



# K.Sirisha

## Asst.Professor



**Education Qualifications:** MTech (Ph.D)  
**Specialization:** CAD CAM

### ADDRESS:

- B – Block -Room No 104

### JNTUH ID:

0230-150620-105543

### EMAIL:

Ksirisha\_mct@mgit.ac.in

### DATE OF JOINING:

15-06-2015

### EXPERIENCE - 13 Years

- Teaching – 11 Years
- Industry -2

### SUMMARY:

- Publications - 6
- Conferences - 4

### EVENTS:

- Organized - 10
- Attended - 40

### Membership of Professional Bodies:

1. Life Member of Indian Society for Technical Education- LM 95909

### Responsibilities Held at Institution Level:

1. Campus Monitoring
2. Anti-Ragging committee member to make sure that the campus is ragging free.

### Responsibilities Held at Department Level:

1. CAD CAM Lab Incharge
2. B Tech – Class Incharge
3. Department TASK Coordinator
4. Mentor for MCT Students

### Courses Handled at Under Graduate /Post Graduate Level:

1. **UG:** CAD/CAM, CNC Technology, Engineering Graphics, Advanced Manufacturing Methods (IPU), Power plant Engineering, Manufacturing Technology(GBTU), Finite Element Methods, Total Quality Management, Thermal Engineering –I (JNTUA), Mechanical Technology (for Civil Engineering), CAD/CAM Lab, CNC Lab, Heat Transfer Lab, BWS Lab
2. **PG:** Advanced CNC Technology, Waste To Energy

### Publications:

1. International Journal on “Three-Dimensional CFD Analysis on Modified Savonius Wind Turbine” in International Research Journal of Engineering and Technology (IRJET), Volume 08, Issue10, 2021 with ISSN: 2395-0072
2. International Journal on “Improving the Toughness of Ceramic Matrix Composites: A Comprehensive Review”, Journal of Mechanical Engineering Research and Developments, Vol. 44, No. 10, 2021, with ISSN: 1024-1752
3. International Journal on “Design and Fabrication of Octacle Arm” in Journal of Xi'an University of Architecture & Technology Volume XIII, Issue 6, 2021 with ISSN No : 1006-7930
4. International Journal on “An Experimental Investigation Of Production Of Activated Carbon From Coconut Shell Char Using Steam Fluidized Bed Reactor” in Journal of Huazhong University of Science and Technology, Volume 50, Issue 6 , 2021 with ISSN-1671-4512.
5. Published a paper on “An Overview of an Intelligent Robot Navigation System using Ultrasonic Sensors and RFID” in Journal of Innovation in Mechanical Engineering, Vol. 2(2) Jul – Dec 2019: ISSN (Online): 2581-7019.
6. International Journal on “An Over view of Ceramic Matrix Composites” in International Journal of Advance Engineering and Research Development Volume 4, Issue 5, May -2017.



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**Conferences:**

1. Presented a paper titled “RECENT DEVELOPMENTS IN RENEWABLE ENERGY” in 2nd International Conference on Advance Sciences HUB (ICASH - Online) organized by the RSP Conference Hub, Coimbatore, India , on 26th and 27th June 2021.
2. Presented a paper titled “DESIGN AND ANALYSIS OF DIFFERENT BLADE DESIGNS FOR SAVONIUS WIND TURBINE” in 2nd International Conference on Advance Sciences HUB (ICASH - Online) organized by the RSP Conference Hub, Coimbatore, India, on 26th and 27th June 2021.
3. Presented a paper titled “Development of Robot Navigation System” in an international Conference “ICRAME-2020” by Dept of ME, VITS, Hyderabad on 10th and 11th DEC 2020.
4. Presented a paper in IEEE Springer conference with title “A New Switching Pattern Scheme Based Compact Integrated 15-Level Smart Inverter for Micro-Grid System using Fuzzy Controller” at Sikkim Manipal University in December 2016 and paper published in Springer in 2018

**Events Organized:**

**FDPs/STTPs:**

1. Online Short Term Training Programme (STTP) Slot-3 on “ Recent Advances In Micro Electro Mechanical Systems (Mems), Mechatronics And Their Applications For Future Challenges” From 2<sup>nd</sup> to 7<sup>th</sup> NOV 2020

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

1. Organized and worked as mentor for a three Phase workshop on “Fusion 360” with the co-ordination of ICT Academy and Autodesk for India Design Week Competition-2021 and received certificate of recognition for outstanding Dedication and support from Autodesk India and ICT, as MGIT Students reached to top 6 Finalists in IDW 2020-2021 Competition
2. Organized Guest Lecture by G.Sai Kiran, Assistant Manager, Data Analytics and Electronics cell, Mahindra & Mahindra on Industry 4.0- Digital Automotive Manufacturing on 05/10/2020.
3. Organized Guest Lecture by Mr. G.H.Kotresha, Senior Design Engineer, Akuva Infotech Pvt. Ltd., Bangalore on 3D Scanning & Reverse Engineering on 28/09/2020.
4. Organized Guest Lecture by Mr. Sethupathy Rajesh, Senior Manager in Emerson Process Management, Noida on An Over view of Thermal Power Plant on 21/09/2020.
5. Organized Guest Lecture by Mr. Aravind Ramachandran , MTC, Chennai on Advanced Trends in Automation and Robotics on 14/09/2020.
6. Organized one day webinar on “A Practical Approach on Industry 4.0 & Its Implementation in Smart Factories” on July 26th, 2020 in coordination with MTC, Chennai.
7. Organized a three-day workshop on “AutoCAD Professional” with the co-ordination of TASK, at MGIT from 27th Feb to 29th Feb 2020.
8. Guest Lecture by Dr.P.Chandra Sekhar, Director, Technic Design Group on Advances in Mechatronics on 19-02-2020.
9. Guest Lecture by Rohit from Tech fluent on Awareness on Lab View software on 14-02-2020.



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**Events Attended:**

**FDPs/STTPs:**

1. Attended AICTE ATAL FDP on “Nanotechnology for Green Processes and sustainable Development” from 24th Aug 2020 to 29th Aug 2020 organized by Dep of Chem.Engg, VNIT, NAGPUR.
2. Attended “3D Printing and Design” from 18th Jan 2021 to 22nd Jan 2021, AICTE Training and Learning (ATAL) Academy FDP in coordination of PSG College, Coimbatore.
3. Participated in the AICTE sponsored FDP on “Recent Advances in Design and Development of Mechatronics & Robotic Systems” organized by MGIT at JNTU Staff Hyderabad from 04-12-2017 to 16-12-2017.
4. Participated in ‘Empowerment Coaching for facilitators’ training program organized by TATA STRIVE and sponsored by” TASK” for one week with 3 phases.
5. Participated in the Three-day FDP on Autodesk Fusion 360 cad software sponsored by TASK and organized by MGIT, Hyderabad. 14th -16th December 2016.
6. Participated in two-day FDP on "Teaching Engineering" organized at MGIT, Hyderabad. March 3rd, 2016.

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

1. Developing tomorrow’s Skills- Tips to crack the Job Interviews” At Engineering Staff Collage of India, Autonomous Organ of The Institute of Engineers (India), Gachibowli, Hyderabad on 25 th Oct 2021
2. Attended one month online Faculty Induction Program -6 , Organized by JNTU Hyderabad, UGC HRDC under MHRD, from 30th August to 8th October 2021.
3. Participated in “One day National seminar on Bamboo” on 27th December 2019 at CBIT, Hyderabad
4. Attended for One day workshop on ‘A unique inspirational creative event and project launch program’ conducted on 8th November 2019 by Brahma Kumari’s at Global Peace Auditorium, Santi Sarovar, ISB Road, Gachibowli, Hyderabad.
5. Participated in Detailed Design Review Meeting on “MULTI-CHANNEL BEAM DIRECTING OPTICAL CHANNEL” on 1st Nov 2019 at CHESS, RCI for Sahasra Shakthi Project.
6. Participated in OPEN DAY event to see state-of-the-art laboratories for materials science and engineering, witness select equipment in operation and to interact with Scientists at ARCI, Balapur, Hyderabad on 24th October 2019.
7. Attended a Seminar on “Micro structural characteristics of Composite materials” organized by MMT Dept, MGIT on the occasion of Metallon’ 2019 in collaboration with DMRL, ARCI. On 12th February 2019.
8. Attended to a seminar on “Teacher as performer” organized by MGIT, Dept of M&H on 21st December 2018.



### **Online Certifications:**

#### NPTEL

1. Computer Integrated Manufacturing- Elite –silver
2. Computer numerical control CNC of machine tools and processes

#### COURSERA

1. Material Processing
2. Advanced Functional Ceramics
3. Materials Science: 10 Things Every Engineer Should Know
4. Introduction to CAD, CAM, and Practical CNC Machining

Online FDP attended – 32

Online Webinars attended -34

### **Any Other Contribution:**

1. Invited as guest trainer for “3D Printing” training session for a 3 days from 4th of July 2017 to 6th July 2017 to train Engineering executives on AutoCAD at ESCI, Autonomous Organ of The Institute of Engineers (India), Gachibowli, Hyderabad
2. Certified internal Quality Auditor For ISO9000 certification for educational Institute.

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