

Name of Faculty Dr B. V. S. RAO
 Designation ASSISTANT PROFESSOR
 Nature of Job/Appointment Regular
 Date of Joining 01/07/2009
 E-mail bvsrao_mech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy(Mechanical)	Awarded
PG	M Tech (Advanced Manufacturing Systems)	First Class /Distinction
UG	B.E (Mechanical with specialization in Production)	First

Work Experience

Teaching 19 Years
 Research 12 years
 Industry 9 years
 Others Nil

Area of Specialization Manufacturing and Industrial engineering

Professional Memberships ISTE LIFE MEMBER

Responsibilities held at Institution Level

- Working As Joint Coordinator In The Institution's Alumni Coordination Committee
- Working As Member In Internal Complaints Committee

Responsibilities held at Department Level

- Member Of Course Expert Group— Production (CEG)
- Class Teacher For Iv Sem Mechanical Eng. Students
- A Councillor For B.E Mechanical Students
- Coordinated And Took The Students Belonging To V Semester, Mechanical For Industrial Visit During 2018.

Research Guidance Got Recognition As PhD Supervisor Under OU For Mech Branch
 Manufacturing processes,(Theory and LAB) ,Metal forming Technology(Theory and Lab), Tool Design, CAD/CAM, Engineering Drawing, Industrial Administration and Financial Management IAFM, Principles Of Industrial Engineering, Computer Integrated Manufacturing , Metal Cutting And Machine Tool Engineering (theory and Lab)

Courses Handled at Under Graduate / Post Graduate Level.

No. of Papers Published National Journals – 06 International Journals – 24
 National Conference – 04 International Conference – 13

Projects Carried out Mech, Projects- 2 B. Tech Projects- 15

Patents NIL

Technology Transfer NIL

Invited Speaker (Few Important/Prominent) -

No. of Books/Chapter Published with details

- Published One Book titled ANALYTICAL AND EXPERIMENTAL EVALUATION OF FLANGE WRINKLING IN SHEET METAL FORMING. Publishers, ARCHERS AND ELEVATORS PUBLISHING HOUSE.,2018
- Published Book Titled “ EXPERIMENTAL AND NUMERICAL STUDIES ON AXISYMMETRIC AND

NON AXISYMMETIC DEEP DRAWN CUPS, publishers,
EDUCREATION PUBLISHING ",2019

1. A Four Week Orientation Program ", at OSMANIA UNIVERSITY during 17/10/13 to .16/11/13
2. A 3 Week Refresher course on on "emerging trends in renewable energy sources and energy management." at JNTU Hyderabad.during 09 – 06 – 2014 to 28 – 06 – 2014.
3. A 1 week workshop in solidworks software jointly organized by JNTUH and Logical Solutions Ltd. from 28-01-2013 to 02-02-2013.
4. One week FDP on Entrepreneurship at Institute of Aeronautical Engineering from 16-11-2018 to 29-11-2018
5. ONE WEEK FDP ON CAD/CAM DURING 27/4 20 TO 1/5/20 organized by NITTTR, Chandigarh
6. ONE WEEK FDP ON WASTE MANAGEMENT. organized by NITTTR, Chandigarh BETWEEN 11/5/TO 15/5/20
7. ONE WEEK FDP ON SOCIAL ENTREPRENEURSHIP FOR TECHNICAL ENTREPRENEURS organized by NITTTR, Chandigarh from 18.05.2020 to 22.05.2020,
8. ONE WEEK FDP ON COMPUTER INTEGRATED MANUFACTURING organized by NITTTR, BETWEEN Chandigarh from 25.05.2020 to 29.05.2020,
9. .One Week Online FDP on "Outcome Based Education and NBA Accreditation Process" organized by Chaitanya Bharathi Institute of Technology, Hyderabad, during 28-05-2020 to 01-06-2020
10. . One Week Online FDP on "INDUSTRY 4.0 - A VISION OF DESIGN AND MANUFACTURING" organized by Mechanical Engineering Department, Chaitanya Bharathi Institute of Technology, Hyderabad, during 16-06-2020 to 20-06-2020
11. Disruptive technologies in Mechanical engineering ORGANIZED BY SRINIDHI INSTITUTE OF TECHNOLOGY, between 8/6/20 to 13/06/20
12. . FDP on "METAL FORMING TECHNOLOGY by NPTEL-AICTE,(JULY-SEPT)2019,
13. ACTED AS COORDINATOR FOR THE Two day workshop on Recent Trends in Manufacturing, held during 29 and 30 th July ,2013 by CBIT
14. Participated in a one week work shop on Establishment and management of Incubation Centers, conducted by NI-MSME, HYDERABAD.during 7/1 to 11/1/2019.
15. Participated in two day faculty programe at Vennar Ceramics Limited , KRISHNA Dist..on 17-18 october,2014 by confederation of indian industry,CII
16. Participated in a two day workshop on Additive/Generative manufacturing Technologies, held at IIT, Hyderabad during 7-8 ,2014.
17. Participated in one day proframme on CASTING DEFECTS & REMEDIES WITH CASE STUDIES on 06th of May, 2020 organised by MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC), Agra
18. Participated in one day proframme on PATTERN DESIGN & METHODING IN FOUNDRIES on 20.06.2020 to 21.06.2020, 2020 organised by MSME-TECHNOLOGY DEVELOPMENT CENTRE (PPDC), Agra

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

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19. Attended a one Day program titled "Excitements and Challenges in Nano Science and Technology" with Prof. B.S. Murty, Director, Indian Institute of Technology, Hyderabad on 02 May 2020, organised by Confederation of Indian Industry.
20. Successfully Completed "DIGITAL MANUFACTURING DESIGN" an online non-credit course authorized by UNIVERSITY OF NEWYORK and offered through Coursera on 27-04-2020.
21. Successfully Completed "Digital Thread :components" an online non-credit course authorized by UNIVERSITY OF NEWYORK and offered through Coursera on 10/05/2020.
22. Successfully Completed "Work Smarter, Not Harder: Time Management for Personal & Professional Productivity" an online non-credit course authorized by UNIVERSITY OF California and offered through Coursera on 6/06/2020.
23. Successfully Completed NPTEL online Course On Principles Of Metal Forming Technologies, July-Sept 2019 [8 Weeks].
24. Successfully Completed NPTEL online Course On Principles Of Manufacturing Process Technologies, Jan-April 2019 [12 Weeks]
25. Successfully Completed NPTEL online Course On Fundamentals Of Welding Science And Technology Jan-March 2019 [8 Weeks]
26. Participated In 12 Online Sessions Conducted By IIC Of MHRD'S Innovation Cell, New Delhi From 28/04/2020-22/05/32020
27. AICTE Training And Learning - Online FDP on "Molecular Manufacturing" Organised by All India Council for Technical Education, 19 Oct 2020 to 23 Oct 2020.
28. One Week Faculty Development Programme on "Innovative Product Design, Precision Engineering and Optimization (IPDPEO - 2020)", Vasavi College Department of Mechanical Engineering, 10th – 14th August 2020.
29. One Week Online Faculty Development Program on "Recent Advances in Mechanical Engineering: A Research Perspective" MGIT - Department of Mechanical Engineering (Mechatronics), 6-10 July, 2020.
30. One Week Online Faculty Development Program on "Recent Trends in Manufacturing" MGIT - Department of Mechanical Engineering (Mechatronics), 28 July – 01 August 2020
31. Teaching and Learning of Additive Manufacturing Technology- "Emphasis on Metal 3D Printing" NIT, Teaching and Learning Centre – Warangal, 13 – 18 Jul 2020.
32. Online AICTE Recognized Faculty Development Programme on "Action Research for improving Quality of Technical Education System", National Institute of Technical Teachers Training and Research- Chandigarh, 27/07/2020 to 31/07/2020
33. Attended FDP on Establishment & Management of Business Incubators from 10/03/2022 to 12/03/2022 conducted by NI-MSME
34. Attended an eight day FDP on "INDUSTRY 4.0 & SMART MANUFACTURING" organized by the



Department of Mechanical Engineering, National Institute of Technology (NITW), Warangal, Telangana, India during 19 to 26 February, 2022. The programme was sponsored by Ministry of Electronics and Information Technology (MeitY), GOI

35. Attended an Advanced FDP on Smart Manufacturing Organised by AICTE IDEA Lab during 20/07/2022 – 26/07/2022 at SGITS Indore.

Details of Journal Publications/
Conferences **(National and International)**
International Journal

1. B V S Rao, P Anjani Devi, experimental analysis of composite brake linings, International Journal of Mechanical and Production Engineering Research and Development; ISSN: 2249-6890; E-ISSN: 2249-8001 (Online) – SCOPUS INDEXED. Vol 10, issue 3, June 2020.
2. G Kishan, B V S Rao, Mathematical Modelling And Analysis Of Hoop Stress In Hydroforming Deep Drawing Of N –Sided Polygonal Cup, International Journal Of Innovative Technology And Exploring Engineering (IJITEE), ISSN NO 2278-3075, Vol 9 , Issue 8, June 2020.
3. P V R Ravindra Reddy , , Dr. G Chandra Mohan Reddy, B V S Rao, Laxmaiah ,” Effect of Various Parameters on the Bead Geometry and Flexural strength of MIG welded Joint”, (IJITEE) international of Innovative Technology and Exploring Engineering, ISSN 2278-3075, volume 9 ,issue 3, January 2020.
4. Dr. B V S Rao, Determination of formability of bimetallic sheet using forming limit diagram, Materials Today Proceedings. 18 (2019)2787-2795
5. Dr.B.V. S RAO, P. Ravi Kiran, Y. Shashank, S. Goutham Experimental Investigation of Spring Back and Wrinkling Phenomena in Square Pipes during Bending, 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: Oct2019
6. B V S RAO, Jyothirmayi, “ Design And Fabrication Of A Compound Die To Make Hexagonal Washer(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 - 4; Edition: Aug 2019, (517-528)
7. Dr. B V S Rao, Dr. P V Ravindra Reddy, M Bharath Kumar, T Dinesh K Singh, B Meghana, Experimental Investigation to enhance the Compression Strength of CO2 moulding process by preheating the mould to different temperatures, SBIT , KHAMMAM, ISBN NO 978-93-5321-384-8 E-ISSN: 2249-8001 (Online)
8. N. Keerthi Shrivani, K T Ujwal Pratap Krishna, Dr. B V S Rao, Designing and Modelling of and Autonomous Robot for Cleaning Lake Surface, Global Journal of Engineering Sciences and Researches. ISSN 2348-8034, 2018
9. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao. “ Experimental investigation of major and minor strains in different regions of deep drawn cups, International Journal of Mechanical and Production Engineering Research and Development; ISSN: 2249-6890; E-ISSN: 2249-8001 (Online) – SCOPUS INDEXED. Vol 8 issue 3 pp 441-448, June 2018.
10. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, and P V R Ravindra Reddy, “Numerical Analysis on The effect of Various Parameters on Fracture Limit for Deep Drawn Cups’, Materials today : PROCEEDINGS,5(2018)1387-1400 , Science Direct.
11. B V S RAO, G Prasanna Kumar, Design and Vibration Analysis of Steam Turbine Low Pressure Blade-3 To enhance efficiency , International Journal Of Engineering And Science Research (IJESR), vol-8, Issue-5,1-7, ISSN2277-2685, May 2018
12. B V S RAO, G Prasanna Kumar, Optimization of Machining Parameters In Turning Operation Using Taguchi Approach, International Journal Of Engineering And Science Research (IJESR), vol-8, Issue-4,138-143, ISSN2277-2685, April 2018
13. N Keerthi Sharvanni , B V S Rao , Introducing Robots Without Creating Fear Of Unemployment And High Cost In Industries, International Journal Of Engineering Technology Science And Research (IETSR) volume05 issue01 , January 2018 , ISSN 2394-3386
14. Dr. B V S Rao, A. Divya Bharathi, Enhancing Productivity through Six Sigma in Manufacturing Industries, Global Journal of Engineering Sciences and Researches. ISSN 2348-8034 , 2018
15. G Kishan, B V S Rao, Virtual Manufacturing: Design And Manufacturing Tools, International journal for innovative engineering and management research, volume 06 issue07 August 2017, ISSN 2456-5083.

16. B.V.S.Rao, G.Chandra Mohan Reddy, G.Krishna Mohan Rao, P.V.R.Ravindra Reddy, "Numerical Analysis on the Effect of Friction Coefficient on Wrinkling in Deep Drawing with Linearly Variable Blank Holding Force", International Journal on Mechanical Engineering and Robotics (IJMER) , ISSN (Print) : 2321-5747, Volume-4, Issue-3, 2016.
17. G Kishan, B V S Rao, P Ravinder Reddy, N V Srinivasulu, Structural Analysis of Dyneema-Epoxy Based Hovercraft Hull using Finite Element Method , International Journal on Mechanical Engineering and Robotics(IJMER, ISSN(print):2321-5747,volume-4, issue-3,2016
18. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, P Ranadheer and P V R Ravindra Reddy," LOW COST KNOWLEDGE BASE SYSTEM FOR DESIGN OF DEEP DRAWING DIE SET", Vol. 2, No. 1, January 2013 © 2013 IJMERR. International Journal Of Mechanical Engineering And Robotics Research.
19. B.V.S.Rao, P.V.R.Ravindra Reddy, G.Chandra Mohan Reddy, G.Krishna Mohan Rao, "Optimization of Blank Holding Force in Deep Drawing of Cylindrical Cups Using Taguchi Approach", ISSN: 2277-3754 ISO 9001:2008 Certified , International Journal of Engineering and Innovative Technology (JEIT) Volume 2, Issue 3, September 2012
20. P V R Ravindra Reddy, B V S RAO, G Chandra Mohan Reddy, P Radha Krishna Prasad, G Krishna Mohan Rao, Parametric Studies on wrinkling and Fracture Limits in Deep drawing of Cylindrical cups . International Journal Of Emerging Technology And Advanced Engineering (JETAE), PP218-222, ISSN2250-2459,Vol.2 , Issue 6 , Jne 2012.onal Journal
21. B Likhith, Dr. B V S RAO, Role of 3D Printing in Food Industry- A Review, International Journal of Engineering and Innovative Technology (JEIT) Volume 10, Issue 1, July 2020, ISSN: 2277-3754
22. Koustubh Soudartha, Mohammed Kaleemullah, Dr. B.V.S. Rao, Impact of piezoelectric materials in electric vehicles, International Journal of Engineering and Innovative Technology (JEIT), Volume 10, Issue 2, August 2020, ISSN: 2277-3754
23. B. V. S. Rao¹, Dr. P. Prabhakar Reddy², M. Bharath Kumar³ Strategies for Enhancing Productivity and Quality in Industries , International Journal of Science and Research (IJSR). ISSN: 2319-7064,SJIF (2022): 7.942
24. B.V.S. RAO, KRITI SARILLA, G. PRANAVA,Impact of Light Pollution on Environment and Strategies to Reduce the Adverse Effects, INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY, Volume 9 Issue 1 | ISSN: 2349-6002

National Journal

1. B V S RAO," Impact of Drawing Ratio and Shape On thickness distribution along the Walls of Deep drawn cups". Manufacturing Technology Today, vol.17, No. 6, June 2018. ISSN: 0972-7396, page no 3-10.
2. Sai Manish Reddy Mekarthy and B V S Rao, "Modernistic method of enhancing productivity by reusing of slag as flux in submerged arc welding & study of its impact on mechanical properties". Manufacturing Technology Today (MTT), Vol-16, Issue-7, pp 3-11, Oct-2017.
3. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, and P V R Ravindra Reddy, "Determination of blank size for non-axisymmetric non-standard deep drawn cups" , Manufacturing Technology Today (MTT), Vol 14, Issue 7, July 2015, ISSN: 0972-7396, page no 3-14.
4. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, P V R Ravindra Reddy, "Numerical Studies on the Effect of Various Parameters on Wrinkling in Deep Drawing of Cylindrical Cups", Manufacturing Technology Today (MTT), Vol-16, Issue-7, pp 5-16, July 2016.
5. B.V.S Rao, G. Chandra Mohan Reddy, Rajan Deepa, P.V.R. Ravindra Reddy, Indian Journal of Science, Year : 2016, Volume : 23, Issue : 80
6. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, and P V R Ravindra Reddy Influence of Drawing Ratio on Thickness Variation along the Walls of Deep Drawn Cups, Journal of Manufacturing Engineering (SME), Vol- 11,Issue-2, June, 2016, pp 086-093

International Conferences:

1. B V S RAO ,Determination of formability of bimetallic sheet using forming limit diagram, 9th International Conference on Materials Processing and Characterization, held during 8th to 10th March 2019 at GRIET, Hyderabad
2. Dr. B V S Rao, Dr. P V Ravindra Reddy, M Bharath Kumar, T Dinesh K Singh, B Meghana, Experimental Investigation to enhance the Compression Strength of CO₂ moulding process by preheating the mould to different temperatures, 1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS), held during 25th to 27th October 2018.
3. . Keerthi Sravani, K. T. Ujwal Pratap Krishna, Dr. B. V. S Rao Designing and Modelling of an Autonomous Robot for Cleaning lake Surface, 1st International Conference on Advances in Mechanical Engineering (ICAME), held on 21st and 22nd December 2018.

4. Dr. B V S Rao, A. Divya Bharathi Enhancing Productivity through Six Sigma in Manufacturing Industries, 1st International Conference on Advances in Mechanical Engineering (ICAME), 21st and 22nd December 2018.
5. G Kishan, B V S Rao, P Ravinder Reddy, N Sadanandam , Design And Topology Optimization Of Car Wheel Rim Using FEA , International Conference On Latest Research In Engineering Science , 12th and 13th August 2017 .
6. B V S Rao, Dr. G Chandra Mohan Reddy, G Krishna Mohan Rao, P V R Ravindra Reddy, "Numerical Analysis on the Effect of Friction Coefficient on Wrinkling in Deep Drawing with Linearly Variable Blank Holding Force", International Conference on Technological Innovations in Mechanical Engineering (TIME-2016), 10th -11th Feb 2016, ISSN.97-93-1692-07-1., ISBN 978-93-81692-07-1
7. B V S Rao, G Chandra Mohan Reddy, G Krishna Mohan Rao, and P V R Ravindra Reddy, "Numerical Analysis on The effect of Various Parameters on Fracture Limit for Deep Drawn Cups", International Conference on Processing of Materials, Minerals and Energy, PMME 2016, E, ScienceDirect, Elsevier.
8. G Laxmiah , P V R Ravindra Reddy , B V S Rao , Vinay Kumar , A A sriramkrishna , Investigation , Analysis And Reduction Of Casting Defects In Co2 Moulding Process-A Case Study M International Conference On Technological Innovations In Mechanical Engineering (Time 2016) , 10 th , 11 th Feb 2016(vol 2) , ISBN 978-93-81692-07-1
9. G Kishan, B V S Rao, P Ravinder Reddy, N V Srinivasulu, Structural Analysis of Dyneema-Epoxy Based Hovercraft Hull using Finite Element Method, International Conference On Technological Innovations In Mechanical Engineering (Time 2016) , 10 th , 11 th Feb 2016(vol 2) , ISBN 978-93-81692-07-1
10. B V S Rao and G Chandra Mohan Reddy, Presented a paper on "Impact of friction on deep drawing process" in International Conference on Advanced Tribology (ICAT2008), Singapore.
11. G Kishan B.V.S. Rao, 3D-Metal Printing Technologies: Comparative Study of the 'Electron Beam Melting' and 'Selective Laser Sintering'
12. G.Kishan, B.V.S.Rao "Analytical Prediction of Drawing force for N-Sided Polygonal Deep drawn Cup" (Paper ID-2021463) at the 1st International Conference on DEVELOPMENTS IN SUSTAINABLE MATERIALS, MANUFACTURING AND ENERGY ENGINEERING (ICDSME-2021) held during 3 rd & 4 th April, 2021 by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet.
13. Likhith, B V S RAO and G Chandramohan Reddy, ROLE OF ROBOTS INTEGRATED WITH ARTIFICIAL INTELLIGENCE IN FOOD INDUSTRY., 1st International Conference on DEVELOPMENTS IN SUSTAINABLE MATERIALS, MANUFACTURING AND ENERGY ENGINEERING (ICDSME-2021) held during 3 rd & 4 th April, 2021 by Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet

National Conferences

1. N. V Srinivasulu, L. Suresh Kumar, G. Laxmaiah, P. Kiran Kumar, B. V. S Rao Presented a paper on "Support by State and Central Government for Innovation and Entrepreneurship Development in India, National Conference Proceedings on Skill Development and Entrepreneurship " in association with VTU at S. G Balekundri Institute of Technology, Belagavi, 27-28 April 2018.
2. G Kishan, B V S Rao, 3D Printing : A Review , All INDIA Seminar On Digital And Automation Entry Into The Future Factories , The Institution Of Engineers (INDIA) , July14th-15th , 2017 , Hyderabad.
3. B vs Rao, Sohail Ahmed And Chandra Mohan Reddy Designing A Measuring Device For Quality Control In Deep Drawn Cups, National Conference On Advances In Mechanical Engineering At Cbit , Hyderabad , On March 25-26,2013
4. Mr. B V S Rao, Dr. G. Chandra Mohan Reddy, Dr. G. Krishna Mohan, "Experimental Investigation on Deep Drawing Operation by using Fem Approach", National Conference at AVC College of Engineering, Mannampandal, Mayiladuthurai (TN).