# SANTOSH KUMAR TRIPATHY

**M.Tech (Machine Design)**

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**Phone No- 7205700824**

ACADEMIC PROFILE:

* M.Tech in machine design in the year of 2016.
* B.Tech in mechanical Engineering in the year of 2012.

**TEACHING EXPERIENCE:**

* Presently working at G.I.E.T Gunupur as Assistant professor in mechanical engineering since 10 years.

**Profile Snapshot**

* **Co- Convener** in Science and tech Expo in 2016, 2017,2018 ,2019 and 2022
* Organized 1 day workshop on “Basic Aircraft and Drone Technology”
* Organized 14 days workshop on “Electric GO-KART manufacturing”
* Organized 2 days workshop on “Piping design engineering”
* Organized 2 days workshop on “Automobile Engineering”
* Organized 2 days workshop on “BS-IV, Emission control technology(iEGR) with Ashok Leyland KNOW”
* Organized 2 days workshop on “NON DESTRUCTIVE TESTING”
* Organized 2 days workshop on “ IC ENGINE and catia”
* Organized 2 days workshop on “ 3d printing ”.
* Actively participated in the work process for **NACC and NBA and AUTONOMOUS.**

**RESPONSIBILITIES UNDERTAKEN**

* Guided 25 B.Tech projects and 11 M.tech project.
* M.tech Coordinator of Machine Design.
* Appointed as proctor supervisor for mechanical engineering department.
* Appointed as a Co-Convener of cultural committee.
* Central Exam Cell Member
* Appointed as Hostel in charge.
* Appointed as a class teacher.
* Appointed as E-class member.

**Subjects Taught:**

* ***Engineering thermodynamics***
* ***Basic mechanical engineering***
* ***Kinematics and Dynamics of Machine***
* ***Machine design-1and 2***
* ***Optimization engineering***
* ***Production and Operation Management***
* ***Mechanical Vibration***
* ***Elements of mechanical Engineering***
* ***Thermodynamics and heat transfer***

**Publication**

1**. “Heat Transfer and Entropy Generation through Finned Tube”**, in Turkish Journal of Computer and Mathematics Education, Vol.12 No.9 (2021), 587 – 605.

**2.“An extensive analysis of mechanical and tribological studies of Al6061 alloy based hybrid composite reinforced with B4C and Graphene”** in Materials Today: Proceedings, January 2021.

3. “**Energy Conservation of Speed Breaker with Suitable Design”,** IOP Conference Series: Materials Science and Engineering, August,2020.

4. **A review on turning analysis of industrial waste reinforced aluminum metal matrix composite,** Materials Today: Proceedings,June-2020.

5. *“*Model analysis of variation of taper angle for cantilever and simply supported beam” In IJIRSET, volume 4, issue 11, November 2015

## 6. “Optimazation of machining parameter of aluminium oxide and silicon carbide compositmetarial by using taguchi method” In IJESRT,Volume-5, issue-4,April-2016.

**7.** **“** **Optimization of Machining Parameters of Al-SiC alloy by Using Taguchi Method”** In **IJIR,** Volume-2, issue-5,2016.

**8. “ Investigation of Mechanical and Welding Defect of Metal Piece Welded Through ARC and TIG**

**Welding ” In IJRASET ,**Volume-4,Issue -4, April 2016.

**9**. **“DESICCANT EVAPORATIVE COOLING SYSTEM”, in IJSDR**, Volume 2 Issue 4, April-2017.

10. **“Mechanical and Wear Behavioral Assesment of Al 7075-Al2o3 Metal Matrix Composite”** in IJITEE, Volume-8 Issue-11, September 2019.

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| **Seminar/workshop attended** |

### National seminar on “FUTURE CHALLENGES IN TECHANICAL EDUCATION”, Organised by CTTC ,Bhubaneswer.

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| **FDP attended** |

* Attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Augmented Reality and Virtual Reality" from 09/08/2021 to 13/08/2021.
* Participated in FDP Program organized by NITTTR Kolkata.
* Participated in FDP Program on **optimizing process with Design of experiment organized** by **G.I.E.T, Gunupur.**
* Attended one FDP on Auto Cad (2D & 3D Modeling) from 07-04-2014 to 12-04-2014 at GIET, Gunupur
* Attended one FDP on “Ansys & Its application” from 10-04-2015 to 12-04-2015 at GIET, Gunupur.
* Attended Two Weeks Online FDP On Latex from 18-04-2020 to 01-05-2020.
* Attended one-week FDP on “Emerging Green Technologies for the Mechanical Engineers”  from 03/08/2020 to 08/08/2020.
* Attended One Week FDP on “Emerging Technologies in Education, Innovation and Research” at GIET University, Gunupur, Odisha – from 20-07-2020 to 25-07-2020.

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| **Conference attended** |

* Presented a paper in “3rd International Conference on Processing and Characterization of Materials (ICPCM 2021)”, at NIT Rourkela from 7-8 December 2021.
* Presented a paper in “International Conference on Technologies for smart Green Connected societies( ICTSGS-1) conference led by Yamagata University Japan from 29-30 November 2021.
* Presented a paper in “INTERNATIONAL CONFERENCE ON MATERIALS PROCESSING AND CHARACTERIZATION (ICMPC 2021 )”, at IIT,INDORE, from 15-12-2019 to 16-12-2020.
* Presented a paper in online National Conference on “SUSTAINABLE MATERIALS AND PRACTICES FOR INFRASTRUCTURE DEVELOPMENT (SMPID-2020)” held on 17th & 18th September 2020.
* Attended international web conference on “SCIENCE, ENGINEERING AND TECHNOLOGY-2020”, from 15.05.2020 to 16.05.2020.
* Attended “INTERNATIONAL CONFERENCE ON - INNOVATION INFRASTRUCTURE DEVELOPMENT IN INDIA : ISSUES, CHALLENGES AND WAY-FOREWORD by Innovation Society India from 08.05.2020 to 09.05.2020.
* Presented a paper in “ INTERNATIONAL CONFERENCE ON PROCESSING AND CHARACTRIZATION OF MATERIAL”, at NIT, Rourkela from 12-12-2019 to 14-12-2019.
* Attenended “NATIONAL CONFERENCE ON ADVANCED ENGINEERING MATERIALS” at GIET,Gunupur from 23-07-2016 to 24-07-2016.
* Attenended “ INTERNATIONAL CONFERENCE ON RECENT INNOVATION IN ENGINEERING AND TECHNOLOGY” at GIET,Gunupur from 6-11-2016 to 7-11-2016.

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| **Online Course** |

* *Completed* Online Course on Basic Inspection Methods by CWB Group, Canada, from 01.04.2020 to 30.04.2020.
* *Completed* Online Course on Course Welding Health And Safety, Canada, from 01.04.2020 to 30.04.2020.

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| **PROFESSIONAL MEMBERSHIP** |

* Associate Member in Institute of Engineers since 3rd April 2015.