

CURRICULUM VITAE

- 1. NAME** : Dr. L. Siva Rama Krishna
- 2. DESIGNATION** : Professor
- 3. PLACE OF WORK & ADDRESS** : Department of Mechanical Engineering
University College of Engineering (Autonomous)
Osmania University
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4. EDUCATION

- Ph.D (Mechanical Engineering), January 2010, JNTU, Hyderabad
- M.Tech (CIM), 2001, Regional Engineering College (REC - Presently known as NIT), Warangal
- B.Tech (Mechanical Engineering), 1991, Kakatiya University (KITS), Warangal

5. WORK EXPERIENCE (Academic)

- Working as Professor from 2018 to till date, Dept. of Mechanical Engg., Univ.College of Engineering, Osmania University
- Worked as Associate Professor from 2015 to 2018, Dept. of Mechanical Engg., Univ.College of Engineering, Osmania University
- Worked as Assistant Professor from 2007 to 2015, Dept. of Mechanical Engg., Univ. College of Engineering, Osmania University.

6. AREAS OF RESEARCH INTEREST

Additive Manufacturing (3D Printing), CAD/CAM and CIM

7. Research Citation Links: (Like Vidhwan, Web of Science, Google etc):

Vidhwan Citation Link : <https://vidwan.inflibnet.ac.in/profile/590191>

Google scholar citation link : <https://scholar.google.com/citations?hl=en&user=ZDQTP14AAAAJ>

Scopus citation link : <https://www.scopus.com/authid/detail.uri?authorId=57159344900>

8. RESEARCH GUIDANCE

No. of Ph.Ds awarded	: 09
No. of Ph.Ds submitted	: 01
No. of Ph.Ds ongoing	: 01
ME projects guided till date	: 100 (On going: 06)

9. PROJECTS

S. No	Year of Sanction	Sponsoring Organisation	Title of the Project	Amount of Grant in Rs.	Principal/ Co-Investigators (if any)	Duration of Project	Status
1	2015	TEQIP – II (Seed Money Project)	Design and Manufacturing of Scaffold for Biomedical Applications Using Additive Manufacturing	1 lakh	Principal Investigator	1 Year	Completed
2	2016	UGC Minor Research Project	Assessment of Dimensional Accuracy of Facial (Zygomatic) bone fractures reduction using Additive Manufacturing: a Randomized control study	3.75 lakhs	Principal Investigator	2 Years	Completed
2	2020	AICTE MODROBS	MODROBS in CAD/CAM laboratory of Mechanical Engineering Department	16.58 lakhs	Principal Coordinator	3 years	Completed
3	2024	CARS sponsored by DMRL	Development of a metallic custom patient specific implant and work flow methodology using 3D printing	19.88 Lakhs	Principal Investigator	18 months	Ongoing

10. STTP'S/ FDP'S/Seminars/ Workshops/ Conferences/Skill Development Programs Organised

Total courses organized: 21

S.No	Organising Secretary/ Convenor/ Co- Convenor	Title of the FDP/STTP/SEMINAR /CONF/WORKSHOP/ Skill Development Program	Sponsoring or Funding Agency	Duration with days and dates	Organising departments
1	Coordinator	Summer Internship program – 2025 on Additive manufacturing and its applications	CPDDAM	30 Days	CPDDAM & NCAM
2	Faculty Advisor	MECHARENA 25	MED, UCE, OU	2 Days	MED, UCE, OU & CPDDAM, OU
3	Coordinator	One week FDP on 3D Printing and Design	RGKUT, Basara	13-17 Feb, 2023 (1 Week)	CPDDAM in association with Department of Mechanical Engineering, RGKUT, Basara
4	Coordinator	One week FDP on Role of 3D Printing in Digital Manufacturing	Anurag University	05 -10, June 2023 (1 week)	CPDDAM in association with Dept of Mech. Engg., Anurag University
5	Coordinator	A Two-Day International Workshop on Design & Additive Manufacture of Custom Medical Devices	RUSA 2.0	21-22 June, 2023 (Two days)	CPDDAM in association with Cardiff Metropolitan University, U.K & National Centre for Additive Manufacturing (NCAM), Hyderabad, India

6	Co-chairman	National Conference on Systems Approach for Self-Reliance in Advanced Technologies - (SASAT-2023)	Sponsored By DRDO & ISSE Hyderabad Chapter	2 days (24-25 March 2023)	Dept of Mech. Engg., Osmania Univ. in assoc with ISRO, DRDO, ISSE
7	Convenor	ATAL AICTE FDP on 3D Printing & Design	AICTE	6 DAYS (25-29 Oct 2021) Rs.93,000/-	Dept of Mechanical Engg & CPDDAM, OU
8	Convenor	ATAL AICTE FDP on 3D Printing & Design	AICTE	6 DAYS (02-06 Nov 2020) Rs.93,000/-	Dept of Mechanical Engg & CPDDAM, OU
9	Convener	GIAN Programme on Advances in Additive & Digital Manufacturing	MHRD, GOI	25-29 March 2019	Dept of Mechanical Engg & CPDDAM, OU
10	Convener	Two day International Symposium on "Recent Challenges in Engineering"	Alumni Association, UCE, OU	21-22 December, 2019	UCE, OU
11	Coordinator	Three weeks Induction Training Programme for the first year BE students of 2018 batch	University College of Engineering, OU	16 July to 3 August 2018.	UCE, OU
12	Faculty Adviser	16th National Level Student Technical Symposium MECHARENA 2K18	MED, UCE, OU	9-10 March 2018	MED, UCE, OU
13	Convenor	On the Occasion of Centenary celebrations of Osmania University Organised 62 nd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM – 2017) (An International Meet) -2017	ISTAM	15-18, December 2017	IIT, Kharagpur, India & Departments of Mathematics, Civil and Mechanical Engineering, University College of Engineering, Osmania University
14	Convenor	Two day National Conference on “Emerging Trends in Mechanical Engineering“ (ETIME-2014)	DRDO, Hyderabad,	29- 30 December, 2014	Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad

15	Co-Convenor	One Day workshop on “Industry Institute And Defense Labs Interaction”	DRDO, Hyderabad	30th August 2014	Department of Mechanical Engineering, University College of Engineering, Osmnaia University
16	Coordinator	One week Short Term Course on “Reverse Engineering Based Manufacturing”	TEQIP-II	24-28 June, 2013	Department of Mechanical Engineering, University College of Engineering, Osmania University
17	Coordinator	One day workshop on “Training on CNC Machining: Tools and Techniques	TEQIP – II	12 th Feb, 2013	Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad & CADEM Technologies, Bangalore
18	Convenor	Two day National Conference on “Recent Advances in Mechanical Engineering”	TEQIP - II	16 th & 17 th March, 2012	Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad
19	Convenor	One day seminar on <i>Advanced Manufacturing Systems (AMS’09)</i>	MED, UCE, OU	30 th July, 2009.	Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad
20	Co-Coordinator	One week STTP on “Rapid Prototyping and e-Manufacturing (RPTEM 09	CPTIP, OU & MED, UCE, OU	23-28 March, 2009	Center for Prototyping and Testing of Industrial Products & Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad
21	Organizing Secretary	One Day Workshop “ <i>Climate change- issues and challenges – 2010</i> ”	NSS, UCE, OU	8 th December 2010	Dept. of Civil Engg. in association with National Service Scheme, University College of Engg. , Osmania University, Hyderabad

11. AWARDS , HONOURS & ACHIEVEMENTS

- Received **Certificate of Appreciation** from **SWAYAM NPTEL, IIT Madras** for playing instrumental role as SPOC in getting rating **A** to the Swayam-NPTEL Local Chapter of UCE, OU for Jan-April 2025 semester.
- Received **Best Engineering Teacher Award 2023** on the occasion of Teachers Day by Institute of Engg. Hyderabad local chapter on 05-09-2023
- Received of **Vice Chancellor Award 2022** for research excellence from Honourable Vice Chancellor OU on 03 January 2022
- Received **Certificate of Appreciation** as **ACTIVE SPOC** in supporting and disseminating the information to students within the local chapter during **SWAYAM NPTEL, IIT Chennai** for Jan-April, 2022 semester
- Received **Certificate of Appreciation** as **ACTIVE SINGLE POINT OF CONTACT (SPOC)** in the South Zone SPOC workshop organised by **SWAYAM-NPTEL Local Chapter, IIT Madras** on 19-01-2019.
- Received **Best paper of the Session Award** for the paper entitled, “**A Comparative Study on the Performance of 3D printed EDM electrode with Conventional EDM electrode**” in the International Conference on Innovations in Mechanical Engineering (ICIME – 2019) organised by the Department of Mechanical Engineering, Guru Nanak Institutions, Hyderabad held during 4-5 January, 2019.
- Received **Best Paper Award** for the paper entitled, “**Design and Manufacturing of a Scaffold for Biomedical Applications Using Additive Manufacturing**” [in the International Conference on Recent Innovations in Engineering and Technology ICRIET-2017](#) held at Bhubaneswar on 12 March, 2017. **This paper is an outcome of TEQIP-II Seed Money Project.**
- **Certificate of Appreciation** received from **Sunshine Hospitals, Secunderabad** for helping them in solving **two critical Cases related to Facial Assemtry and Jaw Reconstruction Surgeries** by using 3D Printing Technology. The operations were performed on 23-01-2019
- **Certificate of Appreciation** received from **Yahodha Hospitals, Secunderabad** for helping them in solving **critical Cranioplasty Surgery** for two patients who got fractures on the skull by using 3D Printing Technology. The operations were performed on 25-04-2017 and 19-04-2017.
- **Certificate of Appreciation** received from **MDS Care Hospitals Banjara Hills** for helping them in solving **critical Cranioplasty Surgery** of a 17 Year old Male Patient who got a fracture on left parietal region of the skull by using 3D Printing Technology. The operation was successfully performed on 18-01-2013.
- Received **Certificate of Appreciation** for **Reviewing the Reserach Papers** of the Journal of Institution of Engineers India: Series C (Springer Series).
- **Certificate of Appreciation** from Gandhi Blood Bank for Successfully conducting **4 blood Donation Camps in a row** from 2013 in association with them.

12. CORPORATE/ADMINISTRATIVE EXPERIENCE

- **Director of Evaluation, Examination Cell, UCE, OU** since 9 June, 2025
- **Director, Centre for Product Design, Development and Additive Manufacturing, Osmania University** since 11-12-2024 to till date
- **Chairperson, BoS (Autonomous), MED, UCE, OU** since July 2025
- **Director, Office of the International Affairs, Osmania University, Hyderabad** from 26-08-2023 to 27-11-2024
- **Nodal Officer** at University College of Engineering, Osmania University for **Prime Minister's Special Scholarship Scheme (PMSSS J&K)** and Centralized Seat Allotment Board for North Eastern States and Union Territories Scheme
- **Single Point of Contact (SPOC)** for Swayam-NPTEL local chapter of University College of Engineering, Osmania University from August 2018 to till date.
- **Joint Director of Evaluation, Examination Cell, University College of Engineering, Osmania University, Hyderabad** from June 2013 to November, 2016
- **N.S.S Program Officer, Unit-I, University College of Engineering, Osmania University.**
- **Member of the committee** formed for establishing Centre of Excellency on “**Center for Prototyping and Testing of Industrial Products**“ under **RUSA 2.0** funds.
- **Rendered services in the preparation of the Institute of Eminence (IoE)** Status application form submitted by OU to MHRD, GoI during Oct – December, 2017.
- **Appointed as Asst. Regional Coordinator for Hyderabad Zone – V** for conducting TS EAMCET-2017.
- **Departmental Committee Member** of Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad from 2012-2016 and from 2018 to till date.
- **Departmental Research Committee Member** of Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad from 2014-till date
- **Faculty Adviser** for ME (DFM) course, Dept. of Mechanical Engineering, University College of Engineering, Osmania University from 2014 to till date
- **Faculty Advisor** for M.E (CAD/CAM) course, Dept. of Mechanical Engineering, University College of Engineering, Osmania University from 2012-2014
- **Faculty Advisor** for M.E (Automation & Robotics) Course, Dept. of Mechanical Engineering, University College of Engineering, Osmania University from 2010-2012.
- **Incharge of CAD/CAM Lab**
- **Route Officer and Special Observer** for conducting **PGECET 2016, 2015, 2014, 2012 & 2011** at Warangal
- **Observer** for state level competitive examinations like **EAMCET, ECET, TSGENCO, NPDCL, SPDCL** and other prestigious competitive exams.

- University nominee as a **Member in the Selection Committee** for Geervani Degree College, MEDAK District from 13-04-2015.
- University nominee as a **Member in the Governing Body** for Vahini Degree College, Kukatpally, Hyderabad from 23-5- 2016.
- **Mechanical Engineering Departmental Convener** for admitting M.E/M.Tech students during the Academic Years 2012-13 & 2010-11
- **Convener** for conducting entrance examination for **CITD (PGTD, PDTD & DTDM) courses (2010-11)**

13. TRAINING PROGRAMS / STTP'S / FDP'S ATTENDED

Total number of continuing programmes attended : 21

14. CONFERENCES / SEMINARS / WORKSHOPS ATTENDED

Total Number of Seminars/Conferences/Workshops attended : 58
 International : 13
 National : 25

15. MEMBERSHIP IN PROFESSIONAL BODIES

- Life Member of Institute of Smart Structures and Systems (ISSS) belonging to Dept. of Aerospace Engg., IISc Bangalore.
- Member of International Association of Engineers (IAENG)
- Life member of Indian Society for Technical Education (ISTE)
- Life Member of The Institution of Engineers (India).
- Senior member of the International Association of Computer Science and Information Technology (IACSIT), Singapore related to IEEE under interdisciplinary Research.

16. PUBLICATIONS

Total number of papers published in Journals/Conferences : 60

Google Citation: 320, h-index: 8 and i-10 index: 6

Some of the important publications are given below

1. Kolusu Venkatesh, L Siva Rama Krishna, A.Seshu Kumar, "Optimization of Process Parameters for FDM Printed Tensile Test Specimens to Reduce Energy Consumption and CO₂ emission for Sustainable Manufacturing" Journal of Polymer and Composites, Vol.13, issue 03, ISSN: 2321-2810, 2025. Web of Science. Impact factor: 0.1
2. Kolusu Venkatesh, L Siva Rama Krishna, A.Seshu Kumar, "Influence of process Parameters for tensile test specimen printed on FDM by ABS Material to attain sustainability", Journal of Engineering Solid Mechanics, Vol. 13, pp 69-80, 2024. Scopus Indexed. Impact factor: 1.3. ISSN:2291-8752.
3. Rahamthulla Khan Sarvani , Mohd Mohinoddin , L. Siva Ramakrishna, "Characterization and Mechanical Testing of Hybrid Metal Composites of Aluminium Alloy (A356/LM25) Reinforced by Micro-Sized Ceramic Particles" J. Inst. Eng. India Ser. C, Volume 105, pages 457–470, 2024, Springer Publisher, Scopus Indexed: Impact factor: 1.312

4. Rahamthulla Khan Sarvani , Mohd Mohinoddin , L. Siva Ramakrishna, “Experimental analysis of Al composites toughened by aluminium oxide and graphite using stir casting progression”, *Materials Today Proceedings*, Volume 92, Part 2, Pages 1162-1166, 2023. Scopus Indexed.
ISSN: 2214-7853.
5. Vamshikrishna S, Siva Rama Krishna L, “Investigation on mechanical and vibration behavior of FDM 3D printed PLA/biochar filler biocomposites” *Eur. Chem. Bull.*, Vol. 12 Issue 8, pp.1656- 1671, 2023. Scopus Indexed. Impact Factor: 0.402
6. Swetha Ramadugu, Siva Rama Krishna Ledella, John Nitin Joshee Gaduturi, Ravinder Reddy Pinninti, Venkatesh Sriram, Kuldeep K. Saxena, “Environmental life cycle assessment of an automobile component fabricated by additive and conventional manufacturing”, *International Journal on Interactive Design and Manufacturing (IJIDeM)*, Springer, Impact Factor: 2.1, Scopus Indexed, Vol. 18, pp 847-858, 2023.
<https://doi.org/10.1007/s12008-023-01532-0>
7. Swetha Ramadugu, Siva Rama Krishna Ledella, Ravinder Reddy. K. Buschaiah, “Multi Objective Optimization of CNC Milling Process Parameters for Electrical Energy Consumption and Part Quality for sustainable Manufacturing” *Industrial Engineering Journal*, Volume : 52, Issue 11, No. 4, November : 2023, ISSN: 0970-2555. UGC Care listed
8. B. Vijaya Krishna, N. Seetharamaiah, L. Siva Rama Krishna, “Experimental Investigations on Journal Bearing using SAE 30 and Ferrofluid Lubricants” *IJIRMPs*, Volume 11, Issue 4, July- August 2023, ISSN: 2349-7300
9. B. Vijaya Krishna, N. Seetharamaiah, L. Siva Rama Krishna, “Performance Evaluation of A Hydrodynamic Journal Bearing using Nano Ferro Fluid Lubricants with Varying Concentration of Iron Oxide Nanoparticle Additives (Fe₃O₄)”, *International Journal of Mechanical Engineering*, Volume 10 Issue 8, 60-74, August 2023. ISSN: 2348-8360/<https://doi.org/10.14445/2348-8360/IJME-V10I8P106>
10. Hanumantu Krishna Murty Dora, L Siva Rama Krishna, P Ravinder Reddy, “Enhancement of safety and productivity all the way through function of ergonomics principles—A case study” *Materials Today: Proceedings*, Scopus Indexed, Vol. 64, pp. 212-219, 2022. ISSN. 2214-7853.
11. R. Swetha , L. Siva Rama Krishna , B. Hari Sai Kiran , P. Ravinder Reddy , Sriram Venkatesh, “Comparative study on life cycle assessment of components produced by additive and conventional manufacturing process”, *Materials Today: Proceedings*, Volume 62, part 6, 2022, Pages 4332-4340.
12. G. Prakasham, L. Siva Rama Krishna, A. Seshu Kumar, J. Kandasamy, “ Microstructure characterization and mechanical properties of 2.25Cr-1Mo steel pipes using pulsed current GTAW” Volume 62, Part 6, 2022, Pages 4098-4107, <https://doi.org/10.1016/j.matpr.2022.04.642>. ISSN: 2214-7853.

13. G. Prakasham, L. Siva Rama Krishna, A. Seshu Kumar, J. Kandasamy, "Process Parameter Optimization in Pulsed Current GTA Welding Process on ASTM 106 Grade –B Steel Pipes", *International Journal of Mechanical Engineering*, Vol. 6 No. 3, 2021, ISSN: 974-5823
14. L.Siva Rama Krishna., Natrajan Mahesh, N.Sateesh, "Topology optimization using solid isotropic material with penalization technique for additive manufacturing", *Materials Today: Proceedings* Vol.4, issue 2, pp. 1414–1422, 2017, **Elsevier Publications**, DOI 10.1016/j.matpr.2017.01.163.
15. L.Siva Rama Krishna., Balaji Tirupathi, Venkatesh Sriram, "Performance Evaluation of Various STL File Mesh Refining Algorithms Applied for FDM-RP Process", **Journal of The Institution of Engineers (India): Series C: Springer Series**, DOI 10.1007/s40032-016-0303-4, ISSN No. 2250-0545, 2016. **221 Down loads So far.**
16. E.Madhusudhan Raju., L.Siva Rama Krishna., V. Nageswara Rao , Y. Sharath Chandra (2015), "Effect of Link Flexibility on tip position of a single link robotic arm " **Journal of Physics: Conference Series 662 (2015), IOP Publishing**. 012020, doi:10.1088/issn.1742-6596. Online ISSN: 1742-6596 Print ISSN: 1742-6588.
17. L.Siva Rama Krishna, Sriram Venkatesh , M.Satish Kumar., M.Umamaheshwara Chary., "A Comparative Study on the Dimensional Error of 3D CAD Model and SLS RP Model for Reconstruction of Cranial Defect", *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering* Vol:8, No:3, 2014, ISSN No. 2010376X(Print) 20103778 (Print) **Cited in Springer open journal on 3D Printing in Medicine (2015) 1:2DOI 10.1186/s41205-015-0003-3).**
18. S.Gajanana, L.Siva Rama Krishna, Srinivas Rao Nandam, B.K.Mohan, "Optimization of process parameters of End Milling process using factorial design of experiments", *Manufacturing Technology Today Journal* Vol. 12, No.6, June 2013, pp. 05-13 ISSN No. 0972-7396.
19. L. Siva Rama Krishna, Manmadhachary, P. Bal Reddy, Sriram Venkatesh, "Development of optimum preplanning for maxillofacial surgery using selective laser sintering" *International Journal of Engineering, Science and Technology* Vol. 3, No. 8, 2011, pp. 185-196, ISSN No.2141-2839. DOI:10.4314/ijest.v3i8.16.
20. V. Mahesh, L. Siva Rama Krishna, Sandeep Dulluri, C. S. P. Rao, "Theoretical Analysis on Powers-of-two Applied to JSP – A Case Study of Turbine Manufacturing", the *International Journal of Green Computing* Vol. 2, No.2, July-December 2011, pp.1-20.ISSN No. 1948-5018. DOI: 10.4018/IJGC
21. L. Siva Rama Krishna, V. Mahesh, Sandeep Dulluri, C. S. P. Rao, "Implementation of an online scheduling support system in a high mix manufacturing firm", *International Journal of Engineering, Science and Technology* Vol. 2, No. 11, 2010, pp. 90-103, ISSN No.2141-2839.
22. L. Siva Rama Krishna G.Ranga Janardhan C.S.P Rao, "A Real Time Web Integrated Scheduling Support System for A Multi Product Manufacturing Industry", *International Journal of The Computer, The Internet And Management (IJCIM)*, Vol.17, No.2, pp.55-68, August 2009. ISSN No. 0858-7027.

23. L.Siva Rama Krishna, G.Ranga Janardhan, C.S.P Rao, “Development of an Online Supplier Selection System for a Turbine Manufacturing Company” 19th International Conference on Flexible Automation and Intelligent Manufacturing (FAIM 2009) organized by University of Teesside, Middlesbrough, UK from 6-8 July, 2009.

Conferences

1. K. Venkatesh, L. Siva Rama Krishna and A. Seshu Kumar ***“A Review- A Sustainability Study on Parts Produced from Green Manufacturing Aspects by Additive Manufacturing”*** Springer- Lecture Notes in Mechanical Engineering at International Conference on Additive Manufacturing (ICAM2024) organized by NITW.
2. G. Prakasham, L. Siva Rama Krishna, J. Kandasamy, “Optimization of Process Parameters in Pulsed Current GTA Welding Process on ASTM 106 Grade-B Steel Pipes using Linear Regression” Proceedings of the 5th ISSE National Systems Conference (INAC-05) on Approach for Self-Reliance in Advanced Technologies (SASAT-2023) held during 24-25 March, 2023 organised by University college of Engineering, DRDO and ISSE, Hyderabad local chapter
3. L.Siva Rama Krishna, Shiva DharshanVanapalli, Abhinandan Potturi, “Orbital Volume Analysis of Midfacial fractures using Additive Manufacturing Technologies“ in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumni association in association with Springer during 22-23 March, 2019.
4. L Siva Rama Krishna, Balasany Uday Kumar, Sri Ram Venkatesh and Potturi Abhinandan, “Assessment of Dimensional Accuracy of Reproducibility of Cadaver Skull by FDM Additive Manufacturing”, in the International Conference on Emerging Trends in Engineering (ICETE 2019) organised by OUCE alumni association in association with Springer during 22-23 March, 2019.
5. L.Siva Rama Krishna, Sandeep boddepalli, Sriram Venkatesh, “Topology Optimization of Aircraft Bearing Bracket and Prototype Manufacturing Using 3D Printing“ National Conference on “Large Scale Multidisciplinary Systems of National Significance Trends & Challenges” (LAMSYS 2018) organised by ISRO-ISSE Sriharikota – Chennai chapter in association with Sathyabhama Institute of Science and Technology during 20 – 21, April 2018.
6. L.Siva Rama Krishna. and Kunal Chandana,“ Design Optimization of a Nanosatellite Structure and Prototype Manufacturing Using FDM Rapid Prototyping Process“ National Conference “Large Scale Multidisciplinary Systems of National Significance Trends & Challenges” (LAMSYS 2016) organised by ISSE, SDC SHAR, ISRO, Sriharikota during 24-25 June, 2016.
7. L.Siva Rama Krishna., G..Rangajanardhan, C.S.P Rao,“ Development of An Integrated Material Planning And Machine Scheduling System for a Multi Product Manufacturing Industry“ 22nd International Conference on “CAD/CAM Robotics and Factories of the future”, organized by International Society for Productivity Enhancement (ISPE), Vellore Institute of Technology, Vellore, 19th to 22nd July, 2006. ISBN No. 13:978-81-7319-792-5
8. L.Siva Rama Krishna., G..Rangajanardhan, Sandeep Dulluri, C.S.P Rao,“ Web Integrated Inventory and Machine Scheduling Decision Support System for a Multi Product Manufacturing Industry “ International Conference on “e-Manufacturing: An emerging

Need for 21st century World – Class enterprises”, organized by Institution of Engineers (India) M.P. State Centre, M.A.N.I.T Bhopal, 17th to 19th November, 2002. **ISBN No. 81-7484-066-4.**

9. L.Siva Rama Krishna., G..Rangajanardhan, C.S.P Rao, “A web Integrated Scheduling Support System for a Multi Product Manufacturing Industry” 30th International Conference on “Computers and Industrial Engineering”, organized by University of Aegean, Greece, 29th June to 2nd July, 2002. **ISBN No. 960-431-790-3.**
10. V.Mahesh, L.Siva Rama Krishna, D.Sandeep, CSP Rao, “ Design and Development of a Database oriented Scheduling System for a Multi Product Manufacturing Industry”, 2nd International conference on Responsive Manufacturing, organised by Dept. of Industrial Engineering, Faculty of Engineering, University of Gazientep, Turkey during 26-28 June 2002.

- **Published A Text Book On “*PRODUCTION TECHNOLOGY*”-**
ISBN No. : **81-298-0074-8**, Year of Publication: **2008.**

17. EDITED VOLUMES

- **Author** of the GiAN course material on, “ **Advances in Additive and Digital Manufacturing**” (Course Code: 175051L02) organised by Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad during 25-29 March, 2019.
- **Editorial Board Member** of souvenir of the 62nd *Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) (An International meet)* organized by Dept. of Mechanical & Civil Engineering, University College of Engineering, Osmania University, Hyderabad in association with IIT Khargapur held from 15th – 20th December 2017.
- **Editorial Board Member** of the **Journal of Physics: Conference Series 662** (2015) 011001 IOP Publishing House doi:10.1088/1742-6596/662/1/011001
- **Editorial Board Member** of the **proceedings** of the *National Conference on “Emerging Trends in Mechanical Engineering (ETIME 2014)”* organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad in association with DRDO, Hyderabad, to be held during 29- 30 December, 2014, on the occasion of platinum jubilee year celebrations of the Department.
- **Editorial Board Member** of the **Course Material** of one day workshop on “Training on CNC Machining: Tools & Techniques” organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, in collaboration with CADEM Technologies Pvt.LTd, Bangalore under TEQIP - II held on 12th February, 2013.
- **Editorial Board Member** of the **proceedings** of the *National Conference on “Recent Advances in Mechanical Engineering (RAME 2012)”* organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, held during 16- 17 March 2012.
- **Editorial Board Member** of souvenir of the 53rd *Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM) (An International meet)* organized by Dept. of Mechanical

& Civil Engineering, University College of Engineering, Osmania University, Hyderabad in association with IIT Khargapur held from 27th – 30th December 2008.

- **Editorial Committee Member of International Conference on Additive Manufacturing and 3D printing (ICAM-3D)** organised by Veltech University Chennai, during 6-7 February, 2015.

18. NUMBER OF KEY NOTE/ INVITED LECTURES DELIVERED : 80

Some of them are listed below

- **Invited Lecture on 18 August 2025** on the topic “**Biomaterials in AM & Case Studies on Biomedical Applications of Additive Manufacturing**” in the **one-week online ATAL AICTE** program on “**Next Generation Biomaterials: Clinical Translation through Machine Learning**” Organised by Department of Mechanical Engineering, **UIET Punjab & SBSSU Punjab** during **18 August 2025 to 23 August 2025**.
- **Invited Lecture on 12 July 2025** on the topic “**Biomedical Applications of Additive Manufacturing for Patient Specific Surgeries**” in the **one-week online ATAL AICTE** program on “**The future of Medical Innovation with AM**” Organised by **Dept of Mechanical Engg., RMK ENGG College, Tiruvallur, TN** during **07 July 2025 to 12 July, 2025**
- **Invited Lecture on 23rd June 2025** on the topic “**Biomedical Applications of Additive Manufacturing**” in the **one-week ATAL AICTE** program on “**Sustainable AM in Medical Applications: UN SDG Perspective**” Organised by Department of Mechanical Engineering, **Lords Institute of Engineering & Technology, Hyderabad** during **15 June 2025 to 20 June 2025**.
- **Invited lecture on 06th January 2025** on the topic “**Biomedical Applications of Additive Manufacturing**” in the **one-week ATAL AICTE** program on “**Additive Manufacturing Based Surface Modification Techniques for Innovative Medical Solutions**” Organised by Department of Biomedical Engineering, **University College of Engineering, Osmania University** during **06-11 January 2025**.
- **Invited lecture on 28th January 2025** on the topic “**Role of Industry 4.0 for Sustainable Development**” in the **one-week ATAL AICTE** program on “**Advances in Manufacturing and Industry 4.0 Scenario**” Organised by Department of Mechanical Engineering, **KITS, Singapur, Huzurabad**, during **27 Jan to 01 Feb 2025**
- **Guest lecture on “Role of Industry 4.0 For Sustainable Development”** on 24 July 2024 in the **four-week Faculty Induction Programme** Organised by **UGC MMTTC, Osmania University, Hyderabad** during **1st to 31st July 2024**.
- **Guest lecture on “Role of 3D Printing for Sustainable Development”** on 07 August 2024 in the **one-week Faculty Development Programme** Organised by **Dept. of Mechanical Engineering, Gitanjali College of Engineering and Technology, Hyderabad** during **05-09 August 2024**.
- **Invited Lecture** on the topic “**Case Studies on Innovative Applications of 3D Printing**” on 25-06-2021 in the **AICTE sponsored one week online STTP on Additive Manufacturing of Multifunctional Nanocomposites** organised by **Dept of Mechanical Engineering, Institute of Road and Transport Technology, Erode, Tamilnadu** during **21-25 June, 2021**

- **Invited lecture** on the topic, “**Biomedical Applications of 3D Printing**” on 24-06-2021 in the online ATAL AICTE one week FDP on 3D Printing and Design, organised by Dept. of Mechanical Engineering, SR University, Warangal held during 21-25 June, 2021
- **Invited lecture** on the topic “**Case Studies on Biomedical Applications of Additive Manufacturing**” on 12-06-2021 in the one week online National workshop on Development of Rapid Prototyping techniques in Additive Manufacturing” organised by Dept. of Mechanical Engg., MVSR Engineering college, Hyderabad during 9-13 June 2021
- **Invited Lecture** on the topic “**Innovative Applications of 3D Printing**” on 12-06-2021 afternoon session to the Faculty and Students of Department of Mechanical Engineering, GRIET, Hyderabad.
- **Invited Lecture** on the topics “Case Studies on Innovative Applications of 3D Printing” on 18-04-2021 to the students and faculty of Vignan University, Guntur organized by Department of Mechanical Engineering, Vignan University on 18 April, 2021.
- **Keynote lecture** on the topic “3d Printing for Sustainable Manufacturing” on 03-04-2021 in the International E-Conference (Online) on “Developments in Sustainable Materials, Manufacturing and Energy Engineering” organized by Department of Mechanical Engineering, CBIT Hyderabad during 03-04 April, 2021.
- **Two Invited Lectures** on the topics “**Innovative Applications of 3D Printing**” and “**Case studies on Biomedical Applications of 3D Printing**” on 25 & 31 March, 2021 in the one week in the **one-week ISTE-AICTE Sponsored online Induction Program on “Rapid Prototyping and Artificial Intelligence for Industrial Applications**” organised by St. Martin’s Engineering College, Hyderabad held during 25-31 March, 2021.
- **Invited Lecture** on the topics “Case Studies on Biomedical Applications of 3D Printing” on 16-03-2021 in the one-week Online FDP on “Advances in Mechanical Engineering with an Emphasis on AI” organized by Department of Mechanical Engineering, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad during 15-20 March, 2021
- **Invited lecture** on the topic “Innovative Applications of 3D Printing” on 03-03-2020 in the National Level Student Techfest Mechanica 2021 organized by Department of Mechanical Engineering, CBIT Hyderabad during 03-04 March, 2021
- **Invited lecture** on the topics “Case Studies on Biomedical Applications of 3D Printing” and “Innovative Applications of 3D Printing” on 17-02-2021 & 19-2-2021 in the one-week ATAL AICTE Sponsored Online FDP on “3D Printing and Design” organized by Department of Mechanical Engineering, Pillai College of Engineering, Navi Mumbai held during 15-19 February, 2021.
- **Invited lecture** on the topic “3D Printing and its Innovative Applications” on 15-02-2020 in the one-week ATAL AICTE Sponsored Online FDP on “3D Printing and Design” organized by 12.Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Technology, Hyderabad during 15-19 February, 2021
- **Invited lecture** on the topic, “Demo on SLA-DLP, FDM and 3D Scanner” on 25-12-2020 in the one week Short Term Online Course on “Smart Manufacturing Technologies” organised by Department of Mechanical Engineering, MANIT, Bhopal, held during 23- 27 December, 2020.

- **Invited lecture** on the topic “Case Studies on Biomedical Applications of Additive Manufacturing” on 16-11-2020 in the one-week AICTE Sponsored Online FDP on “Additive Manufacturing for Medical and Aerospace Applications” organized by Department of Mechanical Engineering, Sri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh during 16 – 21 November, 2020.
- **Invited lecture** on the topic “Case Studies on Biomedical Applications of 3D Printing” on 03-11-2020 in the one-week ATAL AICTE Sponsored Online FDP on 3D Printing and Design” organized by Department of Mechanical Engineering, UCE, OU Hyderabad during 02-06. November, 2020
- **Invited lecture** on the topic “Introduction to 3D Printing and Its Innovative Applications” on 02-11-2020 in the one-week ATAL AICTE Sponsored Online FDP on “3D Printing and Design” organized by Department of Mechanical Engineering, UCE, OU Hyderabad during 02- 06. November, 2020
- **Invited lecture** on the topic “Case Studies on Innovative Applications of Direct Digital Manufacturing” on 14-10-2020 in the one-week AICTE Sponsored Online FDP on “Research Aspects of Powder Metallurgy Based Direct Digital Manufacturing” organized by Department of Mechanical Engineering, MEPCO SCHLENK ENGINEERING COLLEGE, SIVAKASI during 12-17 October, 2020
- **Invited lecture** on the topic, “Case Studies on Innovative Applications of 3D Printing” on 30 October, 2020 in the in the AICTE SPONSORED Two day International E Conference on Sustainable Development in Mechanical Engineering (SDME 2020) organised by Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad held during 30-31 October, 2020
- **Invited lecture** on the topic “Case Studies on Innovative Applications of Direct Digital Manufacturing” on 23-10-2020 in the one-week ATAL AICTE Sponsored Online FDP on “Molecular Manufacturing” organized by Department of Mechanical Engineering, CBIT, Hyderabad during 19-23. October, 2020.
- **Invited Lecture** on the topic, “Applications of 3D Printing in Biomedical and Aerospace Sectors” on 20-05-2019 in the one week short term training programme on “3D Printing Theory and Practise” organized by Department of Mechanical Engineering, Aditya Engineering College, Kakinada Andhra Pradesh during 20- 26 May, 2019.
- **Invited Lecture** on the topic, “Applications of 3D Printing in Biomedical and Aerospace Sectors” on 14-05-2019 in the one week short term training programme on “Advances in Manufacturing & 3D Printing” organized by Department of Mechanical Engineering, Srinidhi Institute of Science and Technology, Telangana State during 13 - 18 May, 2019.
- **Invited Lecture** on the topic “3D Printing In Satellite and Electronic Radar Communication” on 25-04-2019 in the one week short term training programme on “3D Printing in Modern Engineering” organized by Department of Mechanical Engineering, IcfaiTech, Faculty of science and Engineering (IFHE) (Deemed to be University), Hyderabad, Telangana State during 22 - 26 April, 2019.
- **Keynote Lecture** on the topic “ The Clinical Applications Of 3d Printing For Skull, Facial & Dental Reconstruction Surgeries” on 31-08-2018 in the National Seminar on “3D Printing

Technology - Innovations in Clinical BIO Medical Field” organized by Department of Mechanical Engineering, School of Engineering & Technology, Guru Nanak Institutions Technical Campus (Autonomous) during 31 Aug – 01 Sep, 2018.

- **Keynote Lecture** on the topic “Applications of 3d Printing in Biomedical And Aerospace Sectors” on 18-08-2018 in The National Conference on “Advances In Modelling, Manufacturing And Materials Engineering (NCAMMM-2K18)” organized by Department of Mechanical Engineering, Vignan's Foundation for Science, Technology & Research , Guntur during 17 - 18, August 2018.
- **Keynote Lecture** on the topic “Application of 3D Printing in Health Care and Aerospace Sectors” on 16-06-2018, in the International Conference on “Materials Engineering and Technology” organized by Dept. of Mechanical Engineering, Lendi Institute of Engineering and Technology, Vizianagaram, during 15-16 June, 2018
- **Invited Lecture** on the topic “Applications of Additive Manufacturing in Biomedical and Aerospace Fields ” on 07-02-2018 in the Three day National level CEP course (05-02-2018 to 07-02-2018) on the topic “Additive Manufacturing - A Disruptive Technology”, organized by DMRL, Hyderabad.
- **Invited Lecture** on the topic “An Overview of Additive Manufacturing and Its Applications” on Pre-Conference Tutorial of International Conference on “Innovations in Mechanical Engineering”, (ICIME-2018) organized by Department of Mechanical Engineering, Guru Nanak Institute of Technology, Hyderabad 28-12-2017.
- **Invited lecture** on the topic, “Evolution from NC to CNC – Manual to Computer Aided Part Programming ” on 11th December, 2013, during 3 day Technical Training Course (11th -14th December, 2013) on “3&5 -Axis CNC part programming and post processing using Unigraphics NX” organised by **Centre for Intelligent Machines and Robotics (CIMAR), BHEL, Corporate R&D Division, Hyderabad.**
- **Invited lecture** on the topic, “Advanced Manufacturing Technologies” on 30th Oct, 2012, during two day In-Plant Training Programme on (03-04th Oct, 2013) on “Manufacturing Excellency” organised by **Institute of Public Enterprise (IPE) Hyderabad at BDL, Kanchanbagh, Hyderabad.**
- **Invited Lecture** on the topic, “Applications of Rapid Prototyping” during the one Day Workshop on “**Rapid Prototyping Technologies and Applications**” organized by Department of Mechanical Engineering, **O.P. Jindal Institute of Technology**, Raigarh, Chattisgarh in collaboration with CPTIP, University College of Engineering, Osmanina University, Hyderabad held on 16th September, 2013.
- **Invited Lecture** on the topic, “Advanced Manufacturing Systems” during Three Day Management Development Programme on “**Manufacturing Excellence** “organized by Institute of Public Enterprises, Hyderabad held from 5th - 7th, August 2013 at BDL, Kanchanbagh.
- **Invited Lecture** on the topic, “Web Based Manufacturing Systems”, during three day FDP on “**Digital Manufacturing in the Global Era**” organized by Dept. of Mechanical Engineering, **Sree Vidyanikethan Engineering College, Tirupati**, held from 07th – 09rd March, 2013 **under TEQIP-II.**
- **Invited Lecture** on the topic, “Web Based Manufacturing Systems”, during AICTE sponsored Two week Faculty Development Programme on “Advances in Manufacturing – Hard & Soft” organised by **Institute of Public Enterprise (IPE), Hyderabad** held from **04-02-2013 to 16-02-2013.**

- **Invited Lecture** on the topic, “**Web Based Manufacturing Systems**”, during AICTE sponsored one week Staff Development Programme on “Recent Trends in Manufacturing Systems” at Anamacharya Institute of Technology and Sciences, Rajampet, Kadapa on 3rd June 2011.
- **Invited Lecture** on the topic, “**Web Based Robotics**”, on 11th March 2010, during one month (08-03-2010 to 31-03-2010) Refresher Course on “*Design and Applications of Robotic Systems and Advanced Mechanisms*” organised by, **UGC Academic Staff College, JNTU, Hyderabad.**
- **Invited Lecture** on the topic, “Web Based Manufacturing Systems” on 5th September, 2008 during MHRD sponsored refresher course on “Digital Factory”, held at N.I.T, Warangal from 25th Aug to 6th Sep, 2008.

19. COMMUNITY SERVICE - ACTIVITIES CONDUCTED UNDER NSS

Total Number of activities organised under NSS are : **70**

Some of the important activities conducted under NSS are listed below:

- **Conducted two health camps on 08-02-2018 & 28-09-2018** in association with **Virinchi Hospitals, Hyderabad and Star Hospitals, Hyderabad.**
- Conducted **one Day Swatch Bharat Campaign on 25-4-2017 at A1 Grounds, Osmania University** on the occasion of **Centenary Celebrations.**
- Conducted **7 Blood Donation Camps on 20-08-2011, 12-09-2013, 20-03-2015, 31-03-2016, 31-03-2017, 28-03-2018 & 24-09-2018** in association with Gandhi Blood Bank and Central Blood Bank, Narayanaguda.
- **Around 150 NSS Volunteers** participated in the Osmania University **Centenary Run** held on 11 March’ 2017.
- Conducted **Swachh Bharath programme** at Dept. of Mechanical Engineering on 22-02-2017 and 01-03-2017.
- Conducted a programme on “**Stress Management Through Meditation**” in association with Heartfulness Institute, Hyderabad on 08 & 15 February 2017.
- Voters Day Celebrations were organised on 25-01-2019, 25-01-2018, 25-01-2017, 25-01-2016, 25-01-2015 by administering pledge to them and also taking rally from UCE to NCC gate. 100 Volunteers participated
- Organised an awareness programme in association with SBH, Osmania University on digital transactions **DIGIDHAN Mela** on 27-01-2017 at University College of Engineering, OU.
- Organised Plantation of **600 samplings** in the University College of Engineering, OU Premises on the occasion of **HARITHA HARAM** Campaign on 11-july 2016
- Organised a talk on “You Can Make a Difference” to help students in overcoming stress and for preventing them from negative thought on 1-11-2016. Prof. Beena Coordinator, Sahayam Counseling Centre, OU delivered the lecture. 150 volunteers participated.
- Conducted Swatch Bharat Campaign on 02-10-2014 in the college premises.

20. FOREIGN COUNTRIES VISITED

- Visited Florida International University, **Miami, Florida, USA** during 10-13 March, 2014
- Visited Teeside University, **New Castle, UK**, During June 2009.

Place: Hyderabad
Date: 31-10-2025

Sd/-
Signature