

Dr. V.V.N. Satya Suresh

Professor of Mechanical Engineering &
Director, Career Development Cell

Education Qualifications: B.E(Mech), M.Tech(CAD/CAM), M.Sc (VES), Ph.D

Specialization: Design & Manufacturing



ADDRESS:

- B – Block -Room No.102

JNTUH ID:

69150402-130719

EMAIL:

vvnsatyasuresh_mct@mgit.ac.in

DATE OF JOINING:

04-11-1997

EXPERIENCE - 25 Years

- Teaching - 25
- Research -4
- Industry -2
- Others –

SUMMARY:

- Publications - 20
- Conferences - 7
- Patents – 3
- Books – 2
- Honors/Awards - 3

EVENTS:

- Organized - 5
- Attended - 26

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- <https://www.facebook.com/mgithyderabad>
- <https://www.instagram.com/mgithyderabad>
- <https://www.linkedin.com/company/mgithyderabad>
- <https://twitter.com/MGIThyderabad>

Membership of Professional Bodies:

1. Fellow of Institution of Engineers (FIE) – F-1272655, 2020
2. American Society for Mechanical Engineers (ASME) – 102092304, 2017
3. Indian institute of Welding(IIW) Life member (VIZ/M/R-11366/L), 2010
4. Indian Society for Technical Education Life Member (ISTE) LM – 35549, 2003
5. Life Member of Sparc, a research body of Rajayoga Education and Research Foundation at Brahma Kumaris organisation

Responsibilities Held at Institution Level:

1. Additional Controller of Examinations from 18-10-2021 to 25-08-2022.
2. Co-ordinator, AICTE-IDEA lab
3. In-charge, Lift Maintenance (2013-2021)

Responsibilities Held at Department Level:

1. Member, Board of Studies of Mechanical Engineering from 2021 to till date.
2. Placement Co-ordinator (2012-16)
3. Incharge, Departmental Library (2010-Till date)

Research Guidance:

1. Guided 8 M.Tech students
2. Guided 62 B.Tech projects

Honors/Awards Received:

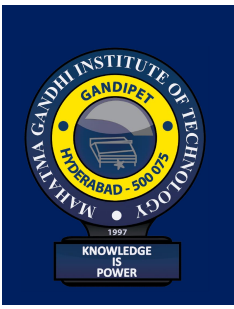
1. DRDO's 'Dare to Dream' National Award in 2019
2. Certificate of Appreciation award from TEXAS instruments in 2020
3. AICTE's Vishwa karma award in 2021

Courses Handled at Under Graduate /Post Graduate Level:

- **UG:** Engg. Mechanics, Computer Graphics, CAD/CAM, Strength of Materials, Human values and Professional Ethics, Finite Element Method & Engg. Drawing,
- **PG:** Advanced CNC, Rapid prototyping, Autotronics & Vehicle Intelligence

Publications:

1. V.V.N. Satya Suresh, Srinivasa Prakash Regalla, Amit Kumar Gupta (2019) "Minimization of weld line movement in heat-assisted forming of tailor welded blanks" Proceedings of Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 233 (11) 3760-3768. (SCI/SCIE)
2. V.V.N. Satya Suresh, Srinivasa Prakash Regalla, Amit Kumar Gupta (2018) "Optimum parameters to minimize weld line movement in the warm forming of tailor-welded blanks" Journal of the Brazilian Society of Mechanical Sciences and Engineering, 40 (4),234. (SCI/SCIE)
3. V.V.N. Satya Suresh, Srinivasa Prakash Regalla, Amit Kumar Gupta (2017) "Combined effect of thickness ratio and selective heating on weldline movement in stamped tailorwelded blanks" Materials and Manufacturing Processes, 32(12), 1363-1367 (SCI/SCIE)
4. Satya Suresh V.V.N, Y. Kalyani (2022) " Real time detection of edge defects on a rolled steel sheet using transfer learning technique " Springer's Lecture Notes in Mechanical Engineering,

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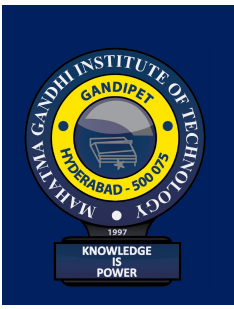
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Accepted for publication (SCOPUS)

5. Satya Suresh V.V.N, Ankit Kumar (2022)“ Development of an automated system for inspection of rolled steel sheets using artificial intelligence technique” Springer’s Lecture Notes in Mechanical Engineering, Accepted for publication (SCOPUS)
6. Ankit kumar C, Satya Suresh V.V.N, (2022) “Development of AI based automated surface inspection of steel sheets” The International journal of analytical and experimental modal analysis, Vol. 14(111), pp.627-635) (UGC CARE-II journal)
7. Satya Suresh V.V.N, Suresh A, Srinivasa Prakash Regalla (2021) “Study of various curvilinear weld profile shapes and its effect on the movement of weld line in tailor welded blanks” Springer’s Lecture Notes in Mechanical Engineering, pp.157-164(SCOPUS)
8. V.V.N. Satya Suresh, A. Suresh, S.P. Regalla, P.V. Ramana, O. Vamshikrishna (2020) Sustainability aspects in the warm forming of tailor welded blanks, E3S Web of Conferences 184, 01042 (SCOPUS)
9. Mohd Mushtaquddin, Satya Suresh V.V.N, (2020) “Robot vehicle for safety monitoring of material handling and automated navigation system” Journal of Engineering Sciences, Vol.11,Issue. 1, Jan/2020, ISSN No:0377-9254
10. Satya Suresh V.V.N, Srinivasa Prakash Regalla (2018) “ Approximation of initial shape of the weld line in the stamping of tailor welded blanks” IOP Conf. Series: Materials Science and Engineering, 455, 012136 (SCOPUS)
11. Vakada Venkata Naga Satya Suresh, Srinivasa Prakash Regalla (2017) “Investigations on dimensional accuracy of stamped tailor welded blanks under warm forming conditions” ASME Proceedings of the International Mechanical Engineering Conference and Exposition 2017, Paper No.IMECE2017-72478, pp. V002T02A071 .doi: 10. 1115@IMECE2017-72478. (SCOPUS)
12. Satya Suresh V.V.N, Srinivasa Prakash Regalla, Amit Kumar Gupta (2017)“Influence of geometric parameters on weld line movement in the selective heating of tailor welded blanks” Advances in Materials Processing Technologies,3, 385-392 (Taylor andFrancis) (SCOPUS)
13. Satya Suresh, V.V.N, Srinivasa Prakash Regalla (2017) A Novel Deep Drawing Tooling With Selective Heating And Cooling For Tailor Welded Blanks (TWBs)” The Patent Office Journal No.25/2017, 21694
14. Satya Suresh V.V.N, Srinivasa Prakash Regalla, Ratna Sudheer G (2016) “Effect of localized heat treatment on the weld line shift in deep drawing of tailor welded blanks(TWBs)”AIP conference proceedings, 1769, 100015 (1-10). (SCOPUS)
15. Satya Suresh V.V.N, Srinivasa Prakash Regalla, Amit Kumar Gupta, Padmanabham G (2015)“ Weld line shift in the case of Tailor welded blanks subjected to differential strengths with respect to TIG and Laser welding, Materials Today Proceedings, 2, pp 3501-3510. (SCOPUS)
16. Pavan Kalyan L, Satya Suresh V.V.N (2015) “ Human-Robot Interaction with an assistive robot to help people with severe motor impairments” International Journal of Scientific Engineering and technology research, ISSN 2319-8885, vol 4, Issue 18 pp3311-3315
17. Pavan Kalyan L, Satya Suresh V.V.N (2015) “ Fabrication of a Human-Robot Interaction with an assistive robot to help people with severe motor impairments using PC control” International Journal of Professional Engineering Studies, vol 5 Issue 1, pp 65-69
18. Arman Khan,V.V.N. Satya Suresh, Srinivasa Prakash Regalla (2014) “Effect of thickness ratio on Weld Line Displacement in Deep Drawing of Aluminium Steel Tailor Welded Blanks” Procedia Materials Science, 6, pp 401-408 (Elsevier)
19. Satya Suresh V.V.N., Srinivasa Prakash Regalla, Uday kumar R (2014) “Experimental investigations, Modeling and Simulation of Tailor welded blanks: A review” International Journal of Current Engineering and Technology, Special issue-2, 141-146
20. Prasad Reddy P.V, Satya Suresh V.V.N (2013) „A review on importance of universal gripper in industrial robot applications“ International Journal of Mechanical Engineering and Robotics research, vol.2. no.2, pp 255-264, ISSN 2278-0149 (SCOPUS).
21. M.Pratyusha , P.Venkata Ramana , V.V.N.Satya Suresh, K. Ramanjaneyulu (2021) “Electrical Discharge Machining of Titanium Alloy - Process Parameter Optimization by Grey Relational Analysis”, International Journal of Management, Technology And Engineering, XI (VI), 134-142

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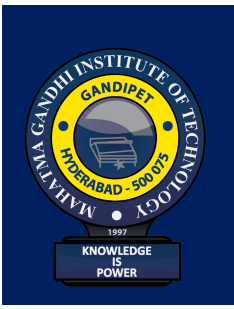
1. Satya Suresh V.V.N., Srinivasa Prakash Regalla, Amit Kumar Gupta (2016) “Influence of weld profile shape on the weld line movement of Tailor welded blanks” at Sheet Metal Forming Research Association (SMFRA'16) Conference held at IIT Bombay between 7th -9 th December, 2016.
2. V.V.N. Satya Suresh, Srinivasa Prakash Regalla “Comparison of welding processes in the forming of tailor welded blanks” in the 6 th WRCC organized by International Institute of Welding during 7-9 April, 2016 at Hyderabad
3. V.V.N. Satya Suresh, Srinivasa Prakash Regalla “A combined FEA and design of experiments approach for the design and analysis on the weld line movement in localized warm forming of Tailor Welded Blanks” at DPLC, 2016 conference held in BITS-Pilani, Hyderabad campus, March 20, 2016.
4. V.V.N. Satya Suresh, Srinivasa Prakash Regalla “Effect of weld line position and thickness ratio on the movement of weld line in the warm forming of Tailor welded blanks” at RAMR, 2016 conference held in BITS-Pilani, Hyderabad campus, April 22-23, 2016.
5. Satya Suresh V.V.N., Srinivasa Prakash Regalla “Approximation of perform shape for the Minimization of weld line shift in deep drawing of Tailor welded blanks in the Advances in Materials Joining Technologies [AMJT 2015] organized by Indian Institute of Welding, Hyderabad branch on 29th May 2015
6. V.V.N. Satya Suresh, Srinivasa Prakash Regalla, Amit Kumar Gupta “Minimization of weld line movement and improvement of geometric accuracy in the forming of Tailor welded blanks using finite element methods” at International Symposium for Research Scholars (ISRS) at IIT Madras, December 11-13, 2014
7. Satya Suresh V.V.N., Srinivasa Prakash Regalla “Minimization of weld line movement by the approximation of weld in the forming of Tailor welded blanks (TWB) using finite element simulation” in the workshop on Advances in Welding and Surface Engineering (AWSE) organized by IIW, Hyderabad branch in October 2014

Patents: (Published)

1. V V N Satya Suresh, R Srinivasa Prakash “A Novel Deep Drawing Tooling With Selective Heating And Cooling For Tailor Welded Blanks (TWBs)” Indian Patent Application No. 4038/CHE/2015, August 04, 2015
2. S Santhi, D Hanumantha Rao, PvsI Narayana, U S Jyothi, K Srinivasa vadayar, V V N Satya Suresh “Quantification of filling ability distance obtained from casting simulations using virtual casting software” Indian Patent Application No 202041055607, December 21, 2020
3. V V N Satya Suresh, , A, Suresh, R Srinivasa Prakash, S Santhi, “Improving formability of tailor welded blanks by use of spline curve as weld profile” Indian Patent Application No 202041055606, December 21, 2020

Research & Consultancy:

1. As Principal Investigator received research grant worth Rs. 4.8 lakhs from UGC towards Minor research project with project no. F MRP-6160/15 (SERO/UGC) in the year 2015 (Completed).
- 2 As Principal Investigator received research grant of Rs. 2.99 lakhs from JNTUH university with Project No. JNTUH/TEQIP-III/CRS/2019/MECH/06 towards collaborative research project under TEQIP-III project in the year 2019 (Completed).
- 3 As a Co- Principal Investigator for a project titled „Design and Analysis of Optics and optomechanics for a three Wavelength Laser Beam platform“ worth Rs. 9.75 lakhs from DRDO, Hyderabad in the year 2019 (Ongoing).
4. As a PI, receives \$200 towards ‘AI based swab robot’ a student project conducted by Texas Instruments (Completed)
5. As a PI, shortlisted for the project titled ‘A novel method of extracting fuel from plastic waste using a combination of catalytic process’ by MSME in the year 2022 for an amount of Rs. 15 lakhs.

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No. of Books/Chapter Published with details:

1. Published One Chapter in 'Recent advances in manufacturing, automation, design and energy technologies' Proceedings from ICoFT 2020 Lecture Notes in Mechanical Engineering, pp.157-164(SCOPUS)
2. Published a book titled "Open Heart", a Self counseling book for meditation practice

Events Organized:**Workshop/Conferences:**

1. Organised 'SPIRITECH', a three-day national workshop to Promote Human Values among Youth from 15 -17 September, 2022

FDPs/STTPs:

1. Organised a online FDP on „Recent trends in Manufacturing“ between 28th Jul – 01st August, 2020
2. Organised one week AICTE's STTP on ' Recent advances in Micro electro mechanical systems (MEMS), Mechatronics and their applications for future challenges 2020
3. Conducted FDP on ' Recent trends in Manufacturing' 2020
4. Organised one week students program- 'IGNITO' in the year 2020
5. As a co-ordinator, organised two day on students program- Technovation in the year 2020

Refresher Courses/ Workshops/ Webinars/ Seminars/ Guest Lecture:

1. Delivered a guest Lecture on "Research Methodology" at JNTUK, Kakinada to M.Tech students on 13-12-2018
2. Delivered a lecture on „Role of AI in treating COVID patients“ held between 13-17th September 2019 during 13th National Spirituality In Reserchers (SIR) Conference and Meditation Retreat, Mt. Abu, Rajasthan
3. Delivered a talk on 24th August, 2020 for BHEL employees on the topic „ Need of high spirited employees for an Organization" through online Webex platform
4. Delivered a lecture on 'Inculcating human values among engineering students' at JBREC, Hyderabad on 3rd December, 2021
5. Delivered a talk on 'Challenges in manufacturing of BIW components using Tailor welded blanks' by SAEINDIA on 11th June, 2022

Events Attended:**FDPs/STTPs:**

- a. AICTE-ATAL FDP on „ Artificial Intelligence“ 21st to 25th Sept, 2020 conducted by NIE, Mysore
- b. AICTE-ATAL FDP on „ Sensor Technology“ 16th - 20th Nov, conducted by CSIR-AMPRI, Bhopal
- c. FDP on „Recent advances in MEMS, Mechatronics and their applications for future challenges“ 21st to 26th Sept, 2020, conducted by MGIT, Hyderabad
- d. FDP on Role of Machine Learning & Data Science in AI between 28th June-2nd July conducted by MGIT, Hyderabad
- e. Workshop on Learn to design your own solar home system between 21-25th June conducted by IIT Bombay
- f. FDP on SCIIAB- An open source substitute for MATLAB between 25th-30th May conducted by JNTUCES, Hyderabad
- g. FDP on Recent Advances in Material Characterization between 23rd - 28th May conducted by GRIET, Hyderabad



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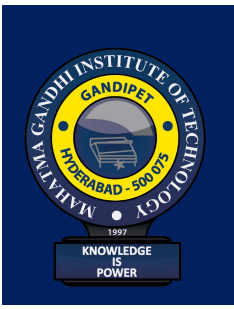
- Refresher course in Engg. Graphics and Engg. Mechanics conducted by ISTE in the year 1998
- Workshop on ' Nano materials and Mechanics' conducted by AICTE in the year 2010
- Webinar on Versatile machining techniques on 6th May conducted by MasterCAM
- Webinar on Ventilator design on 7th May conducted by CII
- Webinar on Make education Win on 8th May conducted by CALYXPOD
- Webinar on SIMSOLID on 13th May conducted by Excel design technologies
- Webinar on Opportunities for 3D printing business in India on 19th May conducted by Foil printer
- Webinar on COVID-19 related Technologies on 22nd May conducted by BML Munjal University
- EPS seminar on Thermal Management Challenges and Opportunities for Heterogeneous Packages on 27th May conducted by IEEE
- Challenges in Manufacturing thru" Wire Arc Additive Manufacturing –WAAM Technology with few Applications on 7th April conducted by IIW members
- Use of additive manufacturing for Disaster Management on 18th April conducted by NPTEL course
- Webinar on Design for Additive manufacturing on 22nd April conducted by Ansys
- Webinar on simulate to design on 25th April conducted by 3DS solidworks
- Online teaching-learning and online assessment demo on 28th May conducted by Inpods
- ICOFT 2021 conference organized by NIT puducherry
- IPRomm 2020 conference organized by BITS-Pilani Hyderabad campus.
- ICOFT 2020 conference organized by NIT puducherry
- ICMED 2020 conference held in GRIET, Hyderabad between 10-12 July, 2020
- ICAAMM-2018 conference held at MLRIT, Hyderabad on 13th & 14th July 2018
- ASME"s **IMEchE conference held in Florida, USA between 3-9 November, 2017**
- **AMPT 2016, Malaysia** between 8-11 November, 2016
- **19th ESAFORM conference held at Nantes, France** between 27-29th April, 2016
- **SMFRA 16** conference held at **IIT Bombay**, Mumbai, between 8- 9 Dec, 2016
- **WRCC** organised by International Institute of Welding (**IIW**) during 7-9 April, 2016 at Hyderabad
- **ICMPC** on 14th March, 2015 held at Griet Hyderabad
- **ISRS** at IIT Madras, December 11-13, 2014
- **ICMPC** on 14th March, 2014 held at Griet Hyderabad
- **ICAMS** held on 11th January, 2014 at Vardhman college of engineering at Hyderabad
- **DPLC**, 2006 conference held in BITS-Pilani, Hyderabad campus
- **RAMR**, 2016 conference held in BITS-Pilani, Hyderabad campus
- **AMJT 2015** organized by IIW, Hyderabad branch on 29th May 2015
- **AWSE** organized by IIW, Hyderabad branch in October 2014

Online Certifications:

1. FDP on 'Digital Manufacturing with Autodesk Fusion 360' between Jan-May 2020 conducted by Coursera
2. FDP on 'AutoCAD for Design and Drafting Exam Prep' between Jan-May 2020 conducted by Coursera

Any Other Contribution:

1. Reviewer for CAD/CAM text book by P.N. Rao (Mc Graw Hill)
2. Reviewer for following journals
 - a) Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer)
 - b) Proceedings of Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture (SAGE)



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- c) Journal of Materials Engineering and Performance (Springer)
 - d) World journal of Engineering (Emerald publishing)
 - e) Proc. IMechE, Part D: Journal of Automobile Engineering
 - f) SAEINDIA
 - g) Advances in material science and mechanical engineering
3. Session chair at IMECE, ASME conference held at TAMPA, Florida, USA
 4. Alumnus at IIT Bombay (2003-06)
 5. Participated in India Innovation Challenge Design Contest 2018 conducted by IIM,Bangalore
 6. Did P.G. Diploma in Value Education and Spirituality from Annamalai University in the year 2010
 7. Countries visited : Three (France, USA & Malaysia)
 8. Received travel grant of **Rs. 1.47 lakhs** from **UGC** towards presenting paper at the 19th ESAFORM conference held at Nantes, France between **27-29th April, 2016**
 9. Received **\$ 200** worth electronic components as grant from Texas Instruments towards student project in the year **2019**