of Automotive Engineers at Pithampur, Indore, Madya Pradesh.
- Acted as a Faculty advisor and supervisor for design and fabrication of Electrical Vehicle and participated in the MBAJA-20 event organized by Society of Automotive Engineers at Chitkara University, Chandighar.
- Faculty Advisor for the event SUPRA by SAE, This event is cancelled due to Corona.
- Faculty Advisor for the event Asian E-Bike and Pro-Kart challenge, season-3 organized by Imagine to Innovate at Raghu Engineering College from 25th to 29th September 2019.

10. Industrial experience :

1992 – 95	Worked in M/s .Pantech Machine tools, Hyderabad as a Production and Quality control engineer
Job description	I had handled the production of Rotor shafts for Ceiling fans being supplied to M/s.USHA, CROMPTON GREAVES, BAJAJ etc.
Major achievements	Sincere implementation of SQC tools during Quality control checks.This reduced the rejection from 10% to 2%.Developed Jigs that reduced the time taken for completing operations on the shaft. In addition to it reduced the risk to the operator and increased production by approximately 10%.

Other Experience in Industry :

Teaching & Training	Trained staff members in M/s. Pantech Machine tools, Hyderabad on proper use of measuring Instruments.Impressed upon staff members of M/s. Pantech Machine tools, Hyderabad on issues pertaining to Quality and safety in all of their activities.
Administration	Supervised 10 staff and 40 workers of M/s. Pantech Machine tools, Hyderabad who involved in different functions and maintained measuring instrumentsand machinery

11. Papers Published :

JOURNALS:

1. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao "Study on Influence of Process Parameters in Turning of Aluminium Metal Matrix Composite", Published in the ANU Journal of Engineering and Technology, ISSN 0976 – 3414, Volume 2, Number 2, pp. 5-7, December 2010.

2. N V V S Sudheer, KVJ Rao and B.Srinivasa Rao, "Investigation on Influence of Refrigerated Air in Turning of Aluminium Metal Matrix Composite", Published in International journal of Applied Research, ISSN 0973-4562 Volume 6, Number 5 (2011) pp. 931-938.
3. N V V S Sudheer, K. Karteeka Pavan, "Effect of High Heat Transfer Rate Minimum Quantity Lubricant in Turning of Aluminum MetalMatrix Composite and Differential Evolution Optimization of Process Parameters" Published in International Review of Applied Engineering Research.ISSN 2248-9967 Volume 3, Number 3 (2013), pp. 189-199.
4. N.V.V.S.Sudheer, K.V.J.Rao and N.Rajesh "Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning Of Aluminium Metal Matrix Composite", published in the Journal of Association of Engineers, India, vol 83, no.3&4, pp-45-55, 2013.
5. N.V.V.S.Sudheer, and, K.Katheeka Pavan "Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning of Aluminium Metal Matrix Composite and Differential Evolution Optimization of Process Parameters" Jounal of, Procedia Materials Science, Elsevier,Volume 6, 2014, Pages 840-850.
6. Santhisree Nerella, Dr.N.V.V.S.Sudheer and Dr.P.Bhramara " Enhancement of Heat Transfer by Nanofluids in Solar Collectors", Published in International Journal of Innovations in Engineering and Technology, Volume 3, Issue 4, PP.115-120, 2014.
7. R.Madhu Kumar and N.V.V.S.Sudheer "Performance Improvement of Ranque-Hilsch Vortex Tube by Varying inside Surface Roughness of Hot Tube", Published in International journal of Innovative Science, Engineering and Technology, Volume I, issue 4, June 2014, pp- 297-302.
8. N.V.V.S.Sudheer and M.Maruthi Rao "Analysis of Mechanical and Thermal Fatigue Failuresof Piston Heads and Other Critical Parts of IC Engines- Issues and Challenges"Published in International Journal on Recent Researches In Science, Engineering & Technology, Volume 2, Issue 2, February 2014, pp- 925-933.
9. Anusha Peyyala, N.V.V.S.Sudheer''Evaluation of Mass Fluxes and Phase Parameters to Identify the Adiabatic two Phase FlowPatterns in Vertical And Horizontal Tubes.''International Journal Of Engineering Sciences & Research Technology, 3(11),November 30, 2014, pp 513-520.
10. R.Madhui Kumar, N.V.V.S.Sudheer "Performance of 2-stage PVC hot Cascade Type Ranque-Hilsch Vortex Tube" International Journal of Engineering Science & Management Research, 2 (9), Septemeber 2015,PP-111-117,
11. N.V.V.S.Sudheer, "Effect of Refrigerated air and Oxidizing Flame in Turning of Aluminium Metal Matrix Composite" BLB International Journal of Science & Technology, Special Issue, November 2015, PP-170-174.
12. Suresh Babu Koppula, N.V.V.S.Sudheer, "A Review on Effect of Adding Additives and Nano Additives on Thermal properties of Gear Box Lubrication" International Journal of Applied Research ISSN 0973-4562, Volume 11, Number 5 2016, pp 3509-3526.
13. M.Maruthi Raoand N.V.V.S.Sudheer, "Enhancement of Microstructure and Mechanical Properties of Al Alloys – Review" International Journal of Science, Engineering and Technology Research (IJSETR), ISSN: 2278 – 7798, Volume 5, Issue 4, April 2016, pp 1129-1143.
14. Anusha Peyyala, N.V.V.S.Sudheer, "Possibility of Using Refrigerant Blends In the Existing Refrigerator & AC Systems: A Review", IOSR Journal of Mechanical and

Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X, Volume 13, Issue 3 Ver. V (May- Jun. 2016), PP 63-70.

15. Anusha Peyyala, N.V.V.S.Sudheer, "Performance Analysis of A Single Cylinder Four stroke Diesel Engine Using Sunflower Oil as a Bio-Diesel Blend : An Experiment", International Journal of Innovations in Engineering and Technology (IJIET), Volume 7, issue 1, June 2016,ISSN: 2319 – 1058, pp-647-656.

16. M.Maruthi Raoand N.V.V.S.Sudheer "Enhancement of Microstructure and Mechanical Properties of Al-Alloy using Biological Quenching Medium", The IUP Journal of Mechanical Engineering, Vol X, No.2, May 2017, pp 42-51

17. M.Maruthi Raoand N.V.V.S.Sudheer "Experimentation on Structural and Mechanical Properties change of Al- Alloys Using Biological Quenching Medium" International Journal of Engineering Applied Science and Technology, Vol.1 Issue 9, July- August 2016.

18. N.Santhi Sree, N.V.V.S. Sudheer & P. Bhramara"THERMAL ANALYSIS OF CLOSED LOOP PULSATING HEAT PIPE" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 8, Issue 2, Apr 2018, 21-36.

19. Suresh Babu Koppula, N.V.V.S.Sudheer, "Design Criteria for Hot Fluid Flowing in Inner Pipe of a Double Pipe Heat Exchanger" Published in IJETSR, Volume 4, issue 8, August 2017, ISSN 2394-3386.

20. Suresh Babu Koppula, N.V.V.S.Sudheer, "Study on Various Parameters in the Design of Double Pipe Heat Exchanger on Hot Fluid Side in Inner Pipe" International Journal of Advance Reseach in Science and Engineering, ISSN(o):2319-8354, ISSN(P): 2319-8346, vol. no.06, Issue No. 12, December 2017.

21. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer "Influence of Pressure Drop, Reynolds Number and Temperature in the Design of Double Pipe Heat Exchanger on Cold Fluid Side in Outer Pipe", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684,p-ISSN: 2320-334X PP. 35-43

22. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer " Analysis on Design Considerations for a Pipe in Pipe Heat Exchanger", Journal of Thermal Engineering and Technology, Volume 3 Issue 1**,** Page 1-11 © MANTECH PUBLICATIONS 2018.

23. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer "Experimental analysis and investigations on properties of a biological material as lubricant additive" Springer Nature Switzerland AG 2018, SN Applied Sciences (2019) 1:5, published online 4th October, 2018.

24. R. Madhu Kumar & N.V.V.S. Sudheer "Computational Fluid Dynamics Analysis of Pressure Effects in a Hot Cascade Type Ranquehilsch Vortex Tube" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 8, Issue 6, Dec 2018, 135-142.

25. Suresh Babu Koppula & N. V. V. S. Sudheer "Development Of Renewable Energy Through Heat Enhancement For Lubricants By Adding Nano Materials" International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) ISSN(P): 2249-6890; ISSN(E): 2249-8001 Vol. 9, Issue 2, Apr 2019, 695-710 © TJPRC Pvt. Ltd.

26. ANUSHA PEYYALA, NVVS SUDHEER, "EXPERIMENTAL DETERMINATION OF OPTIMUM REFRIGERANT INSULATION COMBINATION IN A VCR SYSTEM USING TAGUCHI METHOD", International Journal of Mechanical and

Production Engineering Research and Development (IJMPERD) ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 9, Issue 3, June 2019, 439-452 © TJPRC Pvt. Ltd. SCOPUS Indexed Journal and UGC approved journal.

27. Anusha Peyyala, Dr N V V S Sudheer, "EFFECT OF INSULATIONS ON COP IN VAPOR COMPRESSION REFRIGERATION SYSTEM", International Journal of Mechanical Engineering and Technology (IJMET), **Scopus Indexed .**Volume 10, Issue 01, January 2019, pp. 1201-1208.

28. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer, " Experimental Analysis on Viscosity for Nano Fluids of SIO_2, AL_2O_3, Fly ash and Biological Material", international Journal of Mechanical and Production Engineering, ISSN(p):2320-2092, ISSN(e):2321-2071, Vol.&. Issue1, Jan-2019.

29. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer "Analasys on Thermal Properties for Nano additives of AL_2O_3, Fly ash and Biological Material" international Journal of Research and Analytical Reviews(IJRAR), Vol.6, Issue1, March 2019.

30. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer "Tribological Analysis on Mathematical Models and Experimental Values for Nano Lubricants", Journal of Advance Research in Dynamical and control Systems, Vol.11No.5,2019.

31. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer, "Comparison of Lubricating Oil Specific Heats for SIO_2 and Fly Ash Nano fluis", Journal of Applied Science and computations, Vol. VI, Issue III, March/2019.

32. N.V.V.S.Sudheer ,N.Santhi Sree, P.Bhramara, "**Experimental Analysis of Closed Loop Pulsating Heat Pipe with Different Working Fluids at Different Inclinations",** Jour of Adv Research in Dynamical & Control Systems, Vol. 11, No. 8, 2019.

33. N.V.V.S.Sudheer ,N.Santhi Sree, P.Bhramara, "**Effect of Ethanol based Mixtures on the Performance of CLPHP–Experimental Approach",** International Journal on Emerging Technologies 11(2): 389-395(2020).

34. N.V.V.S.Sudheer ,N.Santhi Sree, P.Bhramara, "**Experimental Set up of Two Closed Loop Pulsating Heat Pipe (CLPHP) with Water base Fluids**", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue-12S, October 2019 715 Retrieval Number: L120810812S19/2019©BEIESP DOI: 10.35940/ijitee.L1208.10812S19 Published By: Blue Eyes Intelligence Engineering & Sciences Publication.

35. N.V.V.S.Sudheer ,N.Santhi Sree, P.Bhramara, "**Experimental Evaluation of Closed Loop Pulsating Heat Pipe with Water Based Working Fluids**", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD); ISSN (Online): 2249-8001; ISSN (Print): 2249-6890; Impact Factor(Jcc) (2019): 8.8746; Index Copernicus Value (Icv) - (2016): 60.6; Naas Rating: 3.11; Vol - 9, Issue - 5; Edition: Oct-2019 "

36. N.V.V.S.Sudheer ,N.Santhi Sree, P.Bhramara, "**Flow Visualization of Closed Loop Pulsating Heat Pipe-CFD Analysis**", International Journal of Advanced Science and Technology Vol. 29, No. 5, (2020), pp. 9288-9295.

37. N.V.V.S.Sudheer, R.Madhu Kumar, & Katam Ganesh Babu, "**Experimental evaluation of the performance of two-stage hot cascade type vortex tube when the inlet pressure, length (L)/diameter (D) ratio and number of nozzles are varied**", International Journal Of Ambient Energy, Taylor & Francis

https://doi.org/10.1080/01430750.2019.1682040, ISSN: 0143-0750 (Print) 2162-8246 (Online) Journal homepage: https://www.tandfonline.com/loi/taen20.

38. N. Sathisree, N.V.V.S. Sudheeer& P.Bhramara " Analysis of Closed Loop Pulsating Heat Pipe using Optimisation techniques, International Journal of Ambient Energy, Taylor and Francis Journal, 2020.

39. Racharla Madhu Kumar, N.V.V.S.Sudheer, "Multi-attribute decision making parametric iptimization in two-stage hot cascade vortex tube through grey relational analysis" international Jounal of Simulation Multidiscipline design optimization, 2021.

40. Rao, M.M., Sudheer, N.V.V.S., Basha, S.A., "Chemical Characterization of Cow Urinefor cooling media applications in Metallurgical operations" International Journal of Engineering Trends and Technology69(10), PP 52-56, 2021.

41. N. Sathisree, Sudheer .V.V.S.Nakka & P.Bhramara, "Mathematical Modeling of Closed Loop Pulsating Heat Pipe by Using Artificial Neural Networks "International Journal of Heat and Technology" 39(3):955-962 DOI:10.18280/ijht.390332.

42. Rao, MM (Rao, M. Maruthi) ; Sudheer, NVVS (Sudheer, N. V. V. S.) ; Basha, SA (Basha, S. A.) ; Kumar, PP (Kumar, P. Pradeep) ; Sree, NS (Sree, N. Santhi), "Selection Criteria of Eco-Friendly Cooling Media Using MCDM for Metallurgical Operations", Volume13, Page899-902, Special Issue3, DOI: 10.47750/pnr.2022.13.S03.138, Sept.2022.

43. Bijjam, RR (Bijjam, Ramgopal Reddy) ; Chandanam, S (Chandanam, Srinivas) ; Nakka, VVSS (Nakka, Veera Venkata Siva Sudheer) ; Dhoria, SH (Dhoria, Sneha H.) "Stress Analysis in a Multiscale Composite Laminated Plate with Cutout at the Centre Using Finite Element Method", "Annales De Chimie-Science Des Materiaux", Volume47, Issue6, Page393-398, DEC. 2023, DOI10.18280/acsm.470605.

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1. Suresh Babu Koppula and Dr. N.V.V.S.Sudheer "Experimental Studies and Comparison of Various Mechanical and Thermal Properties of Lubricants by Adding Nano Additives of Al2o3 and Sio2" IOP Conf. Series: Materials Science and Engineering 455 (2018) 012056.
2. P. Anusha, Dr.NVVS Sudheer, "Experimental Determination Of Effect Of Gas And Liquid Pipeline Insulation On Cop While Using R22 And R410a In An SAC System", V National Conference on Refrigeration and Air Conditioning, organised by National Institute of Technology Karnataka, Surathkal, 10th-12th May 2018, jointly organised by IIT Madras, NIT Surathkal, ISHRAE and ASHRAE.
3. P. Anusha, Dr.NVVS Sudheer, "Effect of Gas and Liquid pipeline Insulations on COP in Vapour Compression Refrigeration System", National Conference on Air Conditioning Heat Transfer and Energy Conservation 2018, Organized by Department of Mechanical Engineering, Sreyas Institute of Engineering and Technology, In association with ISHRAE, 17-18 August 2018.
4. R. Madhu Kumar & N.V.V.S. Sudheer "Computational Fluid Dynamics Study on the Effects of L/D Ratio in a 2 stage Hot Cascade Vortex Tube" 2 nd International Conference on Emerging Trends in Engineering, Sciences & Management – 2018 (ICEESM'18).

5. P. Anusha, Dr.NVVS Sudheer, "Experimental Investigation of COP Using Hydro Carbon Refrigerant in a Domestic Refrigerator", **IOP Conf. Series**: MSE 225 (2017) 012236 doi:10.1088/1757-899X/225/1/012236. **Scopus Indexed**
6. Suresh Babu Koppula, N.V.V.S.Sudheer, "Design Considerations for Cold Fluid Flowing in outer Pipe of a Pipe in Pipe Heat Exchanger" National conference on Innovative Approaches in Mechanical Engineering" Conducted by Department of Mechanical Engineering, St. Martin's Engineering College, Secnderabad on 22nd and 23red September,2017.
7. Suresh Babu Koppula, N.V.V.S.Sudheer, "Influence of Pressure Drop, Re and Temperature in The Design of Double Pipe Heat Exchanger on Hot Fluid Side in Inner Pipe" 9th international conference on Recent Development in Engineering Science, organized by Mahratta Chanmber of Commerce, Induatries and Agriculture Senapati Bapat Road, Pune on 23rd December 2017.
8. Suresh Babu Koppula, N.V.V.S.Sudheer, "Design Criteria for Hot Fluid Flowing in Inner Pipe of a Double Pipe Heat Exchanger" 6th International Conference on Research Trends in Engineering Applied Science and Management (ICRTESM- 2017) organized by conderence info in association with academic science at Institution of Electronics and Telecommunication Engineers, 1st Cross Road, Bellary Road, Ganganagar, Bengaluru on 6th August 2017.
9. Suresh Babu Koppula, N.V.V.S.Sudheer, " "Influence of Pressure Drop, Re and Temperature in The Design of Double Pipe Heat Exchanger on Cold Fluid Side in Outer Pipe" National conference on Innovative Approaches in Mechanical Engineering Conducted by Department of Mechanical Engineering, St. Martin's Engineering College, Secnderabad on 22nd and 23red September,2017.
10. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das "Effect of Eco Friendly High Heat Transfer rate Soapnut solution in turning of Aluminium Metal Matrix Composite.Proceedings of the 6th International and 27th AIMTDR 2016 conference, December 16-18, 2016, Department of Production Engineering and Industrial Management, College of Engineering, PUNE. India.
11. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das "Optimization of Multiple performance Characteristics of the Electrical Discharge Machining process on Metal Matrix Composites using response surface methodology and desirability Approach".Proceedings of the 6th International and 27th AIMTDR 2016 conference, December 16-18, 2016, Department of Production Engineering and Industrial Management, College of Engineering, PUNE. India.
12. Anusha Peyyala, Dr.N.V.V.S.Sudheer, "Importance of colour in Radiation Heat Transfer, National Conference on Advances in Mechanical and Materials Science (AMMS-2015) held at Vishnu Institute of Technology, 28th November 2015.
13. Dr.N.V.V.S.Sudheer, "Effect of Refrigerated air and Oxidizing Flame in Turning of Aluminium Metal Matrix Composite" National Conference on Product Design and Manufacturing, November 21-22, 2015, MNIT Allahabad, India.
14. Dr.N.V.V.S.Sudheer and Dr. K.Kartheeka Pavan " Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning of Al/SiC MMc and Teaching-Learning –Based Optimization of Process Parameters, 5th International and 26th All

India Manufacturing Technology, Design and Research Conference, AIMTDR 2014, December 12-14, 2014, Deprtment of Mechanical Engineering, IIT Guwahati, Assam, India.

15. Dr.N.V.V.S.Sudheer and Dr. V.Chittaranjan Das " Investigation on Influence of Refrigerated Air and High Heat Transfer Rate MQL in Turning of Aluminium Metal Matrix Composite, 5th International and 26th All India Manufacturing Technology, Design and Research Conference, AIMTDR 2014, December 12-14, 2014, Deprtment of Mechanical Engineering, IIT Guwahati, Assam, India.
16. N.V.V.S.Sudheer "Effect of High Heat Transfer RateMQL in Turning of Aluminum Metal Matrix Composite" Proceeding of 2nd International conference on Industrial Engineering, November 20-22, 2013, NIT Surat.
17. N.V.V.S.Sudheer, K.V.J.Rao and N.Rajesh "Effect of Carburizing Flame and Oxidizing Flame on Surface Roughness in Turning Of Aluminium Metal Matrix Composite, Proceedings of the 4th International and 25th AIMTDR 2012 conference, December 14-16, 2012, Jadavpur University, Kolkata, India.
18. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao "Effect of Pressurized Refrigerated Air in Turning of Aluminium Metal Matrix Composite", Proceedings of the International conference on Recent advances in Mechanical Engineering, INCRAME-2011,April 21-22, 2011, Dr.M.G.R. Educational and Research Institute, University, Chennai.
19. N V V S Sudheer, KVJ Rao and G.Srinivasa Rao "Optimal Cutting Conditions in Turning of Al/Sic MMC Based on Experiment and a Linear Programming Model", 4th International Conference on Advances in Mechanical Engineering (ICAME2010), September 23-25, 2010, SVNIT, Surat, India.
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21. C. srinivas, N.V.V.S.Sudheer "Modeling and Simulation of Multi Automated Guided Vehicles in factory layout"International Conference 15th ISME08, March18th – 20th , 2008, Rajiv Gandhi Technological University, Bhopal.

12. Appreciation:

- Management of R.V.R & J.C. College of Engineering appreciated me for the services rendered to the college and **Rewarded with an amount of Rs.25,000/-.**
- Certificate of Appreciation for contribution to Asian E-Bike and Pro-Kart challenge, season-3 organized by Imagine to Innovate at Raghu Engineering College from 25th to 29th September 2019.
- R.V.R & J.C.College of Engineering Appreciated and awarded Memento in the college anniversary organized in February 2020.

13. Awards:

Dronacharya award for the contribution to E-BAJA team as a Faculty Advisor at Indore on 25th 2020 by SAE India.

14. Workshop organized:

Organized an orientation workshop (National) for SAE SUPRA and BAJA on 11th - 12thMarch 2016 with the coordination of SAE Hyderabad division.Students from various parts of India are participated in this workshop.

15. Seminars and Guest Lectures organized:

- Organized national seminar on Ethics and Human values in Engineering on January 5-6, 2017.
- Organized Guest lecture by Sri Garikapati Narasimha Rao on "Ancient Sciences of India" on 12th February 2020.

16. Guest Lectures:

1. Delivered lecture on "Applications of High Heat Transfer Rate fluids in Manufacturing" at Tirumala Engineering College, Narasaraopet, Guntur, Andhra Pradesh.
2. Delivered lecture on " Design and Analysis of Heat Exchangers" Saint Martins Engineering College, Hyderabad.
3. Delivered lecture on "High Heat Transfer Rate Fluids in Turning" AICTE sponsored Two weeks FDP on "Emerging Technologies and Challenges in Mechanical Engineering" during 21st October to 2nd November 2019.

17. Chair person :

Acted as a chair person for the session Artificial Intelligence In Improving Productivity in 2nd International Conference on Industrial Engineering, ICIE 2013, November 20-22, 2013, organized by Department of Mechanical Engineering, S.V. National Institute of Technology, Surat.

18. Languages Ability : ENGLISH, HINDI & TELUGU. (speak, write & read)

(N.V.V.S.SUDHEER)