

CURRICULUM VITAE

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

- 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 in Osmania University(Academic)

- Working as Professor since June 2018, Dept of Mechanical Engineering, UCE, OU
- 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. FOREIGN COUNTRIES VISITED

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

8. RESEARCH GUIDANCE

- ME projects guided till date : **90** (On going: 04)
- No. of Ph.D' s presently Guiding : **10**

Presently guiding the following **10** research scholars:

- Mr. E. Madhusudhan Raju, Assistant Professor, Dept. of Mechanical Engg., UCE, OU
- Ms. T. Hima Bindu, Assistant Manager, Hyundai Motors India Engineering Pvt. Ltd. (R&D)
- Mr. Hanumantu Krishnamurthy Dora, Asst. Prof., Dept. of Mechanical Engg., MJCT, Hyderabad
- Mr. Umamaheshwara Chary, D.E, TSGENCO, Srisailam Project
- Mr. Mahipal Reddy, Senior Lecturer, Govt. Polytechnic, Ramanthapur
- Mr. Vamshi Krishna, Assistant Professor, Dept. of Mechanical Engg, KITS, Huzurabad
- Mrs. Swetha, Assistant Professor, Methodist College of Engineering, Hyderabad
- G. Sravan Kumar, Assistant Professor, MGIT, Hyderabad
- Mr. A. Harish Kumar, Assistant Professor, Bharath Institute of Engineering and Tech., Hyd.
- Mr. G. Bhaskar Rao, Assistant Professor, Gitam University, Hyderabad pursuing Ph.D. at NITW

9. PROJECTS

Year of Sanction	Sponsoring Organisation	Title of the Project	Amount of Grant in Rs.	Principal/ Co-Investigators (If any)	Duration of Project
2015	TEQIP – II (Seed Money Project)	Design and Manufacturing of Scaffold for Biomedical Applications Using Additive Manufacturing	1 lakh	Principal Investigator	1 Year Completed
2017	UGC Minor Research Project Project No. F MRP/6745/16 (SERO/UGC)	Assessment of Dimensional Accuracy of Facial (Zygomatic) bone fractures reduction using Additive Manufacturing: a Randomized control study	3 lakhs	Principal Investigator	2 Years Completed
2020	AICTE MODROBS Project No.9-46/IDC/MODR OB/Policy-1/2019-20 Dt: 20-07-2020	MODROBS in CAD/CAM laboratory of Mechanical Engineering Department	Rs.16,58,823/	Coordinator	2 years On-going

10. STTP'S/ SEMINARS/ WORKSHOPS/ CONFERENCES ORGANISED

Total courses organized : 17

- **Course Coordinator** for **one-week online ATAL AICTE FDP on 3D Printing and Design**, organised by Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad, held during 25 – 26 October, 2021.
- **Course Coordinator** for **one-week online ATAL AICTE FDP on 3D Printing and Design**, organised by Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad during 2 – 6 November, 2020
- **Course Coordinator** for one-week **Global Initiative of Academic Networks (GIAN)** course on **“Advances in Additive and Digital Manufacturing “Expert Faculty: Prof. Suman Das, from Georgia Institute of Technology, Woodruff School of Mechanical Engineering, Atlanta, USA to be held during 25-29 March, 2019.**
- **Convener** of two-day **International Symposium on "Recent Challenges in Engineering"** organised by University College of Engineering, Osmania University in Association with Alumni Association, UCE, OU during 21-22 December, 2019.
- **Technical Committee Chair for Mechanical stream** in the **International Conference on Emerging Trends in Engineering (ICETE 2019)** organised by OUCE alumni association, Publication Partner Springer during 22-23 March, 2019.

- **Coordinator** for organising **three weeks Induction Training Programme** for the first year BE students of UCE, OU as per the new AICTE model curriculum held during 16 July to 3 August 2018.
- **Faculty Adviser** for organising **16th National Level Student Technical Symposium MECHARENA 2K18** held during 9-10 March 2018.
- **Convenor** of the 62nd **Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM – 2017) (An International Meet) -2017** Jointly Organised by **Indian Institute of Technology, Kharagpur, India & Departments of Mathematics, Civil and Mechanical Engineering**, University College of Engineering, Osmania University during **15-18, December 2017 on the occasion of Centenary Celebrations.**
- **Convenor** of the two-day 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**, held during 29- 30 December, 2014, on the occasion of **platinum jubilee year celebrations** of the Department
- **Co-Convenor** for organising one Day workshop on **“Industry Institute and Defence Labs Interaction”** organised by **Department of Mechanical Engineering, University College of Engineering, Osmania University** in association with **DRDO, Hyderabad** on 30th August 2014.
- **Coordinator** for conducting the 5-day Short Term Course on **“Reverse Engineering Based Manufacturing”** under TEQIP-II organised by Department of Mechanical Engineering, University College of Engineering, Osmania University during 24-28 June, 2013
- **Coordinator** of the one-day workshop on **“Training on CNC Machining: Tools and Techniques”** organised by the Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad **in** collaboration with CADEM Technologies Pvt. Ltd., Bangalore under TEQIP – II held on 12th Feb, 2013.
- **Convenor** of the two-day National Conference on **“Recent Advances in Mechanical Engineering”** organized by the Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad held during 16th & 17th March, 2012.
- **Convenor** of one day seminar on **“Advanced Manufacturing Systems (AMS’09)”** organized by Dept. of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad on 30th July, 2009.
- **Co-Coordinator** of one-week STTP on **“Rapid Prototyping and e-Manufacturing (RPTEM 09)”** organized by Center for Prototyping and Testing of Industrial Products, Department of Mechanical Engineering, University College of Engineering, Osmania University, Hyderabad held from 23-28 March, 2009.
- **Organizing Secretary** of One Day Workshop **“Climate change- issues and challenges – 2010”** organized by Dept. of Civil Engg. in association with National Service Scheme, University College of Engg., Osmania University, Hyderabad, held on 8th December 2010

11. AWARDS, HONOURS & ACHIEVEMENTS

- Appointed as Project Monitoring Review Committee member for the Project on “**Development of Metal Components using 3D Printing Technology for Defence applications**” at **DMRL, Hyderabad** in the month of **APRIL 2021**
- Received **Letter of Appreciation** from **SWAYAM NPTEL, IIT Chennai** region for activeness of SPOC in supporting and disseminating the information to students within the local chapter during the Covid-19 period i.e., Jan-April, 2020 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, in appreciation for establishing and making the University College of Engineering, Osmania University, Local Chapter within the **TOP 100 SWAYAM-NPTEL Local Chapters**.
- 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 Asymmetry and Jaw Reconstruction Surgeries** by using 3D Printing Technology. The operations were performed on 23-01-2019
- **Certificate of Appreciation** received from **Yashoda 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 Research Papers** of the Journal of Institution of Engineers India: Series C (Springer Series).
- Received **Award** from **Telangana State Aids Control Society (TSACS)** on the occasion of **International Youth Day (12-Aug-2016)** at Sundaraya Vignan Bhavan Bhaglingampally, Hyderabad for successfully conducting **4 blood Donation Camps in a row**. The award was presented by **Prof. Ch. Gopal Reddy, Honourable Registrar, Osmania University**.
- **Certificate of Appreciation** from Gandhi Blood Bank for Successfully conducting **4 blood Donation Camps in a row** from 2013 in association with them.
- **Letter of Appreciation** and **Honoured by Capt. V. Laxmikantha Rao, Member Rajya Sabha** on behalf of **Management KITS Warangal** in recognition for significant contributions and

services rendered as a **ALUMINI** to the Institute during the **Silver Jubilee Celebrations** of our batch on 7 January 2017.

- **Doctoral Advisory Committee Member** of **Indian Institute of Chemical Technology (IICT)**, Hyderabad from February 2017.
- **Doctoral Committee Member** of **VIT University (Deemed Univ.)**, Vellore, Tamil Nadu, India.

12. CORPORATE/ADMINISTRATIVE EXPERIENCE

- **Joint Director**, Centre for Product Design, Development and Additive Manufacturing, Osmania University, Hyderabad.
- **Editorial Committee member** of University College of Engineering, OU, College Technical Magazine
- **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. from 2009 to till date.
- **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.
- **In charge of CAD/CAM Lab**
- 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)**
- **External Expert** for **DRTC Interview Board of CPTAM-03**, conducted by **DRDO, Hyderabad**.
- **In charge of Examinations** for conducting M.E/M.Tech Tests of Mechanical Engineering Department of University College of Engg., O.U
- **Member of BOS, University college of Engg., Osmania University**
- **Member BOS S.R Engineering College, Warangal** from 2013 to 2015 and from 2018 to till date.
- **Member of the Special Team for Stock Verification** at **RGUKT, Nuzvid Campus** during the period 02-06-2014 to 04-06-2014

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

Total number of programmes attended : **26**

Programmes attended during the assessment period to till date are listed below

S. No	Name of the Course	Academic Staff College / University	Duration	Sponsoring Agency
1	FDP on "Entrepreneurship "	EDC, Osmania University	18 to 30 April, 2016	DST, New Delhi
2	FDP on "3D Printing Technology in Engineering Education"	Dept of Mechanical Engg., NITW	10-15 July, 2017	TLC, NITW
3	FDP on "Principles of GNSS, Applications and Research Areas" organized	Osmania University College of Engineering and CBIT Hyderabad	04-09 June, 2018	TEQIP - III
4	Short Term Course on " Experimental Techniques & Data Analysis'	Dept. of Mechanical Engg., UCE, OU	22-26 April, 2019	TEQIP-III
5	Two-week online course on "Digital Transformation in Teaching Learning Process"	IDP-ET, IIT Bombay in association with NPIU & TEQIP-III	6-22 April, 2020	TEQIP-III
6	1-week online FDP on "Maximal Utilization of ICT Tools for Online Teaching-Learning Process"	Department of Applied Science and Humanities, Rajkiya Engineering College, Ambedkar Nagar, Haryana	09-13 May, 2020	TEQIP -III
7	5-day STTP on "MATLAB based Teaching and Learning in Mathematics, Science and Engineering"	Department of Electronics Engineering, Ramrao Adik Institute of Technology, Nerul, Navi Mumbai	18th to 22nd May 2020	Design Tech Systems Pvt. Ltd., Mumbai
8	1-week online FDP on "Business 4.0 – Embracing Digital Technology"	Shri Viswakarma Skill University, Gurugram Haryana	6-11 July, 2020	----
9	1-week online FDP on "Teaching and Learning of Additive Manufacturing Technology (Emphasis of Metal 3D Printing"	Dept. of Mechanical Engineering, NIT, Warangal	13-18 July, 2020	Teaching and Learning Centre, NIT Warangal

10	3 Day Workshop on Google tools as LMS	Dept. of Mech. Engg., UCE, OU	9-11 August, 2020.	TEQIP-III
11	3 days workshop on NBA Accreditation	University College of Engineering, Osmania University	12-14 August, 2020	TEQIP-III
12	1-week online ATAL AICTE FDP on 3D Printing and Design	Department of Mechanical Engineering, Visveswaraya College of Engineering, Bangalore	5-9th October, 2020	AICTE
13	1-week online ATAL AICTE FDP on Molecular Manufacturing	Department of Mechanical Engineering, CBIT, Hyderabad	19-23 October, 2020	AICTE

14. CONFERENCES / SEMINARS / WORKSHOPS ATTENDED

Total Number of Seminars/Conferences/Workshops attended : 45

Some of the important conferences / seminars / workshops attended are listed below:

S. No	Name of the Seminar/Conference/Symposia/ Workshops attended	Name of the organiser	Place and Date
	INTERNATIONAL		
1	AICTE sponsored International E Conference on Sustainable Development in Mechanical Engineering {SDME 20}	Dept. Of Mechanical Engg., VNRVJIET, Hyderabad, 30-31 October, 2020	30-31 October, 2020, online mode
2	2nd International Conference on Innovations in Mechanical Engineering (ICIME -2019)	Dept. of Mech. Engg., GNIT, Hyderabad.	GNIT, Hyderabad 04-05 Jan, 2019
3	62 nd Congress of Indian Society of Theoretical and Applied Mechanics (ISTAM – 2017)	Dept. of Mathematics, Civil and Mechanical Eng., UCE OU in Collaboration with IIT Kharagpur	Osmania University, Hyd. 15-18 December, 2017
4	International Conference on Recent Innovations in Engineering and Technology (ICRIET- 2017)	International Institute of Research and Journals (IIRAJ)	Bhubaneswar, Odisha, India 12 March 2017
5	International Conference on Advances in Materials & Manufacturing (ICAMM – 2016)	Dept. of Mechanical Engg., UCE, OU & DRDL, Hyderabad	Hyderabad December 8-10,2016
6	International Conference on Emerging Trends in Mechanical Engineering (ICETiME-2016)	Dept. of Mechanical Engg., Faculty of Science and Technology, IFHE, Hyd.	Hyderabad 23-24 Sep, 2016
7	5th International Conference on Materials Processing and Characterization (ICMPC – 2016)	Dept. of Mech. Engg., GRIET Hyderabad in collaboration with MANIT, Bhopal	Hyderabad 12-13 March 2016
8	4th International Conference on Additive Manufacturing Technologies - 2014	Additive Manufacturing Society of India (AMSI)	Bangalore 1-2 Sep, 2014
9	International Conference on Mechanical and Production Engineering (ICMPE-2014)	World Academy of Science and Technology (WASET)	Miami, USA 10-11 March,2014
10	19th International Conference on “Flexible Automation and Intelligent Manufacturing” (FAIM 2009)	University of Teesside	Middlesbrough, UK from 6-8 July, 2009
11	53 rd Congress of Indian Society of Theoretical and Applied Mechanics - ISTAM08 (An International Meet)	Dept. of Mechanical Engg, University College of Engg.	O.U, Hyderabad 27-30, December 2008.

12	22 nd International Conference on “CAD/CAM Robotics and Factories of the Future (CARs & FOF 2006)	International Society for Productivity Enhancement (ISPE), VIT, Vellore.	VIT, Vellore 19 to 22 nd July’ 2006
	NATIONAL		
15	South Zone SPOC SWAYAM-NPTEL Workshop	Organised by SWAYAM-NPTEL Local Chapter, IIT Madras.	IIT Madras 19-01-2019
16	National Conference on Large Scale Multi-Disciplinary Systems of National Significance – Trends and Challenges (LAMSYS – 2018)	Satyabhama Institute of Technology and Science	Chennai. 20-21, April 2018
17	National Conference on Large Scale Multi-Disciplinary Systems of National Significance – Trends and Challenges (LAMSYS – 2016)	Indian Society of Science and Engineering (ISSE) Sriharikota, Chennai Chapter, ISRO	Satish Dhawan Space Centre, SHAR, Sriharikota, 24-25 June, 2016
18	National Conference on Large Scale Multi-Disciplinary Systems of National Significance – Trends and Challenges (LAMSYS – 2016)	Indian Society of Science and Engineering (ISSE) Sriharikota, Chennai Chapter, ISRO	SHAR Sriharikota, 24-25 June, 2016
19	Two Day Symposium on “Future of Indian Aerospace- SOFIA-2015“	Dept of Mechanical & Aerospace Engineering, IIT Hyderabad	C.R. Rao Institute, UOH, Hyderabad 23-24 Jan, 2015
21	Two Day National Seminar on “Advanced Concepts in Plant Engineering Management “	Indian Institute of Plant Engineers (IPE)	Hyderabad 13-14 Nov, 2014
22	Two-day workshop on NBA Outcome Based Accreditation process- Training for Master Trainers/Evaluators	NBA, New Delhi	Gyan Vihar University, Jaipur, Rajasthan 18 th -19 th Feb, 2013
23	Two-day workshop on “NPMASS/NMDC Annual Review Meeting 2012“	IISC Bangalore	IISC Bangalore 29 Feb to 1 March 2012

15. MEMBERSHIP IN PROFESSIONAL BODIES

- Life Member of Institute of Smart Structures and Systems (ISSS) belonging to Dept. of Aerospace Engg., IISc Bangalore.
- Life Member of Indian Society of Systems for Science and Engineering (ISSE) a professional society associated with Indian Space Research and Organization (ISRO)
- 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.
- **Executive Committee member of Indian Society of Systems for Science and Engineering (An organisation under ISRO), Hyderabad local Chapter.**

16. PUBLICATIONS: Google Scholar Citation Index: h-index: 5, i-10 index:2

Total number of peer reviewed papers published	: 51
Journals	: 30
International Conferences	: 12
National Conferences	: 08
Book Chapters Published	: 01

Journals

1. L. Siva Rama Krishna, P.J. Srikanth, “Evaluation of environmental impact of additive and subtractive manufacturing processes for sustainable manufacturing” *Materials Today: Proceedings*, Elsevier Publications, Volume 45, Part 2, 2021, Pages 3054-3060. <https://doi.org/10.1016/j.matpr.2020.12.060>.
2. Siva Rama Krishna L., Vanapalli S.D., Venkatesh S., Potturi A, “Orbital Volume Analysis of Midfacial Fractures Using Additive Manufacturing Technologies”. *Learning and Analytics in Intelligent Systems*, vol 2. Springer, Cham, pp. 559-567, 2020.
3. Siva Rama Krishna L., Balasany U.K., Venkatesh S.R., Potturi A, “Assessment of Dimensional Accuracy of Reproducibility of Cadaver Skull by FDM Additive Manufacturing” *Learning and Analytics in Intelligent Systems*, Vol.2, Springer Cham, pp. 662-672, 2020. 3.
4. P. Narsimha, L. Siva Rama Krishna, P. Venkata Ramana, “Influence of Welding Process and Weld Design on The Mechanical Properties of Reduced Activation Ferritic-Martensitic Steel Weldments” *International Journal of Scientific & Technology Research* Volume 9, Issue 04, April 2020. Impact Factor = 0.28. Indexed in Cross Reference & Scopus.
5. Mahipal Reddy, L. Siva Rama Krishna, S. Sharath Kumar and P. Ravinder Reddy, “A Comparative Study on Performance of 3D-Printed EDM Electrode with Conventional EDM Electrode” *Recent Trends in Mechanical Engineering, Lecture Notes in Mechanical Engineering*, Springer Nature Singapore, Jan 2020. https://doi.org/10.1007/978-981-15-1124-0_19.
6. 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.
7. L. Siva Rama Krishna., Natrajan Mahesh, 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.
8. 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**.
9. 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.
10. 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. **(As per google scholar number of citations:10)**
11. L. Mahipal Reddy, L. Siva Rama Krishna, S. Sharath Kumar, P. Ravinder Reddy, “Estimation of Electrical Conductivity of ABS and PLA Based EDM Electrode Fabricated by Using FDM 3D-Printing Process” *International Journal of Modern Engineering and Research Technology*, Volume 5, June 2018, PP-332-338, ISSN: 2348-8565.

12. L. Siva Rama Krishna, Aravind Reddy. G, Bhaskar Sudhakanth. V, Sriram Venkatesh, "Application of 3D Printing for Building Prototype Model of Osmania University Arts College – A Case Study" International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 11 May, 2018 pp. 9267-9272.
13. L. Siva Rama Krishna, Ashok Gundeti, "A Comparative Study on The Components Fabricated by Injection Moulding and FDM 3D Printing Process" International Journal of Mechanical and Production Engineering, ISSN(p): 2320-2092, ISSN(e): 2321-2071, Volume- 5, Issue-12, Dec.-2017.
14. G Prakasham, L Siva Rama Krishna, J Naveen Kumar, A. Sheshu Kumar, "Study of Microstructure Characteristics and Mechanical Properties of Aluminum Alloy Gas Tungsten Arc Welded Joints" Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 5, May 2018.
15. V. V. Ramanamurthy, L. Siva Rama Krishna, "Design of High Pressure Radome with UWB Frequency Coverage for Submarine Communications" International Journal of Mechanical Engineering and Technology (IJMET) Volume 7, Issue 4, July–Aug 2016, pp.96–113
16. E. Madhusudan Raju, L Siva Rama Krishna, Mohamed Abbas, V Nageswara Rao, "Control of Multi-Link Robots with Link Flexibility" International Journal of Scientific Research in Science and Technology Volume 4, Issue 5, Print ISSN: 2395-6011, Online: 2395- 602X, March-April-2018.
17. L. Siva Ramakrishna, Bhaskar Sudhakanth Vemulakonda, Abhinand Potturi, "Evaluation of Zygomatic Complex Fractures Based on Three Point Fixation Technique using Additive Manufacturing", International Journal of Scientific Research in Science and Technology, International Journal of Scientific Research in Science and Technology, Volume 4, Issue 2, January-February, 2018. . ISSN:2395-6011
18. G. Prakasham, Dr. L. Siva Rama Krishna, Dr. A. Seshu Kumar, "A Review on the Effect of Various Process Parameters in Cold Metal Transfer (CMT) GMAW Welding", International Journal of Engineering Research ISSN:2319-6890) (online),2347-5013(print) Volume No.5 Issue Special 2, pp: 432-435, Feb. 2016.
19. E. Madhusudan Raju, L Siva Rama Krishna, Afzal Haroon, Jagapathi, "Analysis of Ankle Joint with Articular Cartilage", International Journal of Creative Research Thoughts, ISSN:2320-2882, Volume.6, Issue 1, Page No pp.288-293, February 2018.
20. L. Siva Rama Krishna, M. Kamal, Sriram Venkatesh and Manmadhachary, "Design and Manufacturing of a Scaffold for Biomedical Applications Using Additive Manufacturing", Indian Journal of Scientific Research, Vol.15, Issue 2, pp. 01-06, 2017, ISSN: 2250-0138 (Online)
21. T. Hima Bindu, L. Siva Ramakrishna, P. Ravinder Reddy, M. Tejdeep, B. Karthik Anand, "Three-Dimensional Modelling and Finite Element Analysis of Conventional Type Miniplates Fixed at Mandibular Fractures" International Journal on Recent Researches in Science, Engineering and Technology, Vol. 5, Issue 9, September, 2017.
22. L Siva Rama Krishna, B Karthik Anand, Ritesh Rajan, T. Hima Bindu, P. Ravinder Reddy, "Finite Element Analysis of a Fractured Mandible Fixed with Micro Plates" International Journal of Engineering Science and Technology, Vol. 9 No.07 Jul 2017, ISSN: 0975-5462.
23. E. Madhusudan Raju, L. Siva Rama Krishna, D. Mounika, S. Sunil Srivatsav, Sajid Ali, D. Neeharika, "Dynamic Analysis Of 2R Manipulator With Joint Clearance" International Journal of Engineering Science and Technology, Vol. 9 No.03 Mar 2017, ISSN: 0975-5462

24. 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.
25. L. Siva Rama Krishna, T.S. Satya Saketh, M.V. Satish Kumar, "A Simulation Based Approach for Studying the Effect of Buffers on the Performance of an FMS" *International Journal of Engineering Science Invention* ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726, Vol. 4 Issue 1, January 2015, pp..05-09.
26. B. T. Shanti Sagar, L. Siva Rama Krishna, "Optimization and Simulation of Facility Layout Using Merger Coefficient Formulae-A Case Study" *International Journal of Research in Engineering & Advanced Technology*, Volume 3, Issue 2, April-May, 2015.
27. 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
28. 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.
29. 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.
30. L. Siva Rama Krishna, G. Ranga Janardhan, C.S.P Rao, "Web Integrated Decision Support System for machine scheduling and inventory management", *The ICFAI University Journal of Operations Management*, Vol. 8, No. 1, pp. 35-52, February 2009. ISSN No. 0972-6888

International Conferences

1. Satish Kumar Parimi and Siva Rama Krishna L, "A review on Wire Arc Additive Manufacturing (WAAM) fabricated components of Ti6AL4V and steels.", 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.
2. E. Madhusudhan Raju, L. Siva Rama Krishna, Sajid Ali, "Electroencephalograph (EEG) Based Brain Computer Interface (BCI) for Controlling Real Time Robot Arm", *International Conference on Recent Innovations in Engineering and Technology (ICRIET-2017)*, held at Bhubaneswar on 12 March, 2017. **ISBN No. 978-93-86352-48-4.**
3. L. Siva Rama Krishna, T. Rishi Narasimha Satya Dev, D. Swathi, Sriram Venkatesh, "Design and 3D Printing of Mechanical Prosthetic Aortic Valve" *International Conference on Emerging Trends in Mechanical Engineering (ICETiME-2016)*, September 23-24, 2016 at Faculty of Science and Technology, ICFAI Foundation of Higher Education, Hyderabad, held during 23 – 24th Sept, 2016.
4. L. Siva Rama Krishna, Sriram Venkatesh, V. Mahesh, "3D Printing an Innovative Manufacturing Tool for Next Generation Entrepreneurs" 2nd International Conference on "Next Generation Education for Entrepreneurial Engineers" Organised by Centre for Entrepreneurship Development, SREC, Warangal during 9th – 10th March, 2015 ISBN: 978-93-84743-53-6.
5. Kushal Singh, L Siva Rama Krishna, B Hari Prasad, P Bhattacharjee, "Analysis of Optimal Methodology for Geometry Reconstruction of An Airborne Launcher" 5th International & 26th

- All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014) IIT Guwahati, Assam, India during 12-14 Dec 2014 ISBN: 978-8-19274-612-8.
6. L. Siva Rama Krishna, Adithyan Ganesan, Sriram Venkatesh, “A Comparative Study on Finite Element Analysis of Implants Made of Different Bio-compatible Materials for Maxillofacial Surgery International Conference on Additive Manufacturing Technologies (AM 2014), organized by Additive Manufacturing Society of India at Bangalore, during 1-2 September 2014
 7. 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.
 8. L. Siva Rama Krishna, V. Uma Maheshwar, V. Nageswara Rao, G. Ranga Janardhan, CSP Rao, “Web-Based Online Condition Monitoring Systems” 4th International Conference on “Vibration Engineering and Technology of Machinery (VETOMAC-IV)”, organized by University College of Engineering, OU & BHEL (R&D), in collaboration with The Vibration Institute of India from 17th to 19th December,2007.
 9. 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**
 10. 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.**
 11. 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.**
 12. 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.**

National Conferences

1. 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.
2. 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.

3. E Madhusudan Raju, L Siva Rama Krishna, Y. Sharath Chandra Mouli and V Nageswara Rao published paper titled “Analysis of Tip Position of a Single Link Flexible Robotic Arm” National Conference on “Emerging Trends in Mechanical Engineering (ETIME-2014)” Organised by Department of Mechanical Engineering, UCE, OU, Hyderabad in 29-30 Dec, 2014.
4. L. Siva Rama Krishna, T. S. Satya Saketh, M. V. Satish Kumar, “Performance Evaluation of an FMS using Legin and Flexsim Simulation Software”, National Conference on “Emerging Trends in Mechanical Engineering (ETIME-2014)” Organised by Department of Mechanical Engineering, UCE, OU, Hyderabad in 29-30 Dec, 2014.
5. M. Hima Bindu, L. Sivaramakrishna, P. Ravinder Reddy, Sriram Venkatesh, “A Review On 3d Modelling of Human Anatomical Models Using Rapid Prototyping” National Conference on “Emerging Trends in Mechanical Engineering (ETIME-2014)” Organised by Department of Mechanical Engineering, UCE, OU, Hyderabad in 29-30 Dec, 2014.
6. M.V. Satish Kumar, L. Siva Rama Krishna, G. Ranga Janardhan, C.S.P Rao, “Effect of Routing Flexibility and Material Handling System in Simultaneous Scheduling problems of an FMS”, National Conference on “Recent Innovation in Mechanical Engineering” (RIME 2014) organized by Dept. of Mechanical Engineering, CMR Technical Campus, March 2014. ISBN No.978-93-83038-13-8.
7. L. Siva Rama Krishna, Sriram Venkatesh, M. Satish Kumar., M. Umamaheshwara Chary, “Application of Rapid Prototyping in Bio-Medical Field – A case study”, National Seminar on “**Trends in Non-Traditional Machining**” organised by Institute of Engineers (India), A.P Chapter at Hyderabad on 5th January, 2013
8. L. Siva Rama Krishna, Sriram Venkatesh, Srinivas Verma, “Feasibility of Granite Powder as a moulding sand for Non-ferrous castings” National Conference on “**Recent Advances in Mechanical Engineering**” organized by Department. of Mechanical Engineering, R.E.C Kurukshetra, 7th to 8th March, 1997

Book Chapter Published

1. Published a book chapter, "Study on the Effect of Link Flexibility on Tip Position of a Single Link Robotic Arm" in the Book "New Approaches in Engineering Research" Vol. 3, 142–151. <https://doi.org/10.9734/bpi/naer/v3/2180F,2021> published by BSP publisher.

Books Published

- 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 Kharagpur held from 15th – 30th 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 Kharagpur held from 27th – 30th December 2008.
- **Editorial board member** of **The International Journal of Emerging Technology and Advanced Engineering** (ISSN 2250–2459).
- **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. PAPER REVIEWER

- Journal of Advanced Manufacturing Systems, World Scientific Publications
- Journal of The Institution of Engineers (India): Series C published by Springer
- International Journal of Simulation Modelling (IJSIMM) published from Austria,
- British Journal of Applied Science & Technology, Published by Science Domain International, UK,
- International Journal of Industrial Engineering and Management
- International Journal of Engineering, Science and Technology
- 19th International Conference on “Flexible Automation and Intelligent Manufacturing” (FAIM 2009), held at University of Teesside, UK.
- Journal of Manufacturing Engineering, India.
- World Applied Science Journal (ISSN: 1818 – 4952) indexed by Scopus.
- International Conference on Advances in Materials and Manufacturing (ICAMM-2016) jointly organized by Department of Mechanical Engineering, University College of Engineering, Osmania University and DRDL, Hyderabad held during 8-10 December, 2016.
- National Conference on “Advances in Mechanical. Engineering &. Nanotechnology”, organised by Dept. of Mechanical Engineering, UCE, OU during. 29-30 June, 2018.
- International Conference on “Emerging Trends in Engineering “(ICETE 2018) organised by OUCE alumni association in association with Springer during 22-23 March, 2019.

19. KEY NOTE/ INVITED LECTURES DELIVERED

Total Number of Key Note / Invited Lectures delivered: **77**

Some of the important Key Note / Invited Lectures delivered are enclosed below

- Delivered two Guest lectures on the topics “Case studies on Innovative Applications of 3D Printing and its sustainability aspects“ and “Demo on SLA-DLP, FDM and 3D Scanner“ on 30-10-2021 in the **one week AICTE Sponsored Online STTP on “3D Printing for**

Sustainable Development” organised by UGC-Human Resource Development Centre, JNTUH & NNRG, Hyderabad during 25-30 October, 2021.

- Delivered two Guest lectures on the topics “Case studies on Innovative Applications of 3D Printing and its sustainability aspects” and “Demo on SLA-DLP, FDM and 3D Scanner” in the **one week AICTE Sponsored ATAL Online FDP** on “3D Printing and Design” organised by Dept. of Mechanical Engineering & CPDDAM, UCE, OU during 25-29 October, 2021.
- Delivered a Guest lecture on the topic, “Digital Additive Manufacturing” in the one week online FDP on “Application Of AI And ML In Mechanical Engineering” organised by Department of Mechanical Engineering, MVSR College of Engineering, Hyderabad held during 18-23 October, 2021.
- Delivered an Invited Lecture on the topics “Innovative Applications of 3D Printing and its Sustainability Aspects” on 16-09-2021 in the three day **online Professional Development Programme (PDP)** on “**Metal Additive Manufacturing and its Applications**” organized by Design Prototyping Centre & Mechanical Division, **Engineering Staff College of India (ESCI)**, Hyderabad in Collaboration with Centre for Product Design, Development and Additive Manufacturing (CPDDAM), Osmania University (OU) held during 15-09-2021 to 17-09-2021.
- Delivered a Guest lecture on the topic “**Innovative Applications of 3D Printing and Its Sustainability Aspects**” in the AICTE Sponsored ATAL online FDP on “**3D Printing Design and Technology**” organised by Department of Mechanical Engineering, NIT, Silchar during 19-23 July, 2021.
- Delivered Two Invited Lectures on the topics “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, Tamil Nadu during 21-25 June, 2021
- Delivered an 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
- Delivered an 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
- Delivered a **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.
- Delivered 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.
- Delivered an 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

- Delivered two Invited lectures 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.
- Delivered an 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” organised by Department of Mechanical Engineering, VNR Vignana Jyothi Institute of Technology, Hyderabad during 15-19 February, 2021
- Delivered an 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.
- Delivered an 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.
- Delivered an 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
- Delivered an 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
- Delivered an 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
- Delivered **Key note 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
- Delivered an 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.
- Delivered an Invited lecture on the topic “Innovative Applications of 3D Printing” on 12-09-2020 in the **one-week AICTE Sponsored Online FDP** on “3D Printing Merges with Nanomaterials in Medical Applications” organized by Department of Mechanical Engineering, Gurunank Institute of Technology during 07-12 September, 2020.

- Delivered an Invited lecture on the topic “Case Studies on Biomedical & Aerospace Applications of 3D Printing” on 09-09-2020 in the **one-week AICTE Sponsored Online FDP** on “3D Printing Merges with Nanomaterials in Medical Applications” organized by Department of Mechanical Engineering, Gurunank Institute of Technology during 07-12 September, 2020
- Delivered an Invited lecture on the topic “Innovative Applications of 3D Printing” on 15-08-2020 in the National Webinar Series on “Recent Innovations in Mechanical Engineering 2020” organized by Department of Mechanical Engineering, Vignan University, Vadlamudi, Guntur dist., during 03-08 August, 2020.
- Delivered an Invited lecture on the topic “Innovative Applications of 3D Printing” on 07-08-2020 in the **one-week AICTE Sponsored Online FDP** on “3D Printing Merges with Nanomaterials in Medical Applications” organized by Department of Mechanical Engineering, Gurunank Institute of Technology during 03-08 August, 2020
- Delivered an Invited lecture on the topic “Case Studies on the Biomedical and Aerospace Applications of 3D Printing” on 05-08-2020 in the **one-week AICTE Sponsored Online FDP** on “3D Printing Merges with Nanomaterials in Medical Applications” organized by Department of Mechanical Engineering, Gurunank Institute of Technology during 03-08 August, 2020.
- Delivered an Invited lecture on the topic “Innovative Applications of 3D Printing” on 15-08-2020 in the National Webinar Series on “RECENT INNOVATIONS IN MECHANICAL ENGINEERING _2020” organized by Department of Mechanical Engineering, Vignan University, Vadlamudi, Guntur dist., during 03-08 August, 2020.
- Delivered an Invited lecture on the topic “Case Studies on the Innovative Applications of Additive Manufacturing” on 10-07-2020 in the one-week online FDP on “Recent Developments in Mechanical Engineering” organized by Department of Mechanical Engineering, Kakatiya Institute of Technology and Science, Warangal during 07 - 11 July, 2020.
- Delivered an Invited lecture on the topic “Case Studies on the Applications of Additive Manufacturing” on 23-06-2020 in the one-week **online ATAL AICTE FDP** on “Advances in Mechanical Engineering” organized by Department of Mechanical Engineering, Lords Institute of Engineering and Technology Hyderabad, during 22 - 26 June, 2020.
- Delivered an Invited lecture on the Topic, “Applications of 3D Printing in Biomedical, Aerospace and Electronic Industries” on 01-06-2020 in the one-week online FDP on “Advanced Manufacturing Enterprise in Digital Era” organized by Department of Mechanical Engineering, Aditya Institute of Technology and Management, Srikakulam, A.P during 01 - 05 June, 2020.
- Delivered an Invited lecture on the Topic, “Case Studies on Biomedical Applications of 3D Printing” on 23-05-2020 in the online webinar series organised by Dept. of Mechanical Engineering, Srinidhi Institute of Science and Technology, Hyderabad during 20-27 May, 2020.
- Delivered a **Keynote Lecture** on the topic “Case Studies on the Applications of Additive Manufacturing in Biomedical, Aerospace and Electronic Industries” on 02-03-2020 in the **one-week AICTE Sponsored Short Term Training Programme** on “Additive Manufacturing and 3D Printing - A connotation to Indian context” organized by Department of Mechanical Engineering, Lendi Institute of Engineering and Technology, Vizianagaram, A.P during 02 - 07 March, 2020
- Delivered an Invited Lecture on the topic “Innovative Applications of Additive Manufacturing” on 24-09-2019, during the two day All India Seminar on “Recent Trends in Automation and Digital Technologies” organized by The Institute of Engineers (India), Telangana State Chapter, Hyderabad during 23 - 24 September, 2019.

- Delivered an Invited Lecture on the topic “Awareness & implementation of MOOCS - SWAYAM online Courses” on 01-10-2019, during the one-day FDP Program on implementation of MOOCS-SWAYAM courses organized by Dept. of Computer Science, Aurora's Degree & PG College, Hyderabad on 01 October, 2019
- Delivered an Invited Lecture on the topic “Role of Additive Manufacturing in Industry 4.0” on 06-11-2019 in the one-day workshop on “Advances in Manufacturing” organized by Department of Mechanical Engineering, Nalla Malla Reddy Institute of Engineering and Technology, Hyderabad, Telangana State.
- Delivered an Invited Lecture on the topic “Additive Manufacturing and its Applications “on 09-11-2019 on the occasion of KITS Association of Mechanical Engineering Students formation day organized by Department of Mechanical Engineering, KITS, Huzurabad, Karimnagar, Telangana State.
- Delivered an 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.
- Delivered an 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.
- Delivered an 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
- Delivered an Invited Lecture on the topic, “Applications of 3D Printing in Biomedical and Aerospace Fields “on 24-01-2019 in the Three-day Faculty Development Program (FDP) on “Scope, Challenges, Opportunities for Research in Emerging areas of Mechanical Engineering” (SCORE –ME) organised by Dept. of Mechanical Engineering, KITS, Huzurabad during 23 – 25 January, 2019.
- Delivered a **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.
- Delivered a **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.
- Delivered a **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

- Delivered an Invited Lecture on the topic “Application of CNC Machining in Automobile & Defence Fields – Hybrid Manufacturing” on 20-03-2018 in the Two-day National Workshop on “Computer Aided Manufacturing” organized by Dept of Mechanical Engineering, Methodist College of Engineering and Technology during 20-21 March, 2018.
- Delivered an 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.**
- Delivered an 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.
- Delivered an Invited Lecture on the topic “Applications of 3D Printing in Biomedical and Aerospace Fields” in the 3 Day (21-12-2017 to 23-12-2017) National Workshop on “Emerging Trends in Manufacturing” organized by Dept. of Mechanical Engineering, CVR College of Engineering, Hyderabad on 22-12-2017.
- Delivered an Invited Lecture on the topic “Applications of 3D Printing in Biomedical and Aerospace Fields” in the AICTE Sponsored Two Week Faculty Development Programme (27-11-2017 to 09-12-2017) on “Rapid Casting Techniques” organized by Dept. of Mechanical Engineering, Guru Nanak Institute of Technology, Hyderabad on 05-12-2017.
- Delivered an Invited Lecture on “Applications of 3d Printing in Bio-Medical and Bio-Aerodynamics Fields” organised by Department of Mechanical Engineering and Bio Technology, Sreenidhi Institute of Science and Technology, Hyderabad on the occasion of TEQIP-II sponsored one day National Seminar on Recent Trends in Bio-aerodynamics and Bio-mimicking---UMVs held on 25 March 2017.
- Delivered an Invited Lecture on “Applications of 3D Printing on Biomedical and Aerospace Applications” on 18 July, 2016 organized by Dept. of Mechanical Engg., CVR college of Engineering, Hyderabad held during 18-19 July, 2016.
- Delivered an Invited Lecture on “Applications of 3d Printing in Biomedical, Aerospace and Automobile Industries” On the Occasion of TEQIP Sponsored 3 Day National Workshop (9th To 11th March 2016) On “Recent Trends and Research Opportunities in Manufacturing Processes” Organized by Department of Automobile Engineering, VNR Vignana Jyothi Institute of Engineering & Technology, Hyderabad, On 09-03-2016.
- Delivered an Invited Lecture on “Biomedical Applications of Additive Manufacturing” organized by Dept. of Mech. Engg., GRIET, Hyderabad on the occasion of 3-day FDP (25-27 March, 2015) on 26 March, 2015
- Delivered an Invited Lecture on “3D Printing and its Applications in the Medical Field” on the occasion of 3 Day (24-26, July 2014) Professional Development Training Programme (PDP) organized by ESCI-The institution of Engineers (India) on 26-07-2014
- Delivered an 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.**
- Delivered an 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.

- Delivered an 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, Chhattisgarh** in collaboration with CPTIP, University College of Engineering, Osmania University, Hyderabad held on 16th September, 2013.
- Delivered an 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.
- Delivered an Invited Lecture on the topic, “An overview of Rapid Prototyping” during Two-day National Workshop on “Recent Trends in Manufacturing” organized by Dept. of Mechanical Engineering, **CBIT, Hyderabad** under TEQIP=II held from 29th – 30th, July 2013.
- Delivered an 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 – 09th March, 2013 under TEQIP –II.
- Delivered an 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.
- Delivered an Invited Lecture on the topic, “Overview of Rapid Prototyping” during the two-day workshop (23-01-2013 to 24-01-2013) on “Modelling and Simulation of Mechanical Engineering Systems” organized by Srinidhi Institute of Science and Technology, Hyderabad under TEQIP-II.
- Delivered an Invited Lecture on the topic, “*Advanced Manufacturing Technologies*” on 30th Oct, 2012, during two day In-Plant Training Programme on (29-30th Oct, 12) on “Manufacturing Excellency” organised by **Institute of Public Enterprise (IPE) Hyderabad** at BDL, Kanchanbagh, Hyderabad.

20. CHAIRING TECHNICAL SESSIONS IN CONFERENCES

- Chaired Technical Session II on 03-04-2021 in the first 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
- Chaired Technical Session I on 30th October, 2020 in the **AICTE sponsored Two-day International E-Conference on “Sustainable Development in Mechanical Engineering (SDME 2020)”** organized by Department of Mechanical Engineering, VNRVJIET, Hyderabad during 30-31 October, 2020.
- Chaired a Technical Session in the **65th Congress of ISTAM -2020** organised by GEETAM Deemed to be university, Hyderabad held during 9-11 December, 2020.
- Chaired a Technical Session in the **International Conference on Advances in Materials & Manufacturing** jointly organised by Department of Mechanical Engineering, University College of Engineering, Osmania University and Defence Research & Development Laboratory (DRDL),

DRDO, Ministry of Defence, Government of India during December 8-10,2016, Hyderabad, INDIA.

- **Chaired a Technical Session** in the International Conference on Emerging Trends in Mechanical Engineering (ICETiME-2016) Dept. of Mechanical Eng., Faculty of Science and Technology, IFHE, Hyderabad during 23-24 Sep, 2016.
- **Chaired a Technical Session** in the National Conference “Large Scale Multidisciplinary Systems of National Significance - Trends & Challenges” (LAMSYS-2016) organized by **ISRO at Srihari Kota during 24-25 June, 2016.**
- **Chaired a Technical Session** 5th International Conference on Material Processing & Characterization (ICMPC 2016) at GRIET, Hyderabad held during 12th – 13th March, 2016).
- **Chaired a Technical Session** at the AICTE Sponsored National Conference on Innovative Trends in Mechanical and Automobile Engineering (ITMAE-2016) organized by Dept. of Mechanical Engineering, MVSR Engineering College, Nadargul, Hyderabad in during 11- 12, February, 2016.
- **Chaired a Technical Session** at 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, held during 29- 30 December, 2014

21. 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:

- **STRESS MANAGEMENT**, By Mahashring Prabhuji, President of ISKCON Kukatpally was organized on 13-02-2020
- **Elocution Competition on Kill the Cancer** organized in association with ISKCON Kukatpally on 27-02-2020
- 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.
- Organised **two health camps on 08-02-2018 & 28-09-2018** in association with **Virinchi Hospitals, Hyderabad and Star Hospitals, Hyderabad.**
- On the occasion of **50th Formation Day of NSS Organise an Interactive Talk on “EAT RIGHT STAY FIT (POSHAN ABHIYAN) – Speaker – Dr. RADHA REDDY CHADA** Chief Consultant Clinical Dietician, Sunshine Hospitals, Secunderabad was organised on 24-09-2019
- Organised **one Day Swachh Bharat Campaign on 25-4-2017 at A1 Grounds, Osmania University** on the occasion of **Centenary Celebrations.**
- **Framed Syllabus for NSS** as it is made as a **Mandatory Subject for IV semester BE Mechanical Engineering.**
- **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 camp in association with IAF to students on Job Opportunities in Indian Air force on 16-01-2016.: 150 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
 - Conducted Run for Unity to celebrate the day as "Rashtriya Ekta Diwas" or National Unity Day on 31st Oct 2016, 31st Oct 2015 & 31 Oct 2014, as a tribute to India's first home minister Sri Sardar Vallabhbhai Patel. On this occasion Run for Unity was organized from University College of Engineering main building to University Arts College.
 - Organised Swachh Bharat Programme essay writing competition on 19-09-2016. 50 volunteers participated
 - 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 Counselling Centre, OU delivered the lecture. 150 volunteers participated.
 - Conducted Swachh Bharat Campaign on 02-10-2014 in the college premises.

22. ANY OTHER SIGNIFICANT CONTRIBUTIONS

- Established network of connectivity with hospitals like Osmania Dental College, Care hospitals Banjara Hills, Yashoda Hospitals Secunderabad and SVS Dental College Mahabubnagar for carrying out research work in the application of 3D printing for Bio-medical field, so that in future a centre of excellency for developing biomedical implants and bioprinting artificial organs can established.
- **3D printed the entire Arts College of Osmania University and 3D Printed University College of Engineering, Osmania University, Hyderabad.**

Place:
Date:

Signature